

Customization | Restoration | Performance  
Be Different. Outperform. Look Amazing.

"The guys at Apex want the best for their customers no matter how big or small the project is. And that's why I'll keep going back"

Bring Your Ride To Life!

Your car means the world to you. We get it, we feel the same way about our own. That's why we work with you to figure out exactly what you're looking for, and then make your vision a reality.

When you work with us, you get a car that will impress even the most seasoned auto enthusiasts and put your unique personality on prominent display.

- QUALITY - We go above and beyond to make sure you're just as satisfied with our work today as you are 5 years from now.
- EXPERTISE - We know everything there is to know about cars, and we'll help you make the right decision on your own.
- SELECTION - We have the largest selection of premium automotive products and services in the industry
- HONESTY - We're not here to make a quick buck. We'll help you make the right decision for your car and your budget, even if that means making less money.
- SERVICE - We can handle all of your customization needs and will give you updates as we upgrade your ride.
- UNDERSTANDING - We work with everyone from beginners to experts and treat everyone with the same level of respect.

"It's so rare to find a business that goes above and beyond what you expect. Tyler and the folks here kept me involved in the process to make sure I was satisfied every step of the way."

EXPLORE SERVICES  
#tempe

OUR SERVICES

All Your Custom Auto Needs Under One Roof

Whether you have one specific job in mind, or multiple modifications, we can do it all. No need to spend days bouncing around from shop to shop, trying to find the right people for each specific job.

Body & Paint

Car Audio / Video

Clear Bra

Engine Performance

Automotive Lighting

Uphosltery

Ceramic Pro

Performance Suspension

Vehicle Graphics

Vinyl Wrap

Wheels & Tires

Window Tinting

QUOTE REQUEST  
#phoenix

QUOTE REQUEST

If you're looking for a shop that can do everything you need, for a price you can afford, in a timeframe you feel good about, get in touch.

We'll answer any questions you have, and help you figure out exactly what you need to take your car to the next level.

We service cars, trucks, SUVs, and motorcycles in the Phoenix, Tempe, Scottsdale, Mesa, Gilbert, Peoria, or Glendale Arizona areas. To learn more about our approach to automotive customization, check out our about us page.

Request Quote

OUR REVIEWS

ALEX S.

"From the moment I walked in I felt like I was dealing with people I have known for a very long time. They are very informative and help you figure out the right look for you and your car. I would recommend apex over any other custom shop in the valley because the work is amazing and they take the extra step to make sure it's done right"

TERRY K.

"Cannot praise this place enough!! If there were 10 stars, I'd give them a 10-star rating. I called them about some custom lighting I needed for my handicap van and they scheduled an appointment for me to come in and see Jay for advisement. The service was impeccable, the pricing was reasonable, and they were honest."

LAUREN L.

"I'm always skeptical when it comes to the people working on my car. However, Tyler was beyond helpful from the very beginning. I felt like he was educating me rather than trying to pitch his business. He was honest, transparent, and helpful and I felt completely comfortable leaving my car in his hands."

[Read More Reviews](#)

#### QUOTE REQUEST

Ready to get your ride customized? Fill out our form submission below with as much detail as you can provide about your project and we will put together a customized quote for you.

We provide best services for any vehicle type including cars, trucks, vans, motorcycles, SUVs and more!

QUOTE

Apex Customs

WORK REQUEST

Contact Info

First Name

Last Name

Vehicle Details

Search Vehicle (year, make, model)

Can't find your car?

Contact Details

Email

Phone Number

Referral Source (Optional)

Select...

Description

Tell us what work you might need done on your vehicle.

Add Attachment

General Automotive Services  
by Apex Customs

General Automotive Services

There are many places you can take your car for maintenance and service including dealerships, specialty repair chains, and independent shops. There are pro's and con's to all of these options. Without throwing shade at any other shops, let's look at the main benefits of using Apex Customs for your general automotive services.

**More Experienced and More Capable Technicians** - The same technicians that do full restorations and customizations will be handling your service project. They are more skilled in the widest variety of automotive makes, models and systems. For example, the guys that will do your tune-up, are the same guys that just finished an engine swap on a classic streetrod. The guys that will do your brake job, are the same guys that just rebuilt a transmission on an exotic sports car.

Let's take a closer look at the general automotive services provided by Apex Customs and explain why we're the ultimate solution for your vehicle.

**Routine Maintenance:** Routine maintenance is essential for the longevity of your vehicle. Apex Customs offers various maintenance services, including oil changes, tire rotations, and brake inspections. Our experienced technicians use only high-quality products to ensure your vehicle receives the best possible care. We recommend regular maintenance at 3,000, 5,000, and 7,500-mile intervals, depending on your vehicle's make and model.

**Repairs:** At some point, every vehicle requires repairs. Whether you need a minor fix or a major overhaul, we've got you covered. Our technicians have the knowledge and expertise to diagnose and repair any issue quickly and effectively. From engine repairs to transmission rebuilds, our team has seen it all.

**Custom Upgrades:** Looking to take your vehicle to the next level? Apex Customs offers a range of custom upgrades, including suspension, exhaust systems, and lighting. Our team of experts will work with you to create a personalized plan that meets your unique needs and preferences. Our custom upgrades not only enhance the look of your vehicle but also improve its performance.

**Paint Shop, Coatings & Detailing:** A well-maintained vehicle is a thing of beauty. Apex Customs offers custom detailing services to help your vehicle look its best. Our detailing services include paint correction, ceramic coatings, PPF (clear-bra) and vinyl wraps. With our attention to detail and high-quality products, your vehicle will look new again. We recommend detailing your vehicle at least twice yearly to maintain its appearance and protect its paint.

Apex Customs offers all the routine maintenance services your car needs to stay in tip-top condition for as long as you own it. Here are just some of the services we provide:

**Brake Jobs:** Brakes are one of your vehicle's most important safety system components. Regular brake maintenance is crucial to ensure that they function properly when you need them most. At Apex Customs, our technicians will inspect your brake system for signs of wear and tear and replace any damaged parts. Whether you need new brake pads, rotors, or calipers, we've got you covered.

**Tune-Ups:** A tune-up is a general maintenance service that involves inspecting and replacing worn parts to improve your vehicle's performance and fuel efficiency.

During a tune-up, our technicians will replace your spark plugs, air filter, fuel filter, and other components as needed. A regular tune-up can extend the life of your vehicle and prevent more costly repairs down the road.

**Oil Changes:** Oil changes are one of the most common routine maintenance tasks every vehicle owner should perform regularly. Fresh oil helps to lubricate your engine and prevent wear and tear on your components. Apex Customs uses high-quality synthetic oils that offer superior protection and performance. We also inspect your vehicle for other issues during your oil change appointment, such as leaks or worn belts.

**Fluid Flushes:** Your vehicle has several different fluids that help to keep it running smoothly. Over time, these fluids can become contaminated or break down, leading to reduced performance and potential damage to your components. Our technicians can perform fluid flushes on your transmission, power steering, and coolant systems to ensure your vehicle operates at its best.

**Battery Maintenance:** Your vehicle's battery starts your engine and powers your electronics. At Apex Customs, we offer battery maintenance services to help extend the life of your battery and prevent unexpected failures. We can test your battery's voltage, replace it if necessary, and inspect your charging system and cables to ensure they function properly.

By performing these routine maintenance tasks, you can ensure that your vehicle is operating at its best and reduce the risk of unexpected breakdowns or costly repairs down the road. Trust the experts at Apex Customs for all your car maintenance needs.

**Why Choose Apex Customs:**

**Quality:** At Apex Customs, we pride ourselves on providing top-quality services. We use only the best products and materials to ensure your vehicle remains in top condition. Our technicians are highly skilled and experienced, so you can trust that your vehicle is in good hands. We stand behind our work and offer a warranty on our services.

**Customer Service:** At Apex Customs, we understand that our success depends on the satisfaction of our customers. That's why we go above and beyond to ensure you're happy with our services. You'll be treated with respect and professionalism from the moment you walk through our doors. Our team is always available to answer your questions and keep you informed.

**Competitive Pricing:** At Apex Customs, we believe that top-quality services shouldn't come with a high price tag. That's why we offer competitive pricing on all our services. We'll work with you to create a plan that meets your needs and budget. We also offer financing options to make our services more affordable.

**Trust:** At the end of the day, you want to trust that your vehicle is in good hands. With Apex Customs, you can rest assured that your vehicle receives the best possible care. We're committed to honesty and transparency, so you'll never worry about hidden fees or unnecessary services. Our team will always provide a detailed estimate before starting any work on your vehicle.

At Apex Customs, we're passionate about cars and committed to providing the best possible services to our customers. From routine maintenance to custom upgrades, we've got you covered. With our experienced technicians, top-quality products, and commitment to customer satisfaction, you can trust us to keep your vehicle running smoothly and looking great. Contact us today to learn more about our services and experience the Apex Customs difference.

## CLASSIC CAR SERVICES

TEMPE, AZ | PHOENIX, AZ

Classic Car Service  
by Apex Customs

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Owning a classic car can be a dream come true for many people. The timeless beauty and rich history of these vehicles are hard to resist. However, classic cars require a certain level of care and maintenance to keep them running smoothly. So let's discuss how Apex Customs can help keep your classic car in top shape.

### Brake Jobs

Brakes are one of the essential components of a vehicle, and classic cars are no exception. Over time, the brake pads, rotors, and calipers can wear out and must be replaced. Classic car owners should have their brakes inspected regularly to ensure they are in good working condition. Signs that your brakes may need to be replaced include a soft or spongy brake pedal, grinding or squeaking noises, or the car pulling to one side when you apply the brakes. Many of the older vehicles may have been deemed safe when they were new but there are many brake upgrades available for classics that can keep you and your vehicle safe on the road.

### Oil Changes

Regular oil changes are important for any car but vital for classic cars. The oil in classic cars breaks down faster than in modern cars, so changing it more frequently is important. Classic car owners should change their oil every 3,000 to 5,000 miles, depending on the age and condition of the car. When choosing an oil for your classic car, it's important to choose one specifically designed for older engines. Modern oils contain detergents that can harm the seals and gaskets in older engines. At Apex Customs, we use oils labeled as "high-zinc" or "zinc-rich," as these oils contain the additives that older engines need.

### Tune-Ups

Regular tune-ups are also essential for classic cars. A tune-up involves inspecting and replacing the spark plugs, distributor cap, and rotor and adjusting the timing and idle speed. Tune-ups can improve the performance and fuel efficiency of your classic car. Classic car owners should have their vehicles tuned up every 10,000 to 12,000 miles, depending on the age and condition of the car. At Apex Customs, we have the equipment and knowledge to work on carbureted engines with older ignition systems.

### Transmission Service

The transmission is another central component of a classic car. Over time, the transmission fluid can become dirty or contaminated, which can cause the transmission to shift poorly or fail altogether. Classic car owners should have their transmissions serviced regularly to ensure they are in good working

condition.

### Cooling System Service

The cooling system is another critical classic car component... especially here in Arizona. Over time, the coolant can become contaminated or lose its effectiveness, which can cause the engine to overheat. Classic car owners should have their cooling systems regularly serviced to ensure they are in good working condition. Cooling system service typically involves flushing the old coolant and replacing it with new coolant. The frequency of the cooling system service will depend on the age and condition of the car.

### Electrical system

A classic car's electrical system is much simpler than a newer car. This should make it easier to keep in good working order, but the truth is that many modern mechanics just don't have our experience in dealing with analog wiring and electronics. Here are some common services to consider:

**Battery replacement:** Batteries can wear out over time and may need to be replaced periodically. Make sure to choose the right battery for your car's specific needs.

**Alternator replacement:** The alternator charges the battery and powers the car's electrical system. If it fails, the car will not have sufficient electrical power. In addition, many classic cars have upgraded stereo systems, air conditioners, digital dashes, etc. that require a more powerful alternator to keep your car reliable.

### Body and Paint Repairs

Maintaining the paint and body of your classic car is essential to keep it looking its best. Whether you have a show car or just want to keep your vehicle looking good, a high quality paint job and regular maintenance is critical. At Apex Customs, we have our own paint shop and can handle any amount of body work as well as custom paint matching. Here are some tips on paint and bodywork for classic cars:

**Regular washing and waxing:** Washing your car regularly helps to remove dirt and grime that can damage the paint over time. Use a high-quality car wash soap and a soft sponge or mitt to avoid scratching the paint. After washing, apply a good quality wax to protect the paint from the elements.

**Ceramic Coating:** If you want to keep your paint in pristine condition then ceramic coating is the way to go.

**Touch up small scratches and dents:** Over time, even the best-maintained cars can develop small scratches and dents. These can be easily fixed with touch-up paint or a small body filler. It is important to address these small issues early to prevent rust from forming and spreading.

**Address rust issues:** Rust is the enemy of classic cars. Once it starts, it can quickly spread and cause significant damage. If you notice any rust spots, address them immediately. Sand away the rust, apply a rust inhibitor and repaint the area to prevent the rust from coming back.

**Repaint the car when necessary:** If the paint on your classic car is faded or damaged, consider repainting it. A high-quality paint job can make a big

difference in the appearance and value of your vehicle.

Consider a full restoration: If your classic car has significant body damage or rust issues, a full restoration may be necessary. This involves completely disassembling the car, repairing or replacing all damaged or rusted parts, and repainting it. While expensive, a full restoration can make your classic car look and drive like new again.

#### Suspension and Steering

A classic car's suspension and steering components can wear out over time, leading to a rough ride and reduced handling. Here are some common services to consider:

**Shock and strut replacement:** These components help absorb bumps and keep the car's wheels in contact with the road. Worn-out shocks and struts can lead to a bumpy ride and reduced handling.

**Tie rod and ball joint replacement:** These components connect the car's steering linkage to the wheels and can wear out over time, leading to loose or unstable steering.

**Wheel alignment:** A car's wheels can become misaligned over time, leading to uneven tire wear and reduced handling. Getting the wheels aligned periodically can help prevent these problems.

**Steering upgrades:** There is a lot of aftermarket support for many of the classic cars that will vastly improve the steering and handling of your car. Upgrading the steering system in your classic will make your vehicle more responsive, safer, and more enjoyable to drive.

#### Exhaust

A car's exhaust system plays a crucial role in its overall performance. It not only helps to reduce noise levels, but it also regulates harmful emissions. For classic cars, exhaust repairs can be essential to maintaining their original performance levels. Here are some of the most common exhaust repairs that classic car owners may need to consider:

**Replacement of Exhaust Pipes:** Exhaust pipes can suffer from rust or corrosion, especially if the car has been in storage for an extended period. When the exhaust pipes become too damaged, they may need to be replaced. The replacement cost may vary depending on the type of pipes needed.

**Replacement of Mufflers:** Mufflers play an essential role in reducing the car's noise levels. Over time, mufflers may become clogged or damaged, causing an increase in noise levels. Classic car owners should have their mufflers checked and replaced if necessary.

**Exhaust Manifold Repairs:** The exhaust manifold collects gases from the engine and directs them to the exhaust pipes. Over time, the manifold can develop cracks or leaks that may cause engine performance issues. Repairs for an exhaust manifold may include patching up cracks or replacing the entire part.

**Custom Exhaust Systems:** Some classic car owners may want to upgrade their exhaust systems to improve their car's performance or achieve a particular sound. Apex Customs can help you select and install custom exhaust systems. These custom systems can range from simple muffler replacements to complete exhaust system upgrades.

**Written Estimates:** Upon request, Apex Customs will provide a written estimate that includes all of the services that we recommend and the cost of each service.

Owning a classic car can be a rewarding experience, but it also requires regular maintenance and care to keep it running smoothly. General automotive services



such as oil changes, tune-ups, cooling system maintenance, brake services, and suspension and steering services are essential for keeping your classic car in top condition.

By choosing Apex Customs, and staying on top of regular maintenance, you can enjoy your classic car for years. Whether you're a car enthusiast or just enjoy the classic car experience, taking care of your vehicle is an important part of owning a classic car.

## CLASSIC CAR RESTORATION

TEMPE, AZ | PHOENIX, AZ

Classic Car Restoration  
by Apex Customs

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Restoring a classic car can be a highly rewarding - yet challenging project. It takes patience, dedication, and hard work. Whether it's a vintage muscle car, a classic European sports car, or an antique truck, restoring an old vehicle to its former glory is a labor of love, and it's not for the faint of heart. At Apex Customs, we go "all-in" as your partner for your restoration project. Having a shop like Apex Customs involved in your project can be the difference between success and failure. We can take on the most difficult aspects of your project, or we can do all the heavy-lifting for you, and deliver a fully restored beauty, ready for your favorite car shows.

### Step by Step

There are many steps involved in choosing and restoring a classic car. It truly is a labor of love. Here are some of the important steps in the process:

**Finding the Perfect Candidate:** Finding the perfect candidate is the first step in restoring a classic car. This can involve scouring classified ads, online listings, and even junkyards searching for a vehicle with a solid frame, minimal rust, and all necessary parts. Finding the perfect candidate can take months or even years, but once you do, the real work begins.

**Stripping the Car Down:** Once you've found the perfect candidate, the next step is to strip the car down to its bare frame, removing all the interior, exterior, and mechanical components. This is a critical step in the restoration process, as it allows you to inspect every inch of the vehicle and assess the damage and wear and tear that needs to be addressed.

**Structural Damage Repair:** Addressing structural damage to the frame is another critical step in restoration. This can involve welding, sanding, and other metalworking techniques to repair and reinforce the frame. Structural damage can be caused by rust, bent metal, or other factors, and it's essential to address these issues before moving on to other aspects of the restoration.

**Bodywork:** Repairing or replacing any damaged or missing body panels, bumpers, and trim pieces is another critical step in restoration. This can involve sourcing new parts, repairing damaged parts, and ensuring everything fits together seamlessly.

**Mechanical Overhaul:** Overhauling the engine, transmission, and other mechanical components is one of the most complex and time-consuming aspects of restoring a classic car. This can involve rebuilding the engine, replacing worn bearings, gaskets, and seals, tuning the carburetor, distributor, and other components, and overhauling or replacing suspension and brake systems, electrical systems, and other mechanical parts.

**Interior Restoration:** Restoring the interior of a classic car can be a laborious and time-consuming process that involves replacing or repairing the seats, headliner, carpet, door panels, and other components. Upholstery work is often done by hand, using traditional techniques and materials, including horsehair padding, leather or vinyl upholstery, and hand-stitching techniques.

**Painting the Car:** Painting the vehicle is one of the final steps in the restoration process, but it's also one of the most important. Priming, sanding, and painting the car to create a smooth, glossy finish is critical to the entire restoration process, as it gives the vehicle its polished look.

## Preserving Automotive History

Classic car restoration is not just about fixing up an old car but about preserving a piece of cultural heritage. Restoring a classic car ensures that these vehicles will continue to be enjoyed for generations to come and that you are preserving the rich history of the automotive industry for future generations.

## Challenges of Classic Car Restoration

Restoring a classic car is not without its challenges. Parts can be difficult to find, expensive, or obsolete, requiring us to fabricate custom parts from scratch. Rust and corrosion can also be major challenges, requiring specialized equipment and techniques to remove and repair. Additionally, some classic cars may have been manufactured in limited quantities, making it difficult to find replacement parts or accurate information about the vehicle's original specifications and design.

## Costs of Classic Car Restoration

Restoring a classic car can be costly when considering the vehicle's initial purchase and the restoration costs. However, vintage vehicles that have been fully restored can command high prices at auctions and collector car shows, with some cars selling for millions of dollars. As a result, classic car restoration can also be a lucrative venture for those who can restore cars to high quality and accuracy. And that's why it is so important to have a shop like Apex Customers there to help you with a plan, a budget, and the skills and capabilities needed for a successful restoration.

## CLASSIC CAR COLLISION REPAIR

TEMPE, AZ | PHOENIX, AZ

Classic Car Collision Repair  
by Apex Customs

Classic cars are more than just vehicles; they are a symbol of timeless beauty and history. However, accidents happen, and collisions can cause significant damage to your classic car. At Apex Customs, we share your love for classic cars, and we are your partner in repairing your vehicle and restoring its timeless beauty.

### Understanding Classic Car Collision Repair

Classic car collision repair combines traditional and modern repair techniques to restore the vehicle to its original condition. Our classic car collision repair specialists are highly trained and experienced in working with classic cars. The Apex Customs team consists of talented individuals who have the unique skills and techniques to repair and restore vehicles that many consider works of art.

### Common Types of Classic Car Collision Damage

Classic cars are often made with different materials and construction methods than modern cars. As a result, they can be more prone to damage in certain areas. Some of the most common types of classic car collision damage include:

**Frame and structural damage:** Classic cars often have unibody construction, which means that the body and frame are combined into one structure. Damage to the frame or structural components can be challenging to repair and may require specialized equipment.

**Paint damage:** Classic cars often have unique paint finishes that can be difficult to match. Repainting a classic car requires careful color matching and blending to ensure a seamless finish.

**Body panel damage:** Classic car body panels can be difficult to replace, as they may not be readily available. The damaged panel will often need to be repaired rather than replaced.

**Interior damage:** Classic car interiors can be just as important as the exterior. Damage to the upholstery, dashboard or other interior components requires

specialized repair techniques to restore.  
Screenshot 2023-01-16 125511 feature  
The Benefits of Classic Car Collision Repair

There are many benefits to choosing classic car collision repair over replacing your classic car after a collision. Here are just a few:

**Preservation of Value:** Classic cars are often valuable investments. Repairing rather than replacing a classic car can help preserve its value.

**Preservation of History:** Classic cars are not just vehicles; they are pieces of history. Repairing a classic car helps preserve its unique history and character.

**Customization:** When you repair a classic car, you can customize it to your specifications. This can include custom paint finishes, interior upgrades, and mechanical modifications.

**Personal Satisfaction:** A sense of personal satisfaction comes with restoring a damaged classic car to its original condition. This is especially true for owners with strong emotional attachments to their vehicles.

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Selecting the right classic car collision repair specialist is critical to restoring your vehicle to its original condition. Here are some key reasons Apex Customs should be your preferred shop for this type of project.

**Experience:** Classic car collision repair requires specialized skills and techniques. The Apex Customs team has extensive experience working with classic cars.

**Reputation:** Check our online reviews and you will see countless numbers of satisfied customers.

**Facility:** Our shop at Apex Customs includes over a dozen repair bays, vehicle lifts, a frame straightener, and a paint booth. We are fully equipped to handle complex repairs.

**Certifications:** Our team has certifications from ASE & I-CAR. These certifications indicate that the technician has received specialized training in collision repair.

**Warranty:** We offer a two-year warranty on all collision repairs

By choosing Apex Customs for classic car collision repair, you can preserve your classic vehicle's value, history, and character while also customizing it to your exact specifications. Together, we can help you preserve your vehicle's timeless beauty for years to come.

COLLISION REPAIR

PHOENIX, AZ

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Apex Accepts All Major Insurance for Collision Repairs

The Benefits to Using Apex Instead of a DRP Shop

After an accident, drivers can be understandably confused trying to navigate the steps to getting their vehicle repaired. The insurance companies will always try to guide drivers to their preferred shop. Typically, this is a shop that has signed an agreement with the insurance company called a Direct Repair Program or

DRP. DRPs allow the insurance company to minimize their expense by incentivizing a repair facility to complete the repairs quickly and for the least amount possible.

Insurance companies steer drivers towards DRP shops by referring to them as selective, network, preferred or recommend. They may also say that they will not warranty work done at any other shops, but it is not the insurance company that offers a warranty, it is the repair facility.

In Arizona, insurance companies cannot require you to provide multiple estimates or tell you where to get your repairs completed... it is entirely up to you.

So why pick Apex Customs to repair your vehicle after an accident? Apex Customs is not a high-volume repair shop and does not have a DRP agreement with any insurance companies. We take pride in every aspect of our work knowing that the vehicles that we restore or customize will be scrutinized by car enthusiasts. You can take comfort in knowing that your vehicle is being repaired by the same technicians that work on exotic cars and priceless classics.

MISCONCEPTION #1 You should use the repair shop your insurance company recommends.

REALITY

You can take your car to any shop you want, so why not take your car to an auto body that's proven to deliver High-Quality work? For years, Apex Customs has focused on top-of-the-line car customization and restoration. As a result, we have a highly skilled teams and the right tools to provide truly expert-level service for any car.

MISCONCEPTION #2 Insurance companies want to make sure every part is repaired properly.

REALITY

Most insurance companies will try to get by with repairing as little as possible. A good auto body repair shop is an advocate for their customers, making sure that every part that was broken is repaired back to new. Our commitment to quality and honesty means we're going to go above and beyond for you to make sure your car repairs are done right.

MISCONCEPTION #3 It will cost you more to get your collision work done at a high-end custom shop.

REALITY

All shops get paid the same for the work, and it costs you the same as well. At apex, we pay the same painters the same rate on a custom paint job as we do on a rear bumper replacement. We know our work is done right and will last.

MISCONCEPTION #4 You can't use custom parts in your repair.

REALITY

There are times when we can pick and choose various parts to install at the same pricing as what it would take to install the original equipment manufacturer (OEM) part, so we have the chance to explore alternatives to not only bring your car back from an accident, but to give it a new custom look. We are not only

trained on how to put together the vehicle the way it was from the factory, but we also have the skills to install custom parts along the way, if you choose, to make the repair process a little more fun!

MISCONCEPTION #5 Custom shops like Apex Customs would rather not work on "normal" cars.

REALITY

Most people see a custom shop and assume that they only work on classics, exotics, or high-end cars. At apex, we proudly work on all cars and treat everyone, from beginners to experts, with respect. Before getting collision repair work done at a high-end custom shop is a wise decision. Let us be your first choice for automotive collision repair services in the phoenix area so we can show you what we can do!

BODY KITS & CARBON FIBER

TEMPE, AZ | PHOENIX, AZ

Auto Body & Trim

Carbon Fiber Parts Installation

At Apex Customs, we offer a wide range auto body, trim, and Carbon Fiber installation services. From hoods and lids to spoilers, aftermarket seats, and body kits, our custom automotive team will help you transform your stock car, truck, or SUV to the ride of your dreams. The emphasis for every project we undertake is to provide you with the unique custom automotive look you've been dreaming of. We are automotive enthusiasts who understand how important your car, truck, SUV, or motorcycle is to you. Our goal is to help you create a ride that will be the envy of the automotive clubs and make you proud every time you hit the streets.

Unlike the competition, we're not just another body shop. We are a custom automotive shop that works exclusively to customize your car, truck, or SUV. Traditional paint and body shops make their money by doing insurance work to restore damaged cars to their factory specifications. They are assembly line workers who focus on pushing cars and trucks in and out of their shop to make a buck. Apex Customs is different, our exclusive focus is aftermarket parts installation and customization. We don't repair dents and dings with bondo and spray, we install carbon fiber hoods and doors and wrap them in industry leading vinyl wrap products to give your ride the custom look that will set you apart from the crowd.

Body & Parts Services

Body Kit Installation

Interior Parts Installation

Hoods, Trunks, & Lids

Spoilers & Diffusers

Carbon Fiber Parts

Trim & Panels

Apex Customs, offering full-service automotive body installation services for Phoenix, Tempe, Scottsdale, Mesa, Glendale and surrounding areas. Contact us today and tell us about your body kit, carbon fiber, or parts installation project and we'll provide you a customized quote backed by the best customer service, quality of workmanship, and pricing in the auto body industry. To learn more about our approach to automotive customization, check out our about us page.

Request Quote  
#autobody

## Auto Body Services

No custom automotive project is complete without an aftermarket auto body enhancement. Whether you're looking for some additional downforce from a trunk or chin spoiler or prefer a complete transformation with a full body kit, Apex Customs has the skills, tools, and expertise to professionally install and customize your ride. Here is a list of our most common auto body services:

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### Body Kits

Have you been eyeing a body kit for your car online for a while but just not sure how you're going to get it installed? You've come to the right place! At our Phoenix body kit installation shop we will help you choose, source, and install the body kit of your dreams.

Adding a body kit to your car, truck, or SUV is one of the best ways to add an unmatched unique look to your ride. Body kits also referred to as ground effects, not only look cool, most kits are specially engineered to improve the aerodynamics of your vehicle. They employ careful sculpting of your car's body panels while adding skirts, air dams, ridges, diffusers, and spoilers to control the airflow around your car, reduce the coefficient drag, and improve downforce.

At Apex Customs Phoenix, our expert sales team will help you select and source a body kit and supporting parts that will fit your vehicle and budget. Our trained and experienced installers will ensure your body kit is installed securely while matching the contours of your vehicle's body and minimizing gaps between body panels.

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### Hoods, Trunks, Spoilers, Diffusers, Trim & Lids

Have an aftermarket body part you need installed on your car, truck, or SUV? At our Phoenix auto parts installation shop, we can install any aftermarket body component you're looking for. From hoods with scoops to spoilers and diffusers, we have you covered. Aftermarket body kits and parts are a great way to improve the look of your ride and many components even add performance enhancements such as downforce, aerodynamics, and weight reduction.

Apex Customs Phoenix has the skills, experience, and expertise to ensure your aftermarket automotive parts are installed professionally so your warranties are enforced and your investment will last. Whether you have a part you bought off a car forum or need us to help you source the best part for your application, our sales staff and technicians will help you from A-Z

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## Carbon Fiber Parts

Looking to add some carbon fiber to your ride? At our Phoenix Carbon Fiber installation shop, we can install anything from a Carbon Fiber hood or trunk lid to an interior center console. Carbon Fiber is one of the hottest products in the custom automotive scene. Carbon Fiber is not only durable, it adds an unmatched premium car sport-look and best of all it reduces the curb weight of your vehicle.

Apex Customs Phoenix has partnered with SEIBON Carbon to provide you with a wide selection of Carbon Fiber products for your car, truck, SUV or motorcycle. SEIBON offers a Carbon Fiber solution for just about every part on your car to help you reduce weight and give your ride an edge at the track.

At our Phoenix automotive Carbon Fiber shop, our expert sales staff will help you source the Carbon Fiber part that will fit your vehicle and budget. Our experienced Carbon Fiber installers will install your parts with precision ensuring everything is tightened to factory spec and gaps are perfectly matched.

## Common Carbon Fiber Parts

- Air Ducts
- Body Kits
- Center Consoles
- Chin Spoilers
- Diffusers
- Doors
- Engine Covers
- Fenders

- Grilles
- Hoods
- Light Assemblies
- Mirrors
- Pillars
- Seats
- Sills
- Spoilers
- Trunks

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## Interior Parts

Looking to swap in some Recaro seats or add an aftermarket center console? At our Phoenix interior parts installation shop we can source and install any aftermarket part you're looking to add to your ride. Swapping in a set of racing seats is a great way to reduce weight while improving the comfort of your ride around the track. Maybe you're in the market for an aftermarket trim kit, racing



steering wheel, or suede door panel. Whatever the project is that you're looking to accomplish, chances are our expert automotive parts sales staff can source it and our trained installers can install it.

Request Quote  
#carbonfiber

What is Carbon Fiber?

Benefits of Carbon Fiber

Carbon Fiber is used in everything from 777 jumbo jets to backpacks these days thanks to its strength and weight saving properties.

Carbon fiber is a material made from carbon atoms which are bonded together to form a long chain. The fibers in carbon fiber are engineered to be light as well as extremely strong and stiff making them an excellent building material. There are a variety of materials used as building-blocks for carbon fiber including braids, yams, and weaves. These building blocks are used to create carbon fiber composite parts.

Carbon fiber is available in a variety of weaves which result in different properties for the final product. The weaves of carbon fibers provide the structure to the component like the steel frame in a commercial building. The carbon fibers are then suspended in a matrix to maintain their shape. The most common matrix used in carbon fiber is epoxy resin which is a plastic that has excellent compressive and sheer properties. The epoxy is low density making the material light, the fibers provide the reinforcement creating the perfect combination of strength and lightness.

Carbon fiber can be manufactured in a wide range of fabrication processes including resin transfer, wet-layup, insert molding, vacuum bagging, matched tooling, pultrusion and many other methods. Additionally, the type of fibers used and the pattern they are weaved in, can be tailored for specific properties.

Carbon Fiber Manufacturing Process

The process used in making carbon fibers is a combination of mechanical and chemical. The precursor epoxy resin is drawn into the carbon fibers and then heated to a very high temperature while preventing the materials from exposure to oxygen. Keeping oxygen out of the process prevents the fiber from getting burned while allowing the high temperature to accelerate the atoms in the fiber which vibrate violently while the non-carbon atoms are expelled. This process is referred to as carbonization, it creates a fiber which is composed of long, tightly-locked chains of atoms with only a few non-carbon atoms remaining.

Carbon fiber is the perfect material for automotive parts. It provides superior strength and low weight which is critical for automotive performance. Additionally, carbon fiber can be shaped to match any contour or shape which makes it an extremely flexible product for any automotive application. High-end race cars and supercars use carbon fiber in everything from car bodies to interior parts like seats and dashboards. The one downside of carbon fiber is the cost associated with the material and manufacturing process.

Common Carbon Fiber Upgrades

Hoods  
Truck Lids  
Door Panels  
Spoilers & Splitters  
Bumpers  
Center Consoles  
Seats  
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Benefits of Carbon Fiber

Superior Stiffness and Strength  
Lightweight  
Corrosion Resistant  
Chemical Resistant  
Unique Appearance  
Superior Fatigue Properties  
Request Quote  
#groundeffects

What is a Body Kit?

Body kits, also referred to as ground effects, are a popular automotive upgrade that not only enhance the style of your ride, they also provide some performance enhancements at the track. A body kit is essentially a set of modified parts which can be installed on a stock car, truck, or SUV. There is a wide selection of body kits that range from a few components to a complete vehicle lower body replacement. Most body kits are composed of front and rear bumpers, spoilers, and side skirts. Occasionally a body kit will also include roof scoops and rear side guards.

Body kit components are designed and manufactured so they complement each other to create a complete kit design which is where the word kit originates from. Many people choose to incorporate a mix and match approach for their upgrade where they choose different components they like best rather than purchasing a single kit from a manufacturer. At Apex Customs Phoenix, we can accommodate either approach by helping you source the best kit options for your vehicle so you can choose from a range of options.

Body Kit Design and Material

Body kit design is inspired by the look and functionality of the body panel refinements that are typically seen on race cars. The kits are generally manufactured from either polyurethane or fiberglass and in some cases carbon fiber. Fiberglass is the most common material due to its affordability and market availability. However, fiberglass is prone to cracking and damage upon impact so keep that in mind when comparing your ground effects options. Polyurethane is a good material for body kits due to its flexibility and higher resistance to damage. Carbon fiber is the superior material for body kit manufacturing however, it's rare due to its cost.

Body Kits and Automotive Performance

Automotive enthusiasts are always looking for ways to boost performance and gain

the edge at the track. Beyond the appearance improvements a body kit provides your ride, there are a few performance benefits to consider as well. Here are just a few of the performance gains a body kit will provide.

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Improved Aerodynamics

Aerodynamics are a key consideration when you're looking to boost the performance of your vehicle. A body kit will help to decrease wind resistance while simultaneously increasing downforce so your car can hug the road while cutting through the air. Drag is the enemy of speed. When your vehicle has high wind resistance, your engine is forced to work harder and burn more fuel. The shape and dynamics of your vehicle's body will impact the performance of a car. A simple lip kit or air duct will improve your vehicle's wind resistance and improve the performance of your vehicle at the track without breaking the bank.

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Better Fuel Economy

While most people looking to boost the performance of their vehicle aren't too concerned with fuel mileage, a day at the track can get expensive without some consideration of your fuel consumption. Luckily the same aerodynamics benefits that will provide you with a boost in performance, will also help you in the fuel savings department. When your vehicle has reduced drag, your engine doesn't have to work as hard to cut through the air which results in improvements in the miles you can drive per gallon.

ddbd1b\_97ebc2ce66a348c3a24abc5d5d26871cmv2  
Improved Handling

Have you ever noticed your car, truck, or SUV will start to shake and become unstable at high speeds? This is a common issue that occurs when your vehicle is experiencing high wind resistance and drag. If you've ever driven a high-performance or race car, you'll experienced how it feels glued to the road. The reason for the difference in handling is due to better aerodynamics and downforce which allows your vehicle to cut through the walls of resistance. Body kits and ground effect will force the air to move around your vehicle rather than underneath. When high amounts of wind are drawn underneath your car, it has the effect of lifting your car off the road causing the instability. The increased downforce provided by a body kit will provide a stable, controlled ride, even around corners at high speeds.

Request Quote  
#liquidvinyl

Auto Body Q&A

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Why Carbon Fiber is Light & Strong

Carbon Fiber is comprised primarily of carbon atoms which is lighter than metal atoms making a carbon fiber part much lighter than a metal part. Carbon fiber is in the same material group with the same properties as diamonds. As you probably know, diamonds are the hardest and strongest material in the world. Carbon fibers

have a 2D mesh structure with entwined carbon fibers making it incredibly durable. While the carbon fiber mesh provides the strength, the remaining material in carbon fiber is a lightweight resin which is considerably lighter than metal.

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Why are Carbon Fiber Parts More Expensive?

Carbon fiber is more expensive for three primary reasons:

The primary raw materials used to manufacture carbon fiber are very expensive to procure.

The construction of carbon fiber is complex and require several materials to product the final product.

The manufacturing of carbon fiber is labor intensive and requires a skilled composite technician to create.

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What is a Spoiler?

A spoiler is an automotive aerodynamic part installed on a vehicle to reduce turbulence and drag. The word spoiler comes from the concept that the devices "spoils" the undesirable air movement across the body of the vehicle. Spoilers are often found on high-performance sports and race cars as they provide performance benefits to vehicles at high speeds. While high-performance cars are the primary vehicle a spoiler is used on, they have become a common feature on many passenger vehicles due to their styling benefits.

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Do body kits fit over the existing bumpers or do they replace them?

Most body kits require you remove and replace your factory bumper covers with the aftermarket body kit. Typically, you use the same factory hardware that was used to secure the factory bumper. If your new body kit includes front and/or rear fascia's or lips, those pieces will attach to your vehicle under your existing bumpers.

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Are ground effects the same thing as a body kit?/strong>

Yes. Ground effects are the same upgrade as a body kit. Body kits are also referred to as spoiler kits, aero kits, and bumper kits, they are all the exact same thing.

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What's the difference between poly-urethane body kits and fiberglass kits?

Poly-urethane body kits are made from a rubber material which is flexible and engineered to hold up during an impact. Fiberglass body kits are made from fiberglass as the name implies and are generally less flexible and durable in the case of an impact. Fiberglass kits are more resistant to extreme weather conditions and are generally easier to paint than poly-urethane and a relatively inexpensive. Both kits have positive qualities and are widely used through the automotive aftermarket.

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What's the difference between a wing and a spoiler?

Wings are generally found on race cars, particularly open-wheeled race cars, are used to produce down force for racing applications. Spoilers on the other hand, are generally much smaller and sleeker and are intended for more of an appearance modification than a performance application.

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What is "Grade A" carbon fiber?

"Grade A" is generally a marketing term used by manufacturers to stress the quality of their parts. There is no official standard upon which carbon fiber products are graded. There is a large quality difference between various manufacturers of carbon fiber so the Grade A term was created to try and differentiate premium brands from cheaper brands. Generally, the adage of you get what you pay for is a good guide for choosing quality carbon fiber parts. At Apex Customs Phoenix, we recommend purchasing your carbon fiber parts from SEIBON carbon rather than places like ebay to guarantee you're receiving a product that will stand up to the demands of an automotive application.

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How do I judge the quality of carbon fiber products?

There are three key questions to ask when you're evaluating carbon fiber products.

Is the product I'm purchase made from multiple sheets of carbon fiber or one continuous piece?

Is the finish on the product a clear coat or gel-coat?

Is the carbon fiber integrated into the mold when manufactured or is it wrapped around the skeleton?

The best carbon fiber products are made from single piece carbon fiber sheets, they use a clear coat finish which is shiny and durable, and they are built into the mold rather than wrapped around the skeleton. Clear coat carbon fiber generally guarantees a shiny, durable, and "wet" look to the part where the gel coats will be cloudy and look dull. Carbon fiber that is wrapped around a skeleton is prone to breakage and splits unlike carbon fiber that is integrated into the mold.

CAR AUDIO

TEMPE, AZ | PHOENIX, AZ

CAR AUDIO, VIDEO & STEREO

Modern Car Audio & Video Solutions For Your Ride

Tired of the low-quality sound coming out of those cheap factory speakers in your car, truck, or SUV? Apex Customs has you covered with our full-service car audio solutions. Whether you're looking for a quick speaker upgrade or a full car stereo overhaul, our expert MECPC certified technicians are here to design, build, and install any car audio project you have in mind.

At our custom car stereo installation shop, we can swap out your factory stereo, perform a factory MP3 or smartphone integration, install an amplifier to boost your volume, add some subwoofers for some killer bass, or do a full custom car audio build.

## Car Stereo Services

Factory Stereo Upgrades  
Headunit Installation  
MP3 and Smart Phone Integration  
Speaker Installation  
Subwoofer Installation  
Amplifier Installation  
Car Video and Entertainment Systems  
Car Navigation Systems  
Custom Car Audio Fabricati  
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The Apex Customs Difference

Unlike traditional car stereo shops, we specialize in building the system you want, not the system we want to sell you. At Apex Customs we are professional car customization experts and enthusiasts, not car stereo sales associates. Our aim is to build the system that fits your requirements and budget using the components you prefer.

We've all had the experience of dropping into the local big box electronics store or local car stereo corner store and been surrounded by sales reps who will say anything to make the sale despite their lack of understanding and knowledge about car stereo audio and video technology. While we do have relationships with car audio equipment suppliers, we will never push you to purchase components and features you don't need or brands we don't have 100% faith in. Our MECP certified staff understand the technology and will provide genuine information to your questions and concerns about your project.

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Offering car stereo and audio installation services for Phoenix, Scottsdale, Mesa, Tempe, Glendale, Gilbert, Chandler and surrounding areas in Arizona. To learn more about our approach to automotive customization, check out our about us page.

Request Quote  
#carstereo

## CAR STEREO, AUDIO & VIDEO SERVICES

Apex Customs Phoenix offers a wide variety of professional automotive car stereo and video customization services. From simple factory stereo smartphone integrations to complete custom subwoofer and amplifier builds, we've got you covered.

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Factory Stereo Upgrades / Headunit Swaps

Factory Stereo Upgrades / Headunit Swaps

Does your car stereo lack the features and performance you require? The head unit is the heart of any car audio system. A stereo head unit swap is the best way to enhance your vehicle's audio system. Today's aftermarket car stereos provide an endless selection of features such as enhanced navigation, internet and satellite radio streaming, Bluetooth, WIFI, engine performance monitoring, and smartphone integration to name a few.

Whether you are looking to completely replace your stock car stereo or just want to implement some additional features and capabilities into your factory car stereo, Apex Customs has you covered. The expert car audio installers at our Phoenix AZ location can accommodate any requirement you have to build your ideal car audio solutions. Let us know what features you need, what aftermarket car audio brands you prefer, and what your budget is, and we'll put together a package to fit your needs.

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MP3 and Smart Phone Integration

Does your factory or old aftermarket stereo only allow you to listen to the radio or the ancient compact disks of the past? Don't worry Apex Customs Phoenix has you covered. If you need to listen to your MP3 audio collection and stream music from your favorite music app, we can implement a solution that will fit your requirements and stay within your budget.

A few options to consider for your smartphone or MP3 integration are aux input cables, Bluetooth receivers, and USB integration cables. We have partnerships with a number of aftermarket suppliers that offer a wide range of factory and aftermarket stereo integration options. Give our Phoenix car audio experts a call and they will walk you through each of your options and provide a recommendation based on our years of car stereo experience.

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Car Stereo Speakers & Subwoofers

Do your speakers lack the performance you need to enjoy music at the sound level and audio quality you desire? Do your speakers rattle or crack when you crank your favorite tune? Then it's time to swap out those paper core OEM speakers for some performance drivers that will deliver the sound quality you expect while handling the volume you desire.

Speakers and subwoofers are available in a wide range of sizes, shapes, and features. If all you're looking for is a simple upgrade of your factory speakers to provide a little more performance and reliability in your sound quality, we can replace your OEM speakers with direct replacements multi-stage speaker at an affordable price. If you're looking for a premium system that incorporates multiple drivers to handle your high, mid, and low audio frequencies, we can build a system that will deliver.

From tweeters and mids to subwoofers and baffling, we can design a system for you at our Phoenix AZ car stereo shop that will deliver the best car audio sound the industry has to offer.

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Car Stereo Amplifiers

Does your vehicle's stereo system fall short in the volume department? Amplifiers are the juice for any car sound system that requires more power than the small circuits of a stereo head unit can provide. If you want to add a subwoofer to your car, upgrade your speakers to component drivers, or just provide more wattage to your existing speakers, adding a car audio amplifier to your build is a must.

At our Phoenix car audio shop, our technicians are specially trained and certified to install and configure any car amplifier system your project requires. Amplifiers require fused power cables be run to the car's battery in addition to pre-amp input or speaker cables be connected to the stereo head unit. If not installed properly, an amplifier installation could severely damage your vehicle's critical computer and electrical systems and potentially pose a fire hazard.

Our technicians specialize in these complex amplifier installations. They are experienced and trained to hide the power and signal cables in such a manner that retain a factory look and protect your vehicle from electrical shorts that could cause damage to your vehicle. Our car stereo sales staff will also help you to make the best decision when sizing your amplifier to ensure it's going to deliver the results you expect.

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Car Video and Entertainment

Adding video to your vehicles car stereo system is one of the coolest features in today's modern car entertainment systems. Whether you're looking to enhance your cars mobile entertainment system by adding additional video monitors, video sources, or want to add video functionality to your existing car stereo setup, Apex Customs can help you accomplish your goals. From headrest and overhead monitors to DVD players and mobile video integrations with your smartphone or mobile video device, there are a number of equipment options available on the market today to suit your needs.

Mobile video installations require audio, video, and power cables to be routed from the source head unit to the location of the video monitor. Headrest and overhead monitors require these cables be carefully routed behind OEM panels and trim pieces which require special tools and skills to do properly. The technicians at our Phoenix mobile video and entertainment shop have the experience, training, skills, and tools to install any vehicle entertainment component or system you're in the market for.

[ddbd1b\\_6279303ab3df4b208216f4881b8efee2mv2-300x182](#)  
Car Navigation Systems

Navigation systems have become an essential tool for our everyday lives. Unfortunately, factory navigation systems often leave a lot to be desired when it comes to ease of use, accuracy, and functionality. Luckily aftermarket car audio and video manufacturers have stepped up to provide a range of exceptional navigation solutions to get you where you need to go with little frustration.

Whether you're looking to upgrade your existing navigational system, replace your factory navigational system, or integrate your smartphones built in navigational



apps, Apex Customs can accommodate your requirements at our Phoenix AZ car stereo shop.

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Custom Car Audio Fabrication

Are you looking for more than a simple factory stereo swap or speaker upgrade? Do you want a custom car audio solution that will set your ride apart from the rest or even win a few car audio competitions? At Apex Customs we can design, build, install, and tweak a custom solution that is going to make your vehicle truly unique. A custom car audio build will give your car an edge that will make any audiophile or car enthusiast respect your ride.

From subwoofer box builds and amp racks to integrated lighting and custom panel fabrication, our car audio installation experts can accomplish your goals. When making a large investment in car audio and video gear, it's critical to ensure the installation is done right. You don't want to risk that expensive car stereo gear with a shotty installation. At Apex Customs, our technicians will take the time and use the proper tools and techniques to ensure your custom build is done right and your audio investment is protected

Request Quote  
#customstereo

The Apex Car Stereo Process

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Step 1: Establish Your Budget & Plan

The first step in upgrading your car stereo is to establish your budget and game plan for your car audio and video needs. At our Phoenix car audio shop, our team can work with any budget. There is a wide range of options for aftermarket car audio and video, just keep in mind that high quality, crisp audio comes with a premium price. Our MECP certified techs can help you decide exactly what will be required for the result you desire and recommend a variety of options based on your budget and expectations.

When considering an aftermarket car audio stereo project, make sure you understand all the components required to complete your ideal build.

Components to Consider:

Headunit  
Speakers/Tweeters  
Subwoofers  
Amplifiers  
Adapters/Harness/Wiring  
Converters  
Custom Boxes  
Remotes/Etc.

If you need some help figuring out speaker or amplifier wattage you need, check out our car audio calculators page.

Choose your ideal build and our car audio professionals will build your dream

stereo system!

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Step 2: Let Us Build!

Once you have finalized your project requirements, our team will order all of the required components from our supplier. As soon as the parts arrive, we will schedule the install and get to work!

A typical basic car stereo upgrade with a stereo head unit swap or speaker upgrade requires between 3-6 hours. A more complicated build and install requiring intricate integrations, amplifiers, and subwoofer builds could potentially take up to a week.

Project time relies on a number of factors. The car audio builds at our Phoenix AZ shop take time because we do things right. If a speaker does not fit into the stock housing, we will customize the housing to make it fit 100%. When running wires and modifying interior panels, we take our time to ensure it is done professionally and complies with industry and MECP standards. At Apex Customs, we go the extra mile to make sure wires are tucked, and the build looks as OEM as possible unless we're told otherwise by the customer. In most of our car audio stereo builds, we take the approach of integrating aftermarket parts that retain the stock OEM look. If however, you are looking for a fully customized or exotic build, our car audio staff will create the design you desire.

The entire staff and management team at Apex Customs takes considerable pride in every install they undertake. We work hard to ensure all components are tested and are working to their best potential before releasing the vehicle back to you. If we think a part is faulty or just is not the right component for your build, we will let you know and make adjustments. Our goal is 100% satisfaction with every car audio build.

Please keep in mind that we are only as good as the products we are adding to your vehicle, so let us make some recommendations to you so that you know your build will last!

Request Quote

#subwoofers

Aftermarket Car Stereo

The car stereo, or head unit as it's often referred to, is the central component of any car audio and video system. The head unit is the brains of the operation providing a wide range of complex functions and features to suit your audio and video requirements. The car stereo's of today are nothing like their predecessors. Packed with an endless array of features such as smartphone integration, Bluetooth, navigation, video, vehicle system monitoring and more, modern car stereo head units are more akin to a fully functional computer system than a simple radio.

The trend of auto manufacturers over the past several years has been to integrate critical vehicle monitoring and driver interaction features into the stock stereo head unit that comes with your vehicle. Features like tire pressure monitoring, engine monitoring, oil change reminders, lighting and alarm settings have

increasingly been built right into the stereo head unit of your car. As a result, the days of just swapping out your stock stereo with a new Pioneer or Alpine stereo have come to an end. In order to improve your car stereo's performance or add missing features like iPhone integration or improved navigation capabilities, today's modern cars require sophisticated integration systems installed and configured by highly trained professionals.

Thankfully the aftermarket stereo industry is still thriving. All of the traditional aftermarket stereo manufacturers and a host of new car audio tech companies have developed a wide range of stereo integration kits and computerized controllers to meet the demand of the stereo enthusiast. At Apex Customs, our Mobile Electronics Certified Professionals are the best in the business trained to design a system that will meet the needs of your car stereo project.

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Why should I invest in a new car stereo?

Today's sophisticated head units will provide you better sound with more playback options and advanced features than the stereo that came with your car from the manufacturer.

#### Enhanced Sound Quality

Car manufacturers design car stereos with budgets and commonality in mind. The car's they are designing are marketed to a wide range of consumers, most of whom are perfectly fine with paying less for an OK stereo system. Factory car stereos get designed and built with the bare minimum components which will provide their average consumer with a good enough sound and video experience.

Aftermarket stereos provide superior built-in power and enhanced circuit design. An aftermarket car stereo isn't just louder than the typical factory stereo; it also produces cleaner, richer, more detailed sound. For car audio enthusiast looking to spend a little more money on enhanced tone controls in the preamp section and more juice to power their speakers for that clean, crisp sound they're looking for, the aftermarket stereo head unit is just the ticket.

#### New Sources and Added Functions

One of most common reasons people look at replacing or upgrading their factory car stereo is to expand functionality. An aftermarket stereo system can provide additional advanced features that were included by the vehicle manufacturer. Some of these features include:

MP3/WMA/AAC playback

iPod® and iPhone® support

Mobile Internet

Support for Android™ phones

Satellite radio

DVD playback

Bluetooth® connectivity

GPS navigation

Support for Pandora® Internet radio and other app-related sources

Advanced car monitoring and OBD-II capabilities

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Beyond the basic features listed above, there is a huge selection of vehicle apps

available in the Apple and Android app marketplaces. In fact, there is a variety of aftermarket head units available today that run on the Android operating system allowing you to easily install and uninstall apps right on your car stereo.

Request Quote  
#mobilevideo

## Aftermarket Car Speakers

Replacing your car speakers is one of the quickest ways to improve the sound quality in your car. In an effort to keep vehicles affordable for consumers, auto manufacturers use single driver, paper cone speakers with small magnets that simply don't perform for even the most relaxed audiophile. Before you decide on your new speakers, there are a few things to consider when shopping for car speakers.

### Choose Speakers to Match Your System

The two most important specifications to understand when choosing your new car speakers are:

#### Sensitivity

Sensitivity is a measure of how much sound a speaker produces from the power that is applied to it. If you using a low-powered car stereo (15 watts RMS per channel or less), similar to most factory speakers installed by the car manufacturer, a speaker with high sensitivity (over 90dB) is the best match. However, if you have a high-powered stereo with 16 watts RMS or more, like most aftermarket car stereos or amplifiers, then a lower sensitivity rating is a better match for your setup. When properly powered, low sensitivity speakers will provide exceptional sound quality.

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Power-Handling

A power-handling rating indicates how much power (measured in watts) a car speaker is able to handle. With low-powered stereos, speakers don't need the ability to handle a lot of power. However, if you are adding after-market amplifiers or a higher powered aftermarket head unit, speaker power-handling will become an important consideration. When adding more power to your car audio system, you need to match your speakers with the output of your new amplifiers and head unit.

When evaluating power-handling, the key specification is maximum RMS power handling, not peak power handling. While peak power handling is a measure of what a speaker can handle for brief periods of time during high music notes, RMS power is a measure of how much power a speaker can handle on a continuous basis. If you need any help calculating the power handling you need, check out our car audio calculators page.

#### Speaker Types

Car speakers come in two main flavors: full-range speakers and component

speakers. Here is a brief explanation of the differences in these speaker types:

### Full-Range Speakers

A Full-range speaker combines different sizes of drivers into one speaker to cover a full range of sound. The full-range speaker contains a woofer to handle the low sounds and a tweeter mounted just above the woofer to produce the high sounds. Some full-range speakers will include midrange drivers and additional tweeters to provide a wide range of sounds delivered to the most capable driver. The audio signals in full-range speakers are controlled by various capacitors and resistors to send specific sound frequencies to properly sized drivers.

Full range speakers are a good choice when you are looking for the least hassle for replacing factory speakers. Full-range speakers come in a variety of sizes and specifications and are generally a direct replacement which reduces labor to install them. Generally, you can just swap the factory speaker out with the new speakers and call it a day. As with any audio gear, full-range speakers come in a variety of materials, build quality, and power handling ability.

### Component Speakers

Component speakers are the choice of true audiophiles. They provide superior speaker design and the best quality of sound. Typically component speakers separate the tweeters from the woofers and include an external circuit board crossover system to provide the best frequency filtering available. This provides superior sound quality by ensuring the best driver for the sound is utilized.

Another benefit of component speakers is they allow you to mount tweeters separately from the woofers so you can design a system that has ideal acoustical positioning and imaging. When you position speakers properly in your vehicle, your music will have a realistic sound that replicates music as the artist intended. The sound will have greater depth and will provide a "live" sound as if you were attending a live concert. Additionally, the component speakers are generally built from higher quality materials than their full-range counterparts allowing them to deliver exceptional dynamics and detailed sound.

### Speaker Materials

#### Woofer Materials

The best material for the woofer of a component speaker or full-range speaker should consist of material that is lightweight, yet stiff in order to produce the low notes of your music. Most car audio manufacturers build their woofer cones from synthetic fibers such as polypropylene which perform well across a range of frequencies. If a speaker is made out of polypropylene mixed in with additional materials like mica, the result is a stiffer woofer which produces a more accurate bass response. Woven fibers, or synthetic materials coated with metals such as titanium or aluminum, are lightweight, strong, and provide excellent response. All of the above materials stand up well to moisture, cold, and heat.

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#### Tweeter Materials

The materials used to manufacturer tweeters has a significant effect on the sound

they produce. Generally, when a tweeter is made of soft materials like silk, textile, or poly blends, it will produce a mellow, refined sound. If you prefer high frequencies that are snappy and crisp, then a better material for your tweeter are hard materials like metal, graphite, or ceramics.

### Surround Materials

The materials that surround the woofer of a car speaker perform a critical role. These materials allow the woofer of a speaker to emit bold bass and move freely. The material must be able to withstand extreme humidity and temperature. If the surround material is made of rubber, the speaker will perform at its peak potential and last the longest. If cloth or foam is used as a speakers surround, the speaker will still perform well but may not hold up very long.

### Additional Speaker Features

There are a few other features when it comes to car speakers that are important to consider.

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Swiveling and Pivoting Tweeters

If you are replacing factory speakers that are positioned low on your vehicle's door, pivoting tweeters or full-range speakers can make a big difference with your sound. By their nature, tweeters produce directional high-frequencies. This feature allows pivoting tweeters to be positioned to point toward directly at the listener for an improved soundstage.

### External Crossovers

Component speaker systems generally employ a passive external crossover system which will achieve a clean separation between the frequencies sent to the tweeter and woofer. By splitting the frequencies, the tweeters and woofers will not waste electrical energy attempting to reproduce frequencies they are not intended to reproduce. As a result, your car audio sound system will produce a more efficient, and cleaner sound reproduction.

### Detachable Tweeters

Some speakers feature detachable tweeters which allow the speaker to be used either as a component system or a full-range speaker. This is a helpful solution if you ever want to use the speakers for a different application or in a different car or truck.

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#caramplifiers

### Car Audio Q&A

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If I replace my car stereo, will I lose my steering wheel controls?

Aftermarket car stereo manufacturers often provide a special adapter for steering wheel control integration on most car models. Typically these special adapters

are an additional add-on to your stereo purchase so it's important to factor that into your budget.

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How do I connect my iPhone or MP3 player to my stereo and what's the difference between an aux cable vs a USB connector?

Just about every aftermarket car stereo available these days will include some form of smartphone or MP3 integration. The most common integrations are the auxiliary plugin, Bluetooth, or USB.

### AUX Cable

The auxiliary option is typically a standard 3.5 mm cable that you plug into the new car audio receiver and your devices headphone jack. This is a basic option that only provides a sound output through your car speakers without any additional integration features. The downsides of an aux plugin are they tend to transmit background and system noise. Additionally, you will have to control the music from the device itself which is a safety hazard.

### Bluetooth

Bluetooth has been growing in popularity as the desired smartphone integration solution and has almost become standard in almost all OEM and aftermarket stereo systems. There are several benefits to Bluetooth which include the wireless nature of the integration, telephone integration allowing you to make and place phone calls through your car stereo (provided your stereo incorporates this feature), autoplay features which allow your stereo to automatically start playing your music when you get in the car, and the elimination of line noise. The downsides of Bluetooth include lack of playback controls and a loss in audio quality.

### USB

Integrations through USB provide the most features and sound quality of all MP3 car stereo integrations. USB benefits include device charging, enhanced playback controls, smartphone app integration, and enhanced sound quality. A USB connection allows you to control the music on your device from your stereo interface including common music apps like Pandora. It also allows for digital sound to be transmitted from your device to your stereo rather than the analog signals provided by the AUX cable. The downside of a USB integration is it requires your phone to be physically connected to your stereo through a cable.

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How much power do factory car stereo systems have?

Factory stereo power ratings vary widely and depend on a range of factors. If your car comes with a premium car stereo package, you most likely have some form of external OEM amplifier in your vehicle. Aftermarket car stereos, without a doubt, provide more power than the majority of factory car audio systems.

One factor to keep in mind while comparing care stereo specifications is a typical 100-watt factory car stereo system described by your car dealer most likely consists of 4 channels of 25-watt peak power. This translates roughly to

10 watts RMS (continuous) power per speaker. While not bad for a factory system, this is a far cry from even the lowest budget aftermarket car stereo's on the market.

If you need help calculating the wattage for your stereo, check out our car audio calculator page.

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How much power should I be looking for in an aftermarket car stereo in order to get optimum sound and performance from my car audio system?

While there are no magic formulas for calculating your optimum stereo wattage, the general rule is to match your power output with your speakers recommended wattage. If you put too much wattage to your speakers, the speakers will distort. Additionally, pushing more power to your speakers than they can handle is the quickest way to ruin your speakers rendering your new investment worthless. On the flip side, if you underpower your speakers, you'll be leaving audio performance on the table and the speakers won't provide the richness and depth of sound you're looking for.

Before making a final decision on your car audio power needs, there are a few items to consider:

How efficient are your speakers? The speakers you choose have a direct influence on the overall power throughout your system. If your plan is to power your speakers only with your stereo head unit, power efficient speakers that have a sensitivity of 90 dB or high will provide you more performance for your money. If however, you plan to install high-performance component style speakers, your best option would be to invest in an external amplifier to power your speakers. Do you plan to add a subwoofer to your car stereo system? Subwoofers require a substantial amount of power in order to reproduce low tones at reasonable volumes. Therefore it is always best to include an external subwoofer amplifier to power your subwoofers. You can either power your subwoofer with a dedicated amp that incorporates high-frequency audio filtering designed specifically for subwoofers, or you can get a full range amplifier to power your entire system. Due to the fact that subwoofers require substantially more power to perform optimally, you should plan to provide the same amount of power to your subwoofer as your other speakers at a minimum. For example, if your car stereo provides 80 watts of power to your speakers (4 x 20watts), then plan on providing at least 80 watts of additional power to your subwoofer.

Another factor to consider is how good your stereo wiring is. Electrical connections are only as good as their weakest link. If you have old, spotty wiring, you run the risk of shorts, frequency and power loss, and high resistance to your power and speaker wiring that reduces the amount of power your speakers actually receive from the stereo head unit and amplifiers. If you have an older vehicle or plan to install a high capacity audio system, you should consider factoring in running new larger gauge wiring to your components into your budget. A final important consideration is your vehicle's environment and how you plan to use your car stereo system. If your vehicle is a lower model or sports car, car manufacturers often use little to no sound dampening materials which result in more road noise and potential sound loss. In this case, you'll want to provide a little more juice to your car stereo system to offset any sound loss and overcome road noise. If however, you drive a luxury vehicle that incorporates more sound dampening material, you won't need to provide as much power to get the same sound



volume and quality. Speaker location, road/car noise, dampening materials, and personal tastes are all factors to take into consideration when deciding the amount of power to incorporate into your car audio build. If you need help calculating the wattage for your stereo, check out our car audio calculator page.

My car has a large factory radio, why can't I replace it with an over sized aftermarket stereo?

Large car stereo head units come in two different sizes. One size is 3" tall (or DIN-and-a-half) which are commonly found in GM and Chrysler vehicles. The other is 4" tall (or double-DIN) which are found in most other cars and trucks.

If your vehicle's dash opening is different by even a slight fraction of an inch from standard oversize openings, you won't be able to install an oversized aftermarket stereo without modifying your dash. As an example, most Fords appear as if they can accept a double-DIN radio without issue, however, in reality, the dash opening is too small.

What are preamp or RCA outputs?

What are preamp or RCA outputs?

A preamp output often referred to the brand name RCA, is a preamplified audio signal output which allows you to connect one or more external car audio amplifiers. These cables provide low distortion audio signals for amplifiers and are commonly used to provide the audio signal for subwoofer amps. The subwoofer preamp output is important to your car stereo because it provides your system with cleaner low frequencies as opposed to standard line level stereo outputs.

What's the difference between RMS power and peak power?

What's the difference between RMS power and peak power?

When car audio manufacturers display peak power in their advertising they are referring to the amount of power that a car speaker can handle during a brief musical burst. RMS power handling, on the other hand, is a much more reliable rating to use when determining the speaker's power requirements and capacity. Power for speakers is measured in watts. A watt is a unit of electrical power that equals one-volt times one amp and signifies energy consumed by the device.

What does a car speakers sensitivity rating signify?

What does a car speakers sensitivity rating signify?

The sensitivity rating also referred to as an efficiency rating, is used to rate the effectiveness of a car speakers ability to convert power into audio sound. The higher the sensitivity rating, the more efficient a car or truck speaker is and converting energy into sound. As a result, a higher efficiency rating means a louder speaker at the same power input. The more efficient a speaker or subwoofer is, the more power you need from your amplifier.

Efficient speakers and subwoofers help you to maximize your power capacity. Most sensitivity ratings measure a speaker's output with one watt of input that is one meter from the driver. Some sensitivity ratings of a speaker are measures using 2.83 volts of input rather than one watt.

Efficiency is not an accurate indicator of a speaker or subwoofer's output

capability. Efficiency should not be used to compare other speakers and subwoofers to determine which is louder than the other.

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I installed an amplifier in my car, and now my lights dim when my subwoofer hit's low notes or I play my stereo loud. Why is that?

When vehicle lights dim after a subwoofer installation, it is an indication that your amplifier was not installed properly. Dimming lights mean the amplifier is not able to draw the power required from your car's electrical system to perform as intended. There are a few things to check if your vehicle is experiencing this behavior:

Make sure the power and ground wires that you used to connect your amplifier to the battery and ground are the proper gauge. The ground wire needs to be at least as large as the power cable if not larger.

Check your ground wire connection to the body of your car. Make sure the ground wire is firmly connected to the vehicle's body and all paint has been removed from the area where the cable is in contact with the car. You want a metal to metal contact for your ground wire to ensure the electrical return to the battery has the least resistance possible.

In addition to the power and ground cables to the amplifier, you may also need to upgrade the wire that connects your car or truck battery to the frame and the wire running from the alternator to the battery. This is often referred to as the BIG 3 upgrade in the car audio world.

If your lights still dim after checking all of the above connections and cables, then you most likely need to explore adding a capacitor between the battery and the amplifier to provide a reserve of stored energy for those serious bass notes. You should also consider looking into a larger or high output alternator to accommodate the increased electrical energy needed to run all of your electronics.

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What is car amplifier clipping?

Amplifier clipping is when the amplifier produces distortion in the sound it produces due to a lack of sufficient power. When a car amplifier is pushed beyond its max power handling capability, the amplifier will produce square sound waves which in turn produces in distortion. In some cases, prolonged car amp clipping can result in a fried amplifier.

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What is car audio sound dampening material?

Sound dampening material, commonly referred to by the brand name Dynamat, is a specially engineered material that can be placed on car panels, behind car speakers, in trunks, and car floors to help reduce road noise and panel vibrations. Auto manufacturers use sound dampening material to improve the ride quality of your vehicle and cut engine noise down in the cab. Luxury cars will often use thicker sound dampening in more places to provide a quiet, luxury ride.

We are strong advocates of sound dampening materials at Apex Customs Phoenix. When you're making an investment in quality audio gear, adding even a small amount of sound dampening material to your installation can result in a significant improvement in the sound quality produced by your new gear.

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Do I have to replace my factory radio to improve the sound quality of my car stereo?

The short answer is no. There are a wide variety of options to improve the quality of your car audio sound. You can swap out factory speakers, add external amplifiers or add sound dampening material to provide real improvements to the quality of your stereo. In some instances simply adding new sources like iPhone inputs or bluetooth can provide all the improvements you need.

When interfacing with a factory car stereo, it is critical that it is done properly. Today's modern stereo head units provide a significant amount of integrated features with your vehicle. If aftermarket stereo parts are not integrated properly, you can cause significant damage to your cars computer system.

CLEAR BRA

TEMPE, AZ | PHOENIX, AZ

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Paint Protection

## STEK Automotive Films

At Apex Customs we understand how important protecting the investment you've made into your car is. A vehicle is one of the most expensive purchases you will make, and we are here to help protect that investment!

As an authorized dealer of the best automotive vinyl products in the industry, we are proud to carry the STEK USA brand of paint protection clear bra films. These films are specially formulated to protect that expensive paint job on your vehicle from the rough elements that you will run into on the road. They have leveraged their technical capabilities and scientific knowledge to create a film that offers world class protection for your vehicle finish.

Our certified installation experts will install this cutting-edge paint protection clear bra film on your car, truck, van, or motorcycle. We will provide your vehicle the paint protection it needs for years to come. We are conveniently located near Phoenix, Scottsdale, Mesa, Tempe, Glendale, Gilbert, Chandler and surrounding areas in Arizona. To learn more about our approach to automotive customization, check out our about us page.

### INSTANT HEALING PAINT PROTECTION FILM

hydrophonic  
self-healing  
10-year-warranty

Asset 11@2x  
partial-front-pkg

Asset 12@2x  
full-front-pkg

Asset 13@2x  
entire-vehicle-pkg

Asset 14@2x

STEK USA films offer:

Unrivaled scratch and stain resistance

Exceptional clarity

Superior resistance to yellowing

Self-healing technology makes most scratches disappear

Tough, durable and maintenance free

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Request Quote

#paintprotection

What is Paint Protection Film?

Paint Protection Film (PPF), also commonly referred to under the brand name Clear Bra, is applied to the painted surfaces of a vehicle to protect the paint from minor abrasions, stone chips, and bug splatters. Manufactured out of a thermoplastic urethane film, paint protection film has a variety of additional applications beyond cars, trucks, and SUVs such as motorcycles, electronics, cell phones, RVs, and airplanes.

Clear Bra is OEM approved by virtually every car manufacturer. Installed on

different components of cars and trucks from the factory, paint protection film is typically installed by certified professionals due to the challenging nature of the installation. The primary function of Clear Bra is to protect a vehicle from the elements and potential damage from road debris such as rock chips, paint scuffs and scratches and even vandalism.

The most common installation of paint protection film is the front bumpers, hood, and side mirrors of cars, trucks, and SUV's. If you're looking for total paint protection, Clear Bra can be installed on the entire vehicle for maximum protection.

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#### Modern Automotive Paint Protection Film

Modern automotive paint protection film has been specially formulated to be perfectly clear and highly conformable to the surface of the vehicle. Available in a variety of colors and thicknesses (measured in mils), there are a number of manufacturers of paint protection film with varying levels of quality and protection capabilities. We only work with the best paint protection film on the market, STEK USA.

While there are no certification or training requirements to purchase paint protection film, the installation can be quite complex and requires a bit of a steep learning curve. It takes over three years and thousands of installations for an installer to be considered an expert. Because the installations require a high level of expertise, it is recommended that paint protection film be installed at a certified installation shop to avoid potential damage to your vehicle and wasted product.

#### Installation Methods

The preferred method of professional paint protection film installation is through the use of commercial plotting equipment which precisely plots film for installation on the vehicle's body. A plotter relies on specially developed software to design and cut bulk rolls of film to exact specifications of the car, truck, or SUV which allows for accurate installation that results in a factory appearance, so people are unable to tell that film has been applied to the vehicle.

A secondary installation method for paint protection film is to use a pre-cut kit where the film comes pre-cut to your vehicle's specifications. One of the downsides of a pre-cut kit is any damage to the film during installation, or if the film comes improperly cut by the clear bra manufacturer, it requires that you order another entire kit. With plotting equipment, you can not only instantly cut out a new piece of film, but you can also customize the film patterns to account for any aftermarket modifications that were made to the vehicle.

Request Quote  
#clearbra

#### Why Use Paint Protection Film?

Paint protection film, or "clear bra" as it is sometimes known, is one of the best ways to preserve the showroom quality finish on your vehicle. This virtually

invisible film will keep your vehicle looking newer longer, without changing the design features or color. It will protect vulnerable areas such as front bumpers, hoods, side mirrors, door handle cavities, door edges, rocker panels, and rear fender panels. Preserving the finish of your vehicle with paint protection film (PPF) keeps your vehicle looking newer longer, and can enhance the resale value of your vehicle in the future.

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Where can I put Clear Bra Film on my vehicle?

Clear Bra film can be professionally installed anywhere you want to protect your vehicle finish from scratches, chips, stains and other damaging elements. More than just a “clear bra”, the virtually invisible film will not alter the color or design elements of your vehicle. You can protect:

Rocker Panels

Hoods, Bumpers & Mirror Backs

Door Edges & Handle Cavities

Full Hoods, Trunks and Roofs

Full Front-Ends

Full Vehicles

[ddbd1b\\_2779098a93f54e5e914b982e28516cc4mv2-300x209](#)

Request Quote

[stek-usa-simple-white-red](#)

Benefits of Clear Bra

Automotive Paint Protection

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Paint Protection

The most obvious benefit of clear bra is the shield it affords your car’s paint from roadside debris. The transparent film works without altering the appearance of the original paint job. Common everyday hazards that would normally damage any unprotected vehicle will only mark the clear bra, leaving the car untouched. So you can breathe a little easier when that shopping cart comes flying at your car, or a distracted driver accidentally bumps your fender trying to parallel park.

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Universally Applicable

Clear bra paint protection can be utilized on any car, truck or SUV and can be applied to the hood, bumper, fender, lights and mirrors, conforming to the shape of the area being covered. It can also be used effectively on boats, bicycles, motor homes and even outside furniture. In fact, paint protection film was first developed by the military to use on helicopters and armored vehicles to prevent damage from flying debris.

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Low Maintenance

Paint protection film is maintained without much effort. Its water resistance ensures that it does not have to be removed, as some other paint protectors may have to be, before a car wash or during stormy weather. If you’re noticing dirt or bug buildup, it can also be cleaned with mild detergent and water.

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Easily Removable

If your clear car bra sustains any damage, it can be removed without difficulty, leaving the paint underneath unscathed and saving your wallet from the high costs of paint touch-up or other body work. In the event you buy a new car, there's no need to worry about spending the money to get fresh protection film installed. Your clear bra will conveniently move along with you to whichever vehicle you choose. Automotive Paint Protection

Request Quote  
#Q&A

Clear Bra Q&A  
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Why do I need paint protection Film?

Paint protection film, or clear bra as it's commonly referred to, is the best way to protect and preserve the factory showroom quality paint job on your vehicle. It is virtually invisible and provides a durable layer of urethane film to maintain your car, truck, or SUV's paint job without changing the color or design of your OEM or aftermarket paint. The urethane film available in a variety of mil thicknesses will protect areas of your vehicle such as hoods, side mirrors, or front bumpers that are vulnerable to chips, dings, dents, and scratches from debris on the road. PPF is an investment that pays for itself by helping to maintain the residual value of our vehicle.

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Can I install Clear Bra myself?

3M, Suntek, and Xpel all highly recommend that paint protection film be installed by a certified, trained installer. Professional installers have the experience and training to ensure the paint protection film is installed properly and is fit perfectly to your vehicle. The warranties offered by the protection film manufacturers are only valid if a certified installer installs the Clear Bra material.

With that said, it is possible to install Clear Bra paint protection film yourself. If you have any experience with installed window tint film or vinyl wrap, then you may just have the skills and experience required to complete a Clear Bra installation. There are some video's available on youtube that will provide tips and walkthrough of protection film installation. We do highly recommend you pick up an installation tool kit to go along with your film purchase to reduce the potential for damage.

If you're looking just to purchase the film, we can plot out some material for your application for the cost of material and a plotting fee. Just contact our sales staff at Apex Customs, and they'll provide you a quote.

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Is Clear Bra film removable?

Yes. Paint protection film is specifically formulated to be removed easily

without damage to your car, truck, or SUV's OEM paint. Clear Bra is removed by utilizing a heat gun or steamer and peeling the film off the surface of the vehicle at a 180-degree angle. STEK USA recommends that paint protection film be removed by a certified installer to ensure there is no damage to the paint.

Apex Customs Phoenix certified installers can remove your paint protection film safely without risk of damage to your factory paint and body work.

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Should I apply a paint sealant such as Opticoat or cQuartz over my paint before applying paint protection film?

Paint sealants such as Opti-Coat or cQuartz should not be applied to the surface of the vehicle or any part that you will be applying paint protection film to. Paint sealants create a low surface energy on the paint surface which causes paint protection film adhesion issues both during installation and throughout the life of the protection film. There is no benefit to applying a paint sealant before the protection film is applied because the film will provide far superior protection benefits from road debris and environmental variables than a product like Opti-Coat or cQuartz ever could.

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How does paint protection film such as STEK USA heal itself?

STEK USA paint protection films use a special polymer in their clear coat which flows even after the product is cured. As a result, the clear coat will re-level the film covering dings, dents, and scratches in the film when the surface is disturbed. These products are a great investment because they will provide longer lasting protection keeping your car looking good as new for years after you've installed the Clear Bra film.

37174025 - new cg 3d render of generic luxury detail sports car illustration isolated on a white background. with stylized noise effects

For self-healing paint protection film, how deep of a scratch will heal itself?

Self-healing film is designed to heal common swirl marks and surface scratches that occur during routine car washes and minor damage caused by road debris. If the dent, ding, or scratch penetrates through the film's clear coat, it will not self-heal.

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How long does it take for self-healing paint protection film to heal itself?

The time required to heal a scratch or ding requires on the severity of the damage as well as the ambient temperature of the environment the vehicle is in. Most minor scratches will heal in approx. one hour at room temperature. Healing time is typically quicker in warmer climates like we have here in Phoenix. You can also accelerate the healing process by pouring hot water over the damaged areas to heat the clear coat of the film so it will re-level itself.

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How many times will the self-healing Clear Bra heal itself?

There is no limit to the number of times self-healing paint protection film can



heal itself. Provided the clear coat is not penetrated all the way through, it will continue to heal itself for many years. At Apex Customs Phoenix, we highly recommend the self-healing professional clear bra films because the investment will last longer and keep your vehicle looking better for longer than any other paint protection technology on the market.

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How does Clear Bra resist staining and yellowing?

Paint protection film clear coat offers a low surface energy making it difficult for any organic compound to stick to the film and cause staining. Environment contaminants such as exhaust smoke, pollution, and road oils which typically cause yellowing, can be removed by regular washing thanks to the low surface area and resistant technologies in the film.

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How do I address stains that don't come off my paint protection film during normal washing?

There are a variety of cleaning products available to remove stains on Clear Bra that do not come off with regular soap and water from a car wash. Before investing in a special cleaning product, Apex Customs recommends trying a little isopropyl rubbing alcohol on a microfiber rag. Typically rubbing alcohol will remove the stains but if there is a stain or debris that has been on the surface of the film for a long period, you can also try a tiny amount of lacquer thinner. Another effective product for cleaning paint protection film is Bug and Tar Remover which can typically be found at a local auto parts store.

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Does paint protection film make the factory paint underneath the film fade differently?

Clear Bra film allows all UV to pass through the film which fades your paint underneath at the same rate as it would without the film. While paint protection film does protect your vehicle from chips, scratches, and dings, it does not protect the paint from the sun in the same ways Vinyl Wrap does.

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Can I use a pressure washer on paint protection film? If so, how long should I wait after the installation before using a pressure washer?

Yes, you can use a pressure washer on Clear Bra film. It's best to wait at least 48 hours after installation before using a pressure washer on paint protection film. If you do decide to use a pressure washer, you should avoid the edges of the protection film as the water pressure could cause the edges to lift and ruin the adhesive. We do not recommend using automatic car washes, especially the ones that utilize brushes to clean the car.

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Can I use quick detailer products or detail sprays on paint protection film?

Most car wash, wax, and detail sprays are safe to use on Clear Bra film. We do recommend that you avoid any products that contain high amounts of petroleum distillates such as kerosene or naphtha. A high-quality detail spray is a great

option for cleaning paint protection films.

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What is the expected lifespan of paint protection films?

The premium versions of paint protection films offered by 3M, Suntek, and Xpel can last up to 10 years. They are warrantied against yellowing, delaminating, staining, cracking, bubbling, and peeling for this time period. Typically we advise that an average paint protection film will last between 4 to 7 years in the Phoenix Arizona climate.

CERAMIC PRO

TEMPE, AZ | PHOENIX, AZ

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Paint Protection/ Paint Coating

CERAMIC PRO

At Apex Customs we appreciate the investment that you have made in your vehicle, and we are here to help protect that investment!

As an authorized dealer of the best automotive coating products in the industry, we are proud to carry CERAMIC PRO hydrophobic nano-ceramic paint coating. This product is specifically designed to lock in your paint's perfect shine and promote an easily cleanable surface. The hydrophobic nature of the product allows water to bead right off and carry dirt particulates with it.

Ceramic Pro offers:

Unrivalled scratch and stain resistance

Exceptional clarity

Superior resistance dirt and grime

durable glass shield technology

Tough, durable and maintenance free

Corrosion resistance

Oxidation resistance

UV protection

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Our certified installation experts will install this cutting-edge paint protection on your car, truck, van, or motorcycle. We offer this product for complete exterior paint, plastic moldings, interior, wheels, calipers and even glass. This service will provide protection your vehicle needs for years to come.

We are conveniently located near Phoenix, Scottsdale, Mesa, Tempe, Glendale, Gilbert, Chandler and surrounding areas in Arizona. To learn more about our

approach to automotive customization, check out our about us page.

Request Quote  
#CERAMIC PRO

What is Ceramic PRO?

Called by many names with many products to choose from Apex Customs weeds through those options to offer only the best and newest technology on the market. We know how hard people work for their vehicle, with nano-ceramic coatings we offer a way to keep your paint and other vehicle components protected. This protection is evermore important in our harsh Arizona environment. Being one of the few shops in the area that also offers autobody and paint as well as coatings we are properly poised to know how to offer you the best quality install in the business.

Ceramic Pro offers the best possible product on the market consistently ahead of the technology curves and offering the best warranty's in the business. As a certified installer all Ceramic Pro products you are approved for the Ceramic Pro warranty's.

Our most common package is the silver package which includes paint correction, one layer of 9H complete exterior paint coating a layer of light top coat a treatment of all plastics and your rims and finally a window and windshield treatment.

Modern Automotive Sealants

In this the modern age chemical coating technology is advancing quickly. We understand the chemistry and we understand your vehicle our vow to you is only to offer the best technology in the market, we have done the footwork so you don't have to.

Installation Methods

Vehicles come from the factory in many cases needing some form of paint correction. Under close examination swirl marks and paint flaws can be found on almost any vehicle. Before we lock your paint into our hard glass shell we go through the extra effort to make sure your paint is in perfect condition. Our coatings are only then installed by our expert staff with hundreds of procedures in their history. Finally we are one of the few shops in the area to use a controlled paint booth environment with air movement systems to assure no contamination gets in your new coating before curing.

Request Quote  
#PAINTSEAL

Why Paint Seal?

Paint protection sealant, or nanocoating as it is sometimes known, is one of the best ways to preserve the showroom quality finish on your vehicle. This virtually invisible shell of protection will keep your vehicle looking newer longer, without changing the design features or color. It will protect vulnerable areas such as front bumpers, hoods, side mirrors, door handle cavities, door edges, rocker panels, and rear fender panels. Preserving the finish of your vehicle with Ceramic Pro keeps your vehicle looking newer longer, and can enhance the resale

value of your vehicle in the future.

ceramic\_pro\_automotive\_comparison

So what can I nanocoat?

Ceramic pro can be installed on virtually any area of your vehicle. Our most popular option is as an exterior paint sealant but we can also coat interiors, wheels, calipers, glass and plastics:

Protect paint from carwash brushes

make brake dust disappear from calipers and wheels with a quick water spray

keep your interior dash, leathers and plastics protected against drying and cracking

Full hoods, trunks and roofs from bird droppings and tree sap

CPlogo

Benefits of Nano Coating

Automotive Paint Protection

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Paint Protection

The most obvious benefit of Ceramic Pro is it offers a glass shield which affords your car's paint a first layer of protection. The transparent coating works without altering the appearance of the original paint job. No hardwater marks as any liquid will quickly shed away from the protected area.

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Universally Applicable

Coating products can be utilized on any car, truck or SUV and can be applied to the hood, bumper, fender, lights and mirrors, protecting anything it is applied to. It can also be used effectively on boats, bicycles, motor homes and even outside furniture.

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Low Maintenance

Protection coatings are zero maintenance. Simply wash your vehicle as you usually do, in fact you will find it even easier to maintain than before the product was applied.

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No matter the substrate we have a coating for you

With many products to offer Ceramic Pro can be used on plastic, wood, glass, stone, leather, paint protection film, vehicle wrap vinyl, textile and more.

Request Quote

#9H

## Ceramic PRO Hydrophobic Nanocoating Automotive Paint Protection

With the best warranty and protection on the market we are proud to offer our clients Ceramic pro products. We want your vehicle looking as awesome as you do. Arizona is an especially harsh environment on vehicles. Coating your vehicle will allow your plastics, paint and leather a fighting chance in the brutal desert. Ceramic Pro 9H offers...

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Scratch Resistance: Up to 3 times more durable than your OEM paint with just a couple layers of 9H protection

Super Hydrophobic Effect: Allows water to bead off from anything it is applied making your vehicle even easier to clean

Thermal Resistance: Up to 1200 degrees Celsius

Anti-Graffiti: Feel free to anger your girlfriend, the anti graffiti capabilities have got you covered

Oxidation and Corrosion Resistance: Weather you spend your time in Phoenix or in the mountains of Flagstaff these protections are vital in our brutal surroundings

High gloss finish: Does not dull your OEM high gloss paint

Ceramic PRO

ceramic\_pro\_product\_bottles\_image

Request Quote

#paintprotection

Nanocoating Q&A

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Is Ceramic Pro safe for my paint?

This product is specially formatted not to damage your paint or clearcoat and will void no manufacture warranty.

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Does Ceramic Pro fade, crack or yellow?

Having undergone real life and SGS testing Ceramic Pro has stood up to testing in even the harshest environments.

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Is Ceramic Pro an alternate to wax?

Yes. Once applied you will never need to wax again. Cleaning your vehicle will be

as easy as cleaning your windshield with no need for harsh wash products or waxing.

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Will Ceramic Pro protect my vehicle from scratching?

Yes! After the coating cures it will become 3 times harder than your paint. Ceramic pro is a glass coating and while we all know glass can still be scratched or chipped it is much more resistant than your stock clearcoat.

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Can Ceramic Pro coat other areas of my vehicle?

Yes. We can coat paint, wood, plastics, leather, glass, wheels, calipers, and much more.

37174025 - new cg 3d render of generic luxury detail sports car illustration isolated on a white background. with stylized noise effects

Does the product require annual servicing?

Yes. To maintain your warranty, you need to attend an annual service. This is to ensure the Ceramic Pro performs properly for the entire length of the warranty. If an annual inspection is missed, the warranty defaults to the lesser package at the time of the missed annual inspection. i.e. A Gold (Lifetime) warranty becomes a Silver (5 year) warranty when an annual service is missed.

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What is the application process and how long does it take?

The process of Ceramic Pro will take between 1-5 days depending on the condition of your paint, the size of the vehicle and the packages you select. The 1st step is to wash and prep the vehicle. The 2nd step is to correct all the imperfections in the paint such as swirls and scratches. Once the vehicle is properly prepped, a body shop safe prep solvent will be applied to the entire vehicle to get to bare paint. At this stage the coating process will begin, and each panel of the vehicle will have Ceramic Pro applied, leveled, and stacked to achieve the package you have selected.

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Can I apply Ceramic Pro to my own vehicle?

Ceramic Pro does not recommend this, as there will be no warranty and if done incorrectly you may permanently alter your vehicle.

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Can you coat vinyl wrap? Do you recommend coating my new vehicle wrap?

Yes we can. Using specially formulated PPF film and vinyl coating we can coat your new wrap. This will add an additional layer of coating and make the products even easier to clean. Vehicle wrap films can still scratch coating them will help keep them in perfect condition. As vehicle wrap and PPF installs we know the ins and outs on how to use these products in perfect harmony.

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You just powdercoated my wheels/calipers, can i coat them?

Yes we can, in fact we even discount the service in tandem since we want your vehicle looking as good as you do. Coating wheels and calipers will make cleaning them a breeze brake dust will simply spray away with a good hose.

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Why is Apex the best place to go for coatings?

Apex believes in only offering the best possible products in the market to its customers. We are in this for the long game, your vehicle is a billboard for us and we want it looking great always. We R&D every product ourselves before giving it the Apex seal of approval. Our on staff chemist studies these type of products down to a molecular level. Not only can you get your coating done here but also your clear bra, stereo, wheels or anything else auto related.

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Can I use a pressure washer?

Yes.

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Would you use this coating on your own vehicle?

If its a vehicle you want to own for years, want cleaning to be easy and care how your vehicle looks absolutely we would.

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What is the expected lifespan of paint protection films?

We offer Gold (lifetime warranty), silver (5 years) and bronze (2 years).

## ENGINE PERFORMANCE

PHOENIX, AZ

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Performance Automotive  
Unleash the True Power of Your Motor

At Apex Customs Phoenix, we are a full-service custom automotive shop offering a wide range of car, truck, and SUV services to create the custom ride you've always dreamed of. We understand that a truly custom ride requires a number of upgrades to build a complete package and one of the most important aftermarket upgrades to your vehicle is a performance upgrade. We offer a wide variety of engine performance upgrades that will take your ride to the next level. The skilled technicians at our Phoenix custom automotive shop can sup up your ride with a number of engine performance upgrades from Cold Air Intakes and Exhausts to engine performance tuning.

When it comes to engine performance upgrades, it's important to select a shop that understands the full scope of what's required to improve the horsepower,

torque, and responsiveness of your ride. Engine performance is about matching the right parts to the right application. Whether you're just looking for a little more responsiveness and aggressive sound or looking to add 200 horsepower, we have the expertise and experience to help you effectively plan, source, and install the components that will get you to your desired result.

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Performance Services

Engine Tuning  
Cold Air Intakes  
Performance Exhaust  
Intake Manifolds  
Superchargers

At Apex Customs Phoenix, our technicians will give you the full package. We will provide you recommendations for the best parts and services for your goals and install them with professional accuracy. We'll help you to choose the best overall set of upgrades that will work to complement each other for the performance you desire.

Engine performance services for Phoenix, Scottsdale, Mesa, Tempe, Glendale, Gilbert, Chandler and surrounding areas in Arizona.

Request Quote  
#horsepower

Engine Performance Services  
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Performance Exhaust

Looking for some better performance and great sound from an aftermarket exhaust? At our Phoenix performance exhaust shop, we have the tools, equipment, expertise, and knowledge to install any performance exhaust system you're looking to add to your vehicle. A performance exhaust upgrade is typically step two in most performance upgrade packages. An aftermarket performance exhaust will not only allow improved exhaust flow and less restriction in the combustion chamber leading to improved performance, the changes in the muffler design will give your ride that aggressive performance sound you want out of a performance car, truck, or SUV.

At Apex Customs Phoenix, we have partnerships with a number of aftermarket performance exhaust systems such as Magnaflow, Borla, Corsa, and Flowmaster. We can install any performance exhaust system you're looking for, headers, cat back, mufflers, you name it. Our sales staff can help you choose the best performance exhaust for your car, truck, or SUV, and our expert installers will remove your factory exhaust and install your new performance exhaust with precision and expertise.

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Superchargers

Looking for some real performance? Forced air is the king of performance upgrades and superchargers, also referred to as blowers, are the easiest way to a lot of horsepower and torque. At our Phoenix supercharger installation shop, we have the



skills, tools, and expertise to get your ride some serious ponies.

A supercharger \ blower will bolt on to the top of your motor and force cold air into your motor resulting in increased horsepower and torque. We work with a number of supercharger suppliers like Magnuson, Roush, Edelbrock, Whipple, Vortech, Paxton, and ProCharger. Our sales staff will help you choose the best supercharger for your vehicle so you'll get the most out of your investment. Our expert installers will professionally install your supercharger ensuring every bolt is tightened to factory spec. We'll then perform an ECU tune on your vehicle using the included supercharger manufacturing tune to recalibrate your motor to accommodate your new parts.

Request Quote

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Cold Air Intakes

Looking to improve the airflow into your motor for increased horsepower, torque, and responsiveness? A Cold Air Intake is one of the first steps many automotive enthusiasts take when they're looking for a performance boost for their ride. Cold Air Intakes help improve the air flow into your engine allowing it to breathe easier and get a better combustion out of your motor. Better combustion, cooler air, and more air flow are the perfect recipe for more horsepower and torque as well as improved gas mileage.

Cold Air Intakes come in a variety of size, shapes, and styles from a number of aftermarket parts manufacturers. At our Phoenix Cold Air Intake shop, we have the expertise, knowledge, and tools to help you select the perfect Cold Air Intake for your vehicle and install it with expert precision.

At Apex Customs Phoenix, we can install any Cold Air Intake system you are looking at for your vehicle. We have partnerships with K&N, Volant, AirRaid, AFE, and Spectre all of whom offer a number of options for your car, truck, or SUV. We can even build a completely custom intake system and cap it with one of the best air filters in the market from AMSOIL. If you're in the market for a Cold Air Intake system, contact us today and we'll get you taken care of.

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Intake Manifold

Looking for a performance intake manifold upgrade for your car, truck, or SUV? At our Phoenix performance automotive shop, we have the skills, tools, and expertise to install your aftermarket intake manifold with precision. Performance intake manifolds are another step in the engine performance upgrade package. Intake manifolds like the ones from FAST, are engineered to improve the flow and velocity of the air into your combustion chamber which results in improved horsepower, torque, and gas mileage out of your motor.

At Apex Customs Phoenix, we can install any performance intake you are looking to add to your car, truck, or SUV. Our sales staff will help you select the best performance intake manifold for your vehicle taking into consideration any other modifications you have on your vehicle. Our expert installers will then install your aftermarket intake manifold with precision taking care to ensure every bolt is tightened to factory spec.

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## Dyno Tuning

At Apex Customs we offer custom dyno tuning on our state of the art Mustang Dynamometer. Our MD-1750 Mustang Dyno is the largest Dynamometer available on the West Coast capable of up to 3,000 horsepower and 250 MPH. While a handheld tune can get you started, there is no substitute for a custom dyno tune. Every vehicle and driver is unique. Your engine's performance can be impacted by even the smallest environmental variables such as temperature and humidity, let alone any custom performance parts you add to your ride. Vehicle manufacturers and handheld tuning developers simply can't account for all of the potential variables your motor is faced with. As a result, OEM and handheld programming of your vehicle ECU will always be detuned leaving your vehicle far short of its true potential.

At Apex Customs we work with a variety of custom tuning software from HP Tuners to EFI Live. Our expert tuners will hone in your ECU programming, run several test runs on our Mustang Dyno to ensure everything is perfectly in sync, and unleash the true power of your motor! With every Dyno run we provide before and after Dyno graphs and results so you have the scientific evidence of your vehicles true performance.

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## Handheld Tuning

Are you looking to unleash the true power potential of your engine? An engine tune is one of the best ways to improve the performance of your motor, a necessity if you plan to upgrade any of your factory engine parts to aftermarket performance parts. Anytime you add new performance parts, it's critical that you adjust your engines tuning parameters to account for the changes to the air/fuel mixture. A handheld tuner is a perfect solution as it allows you to re-tune your ride to new parameters every time you swap in a new part.

At our Phoenix engine tuning shop, we have the tools and expertise to help you unleash the true power of your car, truck, or SUV. Our sales staff will help you select the best engine tuner for your application. We have partnerships with Superchips, DiabloSport, SCT, and Hypertech to provide you with a wide range of engine tuning options. Our expert installers will use the handheld tuner to help you dial your motor in and unleash the true performance potential of your car, truck, or SUV.

Request Quote

#enginetuning

## Engine Tuning Service

Engine tuning is one of the most important upgrades you can perform when you're looking to improve the performance of your vehicle. When car manufacturers develop the engine parameters used by the computer to control the fuel, air, and exhaust timing of your vehicle, they are limited by regulations that require them to stay within specific limits. Additionally, they program their engine control models with the understanding that the vehicle will be operating in a wide range of climates, driving habits, and driver preferences. As a result, there is often a significant amount of potential engine performance that is left on the table. An engine control module tune will help you unleash that additional horsepower

and torque.

Car mechanic working in auto repair service.

Another factor that makes an engine tune an important upgrade to include in your performance upgrade package is, engines are finely tuned by the manufacturer to exact specifications of the parts installed when the car is assembled. Any time you swap out or change factory parts to aftermarket performance parts, it's critical that you update the parameters the engine's computer uses to calculate air/fuel ratios and ignition timing. If you don't tune your vehicle after swapping out factory parts for performance parts, you not only leave potential power on the table and ruin your fuel mileage, you risk serious irreversible damage to your engine.

The engine control module also referred to as the ECM or ECU, is responsible for calculating the amount of fuel to squirt into the piston chamber to produce the ideal combustion required for a motor to produce power. In addition to fuel calculations, the ECU controls the timing of the ignition spark produced by the spark plugs to ignite the air/fuel mixture in the combustion chamber. In order to make these calculations, the ECM relies on a series of mathematical tables combined with data feedback it receives from the oxygen sensors which measure the motors exhaust from the combustion process and mass air flow sensors which measure the amount of air that comes into the motor through the intake system.

When you modify parts like the intake system with a cold air intake, the exhaust with a header system or performance exhaust, or add a forced air induction system like a supercharger, the data stored in the mathematical tables of the ECU are no longer accurate. This confuses the engine control module as it expects to read certain fuel richness from the oxygen sensors in the exhaust based on it's anticipated calculations. When the engine control module see's inaccurate reads, it will compensate by using more or less fuel than is necessary which results in rich and lean scenarios which will damage parts like your catalytic converter, pistons, and engine block and as results in an underperforming engine that wastes fuel and reduces power.

Request Quote  
#coldairintake

### Cold Air Intake Installation

A cold air intake is an aftermarket performance upgrade you can install on your car, truck, or SUV to increase the horsepower and torque of your motor. Short Ram Intake, Mega Ram Intake, Cool Air Intake, Cold Air Intake, Aftermarket Intake, CAI, and cone intake are some of the common terms used for this engine performance modification, but they all come down to the same basic idea: Remove your overly restrictive stock (factory) air box and filter and replace it with an aftermarket system.

A motor produces power by taking air (oxygen), mixing it with a combustible fuel, and introducing an ignition spark to produce power. By increasing the amount of air flow into your motor, you can correspondingly increase the power output by the combustion process. Adding additional fuel to the combustion process is easy, all you have to do is install larger injectors and/or change the programming of your vehicles ECU. Increasing air flow in your motor is more challenging which is where a cold air intake comes into play.

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A cold air intake system increases airflow into your motor by dropping the temperature of the air sucked into the motor. Colder air, is denser air which results in more oxygen within a smaller volume of air. More oxygen in the combustion process means more power. Another benefit of cold air intakes comes from the reduction in air flow resistance. Cold air intake manufacturers have gone to great lengths to remove any restrictions to airflow throughout the intake piping. The interior of the piping in a cold air system has been polished and every turn in the piping has been tuned to reduce air flow resistance. Cold air intakes also decrease air turbulence within the piping which also improves airflow and volume into the combustion chamber.

The most common strategies aftermarket cold air intake manufacturers utilize to improve air flow through a CAI are: increasing the diameter of the air intake filter and piping, smoothing the interior of the intake to reduce air resistance, providing a more direct route from the air source to the engines intake manifold, using a more efficient and less restrictive air filter, and tuning the length and curves in the intake piping to provide maximum airflow at certain engine speeds.

When it comes to increasing airflow into a motor to improve performance, there are many options. Superchargers, turbochargers, and cold air intakes all increase airflow resulting in increased horsepower and torque. Of these options, a cold air intake is an easy and affordable solution to implement without overly impacting your fuel consumption. CAI's are a cheap alternative for improved performance when you have the money or time to invest in a major engine modification like a turbo-charger. They are also a critical component to support other modifications such as a turbocharger, supercharger, and performance exhaust system. If you plan on doing a larger upgrade, a cold air intake is a great modification to start with now that will also support your larger engine performance modifications later.

### Benefits of Cold Air Intakes

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#### Enhanced Sound

A cold air intake offers an unmatched aggressive sound that true automotive enthusiasts crave. There is nothing better on a performance car, truck, or SUV than a roaring engine sound to show everyone how capable your vehicle is under the hood. Cold air intakes allow more air to course through the engine and typically remove restrictive sound dampening systems to produce an engine sound that most car lovers find thrilling. If you're not a fan of the increased noise, there are aftermarket intake systems which can muffle the noise while still providing the increased performance and engine efficiency.

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#### Improved Power and Acceleration

If you install a cold air intake from a reputable manufacturer such as K&N, Volant, or Airdaid, or Spectre, your car, truck, or SUV can experience increased horsepower. Reputable manufacturers invest in the research and development in the cold air intake systems they produce to ensure they have a measurable improvement over your stock air intake system. The level of increased horsepower you can

expect from a cold air intake installation varies from vehicle to vehicle due to the interplay of other engine components. Typically cold air intakes result in a 5 to 20 horsepower increasing depending on the vehicle and engine size. If you are planning additional modifications such as a performance exhaust and supercharger, a cold air intake could compound the horsepower improvements.

Cold air intake can also improve your motors responsiveness during acceleration thanks to the increased air available for combustion with an aftermarket intake system. With the additional air available, your motor is capable of reaching your desired speed quicker than a stock intake system on a car. Anybody who enjoys racing cars understand how much faster acceleration improves the enjoying of your car, truck, or SUV.

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Increased Fuel Economy

Motors rely on a perfect mixture of air and fuel in order to produce the combustion explosion required to power your car, truck, or SUV. If your vehicle is not getting the air it requires to create the ideal air/fuel ratio for combustion, your vehicle will consume more fuel to compensate for lack of oxygen.

Car, truck, and SUV manufacturers design the factory intake system to be quiet rather than fuel efficient. As a result, they tend to incorporate more fuel into the air/fuel mixture to still produce the desired power. By opening up your air flow with an aftermarket intake system, your motor can consume more oxygen which translates to improved MPG's.

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More Effective Filtration

Motors rely on a perfect mixture of air and fuel in order to produce the combustion explosion required to power your car, truck, or SUV. If your vehicle is not getting the air it requires to create the ideal air/fuel ratio for combustion, your vehicle will consume more fuel to compensate for lack of oxygen.

Car, truck, and SUV manufacturers design the factory intake system to be quiet rather than fuel efficient. As a result, they tend to incorporate more fuel into the air/fuel mixture to still produce the desired power. By opening up your air flow with an aftermarket intake system, your motor can consume more oxygen which translates to improved MPG's.

#supercharger

Supercharger Upgrades

What is a supercharger?

Starting from the early days of Henry ford and his motorized horse carriage, automotive enthusiasts, engineers, and speed junkies have been searching for ways to increase the power output of the internal combustion motor. The first attempts at increasing power was to simply place a larger engine in the vehicle. However larger engines aren't always practical, they typically cost more to build and maintain, weigh more, and are difficult to fit into the engine bay of a vehicle.

Thankfully there is a better way to add power to your engine that will not only add ponies and rubber melting torque, but will improve the efficiency and provide you instant on power. You can accomplish more power by simply forcing more air into the combustion chamber which when supplemented with a little more fuel, is a recipe for the neck snapping power you've been dreaming of.

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Forced induction is without a doubt the best way to improve the horsepower and torque of your car, truck, or SUV. Forced air literally supercharges engine performance by compressing the air flowing into your motor resulting in dense, oxygen rich air in the air/fuel ratio. This allows the motor to burn more fuel and do more work, which results in increased horsepower and torque.

There are two types of forced induction upgrades that can add boost to your motor to increase power. The first is a turbo charger which utilizes a turbine spun by the exhaust gas from the combustion process to compress the incoming air. The second forced air induction upgrade is a supercharger which is driven mechanically by a belt, gear, shaft, or chain which is connected to the engine's crankshaft. As the crankshaft turns on a motor, the mechanical connection to the supercharger in turn turns a series of screws in the supercharger which compress the air that is sucked in through the induction system.

How does a SuperCharger work?

The typical four-stroke motor dedicates one stroke to the process of air intake. As the piston moves down in the combustion chamber, a vacuum is created which sucks air into the chamber at atmospheric pressure. Once the air is drawn into the motor, it is combined with fuel to form a charge which is a packet of potential energy which can be transformed into useful kinetic energy through the chemical reaction known as combustion. A spark plug is used to "spark" or initiate the combustion process which is essentially a chemical reaction. As the fuel is oxidized in the process, a good amount of energy is released which in turn drives the piston down and creates a reciprocating motion on the crankshaft which is eventually transferred to the wheels.

In order to boost the performance of your engine, you essentially need to create a more powerful explosion in the combustion chamber. Unfortunately, you can't just add more fuel to the combustion mixture for a more powerful explosion, you need more oxygen to go along with it. Combustion requires a 14 part to one part fuel mixture which means you need a larger volume of oxygen in your mixture to create a more powerful explosion. The bottom line for an engine performance upgrade is you need more air for more power.

Enter the supercharger. A supercharger will increase the oxygen levels in your engine's combustion chamber by compressing the air drawn in through the intake system to above atmospheric pressure without creating a vacuum. By compressing the air, the supercharger is providing a "boost" through the use of additional air and fuel added to the combustion charge. On average, a supercharger will add an average of 45% more horsepower and 30% more torque to your car, truck, or SUV.

Superchargers, unlike turbochargers, utilize the mechanical power created by the crankshaft to drive the air compression screws. Connected to the crankshaft through an accessory belt or chain, the supercharger contains an internal

compression gear with rotors to compress air into a smaller space before discharging it into the engine's intake manifold. The benefits of a supercharger over a turbo charger is it's instant power characteristics. Because the compression blades are connected to the crankshaft, the second a combustion takes place, the screws of the supercharger are turned. A turbocharger in contrast relies on the exhaust gases exiting the combustion chamber to spin the internal compressor which results in a delay before the compressed air enters the combustion chamber. This is often referred to as "turbo lag".

To pressurize incoming air properly, a supercharger compressor screw must spin more rapidly than the engine itself. This is accomplished by utilizing larger drive gears than the compressor gear which allows superchargers to spin at speeds as high as 50,000 to 65,000 (RPM). A supercharger compressor that spins at 50,000 RPM translates to a boost of approx. six to nine pounds per square inch. Atmospheric pressure at sea level is 14.7 psi, therefore the typical boost created by a supercharger equates to approx. 50% more into to the engine.

When a supercharger compresses the intake air coming into the motor, the air gets hotter causing it to lose its density. Lack of density results in less expansion during the ignition. In order for a supercharger to work at peak efficiency, the compressed air created by the supercharger needs to be cooled. Air cooling in a supercharger is accomplished through the use of an intercooler. An intercooler comes in two basic designs, air to water intercoolers and air to air intercoolers. Both intercooler designs work exactly like the radiator in a car where cool air or water is sent through a series of pipes and tubes to cool the air. As the hot, compressed air exits the supercharger and encounters the cooler pipes, it cools down resulting in increased air density before entering the combustion chamber.

Request Quote  
#engineperformance

#### Performance Exhaust Installation

Considering a performance exhaust system? Most car, truck, and SUV manufacturers leave a good amount of room for improvement when it comes to horsepower and torque. Vehicle manufacturers are subject to laws and regulations that require the cars, trucks, and SUVs they manufacture are compliant in every market they are sold in. Additionally, manufacturers have to factor in production costs that could drive up the sticker price of a new car and they need to design cars which are attractive to all potential customers. With some minor modifications to your stock vehicle parts you can boost engine performance gaining valuable horsepower and torque.

An aftermarket performance exhaust system is one of the first upgrades car enthusiasts turn to in order to free up some of the power in your motor. A performance exhaust will provide a fast and more efficient path for the exhaust gases to escape your engine. When your motor can breathe better, the engine control module is able to push more fuel and air into the combustion chamber which results in more power and responsiveness when you hit the gas pedal.

When considering an aftermarket performance exhaust system, one key feature to

look for is mandrel bent tubing. There are two primary methods used when bending exhaust piping to fit your vehicle. The most common method used due to its lower costs is the "crush-bend" technique. The problem with this method is it creates crinkled areas in the pipe which not only decrease the diameter of the pipe but also produce possible restrictions in exhaust flow. This increases back pressure in the exhaust system which results in a reduction in power and fuel mileage. The second and more expensive method for bending exhaust piping to fit a vehicle is called "mandrel bending". Mandrel bends are smooth so the pipe remains a consistent diameter throughout the exhaust system. Additionally, mandrel bent tubing eliminates potential exhaust flow restrictions from kinks and ripples in the piping.

#### Types of Aftermarket Exhaust Systems:

**Axle-Back:** Replaces the exhaust system from the rear axle to the muffler and has the least effect on performance and fuel economy.

**Cat-Back:** A cat-back exhaust system replaces the stock exhaust system from the catalytic converter back to the muffler, and has a moderate effect on fuel economy and engine performance.

**Header-Back:** A header-back exhaust replacement completely removes your stock components and replaces them with aftermarket options. This has the greatest impact on performance and fuel economy.

#### Benefits of a Performance Exhaust

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Increased Engine Power

The most popular reason car enthusiasts choose to invest in an aftermarket exhaust system is the increase in horsepower and torque it will provide. While a performance muffler exhaust system won't deliver the same kind of power gains you'll enjoy from a supercharger or turbocharger, it does have the potential to add several horsepower to your motor by reducing back pressure. While some back pressure in the exhaust system is necessary, too much can stifle the breathability of your engine which results in reduced performance. Typically, you can expect about a 10% increase in torque and horsepower from a performance exhaust installation.

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Performance Sound

The second most popular reason car enthusiasts consider an aftermarket exhaust upgrade is the sweet sweet exhaust notes produced by a properly tuned exhaust. An aftermarket exhaust can vastly improve the sound and tone of your engine. Vehicle manufacturers go to great lengths to reduce the sound of a car, truck, or SUVs engine because the majority of car buyers prefer a quiet vehicle. Performance exhaust manufacturers on the other hand, take the opposite approach, they engineer their systems to let your motor purr as it was intended to. There's something about being able to hear and feel the rumble of your motor than sends shivers of delight up the back of a true car enthusiasts.

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## Increased Fuel Economy

One of the last things you may be factoring into your performance exhaust buying decision is increased fuel economy. While it may seem counter intuitive, aftermarket exhaust systems do have an impact on the amount of fuel your engine will consume. While not huge, you can expect to enjoy a boost in fuel economy with your aftermarket exhaust system thanks to the reduction in back pressure in the exhaust system that helps your engine perform more efficiently. If you're just going with an axle-back exhaust or muffler replacement, you won't remove enough restriction to see much of a boost. However, a cat-back or full exhaust and header replacement will certainly boost your miles per gallon of fuel.

Request Quote

#torque

## Engine Performance Q&A

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Can a cold air intake give my engine too much air flow?

No, a motor can only draw in the volume of air that is allowed by the motors stroke, bore, and number of cylinders. A performance intake system and air filter is not capable of increasing the volume of air the engine takes in, it can only change the density and velocity of the air flowing into the engine.

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Does higher filtration mean a better performing intake system?

While 99% filtration efficiency is a very good achievement, air filter efficiency is just one measure of filter performance. There are several measures that you need to consider when evaluating a performance intake system including restriction, service life, and capacity. These addition measure factor in the velocity capacity of air flow, how much dirt an air filter can hold, and the life of an air filtration system. When a performance air filtration manufacturer claims their filters consistently achieve 99% filtration efficiency, it typically means they are sacrificing other performance characteristics to achieve that filtration rating. Generally a filter which achieves 99% filtration is sacrificing air flow capacity and velocity resulting in restrictive properties that limit your engine's performance capabilities.

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How will a cold air intake system impact my vehicle's fuel economy?

Because performance cold air intake systems allow the engine to breathe better and reduce the heat in the air flowing into the motor resulting in more oxygen density, cold air intake systems generally improve gas mileage. Keep in mind that there are several other factors to consider including other performance parts such as a supercharger that you have installed on your vehicle. If you're aim is to boost engine power, you're typically looking to burn more fuel in exchange for more horsepower and torque. As a result, your gas mileage will go down. However, if you only install a cold air intake system on a stock car, truck, or SUV, you can generally expect to get more miles out of every gallon of gas.

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How often will I need to clean and re-oil my performance air filter?

Maintaining your performance air filter is one of the most important tasks required for not only extending the life of your performance intake investment, a dirty filter will impact engine power and fuel mileage. When your air filter is dirty, it will restrict the airflow into your motor and degrade the life of the air filter. Driving conditions play a key factor in how often you will need to maintain your filter. Most manufacturers recommend you clean and inspect your air filter at least every 25,000 miles, however, if you're driving in terrain that has a lot of dust and dirt contaminants, you should inspect your filter more frequently.

Remember to use manufacturer approved air filter cleaning kits. Most aftermarket performance air filter manufacturers sell a cleaning kit that will include the oil which is specifically designed to match the materials used in the air filter. K&N provides a good step by step guide on air filter cleaning steps here: [How to Clean K&N Air Filter Products](#)

If you are in the Phoenix, Tempe, Scottsdale, Mesa, Glendale or surrounding area, you can purchase an air filter cleaning kit at our shop.

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Will a performance exhaust system give me better gas mileage?

Yes, a more efficient motor uses less fuel which in turn will improve your miles per gallon under normal cruising conditions. When an exhaust system incorporates proper diameter, mandrel bent exhaust tubing with a flow through design, the exhaust gases from the combustion process will exit faster with a higher temperature than factory exhaust systems. As a result, you will enjoy a boost in horsepower when you plant your foot and better gas mileage when you're cruising on a road trip. The larger the vehicle, the bigger the engine, the higher the load, which results in greater savings in fuel consumption.

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Why do some performance exhaust systems cost more than others?

The cost of a performance exhaust system is highly dependent on the metals used in the exhaust manufacturing process. The most commonly used metals in cheaper exhaust systems are rust prone mild steel, aluminized steel, or inferior 400-series stainless steel. While this results in cost savings up front, these metals result in a low-quality product that will rust away or fall apart when exposed to the harsh elements of the road.

High quality performance exhaust manufacturers, like BORLA, only use authentic stainless steel which not only costs more foot, but also require higher manufacturing costs. The process of cutting, bending, and hand welding genuine stainless steel requires expensive special equipment. In addition, the highest performing exhaust systems require substantial investments in research and development to engineer products that will consistently perform better and last longer.

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How does a performance exhaust system impact sound and performance?

Aftermarket performance exhaust systems incorporate a straight-through design which increases exhaust gas velocity and allows air to run through the engine uninterrupted. The process removes exhaust flow restrictions so the cylinders can evacuate faster which allows incoming oxygen flow to enter the cylinder faster thereby producing more power. The result of this entire process, paired with modifications to the design and sound dampening materials used in the muffler, produces an enhanced exhaust tone which gives you the performance automotive sounds car enthusiasts love.

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How much horsepower can I expect to gain with a performance exhaust system?

A motor is an air pump, performance exhaust systems allow an engine to pump and flow more uninterrupted air through the system. The result of more free flowing air is the potential for more horsepower and torque. The actual horsepower gains will depend on your fuel system's ability to provide enough fuel to match the additional air flowing through your engine. Typically, you can expect 5 to 15% more horsepower out of a performance exhaust system. To get the most out of your aftermarket exhaust system, you should match your performance exhaust system with a cold air intake and engine tune.

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Is a bigger pipe and muffler better for performance?

No. Just throwing a larger exhaust pipe and muffler on your vehicle will not result in horsepower gains. In order for a performance exhaust system to boost car, truck, or SUV performance, there has to be a balance to the design. If the exhaust pipe is too large, the velocity of the exhaust gas exiting the motor will be reduced which will rob the exhaust system of its thermal efficiency. Exhaust manufacturers often disprove the racer mentality that larger is better during the research and development. Issues like volume versus velocity have a significant impact on exhaust performance.

What's the difference between a factory Stainless Steel exhaust and a performance aftermarket exhaust?

The biggest difference between a factory Stainless Steel exhaust and an aftermarket exhaust system is the materials used. Most car manufacturers use a low grade, 400 series Stainless Steel in their factory exhaust system. While 400 series Stainless is a big improvement over the rust prone steel systems, however ferritic Stainless Steel is magnetic and still prone to degradation in the road elements. The Austenitic stainless steel used in higher grade performance exhaust systems exhibits a higher hardness, yield strength and ductility which makes it much more resistant to corrosion.

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Is an "X" pipe design better than an "H" pipe?

Aftermarket exhaust manufacturers have conducted extensive testing on various exhaust system designs and they have determined there are no significant performance differences between an X vs an H pipe design. There is however a noticeable difference in exhaust tones between the two designs. An X pipe will change the exhaust sound to a higher pitched exhaust tone.

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If I install an aftermarket engine tune with a handheld tuner, will my vehicle dealer know the vehicle has been tuned?

All handheld engine tuning manufacturers recommend returning your engine programming back to stock tune before taking your car, truck, or SUV into a factory dealership for service. One of the benefits of a handheld tuner is it's easy to save several different tunes to the programmer so it's easy to change your tune with a few clicks of a button. Also, most handheld tuners will not leave ghost data or a data footprint on the vehicle, so once the vehicles ECU is changed back to the factory the dealership will have no way to determine changes were ever applied to the ECM.

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When considering a supercharger, what is the benefit of a centrifugal vs roots or screw-type supercharger?

There are many technical differences between a centrifugal and roots supercharger such as reversion and thermodynamics that could take a long time to explain. With that said, a simple comparison of the two supercharger styles is the difference between low-end power which drops off on positive displacement superchargers and the linear power provided by centrifugal style superchargers which increase engine rpm. Rather than working against the existing power band, the linear curve from a centrifugal supercharger compliments a motors existing power band. Another significant benefit of centrifugal superchargers is they have higher efficiency requiring a smaller amount of work to compress air than a roots supercharger. Centrifugal superchargers require less energy to make power and the power created by the supercharger is more usable power.

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Why should I choose a supercharger over a turbocharger?

The biggest difference between a turbocharger and a supercharger is heat. The biggest enemy of the internal combustion engine is excessive heat. Too much heat can cause everything from engine detonation which occurs when a piston reaches top dead center and causes catastrophic engine failure, and premature wear on engine parts. A turbocharger uses extremely hot exhausts gases to spin the turbines used for air compression, when you route those hot gases around your motor, it will significantly raise the temperature under the hood. Another turbocharging byproduct is the significant increase in exhaust backpressure that is caused by a turbocharger. This makes it more difficult for exhaust gases to scavenge from the cylinder head of each compression cycle. It will also lower your engines overall efficiency. The combination of additional heat and backpressure forces you to either run lower boost or compensate by pulling timing in your tune which results in lower horsepower gains.

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How will a supercharger impact my vehicles gas mileage?

The impact a supercharger has on your fuel economy is heavily depended on your driving habits. Many people who install a supercharger tend to develop a heavy foot due to the joy of driving a car, truck, or SUV with some serious horsepower and engine response. If you develop a lead foot, your fuel mileage is going to suffer. Heavy foot aside, under normal freeway driving when your supercharger is

not under boost but is still increasing the efficiency of your motor by forcing air through normal restrictions like an air filter, you will actually enjoy a boost in fuel mileage.

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How will an aftermarket supercharger impact the life of my engine?

The longevity of your motor is heavily depended on how well your vehicle is maintained as well as your personal driving habits. If you maintain your vehicle properly and not abuse the motor by jamming on the accelerator every chance you get, your engine life should remain generally unaffected. A stock vehicle will even show signs of premature aging if not properly maintained and cared for. If you are running your vehicle in racing and towing conditions on a regular basis, the motors life will suffer.

A supercharger is simply a larger air pump that will improve the air density and flow into your engine. While under boost, the additional condensed air will require additional fuel to enrich the air fuel ratio in your combustion chamber. If you are experiencing detonation which can be identified by a pinging noise coming from your motor, it is a good indication that your vehicle is not tuned properly for the supercharger. Detonation typically results from a lean fuel condition, too aggressive of a timing curve, or lower octane fuel. If you push a motor that is experiencing detonation, you risk severe damage and reduced engine life.

## GPS TRACKING

TEMPE, AZ | PHOENIX, AZ

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Automotive GPS Tracking

CalAmp Professional Grade GPS Tracking

At Apex Customs Phoenix, we offer custom installations of the best automotive GPS tracking systems on the market. GPS vehicle tracking systems are an invaluable tool for tracking vehicle history from an entire fleet of vehicles to a single car, truck, or SUV. Real-time tracking capabilities provide up-to-the-minute speed and locations updates than can be monitored via smartphone apps, web applications or even text and email alerts based on parameters you configure.

If you want to know the minute your teenager starts speed or your company truck goes off course, then a GPS tracking system is your answer. You can also pull detailed historical reports and maps that tell you down to the detail where the vehicle has been, how fast it was traveling, and how long the car, truck, or van was stopped for.

GPS Services

Car Tracking

Fleet Tracking

Dealership Tracking

Serving the greater Phoenix area, Apex Customs provides professional vehicle GPS tracking system installation to customers in Tempe, Mesa, Gilbert, Chandler and Phoenix. Our certified sales and installation staff will help you choose the right GPS tracker for your application and ensure it is installed professionally and covertly to maintain warranty and keep the device out of reach for potential thieves and prying eyes. To learn more about our approach to automotive customization, check out our about us page.

Request Quote  
#fleettracking

## GPS Tracking Services

One of the many popular automotive services we offer at Apex Customs Phoenix is vehicle GPS Tracking systems. From easy to install car, truck and SUV GPS trackers to keep an eye on your loved ones or reduce insurance rates, to professionally installed fleet and dealership tracking systems, we have you covered. Here are just a few of our GPS tracking service offerings:

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GPS Car, Truck, and SUV Tracker

The ability to track your car, truck, or SUV and family members through the use of advanced GPS tracking, is one of the best technological advancements available on the market today. There are a wide variety of GPS tracking options for your home use. If you want to keep an eye on your teenager and make sure they aren't speeding or leaving a predefined area with their new driver's license, a simple plug and play OBD II GPS tracker may be just the option you're looking for. If you're looking for a more permanent solution to prevent vehicle theft or reduce your insurance rates, we can install the best GPS trackers on the market discreetly and permanently.

At Apex Customs Phoenix, our sales staff can help you choose the best GPS tracking system for your application. Our certified installers will professionally install your GPS tracker in a way that won't damage your vehicle's electrical system and will remain hidden from view. They will then help you configure your GPS system and walk you through the software and smartphone apps you'll use to keep an eye on your car, truck, or SUV.

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Fleet GPS Tracker

If you run a service business with several vehicles out in the field, GPS trackers are a critical necessity to add to your operations. GPS tracking will not only add a level of protection for your service vehicle inventory, it will improve the efficiency of your operations and help to reduce operating costs. Imagine having the tools to be able to see exactly where your service staff is with pinpoint accuracy at any given time. Add to that the ability to run historical reports, reduce your insurance costs, and keep employees accountable and you have a winning combination at an affordable price.

At Apex Customs Phoenix, our certified technicians will not only install your GPS fleet trackers in a manner that prevents tampering and hides them from view, they will also assist in the configuration of your unique settings and train you

in how to use the monitoring systems.

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Dealership GPS Tracker

If you operate any kind of vehicle dealership, GPS tracking systems are a must to protect your inventory. From small used car lots to multi-lot new car dealerships, installing GPS tracking systems to your fleet will provide your business with detailed insights into every vehicle in your inventory with pinpoint accuracy. Whether you're looking for easy to install OBD II GPS tracking which allows you to swap trackers between vehicles in a matter of seconds, or you're looking for more sophisticated systems to keep even the most sophisticated criminals at bay, Apex Customs Phoenix has you covered.

The sales staff at Apex Customs Phoenix will help walk you through all of your options for Automotive Dealership Tracking systems and our certified technicians will install your GPS units in a manner that will not damage your car, truck, or SUV inventory.

Request Quote  
#gpstracking

What is a Vehicle GPS Tracking System?

GPS vehicle tracking systems combine modern software with GPS tracking hardware to track a vehicle's location and record it to a historical map with pinpoint accuracy. Commonly used in fleet vehicles, GPS tracking systems have become an affordable solution for small businesses and even concerned parents. Modern GPS tracking systems commonly use GLONASS and GPS technology originally developed by NASA for locating a vehicle accurately at any given time. The information tracked by GPS vehicle tracking systems can be viewed on electronics maps via cloud-based web applications, smartphone apps, or specialized software.

How do Automotive GPS Tracking Systems Work?

GPS car, truck, and SUV trackers combine advanced mapping and reporting software with GPS technology to provide you will all the historical location information you need. GPS trackers are installed in your vehicle quickly through the vehicle's OBDII system to track speed and transmit GPS details via satellite or cellular networks.

GPS Trackers Will:

Track your vehicles history every second and record the historical data on a scheduled interval.

Transmit the tracked historical data to a central web tracking software via satellite and cellular networks.

Record the historical location and vehicle data in a centralized database for reporting and mapping.

32951534 - real-time gps tracking

Request Quote

#fleetmanagement

Car, Truck & SUV GPS Tracking

Monitor Your Workforce

A vehicle is stolen every 28-seconds in the US. Car, truck and SUV GPS trackers are an effective, affordable solution to help protect your vehicle from even the cleverest of thieves. The LMU-200 is the best in-class for reliability, performance, and accuracy without the monthly fees. A GPS tracker isn't an expense, it's an asset protection investment.

The LMU-200 vehicle GPS tracker made by Cal-Amp includes a 2-year GPS tracking service, starter-disable, tamper alert, backup battery, and tow alerts all backed by an industry leading 2-year warranty. With NO monthly fees and NO contacts the car GPS tracker runs on the most reliable cellular network by Verizon. It includes 10 Geo Fences to be able to place automatic alerts when your car leaves a certain area without your knowledge.

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TEEN GPS TRACKING

It's every parent's nightmare, the moment your teenager drives away on their own for the first time and the worry sets in. There is no better way to keep an eye on your teenagers driving than with a vehicle GPS tracking system. The teen GPS tracker will monitor your teen 24/7 with speed monitoring, GEO location tracking, and text alerts. You can choose between a plugin ODB GPS tracker and a hardwired system with tamper monitoring to keep your teen from disabling the system. At only \$249, the teen tracker will protect your teen with no additional month fee's or contracts. You can also qualify for auto insurance discounts with a GPS tracker. You'll get a comprehensive system that that offers detailed vehicle safety reports which show speed events over 80 MPH, miles driven, hard acceleration and braking reports. Each of the data points are then compiled to create a risk rating for your teenage loved one.

Request Quote

#protectyourassets

Fleet Vehicle GPS Tracking

Monitor Your Workforce

GPS fleet tracking is a game-changing technology for both small and large businesses alike. Vehicle GPS trackers will keep track of your fleet showing every route, engine on/off and idle times, and amount of time your workers spend at particular stops. Adding vehicle tracking to your service business will help you analyze business operations and efficiencies to help you improve service, reduce labor costs, and protect your vehicle fleet investment.

The Fleet GPS tracking systems offered at Apex Customs offer 1-year of unlimited service with no monthly fees and unbeatable features for only \$265. With a Fleet vehicle GPS tracker, your management team can track vehicles, track drivers,



assets, and job locations. Everything is reported on up-to-date, easy to use maps providing you detailed reporting and real-time location and route tracking. The fleet GPS tracking system will also provide you speed reports, vehicle start and stops, and even employee driving habits. Fleet Tracking Improves Operational Efficiency.

GPS tracking technology will help you run your service business in the most efficient manner possible. By monitoring your workforce and analyzing your service call times, route patterns, and vehicle efficiencies, you can find ways to improve profit margins and enhance your client satisfaction. GPS Fleet tracking will provide your business with a competitive edge that will set your business apart from the rest.

#### GPS Tracking To Reduce Costs

Another benefit Fleet GPS Tracking systems off your business is the power to reduce manpower, vehicle maintenance, and fuel costs. Even if you don't have access to the internet, you can receive text alerts for speed alerts, Geo-fences, and more to help you reign in unnecessary operational expenses.

#### GPS Fleet Tracking Features:

REAL TIME TRACKING

MILEAGE REPORTS

INTERSTATE MILEAGE REPORTS

FUEL REPORTS

FLEET GPS GEO-FENCES

SPEED ALERTS & GEO FENCES

EASY TO USE WEBSITE

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Request Quote

#dealershiptracking

#### Car Dealership GPS Tracker

##### Protect Your Vehicle Inventory

Don't let thieves posing as customer disappear with your profits! The car dealer GPS tracker is an effective solution to protect your automotive assets. The Car Dealership GPS tracker by Cal-Amp is an innovative and affordable solution offering a wide variety of features such as battery backup, address verification, tow alert, tamper alert and starter disable with an unlimited tracking server option that carries no monthly fees.

The Cal-Amp LMU-200 is an investment that will protect your vehicle inventory with the most reliable Buy here pay here GPS tracking system on the market operating on the Verizon 3G/CDMA network.

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BACKUP BATTERY

When it comes to GPS trackers, a battery backup is vital to ensure that thieves can't just disconnect the car battery to disable the GPS system. The LMU-200 will alert you when the car, truck, or SUV's GPS tracker has been disconnected from the vehicle's battery.

TOW ALERT

The LMU-200 GPS tracker will send an alert the moment one of your vehicles is towed. This is a great feature to prevent mechanic liens and impounds by receiving an alert before the car reaches its destination.

TAMPER ALERT

Tamper alerts are another critical feature to have incorporated into your vehicle GPS tracking system. Critical for automotive dealerships looking to protect their investments, the tamper alert paired with the battery backup will ensure that your inventory can be tracked and located no matter how clever the thieves think they are.

ADDRESS VERIFICATION

The LMU-200 automotive GPS tracker will also track and upload key addresses where the car, truck, or SUV spends the majority of its time. This is an invaluable feature to verify customer work and home address when skip tracing.

CDMA on VERIZON

Operating on the largest and most reliable network for car dealership GPS tracking systems, the LMU-200 runs on Verizon's CDMA network to provide critical alerts about GPS location updates.

2 YEAR WARRANTY ON OUR CAR TRACKING UNITS

The Cal-Amp LMU-200 vehicle GPS tracker features two dual processors and is built to last. Backed by an industry leading 2-year warranty, the LMU-200 will provide you a lasting return on your investment.

UNLIMITED GPS TRACKING SERVICE

Thanks to unlimited GPS tracking, the LMU-200 is the perfect option for auto finance tracking. It's easy to use software will provide your vehicle inventory the protection it needs to keep your investment intact.

LMU-200 Automotive Dealership GPS Tracker Features:

MOBILE APP - Access your fleet from palm of your hand

RELIABLE REAL TIME GPS TRACKING on the Verizon 3G Network for best coverage

DUAL PROCESSOR

BACKUP BATTERY

STARTER DISABLE

TOW ALERT & TAMPER ALERTS

CUSTOMER ADDRESS VERIFICATION

GEO-FENCE

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#familytracking

Benefits of GPS Trackers

Protecting Your Assets

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Improved and Expedited Billing

GPS tracking will take the headache and hassle out of time tracking and service billing. No longer will your service staff forget to accurately log the hours they spend on a job. With GPS tracker's you can pull up a detailed report of the exact start and stop times of any job completed. You can improve cash flow by automating service billing reducing the float time between job completion and employee's turning in their time cards.

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Reduced Theft Risk

With GPS tracking systems installed in your vehicle, the chances of recovering a stolen vehicle increase significantly. If one of your service vehicles is stolen, it's not just the loss of the vehicle that does damage to your bottom line, the loss of specialty equipment and tools stored in the vehicle and the lost revenue from potential service jobs often times is more costly than the loss of the vehicle itself. With GPS tracking, the police can recover your missing vehicle before the thieves have a chance to pawn off your equipment and get you back in business quickly so you can resume your regular service schedule.

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Reduced Insurance Rates

Many insurance companies will offer discounts for vehicles that have GPS tracking systems installed. The added tracking capabilities GPS trackers offer in the case of a stolen and vandalized vehicle will mean the difference between a total loss and a recouped stolen vehicle. Insurance companies understand the savings to their bottom line if you are able to recover a stolen car. As a result, insurance companies will often pass a portion of these savings onto their customers as an incentive to install GPS tracking systems.

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Reduced Maintenance Expenses

By adding vehicle monitoring and GPS tracking to your companies fleet, you can get real time alerts and maintenance reminders so you never have to worry about a missed oil change, or tire rotation again. By enhancing your vehicle management tracking capabilities, you will be able to reduce costly vehicle down time and damaged parts that missed required maintenance.

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Improved Customer Service

By implementing GPS tracking systems for your business, your dispatchers and service managers will have a bird's eye view on exactly where technicians are located, how long they have been at a location, and who is available to be dispatched to a new job assignment. By adding real time tracking and dispatching capabilities to your business, you can grow your revenue stream by taking advantage of those last minute customers, you can squeeze in that additional job that could mean the difference in a profitable day.

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Reduced Labor Costs

GPS tracking will keep a watchful eye out for employee's wasting costly time on the job. Not only can you track how long an employee spends at each job they are assigned to, GPS trackers also setup alerts to prevent employees from running personal errands on the job or driving your fleet vehicle outside of your service area. The comprehensive reporting offered by GPS tracking systems also allow you to conduct detailed analysis of your service routes to find efficiencies in your route, traffic patterns, and service scheduling times.

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Enhanced Safety

When your staff is aware their driving patterns are being recorded, they will be less likely to speed and drive aggressively. The enhanced driver accountability provided by GPS tracking systems will not only lead to safer trips with reduced risks of costly accidents, they will also reduce the chance that your drivers make poor driving decisions in your branded vehicles that could harm your brand's image to potential customers.

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Reduced Fuel Costs

With GPS tracking your drivers will be more accountable to their driving habits and chosen navigation routes. When service staff members drive slower and make the effort to drive the shortest paths to their service call locations, your business will benefit in reduced fuel costs and wear and tear on your fleet vehicles.

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Improved Job Performance

Fleet GPS tracking systems will give your service technicians the confidence they need to navigate efficiently and safely to their scheduled destinations. When drivers know where they are going, they will feel more competent and prepared for their job assignments.

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#vehicletracking

## GPS Tracking Q&A

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What is GPS Geofence?

Geofence's are GPS defined boundaries which allow you to configure notification alerts when the vehicle crosses the boundary. Geofences are a great feature for any GPS tracking application. For fleet tracking, you can define your service boundaries. For teen tracking you can define a custom boundaries that your child must stay within. For GPS theft prevention, you can define boundaries which will alert you the moment your car leaves an area outside your neighborhood.

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What is the difference between passive and real time GPS tracking systems?

Real time Car GPS tracking systems track and report vehicle location information in real time. The benefit of real time tracking is allows you to view direction, location, and speed of the vehicle as it is currently in motion. Most real-time trackers also offer features like door lock controls, geofences, starter disable and remote ignition. In contrast, passive car, truck, and SUV trackers store tracking information that can be retrieved at a later time once the vehicle has returned to its home or office.

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Is it possible to install the GPS unit so people don't know the vehicle is being tracked?

Absolutely! GPS vehicle trackers can be professionally installed discretely and safely so they are tamper proof and hidden to prevent any unwanted interference with your tracker. The most powerful feature of a vehicle tracking system is the ability to track key vehicle location and driving information without the driver or thief being aware.

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What happens if the vehicle being tracked travels outside the geo-fence when I'm not near a computer?

With the GPS Geo Tracking systems offered at Apex Customs Phoenix, you will have the ability to receive alerts on your cell phone. Whether you set up a geo-fence or want to know when the vehicle is speeding, you can setup text alerts directly to your cell phone.

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What are the business benefits of a GPS tracking system?

The ability to track your machinery, vehicles, assets, and fleet, will provide your business with critical information to reduce costs, manage your service staff effectively, manage your fleet maintenance, and improve customer service. You'll have a huge advantage over your competition and gather a wealth of useful data to improve efficiencies throughout your business.

Some of the most common business benefits are:

Lower vehicle mileage and reduced fuel expenses

Improved fleet management with detailed stop and speed information

Enhanced staff efficiencies

Improved customer dispute resolution

Improved sales and service for your customers

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What's the difference between the cheap GPS tracking systems I can buy on eBay and install myself?

Not all GPS tracking systems are created equal. The cheap GPS trackers you can buy on eBay are made from cheap components that were manufactured from cheap parts and poor unreliable firmware. Cheap GPS tracking systems are not only unreliable, they could damage your vehicles electrical system and even pose security risks.

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Are there any limitations to GPS tracking systems?

No GPS system is 100% reliable no matter how much you spend on your system. There is no guarantee that the system will track GPS location all of the time as they rely on the ability to communicate with satellites in space. Common issues with GPS systems happen when the vehicle is in an underground parking garage, surrounded by large buildings, or in an underpass.

Another common issue encountered with GPS systems is drifting or bouncing. This happens when a GPS location fix appears to bounce around the map even though it's in one location. GPS drifting commonly occurs in insulated areas such as garages or carparks that can impact GPS tracking.

## AUTOMOTIVE LIGHTING

TEMPE, AZ | PHOENIX, AZ

### Car, Truck & SUV Lighting

Aftermarket lighting upgrades are one the quickest and most cost-effective way to give your ride a custom appearance that everyone will notice while simultaneously improving driving visibility.

One of our specialties is LED lighting. LED's are revolutionizing the automotive industry. They offer a superior style and appearance, run cooler, outperform, and outlast the bland lighting provided in car, truck, and SUV OEM packages.

We also offer lighting packages that will give your car or truck a show quality appearance. From Plug and play HID kits, LED headlamps and color strips, to complete custom lighting tailored to your vehicle's specifications, Apex's expert

installers will design a package for you that no other shop can offer.

Every vehicle is different and options are limitless, contact us now to discuss the lighting you envision for your car, truck, motorcycle, or van and our team of lighting professionals will help design that custom lighting project you've been dreaming about. To learn more about our approach to automotive customization, check out our about us page.

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Lighting Services

HID Headlights

LED Headlights

LED Bulb Swaps

Halo Headlights

LED Light Bars

LED Tailights

LED Light Strips

Wheel Lighting

Underglow Lighting

Puddle Lights

Strobe Kits

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#ledheadlights

Apex Lighting Services

ddb1b\_e605ec07a23d4f76a91b665ba280b907\_mv2  
HID Headlights

HID Headlights are High-Intensity discharge bulbs that use an electrical gas-discharge to produce a high-intensity light. The light produced by HID bulbs is created by an arc discharge between two closely spaced electrodes. The discharge created is hermetically sealed inside of a small quartz glass capsule. HID lights require an electrical ballast to regulate the voltage supplied to the gas. The amount of light produced is significantly greater than a standard halogen headlight while still consuming less power.

HID headlights are common on modern vehicles, especially luxury vehicles. They produce a light that more closely resembles natural daylight. The light produced is more of a white light than the traditional yellow light that incandescent bulbs of the past produced.

At Apex Customs Phoenix we specialize in the installation, replacement, and maintenance of high-performance HID lighting. We can upgrade your car, truck, or van to HID lighting, swap out bad ballasts or bulbs, and recommend the best HID application for your vehicle.

d4bd1b\_e4c5514360c44406baa44d904d233325\_mv2  
LED Headlights

LED Headlights are the latest innovation in the automotive lighting world. They are significantly brighter than traditional halogen and incandescent lighting that was used on cars and trucks for years and put off the same amount of light as a 35 watt HID headlight kit. LED headlamps consume less power and turn on instantaneously unlike their halogen and HID counterparts. Another benefit of LED headlights is they do not require the large ballasts that HID kits require. They are available in a number of color temperatures like HID headlights and provide solid longevity and reliability.

At Apex Customs we have developed one of the most reliable direct swap LED headlight brands in the market. Axium lighting offers unparalleled lighting output and reliability to provide you with an automotive LED solution you can trust. To learn more about this innovative solution, check out our Axium Lighting page .

There are a variety of options of LED headlight upgrade and swaps. At Apex Customs Phoenix we can upgrade your headlights to LED, swap out old LED headlights, and provide a number of custom options for your headlighting needs.

d4bd1b\_81e0f7514768431693b823570dfa9cfc\_mv2  
LED Bulb Replacements / Swaps

LED bulbs have become a popular lighting feature on modern vehicles due to their low energy consumption, longevity, lower heat dissipation, and color temperature options. LED lighting can now be used for every bulb used in an automotive application. Turn signals, running lights, overhead lights, reverse lights, map lights, you name it.

LED's are a great way to upgrade your car, truck, or motorcycle. They offer a genuine return on investment with their low cost and quick installation that results in a noticeable difference. At Apex Customs Phoenix we can swap out your old interior and exterior bulbs in a variety of colors and sizes. We can transform your ride from a yellow dud to a white palace in a matter of minutes.

d4bd1b\_c0d322ee42164553b878e374275606a1\_mv2  
Halo Angel Eye Headlights

Halo kits are one of the single more head-turning upgrades you can make to your vehicle. With a small investment, you add a custom lighting look to your car or truck that will give it a show car look. Halo headlights, also commonly referred to as Angel Eye headlights are a white or colored luminous ring of light that goes around the edge of your headlamp bulb. They create an aggressive, distinctive look that will turn heads and provide an unmatched custom look.

Apex Customs Phoenix offers a wide variety of Halo Headlight options. We are an authorized dealer of Oracle lighting kits which offer the best Angel Eye lighting



kits on the market. We can either swap your entire headlight housing for a pre-built custom headlight that comes with Halo Rings pre-installed, or we can open your factory housing and add a set of halos to retain the factory look.

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LED Light Bars

LED light bars are all the rage in today's aftermarket and off-road communities. LED light bars offer a power light that can be used as fog lights, off-road daytime running lights, work lights, ATV lights, tractor lights, or industrial and marine lighting. When driving off-road, there is nothing that cuts through the night like a powerful LED light bar. Light bars combine a number of super bright LEDs into a single housing to provide a powerful wall of daytime quality light to cut through even the darkest of nights.

Common uses of LED light bars are to place them on the bumpers or roof of an off-road vehicle. At Apex Customs Phoenix, our expert installers can securely mount your light bar with minimal damage to your vehicle and route the wiring so it is hidden and safe from the elements. We can hook your light bars to an aftermarket switch, or integrate them into factory switches.

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LED Tail Lights

LEDs are the perfect solution for automotive braking applications. They light up more quickly than traditional incandescent bulbs and provide a brighter, more noticeable light improving the safety of your car or truck. They also offer a distinctive, modern look to improve the look of your ride while reducing the energy consumption and power strain on your vehicles electrical system.

Apex Customs Phoenix offers a variety of LED tail light customization options. The most common LED upgrade is to swap out your factory lights to a prebuilt aftermarket LED Tail Lamp to provide a custom unique look. In some cases, we can modify factory tail light housings to utilize LEDs rather than traditional bulbs.

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LED Light Strips

LED strips are another easy way to add a custom look to your vehicle. LED strips are flexible circuits that are populated by surface mounted LEDs and other components. LED strips are available in a variety of colors and sizes and typically come with an adhesive backing from the manufacturer. They can be cut to various lengths and connected to lighting controllers to add cool synchronization features like music, timer, remote, and switch activation.

At Apex Customs Phoenix we offer a number of LED strip sizes, colors, and installation options. Our certified installers can customize any lighting application you are looking for. We specialize in discrete installations that retain a factory look. We will hide the wiring and install the strips so they are hidden from view while ensuring the electrical connections are done professionally. We can even integrate the lighting to turn on with your factory switches and remotes.

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## Wheel Lighting

LED wheel lighting is a relatively new trend that has taken the aftermarket lighting world by storm. Wheel lighting is accomplished through the use of an aluminum wheel ring mounted with colored LEDs designed to fit around the brake rotors of your car, truck, or SUV. The TRON inspired wheel ring's illuminate the barrel of the rim to provide a head-turning custom look that will provide sophistication and flair.

At Apex Customs Phoenix our certified installers are able to install wheel lighting that will hold up to the elements while looking fantastic. Wheel lighting installations require electrical wiring to be run next to mechanical components that undergo extreme stress, it's critical that your installation is done professionally to ensure your investment is protected. Our installers will run wiring in such a way to ensure it's protected from the wheel, braking, and suspension components as well as the harsh elements the underside of your vehicle is exposed to.

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### Puddle Lights

Puddle lights offer a unique customization to your car, truck, or SUV that is both functional and unique. Puddle lights are designed to help prevent drivers and passengers from stepping into puddles when they are getting out of the vehicle. Puddle lights can be installed in a variety of locations, the two most common of which are underneath the side mirrors, at the bottom side of the doors, or the undercarriage of the vehicle. LED's are a perfect application for puddle lights due to their compact nature and bright lighting features.

The coolest new trend for puddle lights are lights that display a custom logo, word, or picture. The most common of these lights display the logo of your vehicle. Logo LED puddle lights are a customization that will truly set your car, truck, or SUV apart from the rest.

At Apex Customs Phoenix our installers can hook your ride up with any puddle light application you're looking for. Whether you're looking for several puddle lights on the undercarriage of your vehicle or a single led at the bottom of your side mirror, we've got you covered. We will ensure the wiring is hidden, the lights are installed with minimal damage to your vehicle, and your lights are protected from the elements.

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### Strobe Kits

Strobe LED kits are commonly used for industrial and emergency vehicle applications. LED strobe kits create a continuous or variable strobe effect on a series of LED bulbs. Strobe kits can be programmed to produce a wide variety of patterns and effects and come in a range of colors. Most strobe kits are illegal for use on regular streets and are only for use in offroad or show applications.

If you're looking for a lighting strobe kit, our highly qualified technicians at Apex Customs Phoenix have you covered. We can install strobe kits in just about any location on your vehicle whether it's discreet or purposely noticeable. We can integrate your strobe kits into your vehicle electrical system or provide

additional batteries to allow the system to run independently. We will also ensure the wiring is protected from the elements and hidden from view.

#### ddbd1b\_8cad804a918f4565842b3e63a57015ad\_mv2 Underglow Lights

Underglow lighting, also referred to as ground effects lighting, is one of the most unique lighting upgrades you can add to your ride. LED underbody kits attach to the chassis of your car, truck, or SUV to illuminate the ground underneath the vehicle. Popular in car shows, under glow lighting adds an unmistakable aesthetic appeal to your ride that will catch the attention of every passerby.

When ground effects lighting first hit the automotive industry, the most common kits came as large lighting tubes filled with neon gas. Although neon gas only produces red colors, manufacturers utilized a mixture of other various to produce up to 150 color combinations. The problem with neon tubes is they consist of compressed gas which makes them prone to breakage over speed bumps. Thankfully there is a new underglow lighting solution that is capable of standing up to the harsh elements a car, truck, SUV or motorcycle encounters on the road.

LED ground effects lighting is the hottest new trend in underglow lighting. LEDs are not only available in a wide range of colors, they are flexible and durable enough to withstand the hazards of a vehicle's chassis and underbody. At our Phoenix automotive LED lighting shop, our expert technicians can install any under glow lighting kit you are looking for.

#### ddbd1b\_50a45595ffd14c1d9a5ac22b7ee81255\_mv2 Custom Lighting Packages

For the true lighting enthusiasts looking for a combination of lighting upgrades, Apex Customs Phoenix offers packages that allow you to do all your upgrades at once at a reduced rate. If you're looking to upgrade your headlights, add some Halo's, and swap out your interior lights for LED's we've everything you need. Our sales staff can help put together a package of LED's that will take your car from boring to thrilling in one afternoon.

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#oraclelighting

#### Oracle Lighting

At Apex Customs we only put our reputation behind brands we know will give you the quality, durability, and performance that will go the extra mile. When customizing a car, we understand the importance of high-quality products to really give your car the edge it deserves. Oracle Lighting and Diode Dynamics are exactly that, they are the market leaders in all things automotive lighting are we are proud to carry and install their products.

Oracle Lighting is the leading US specialty automotive LED manufacturer and retailer. They have been in business for well over a decade and carry a wide variety of automotive lighting solutions including:

Halo Kits  
Pre-Assembled Headlight Housings

LED Sealed Beams  
LED Controllers  
LED Strips  
LED Off Road Lighting  
LED Headlight Bulbs  
LED Wheel Rings  
HID Kits and Ballasts  
Xenon Light Replacements  
HID Off Road Lights  
LED Illuminated Badges  
LED Light Pods  
LED Switches  
LED Interior Bulbs  
LED Turn Signals  
LED Scanner Bars  
LED Side Markers  
Door LED Projectors  
LED Motorcycle Kits  
Chrome and HOD Bulbs

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Diode Dynamics is a premium manufacturer of automotive LED Lighting products. Their primary focus is on developing innovative lighting products with superior quality and excellent customer services. One of the aspects of Diode Dynamics that we like best at Apex Customs is they manufacture the majority of their lighting products in the USA in their St. Louis Missouri factory. All of the products offered by Diode Dynamics are backed by an industry-leading no-hassle warranty with an emphasis on providing the best service and support experience possible.

Request Quote

Diode Dynamics Offerings

LED Bulbs  
LED Light Bars  
HID Halos & Strips  
LED Angel Eye Rings  
LED Strips and Kits  
HID Lighting  
Fog Lamps  
Sidemarkers  
4th Brake Lights  
LED Deamon Eyes

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#ledhalos

Lighting Color Temperatures

Choosing a color temperature for your lighting from the vast array of options available can be a challenging task. In general, if you're looking for the white light you see on most modern luxury vehicles then a color temperature in the 5000K to 6000k is your best choice. The 5k to 6k range resembles sunlight the

closest and is easiest for the human eye to see. You're going to get the best visibility from this color range.

What is Color Temperature?

Color temperature is the color designation for each hue in the light spectrum in relation to how it's perceived by the human eye. Kelvin is the unit of measure used for color temperature. A Kelvin is a unit of absolute temperature which is converted to Lumens which equates to the brightness emitted by the light. The higher the color temperature, the less helpful the light is at cutting through darkness leading to lower visibility which is contrary to the popular belief that higher temperatures mean more brightness.

COLOR	TEMPERATURE	DESCRIPTION
Yellow	3000K	Pure yellow light emission commonly found in halogens
OEM White	4300K	Yellowish-white emission similar to dim white light
Pure White	5000K	Pure white light emission. Simulates natural light
Crystal White	6000K	Pure White light emission with a bit of blue
Light Blue	8000K	A bluish-white light emission with more blue percentage
Blue	10,000K	Dark Blue light bordering on violet
Violet	12,000K	Dark Violet

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#ledlightbars

What are Halo Projector Headlights?

Projector headlights, also known as Halo, Corona Rings, and Angel Eye headlights are a popular lighting customization in the aftermarket automotive industry. Project headlights are luminous rings inside of the headlamp assembly around the central headlight on a car or truck. Halo headlights were first introduced by BMW in 2000 and have become a very popular customization feature used by automotive enthusiasts to enhance the front end of a car or truck's appearance.

Beyond the cool factor, Halo headlamps have a functional quality which provides a stronger headlight beam over conventional crystal headlights. A projector headlight provides a more focused light beam providing a stronger light to see down a dark road. Angel Eye headlights have become standard on most luxury equipped European vehicles and are available today in a wide variety of colors, options, styles, and technologies. Corona rings will give your car or truck an aggressive look while also improving the light output of your headlights.

Projector Headlight History

When headlight technology was first introduced, the headlamp utilized acetylene lamps with a reflecting mirror to project the light forward. Over the years through technology advancements, headlights have evolved into a high-tech automotive part providing an array of customization options while creating high-impact illumination.

Headlight assemblies which became popular in the 1980's were designed to encompass all of the front-end lighting components of a vehicle into a single unit. Their bulky construction, made out of parabolic reflectors, prevented

intricate designs from being used by automotive designers. This led to headlight assemblies on cars and trucks that were less than appealing. The projector bulbs that were developed in the early 2000s allowed auto manufacturers to design innovative headlamps and assemblies including the now common halo ring. The introduction of Halo headlights created a revolutionary look which gave new vehicles a designer look and stance to the vehicles front end.

The first halo headlights introduced by BMW were called Corona Rings. Over the years, lighting technology has improved drastically allowing halo headlamps to be utilized as daytime running lights (DRL) as well as evening city lights. Early halo headlights used halogen bulbs paired with a fiber optic system to transmit the light throughout the ring channel. This technology was replaced by BMW by energy-saving LEDs to power the corona ring channel. BMW now integrates their halo rings into their bi-xenon headlights which is a signature design element which has served to distinguish BMW cars and SUV's on the road. Today the Chevrolet Camaro and Impala both come standard from the manufacturer with halo-ring headlights equipped.

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#### Types of Halo Headlights

Halo Headlights come in a wide variety of technologies, colors, and styles. Projector halo headlights come in three different technology types: CCFL, LED, and Plasma. Traditional Halo rings used by most auto manufacturers are illuminated by one or two incandescent bulbs which produce the distinctive "angel eye" effect by creating dark and bright spots inside the enclosed halo ring.

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CCFL Halo Headlights

CCFL technology has been used for Halo headlight technology the longest. CCFL provides the smooth glow which hides the individual lights in the halo ring which most automotive enthusiasts prefer. Each CCFL halo ring is made from a small fluorescent tube which is developed to last up to 50,000 hours of continuous use. CCFL Projector Halo Headlamps are the most widely available and cheapest options available on the market because they have been available the longest.

The downside of CCFL headlights are they are not as bright and noticeable as LED and Plasma Halo headlight options. They are best for dark environments to get the best performance out of your Halo investment.

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LED Halo Headlights

LED Halo Rings also known as SMD Halo's are developed and manufactured to be ultra-bright. This allows your Halo's to be seen in both during the day and night. If you want your Halo's to be visible all the time, SMD Halo's are your best option. Another benefit of LED Halo headlights is the ability to have multiple colors due to the individual lights that make up the Halo ring. With kits like Oracle's colorSHIFT, you can change the color of your Halo ring with the simple click of a button or remote.

Another advantage of LED SMD Halo's is the ability to utilize LED controllers to do cool effects like sound activation and customized programmable patterns. LED Halo rings are also more durable than CCFL Halos with a life of 60,000 hours of continuous use. One disadvantage is LED Halo's are made up of individual lights so you don't get that continuous fluid look like CCFL or Plasma options.

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Plasma Halo Headlights

Plasma Halo's are the latest technological advancement from Oracle. Oracle's goal in developing Plasma Halo's was to combine the advantages of both CCFL and LED so customers wouldn't have to choose between the two technologies. Released in 2013, the major downside of Plasma Halo's is the inability to change colors.

Plasma Halo's provide the smooth, fluid look that CCFL offers only in an ultra-bright package which can be seen during either day or night. If you are only looking for a single color for your Halo Rings, Plasma is without a doubt your best option. Plasma Halo's offer 100,000 hours of continuous use so they will never burn out and will last the life of your vehicle.

One other drawback of Plasma Halo's is you can't control them by remotes or controllers like the LED variety.

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What is LED Lighting?

Incandescent bulbs have dominated the automotive industry since the days of Henry Ford. Today there is a new player in town that is quickly forcing old faithful to the lighting scrap heap. LED lighting, short of Light Emitting Diode, has become the bulb of choice for vehicle manufacturers and car enthusiasts alike. An LED is a transistor, combined with a substrate, which emits light when electrical current is applied. The LED bulb has a number of advantages over traditional incandescent lighting which makes it attractive for automotive use:

Automotive LED's are insensitive to the regular vibrations a car is exposed to. Vehicle LED's will last for the life of the vehicle (with the exception of LED Headlights)

Car & Truck LEDs have moisture-proof casings which allow them to be installed in harsh environments.

LED lighting is extremely compact.

LED's light up quicker and more reliable than incandescent bulbs

LED lighting runs cool reducing the energy loss and dangers associated with emitting light in an automotive housing.

LEDs are available in a wide variety of colors and color temperatures providing you a host of options for customization.

LED Lights provide more light per watt reducing the power requirements on your vehicles electrical system and battery.

LED Lighting has become so popular for car and truck applications that there are now LED options for every conventional automotive lighting application.

Headlights, taillights, turn signals, running lamps, car interior lighting, engine bay lighting, you name it, LEDs can handle it. LED's have also created new applications for automotive lighting that previously didn't exist. LED

Lighting can be installed in applications and locations that were previously impossible with fluorescent and incandescent bulbs. The days of the fluorescent undercarriage lighting tubes that were subject to damage from weather and vibrations are over!

### Chevrolet Corvette Paves the Way for Automotive LED's

The first use of LEDs in an automotive application was on the Chevrolet Corvette in 1983 which had an LED on the center high mount stop lamp. LEDs are perfect for a stop lamp because they light up instantaneously giving the driver behind more time to react to the light and avoid an accident when a car or truck makes an unexpected stop. 0.2 seconds faster may seem insignificant, however, at 75 mph this translates to 21 feet of extra braking distance which could literally mean the difference between life and death.

LED's have an RGB color spectrum which allows them to emit any color from the same LED unit. In order to display different colors, an LED unit is either setup with three different LEDs, one emitting blue, one emitting red, and one green light in one unit, or they can be built as one LED which is doped with three different substances allowing for blue, green, or red when electrical current is applied. Through the use of resistors to control the current applied to the bulb, LEDs can emit any combination of colors.

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The multicolor capabilities of LEDs make it possible for one strip of LEDs to perform multiple functions in an automotive application. They can blink amber for turn signals, light up white for backup lights, or red for braking. LEDs can also be timed to either light all bulbs simultaneously as a single unit or sequentially to create a lighting pattern such as a running turn

### Flexible Compactness

LEDs are small and compact which allows them to be made into small, flexible lighting strips which can be twisted and tweaked into locations that traditional incandescent lighting would never fit. Running lights are a perfect example of this. LEDs can be contoured to the shape and style of a vehicle's body providing a unique, unmistakable look such as the LED "whiskers" that are characteristic of Audi headlights. LED strips can be used in interior applications such as foot well or dash compartment lighting. They can be used in exterior applications such as undercarriage lighting, puddle lights, or engine compartment lighting. They can be installed in such a way that they are hidden and invisible when not lit. LED's are perfect for these applications because they don't burn out, consume little energy, produce low heat, and are maintenance free.

### LED Headlights are In

LED headlights are the hottest new trend in automotive lighting. They have become powerful enough, bright enough, and reliable enough to replace the traditional incandescent and HID headlamps that have dominated the automotive industry for generations. Modern LED design has combined advanced optical design with intricate cooling devices to make them the application of choice for car & truck enthusiasts. LED headlamps offer a wide spectrum of color temperatures without the unreliability traditionally found in HID and incandescent bulb kits.



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#customlighting

## Benefits of LED Lighting

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Long Life

Long life time stands out as the number one benefit of LED lights. LED bulbs and diodes have an outstanding operational life time expectation of up to 100,000 hours. This is 11 years of continuous operation, or 22 years of 50% operation. If you leave on the LED fixture for 8h per day it would take around 20 years before you'd have to replace the LED bulb.

LED's are different to standard lighting: They don't actually burn out and stop working like a standard light, moreover, the lighting diodes emit lower output levels over a very long period and become less bright.

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Energy Efficiency

Today's most efficient way of illumination and lighting, with an estimated energy efficiency of 80%-90% when compared to traditional lighting and conventional light bulbs. This means that about 80% of the electrical energy is converted to light, while 20% is lost and converted into other forms of energy such as heat.

With traditional incandescent light bulbs who operate at 20% energy efficiency only, 80% of the electricity is lost as heat. That heat wreaks havoc on the plastics that headlights, tail makers, fog lights, etc are made of. The low heat will help your car maintain the new look it had when it drove off the light.

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Ecologically Friendly

LED lights are free of toxic chemicals. Most conventional fluorescent lighting bulbs contain a multitude of materials like e.g mercury that are dangerous for the environment.

LED lights contain no toxic materials and are 100% recyclable, and will help you to reduce your carbon footprint by up to a third. The long operational life time span mentioned above means also that one LED light bulb can save material and production of 25 incandescent light bulbs. A big step towards a greener future!

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Durable Quality

LEDs are extremely durable and built with sturdy components that are highly rugged and can withstand even the roughest conditions.

Because LED lights are resistant to shock, vibrations and external impacts, they are a perfect fit for automotive lighting systems that are exposed to rough conditions and exposure to weather, wind, rain or even external vandalism.

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## Zero UV Emissions

LED illumination produces little radiated light and close to no UV emissions.

Because of this, LED lighting is highly suitable not only for goods and materials that are sensitive to heat due to the benefit of little radiated heat emission but also for illumination of UV sensitive objects or materials such as in museums, art galleries, archeological sites, etc.

## ddb1b\_235d2e7039a34024ba3b8c537855c274\_mv2 Design Flexibility

LEDs can be combined in any shape to produce highly efficient illumination. Individual LEDs can be dimmed, resulting in a dynamic control of light, color and distribution. Well-designed LED illumination systems can achieve fantastic lighting effects, not only for the eye but also for the mood and the mind.

## ddb1b\_25a6f7242b4a49efb7cd33e2e94a28e4\_mv2 Operational in Extremely Cold or Hot Temperatures

LED are ideal for operation under cold and low outdoor temperature settings. For fluorescent lamps, low temperatures may affect operation and present a challenge, but LED illumination operates well also in cold environments, such as for outdoor winter settings, freezer rooms etc.

## ddb1b\_bd88a5250cc1418ca26b29b78f047872\_mv2 Light Dispersement

LED is designed to focus its light and can be directed to a particular location without the use of an external reflector, achieving a higher application efficiency than conventional lighting. Well-designed LED illumination systems can deliver light more efficiently to the desired location.

## ddb1b\_706863c81c6e4412b6e99b055b109f0d\_mv2 Instant Lighting & Frequent Switching

LED lights brighten up immediately and when powered on, which has significant advantages for infrastructure projects such as e.g., traffic and signal lights.

Also, LED lights can switch off and on frequently and without affecting the LED's lifetime or light emission. In contrast, traditional lighting may take several seconds to reach full brightness, and frequent on/off switching does drastically reduce operational life expectancy.

## ddb1b\_9ad0443404d44ec8b062fe4d18095b29\_mv2 Low-Voltage

A low-voltage power supply is sufficient for LED illumination. This makes it easy to use LED lighting also in outdoor settings, by connecting an external solar-energy source and is a significant advantage when it comes to using LED technology in remote or rural areas.

#lightrestoration

## Light Restoration

After years on the road in the Arizona sun, headlights and taillights become scratched, pitted and discolored, which impacts the clarity and effectiveness of these lights. At Apex Customs, we can restore the OEM lenses and housings on your headlights and taillights so they are crystal clear again, and function like new. The process includes use of a special compound and procedure that removes surface oxidation and imperfections in the lenses and housings. Apex can also smoke your lights, giving it a distinctive style, while preserving the functionality of these lights.

### Light Restoration Benefits:

Light Housings Look New Again  
Headlight Clarity is Restored  
Protected Against UV Damage  
Headlight Function Improved  
Distinctive Styling  
#haloheadlights

### Automotive Lighting Q&A

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How do LEDs Work?

Automotive LEDs are manufactured with two primary components: the LED chip which produces light and the heat sink which keeps the bulb cool. LEDs convert DC power and convert it to light. The heat sink captures the heat that dissipates from the light. While LEDs do produce significantly less heat than traditional incandescent bulbs, they do produce heat which must be managed.

LED's produce electrical power which excites electrons. When an electron jumps from one state to another, it produces a small amount of light called a photon. LEDs essentially cause photons to be produced by continuously exciting electrons through electrical work. This process differs from a halogen or incandescent bulb which uses electrical current to heat a filament until it glows.

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How do I find the brightest LED bulbs?

The brightness of an LED bulb is measured in lumens. A lumen is equal to the amount of light emitted by the bulb per second and is the universal measurement used to determine a light's brightness. In addition to lumens, another consideration is how many LED bulbs are used in your application. Generally speaking, the more LED bulbs, the brighter the light you will receive from the device.

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What's the difference between warm white and cool white?

White bulbs come in two temperatures. Cool white light generally has a temperature rating of 5000K and 8000K and produces a light similar to sunlight and fluorescent light. Warm white has a temperature in the 2500K to 4000K range and has a color more closely resembling incandescent lighting.

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What is an LED panel?

An LED panel is a circuit board that includes multiple bulbs attached. A lighting panel replaces a single bulb to provide you with brighter lighting from multiple LEDs rather than just one.

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My stock headlights are 55w, do I need 55w HID's?

No. Because HID's produce their light more efficiently than traditional halogen bulbs, they require less power to produce the same amount of light. 35w HID's produce more than twice the amount of lumens than a 55w halogen bulb depending on the color temperature you choose. 55w HID's produce about 40% more light than a 35w HID's. A 35w HID's create more than enough light for a low beam application which makes 55w low beams unnecessary. HID's are not a good application for high beams because they take too long to fire up.

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I'm looking for headlights with a slight tint of blue, what's the best temperature color for me?

Any HID or LED headlight within a color range of 4300k to 12000k will produce a shade of blue. We recommend staying in the 5000K range or close to it to get your slight tint of blue while maintaining a white light and high level of visibility in the dark. Anything over 6000k will result in reduced visibility and light while driving in the dark.

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Are HID/Xenon bulbs the same as HID's?

No, Xenon bulbs are not true HID's, they are merely halogen bulbs coated blue. HID bulbs require ballasts to regulate the level of electrical current used in the bulb to create the light. Coated blue halogen bulbs, especially the ones you find on eBay, typically do not perform very well and have a short lifespan. To get a true hyper white look for your lights and get the visibility you require out of your headlights; we highly recommend you stick to a HID or LED bulb for your headlights.

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What is a HID relay harness?

Relay harnesses also referred to as dual in/dual out harnesses, are designed to pull the power for your headlights directly from the vehicles battery rather than the vehicle's OEM wiring harness. These are a good option when upgrading your halogen bulb headlights from the manufacturer to HID's because the factory harness may not be designed to handle the power requirements of a HID kit. HID's require less operating power than halogens. However, they do require a considerable amount of power when they first ignite. If your wiring harness is designed for lower power halogen bulbs, you can experience misfires on your HID kit and risk electrical fires or damage by relying on the lower gauged wires of your factory harness.

A typical symptom of underpowered HID's is that only one HID light will turn on. The factory harness has just enough power to handle the ignition of one light, but not both. You can typically get around this by turning your lights off and then back on again quickly, but this is not a good long term or safe option.

Another symptom you may experience with underpowered lights is your HID's will flicker when they're on as the electrical current in your factory harness is not constant enough to keep them on consistently.

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Can I use HID's for my high beams?

HID's are typically not recommended for use on your vehicle's high beam headlights. The reason for this is due to the delayed firing that HID's experience when turning on. High beams are often used to flash on and off quickly, maybe to warn another driver or increase your visibility temporarily. The delay produced by HID's will make this difficult or impossible. We recommend keeping your high beams as halogens or upgrading them to and LED bulb to match the color of your HID's.

If you want to use HID's for your high beams, you can accomplish that upgrade through the use of a HID relay harness. If you are already using or plan to use a relay harness for your low beam headlights, you'll need a separate harness for your high beam HID's.

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What is an error code eliminator?

Modern vehicles have incorporated sophisticated monitoring systems in the vehicles computer system to warn the driver that your headlight is burned out. Typically when you upgrade or swap out your factory grade headlights for an upgraded system, your vehicle's computer system will detect a different in voltage and turn on the headlight out warning light. An error code eliminator will tell your vehicles computer system that everything is fine and there is no need to turn on the warning light.

CUSTOM PAINT & AUTO BODY

PHOENIX, AZ

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Custom Auto Body Shop

Auto Paint and Body Work Services That Will Take Your Ride to the Next Level!  
When it comes to customizing your car, truck, or SUV, an eye-catching paint job is one the best investments you can make. Whether your project is a classic car restoration, a collision repair, or a brand new sedan, a custom paint job will take your car, truck, or SUV from ordinary to extraordinary!

At Apex Customs we offer full-service automotive body and paint services. From collision repair to a custom builds, our certified expert painters will deliver you showroom quality results which meet and exceed factory specifications.

At our Phoenix auto paint shop, we have a state of the art Blow Therm down draft paint booth designed specifically for high-end custom work. Our Tempe body shop offers four state-of-the-art paint booths paired with a team of auto body and collision repair technicians who are the best in the industry.

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Auto Body Services

Custom Paint

Body Repair & Restoration

Wide Body Kits

Auto Parts Painting

Collision Repair

Unlike our competitors, Apex Customs specializes in custom work and high end builds. We are not an auto paint shop that pumps low-quality paint jobs out for insurance work. We work on the best, the classics, exotics, street rods, show cars, and race cars. We are a one-stop automotive customization shop that does everything you need to build or restore the ride of your dreams under one roof.

If you're looking to restore your ride to its former glory, we can source even the hardest parts you need, rebuild and customize your body panels, hoods, doors, and trim and top it off with a killer custom paint job that will last for years to come. We offer expert auto body shop and car paint shop services for Phoenix, Tempe, Scottsdale, Mesa, Glendale, Gilbert, Chandler and surrounding areas in Arizona. Contact us now for a custom quote!

Request Quote

Custom Paint & Auto Body Services

As a full-service auto body shop, Apex Customs can tackle any project you have for your car, truck, or SUV. From custom builds to aftermarket parts painting and full collision repair, our expert paint and body technicians are ready to tackle any job you bring us. Our Phoenix and Tempe Arizona custom auto body shops were designed with the custom build in mind ensuring your car, truck, or SUV is repaired, prepped, painted, and detailed to the highest standards.

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Auto Painting

Automotive painting is an art that requires years of experience, a steady hand, and a keen eye for detail. At Apex we specialize in custom paint jobs on exotic and high-end vehicles that require more skill and attention to detail than the standard auto body repair shop. Our expert painters and technicians have the skill and experience to ensure your car, truck, or SUV will receive the white glove treatment. When working on exotic sports cars, classic car restorations, and custom car builds, we understand the need for perfection.

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Auto Body Repair & Restoration

No matter how good the paint job is on your vehicle, if the body panels underneath are not repaired and prepped to the highest standards, the end results will leave you disappointed. Apex Customs understands the importance of

perfection when it comes to building, repairing, and restoring every square inch of your vehicle's body. Every project we undertake ensures all rust is removed, body panels and structural components are restored to factory spec, panel gaps are fitted to factory spec, surfaces are sanded to a smooth flawless finish, and proper cleaning and preparation procedures are followed before the vehicle goes into the booth for paint.

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Wide Body Kits

Wide-body kits are one of the hottest looks on road these days. Serving both form and function, a wide body kit will take your ride from ordinary to extraordinary! Unfortunately many of the kits available on the market today simply don't look good without the expert touch of a professional paint and body shop. Many body kit manufacturers claim their kits will bolt right up, but more often than not every kit requires some tweaks and repairs to give your car that custom look with a factory fit. The auto body and paint experts at Apex will ensure your investment will look incredible for many years to come!

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Auto Parts Painting

Do you have an aftermarket part you need prepped, painted, and fitted? At Apex we have the skills and expertise to fit your aftermarket or custom built parts to your car, truck, or SUV ensuring they match your vehicle perfectly. We can modify, color match, and install any part you bring us ensuring the end result is something you will be proud to drive or take to the next car meet. Hoods, spoilers, body kits, trunks, trim, you name it and we can paint it!

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Collision Repair

At Apex Customs, our Phoenix and Tempe body shops are capable of full collision repair. While we specialize in custom cars, we've completed hundreds of standard insurance claim collision repairs. If your custom or exotic car, truck, or SUV was recently involved in an accident, what better place to have your vehicle repaired than a shop with the capabilities to also to upholstery, vinyl wrap, car audio, engine performance, wheels and tires, suspension, and more! We specialize in aftermarket and custom products so if your vehicle requires a special touch and advanced aftermarket parts expertise then look no further than Apex Customs!

Request Quote  
#tempeautobody

Comparing Car Paint Jobs

Cheap vs Expensive Automotive Painting

If you're looking for a high-quality paint job that will look fantastic and last for the life of the vehicle, then you may be in for sticker shock. It's important to understand the differences between cheap and expensive paint jobs when you are evaluating your next project and budget. While the \$900 Maaco special may be appealing to the pocketbook when you see the final results you're going to regret skimping on such an important aspect of your custom project.

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Paint Quality

Paint is expensive, especially high-quality paint with the latest technology that is designed to survive the demanding environmental and road contaminants as well as the hot Arizona sun. Shops offering low-cost paint jobs typically use an inexpensive synthetic enamel economy paint, typically sourced from China. While economy paint may cover well, create a decent looking base color, and even have an acceptable glossy look, they will only last a few years and are prone to chipping and peeling in a very short amount of time.

At Apex Customs we only use the highest quality paint available on the market. We balance cost with durability, finish, color stability, and environment friendliness. When we spray a car, we ensure it is done right the first time so your investment will last and display its brilliant colors for many years to come.

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Proper Prep

As the old military adage goes, "Proper Planning and Preparation Prevents Piss Poor Performance". When it comes to automotive paint, preparation is the cornerstone to a final product that will not only look fantastic but will last for many years to come. Paint prep includes many hours of cutting, sanding, priming, and cleaning. A minor imperfection on the body of the car will stick out like a sore thumb once the color has been applied to the surface. Discount paint shops often skimp and take shortcuts on the many hours paint preparation in an effort to move more cars through their shop at a faster rate. Quantity over quality is the business model of a body shop selling you \$1,000 paint jobs. This results in a lackluster final product that will leave you disappointed and often require the entire job be redone a year later.

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Multiple Layers

If you've ever spray painted a car part or even painted the wall of your bedroom, you can appreciate the importance of multiple layers of paint. Thin paint layers are prone to color fading, chipping, scratches, and lower color density and luster. A discount paint shop will do a light sanding to rough the surface and then spray one or two color layers followed by a clear coat. A high-quality auto paint shop, on the other hand, will sand the vehicle down to bare metal, correct any blemishes to the bodywork and apply as many as 20 to 24 layers of paint and 6 to 8 layers of clear coat. This approach provides a lasting finish that will provide deep color tones protected by a durable protective finish.

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Missing Surfaces

If you've ever spray painted a car part or even painted the wall of your Discount paint shops rarely include key areas of the car when bidding your paint job. The most difficult areas of a vehicle to paint are the door jams, under the hood and trunk lid, under the trim panels, under the factory emblems, and in the engine bay. To paint these areas requires parts be carefully removed and expertly masked



off to avoid overspray. These areas are particularly important to mask, prep, sand, and spray if your paint project includes a color change. There is nothing worse than a red car with yellow door jambs!

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Prevent Overspray

In an effort to speed up the paint process, discount paint shops often skimp on their masking skills. Proper masking of a vehicle before spraying is critical to prevent paint overspray in areas you don't want paint. Masking is a time-consuming process which requires patience and care to ensure the seams don't fail while in the paint booth. There is nothing worse than ending up with paint overspray in your car's interior or on that 10,000 supercharger!

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Color Matching

Today's modern vehicles offer a variety of specialized and metallic colors which require advanced skill and expertise to match. The advanced equipment used for modern paint jobs is expensive and not always accurate. Even if you have a factory paint code, years of sun fading and exposure to the elements will alter the color of the paint the came with your vehicle off the factory line. To properly color match factory and prior custom paint jobs requires years of expertise, panel testing, and an expert eye. Many discount body shops simply don't invest the time and care into ensuring the newly painted panels match your vehicle's existing paint.

Request Quote  
#phoenixautobody

The Car Painting Process

Step By Step

At Apex Customs it's important our customers are informed about the process for every service we offer. Whether you bring your ride to us for a professional paint job or are just looking for some tips on how to paint your car in your garage, here is a general overview of the steps involved in the process.

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Kill the Rust

The first step in any automotive paint job is to ensure you have a solid, rust-free foundation to work from. Rust is the process of steel oxidizing which generally occurs with unprotected bare metal is exposed to water. Salt also plays a significant factor in the rusting process. Salty wet roads with quickly turn sheet metal into swiss cheese.

Rust, if not addressed, will eat away at your vehicle's frame and body. The most effective and recommended method of addressing rust is to completely cut it out and replace the removed rusty panels with new sheet metal using various welding techniques. If the rust is not removed, it will cause ugly bubbling under your new paint job.

If the rust is minor, there are some liquid rust inhibitor products that can be used to prevent the rust from spreading. The main ingredient of a rust inhibitor is phosphoric acid which will convert the iron oxide (rust) into iron phosphate effectively stopping the oxidation process.

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Straighten the Panels

Straightening the panels is the most time-consuming part of the automotive painting process. While you may be tempted to cut corners and move onto the fun part of painting quicker, don't. Taking the time to ensure every inch of the body is straight and smooth and the gaps between doors, fenders, and hoods will result in a pristine final result that you will admire for years to come. This is the step where you'll eliminate any dents, deep scratches, and uneven surfaces.

While some panels can be straightened with a hammer and dolly, most of the panels on your vehicle will require body filler. Perfecting your body filler application is the most tedious and time-consuming step in the process. It will require spreading body filler, waiting for it to cure, sanding, and repeating the process several times until you have a perfectly straight and smooth surface. While the first couple of layers of body filler can be sanded with a power sander, make sure you move onto hand block sanding for the final layers.

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Blocking

Block Sanding is the most critical step in ensuring straight panels on your car. A block is used in order to distribute your hand's pressure evenly across the panel. If you try to finish sand without a block, you'll end up with finger grooves across the panel. This will result in a wavy panel with peaks and valleys which will leave you with an undesirable final product.

Blocking generally begins with a course sandpaper of around 180-grit in order to knock down the high spots. Follow the 180-grit with progressively finer sandpaper until the panels are smooth and straight. A pro tip is to not look for straightness in your panel, rather feel for straightness with your hand. "If you can feel it, it will show in the paint".

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Mask

Now that you've prepped the vehicle with plenty of elbow grease and patience, the next step is to mask and tape off every surface of the car that will get painted. This is another critical step which ensures you don't end up with overspray on your windshield, motor, dashboard, and leather seats!

Before you begin masking and taping, make sure to wipe down the entire surface of the car to remove all dust and contaminants that may lead to your masking seams and lines to fail while you're spraying. While you may be tempted to use that old stack of newspapers for masking, spend the few extra dollars to get some legitimate masking paper. Newspaper is porous and will allow paint, especially clearcoats, to bleed through onto the glass and trim underneath.

Another pro tip is to invest in a high-grade masking tape from manufacturers like

3M. Cheap masking tape will allow paint to bleed through and a generally manufactured with a low-grade adhesive which leaves a sticky residue when removed. Cheap masking tape can also be extremely challenging to remove as it is thin and tears easily.

Before moving onto the next step, take the time to ensure that every possible crevice, panel, and glass that you don't want paint on is well covered and secure from overspray.

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Prime

Now that your rust is removed, panels are straight, and the vehicle is masked off, it's time to prime! A paint primer will protect the metal by sealing the car and its bodywork from the paint above ensuring your paint will have a smooth, consistent surface to bond to. The primer also ensures the different colors of metal, primer, and filler won't cause any color variations in your base color. You want to start with a smooth and consistent color surface before applying your base color. The best primer is a two-part urethane surfacer.

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Choosing Your Paint

There are two basic categories of automotive paint, single stage and two stage or base/clear. In a single stage paint, all of the paint's pigment, additives, and ultraviolet protection are combined into one can and applied to the car. This method is commonly used on budget paint jobs and does work well if you're looking for a quick lower quality paint surface.

A two-stage paint is the preferred method for high-end automotive paint jobs and involves spraying a base color coat followed by a second clear coat. The two-stage paint has distinct advantages such as protecting the underlying color pigment by adding ultraviolet blockers in the clearcoat. Additionally, a two-stage paint application has superior luster. By applying a clear coat over the base coat, the end paint job has a shinier appearance and is thicker making the paint more durable and less prone to rock chips and door dings.

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Mix and Spray

There are two different styles of paint guns used to apply auto paint. One is the classic can-style where the paint is held in a can under the gun. The second is referred to as an HVLP (high volume low pressure). The HVLP uses less air pressure which results in less waste and overspray. Regardless of the paint gun style you choose, make sure your air system has a water and oil separator as well as a pressure regulator. There is nothing worse than water condensation entering your airline and ruining your entire paint job requiring you to start all over again from square one!

The actual process of spraying the paint can take some practice. Using a smooth, consistent sweeping motion you want to apply the paint in a manner that avoids high spots and paint runs. An experienced painter will know just how thick to apply the paint, which areas are more prone to fish eyes and runs, and will adjust his technique appropriately. As an inexperienced painter, your first step

should be to read the MSDS of your paint to give you a gauge of how the paint was manufactured to be applied. Experience is key to a consistent result and while some incredible DIY auto paint jobs have come out of garages, it's important to remember that patience and practice may be required to get the results you're hoping for.

Professional paint jobs are done in a controlled environment with expensive professional grade equipment and paint booths. Paint booths control the environmental factors from dust and lighting to climate temperature and humidity. As a DIY painter, don't get down on yourself if your results don't come out looking like the pro, it's difficult to match years of experience and a \$100,000 paint booth!

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Protect

Once you've completed the paint application and you've allowed sufficient time for your paint and clear coats to cure, the next step is to finish off the top layer with some 2000 grit wet sanding followed by a solid buff and polish. Expect to spend a good amount of time really bringing out the luster of your paint job by polishing that top layer.

Now that you have your new paint job gleaming like glass, we recommend protecting your new paint job with either a wax compound or even better, a ceramic coating. A ceramic coating such as Ceramic Pro, is a polymer coating that will protect all of your hard work from even the harshest of elements. After you've invested the time in money in a new paint job, it's worth its weight in gold to take this one extra step to protect your investment.

#customautopaint

Paint & Body Q&A

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How difficult is it to color match my existing paint?

New cars, trucks, and SUVs come from the factory with a paint code printed on a label which is generally located underneath the hood or in the sill of the door. This code is used to specifically identify the manufacturer color that was used at the factory when the vehicle was made. This code works great if your vehicle matches the original color exactly. However, this code is generally just a starting point as there are often slight variations of color during the manufacturing process and the color of your car is subject to changing slightly over the years.

When your vehicle is not a perfect match to the color code, our paint technicians will perform a process called "tinting". Tinting is basically varying the paint mixture of various color pigments until a match is found. In some cases, tinting is not enough to get a close enough match. In those cases, the paint tech will use a blending technique which entails applying small amounts of the new paint color to the panels around the main area to be painted. Proper blending can make the difference between a great match and an invisible repair.

Obtaining a proper paint match requires a high level of skill and a great deal of

patience. At Apex Customs, our technicians are certified by the paint manufacturers to use their advanced computerized paint matching systems.

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How long does a custom automotive paint job or body repair take?

Because every vehicle and every project is unique, there is no standard time period for a paint and body project. The length of time is generally dependent upon the extent of any damage, the scope of the project (a hood vs an entire car), if there are any custom aftermarket parts being added, and how many coats of paint you are looking to get. When it comes to complete custom jobs, you should expect your vehicle to be in the shop for an extended period of time.

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How much does a custom paint job cost?

The costs involved in custom paint and body projects are entirely depended upon the condition of your vehicle, the type of vehicle, and the scope of the project. While we typically can give some very general pricing estimates over the phone, the best way to get an accurate quote is to bring your vehicle down to our Tempe body shop and have our technicians take a look at the car and discuss your project.

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Are you able to do body and paint insurance work?

Apex Customs is fully capable of performing paint and auto body repairs for insurance claims. We have worked with a variety of insurance companies for collision repair. Talk to your insurance agent to verify they will cover our services. If you need any assistance with your insurance agent, don't hesitate to contact us!

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Do you offer rental cars?

Yes, Apex Customs has a contract with Enterprise car rental to provide rental cars to our clients. The cost involved is depended upon the size and scope of your project. Generally, for larger projects, we offer a complimentary car rental while we are working on your vehicle. Please contact our sales department for more details.

AUTOMOTIVE SUSPENSION

TEMPE, AZ | PHOENIX, AZ

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Performance Suspension

Lift your truck, drop your car!

Apex is your one stop solution for automotive suspensions. Whether you're looking to drop your car for better handling and an enhanced look, or lift your truck so

you can climb over rocks and trees and add that aggressive look, we've got you covered! At Apex Customs Phoenix our expert technicians understand that every suspension package is unique depending on it's intended application. We will build the automotive suspension package that works best for your ride and intended application.

Suspensions are one of the best mods you can make to your ride. Not only do they offer a unique look, but they will improve the handling, capabilities, and value of your car, truck, or SUV. There are several components to consider when you're looking to improve the performance and look of your vehicle, at Apex Custom Phoenix we can install, upgrade, and swap any performance suspension component you need. From full lift or lowering kits, to upgraded sway bars, bushings, and shocks, we can source the best components for your vehicle and application, install the parts, and tune the suspensions performance.

Offering performance suspension installation services for Phoenix, Scottsdale, Mesa, Tempe, Gilbert, Glendale, Chandler and surrounding areas in Arizona.

### Suspension Services

Car Lowering  
Truck Lifts  
Jeep Lifts  
Performance Strut Bars  
Performance Sway Bars  
Performance Shocks  
Polyurethane Bushings  
Request Quote  
#trucklift

### Performance Suspension Services

Give your car better handling by lowering the suspension or give your truck that aggressive look by raising the suspension. Lowering will also help eliminate unsightly factory wheel gap and helps improve your cars handling and ride characteristics. Lifting will allow your truck to tackle deep puddles or climb big ass rocks. At Apex we can provide the suspension service you're looking for. Here are a few of our most popular performance suspension services:

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Car Lowering Service

If you're looking to lower your car for better performance handling and improved looks, then you've come to the right place. Our expert technicians can install the lowering kit of your choice, swap out your factory suspension parts for upgraded aftermarket components, and tune your ride height and suspension settings to your requirements.

From lowering springs to full race coilovers, we can handle any project you can throw at us. We'll help you pick out the best components for your application and provide recommendations on ride height and shock stiffness. With every suspension upgrade, our technicians will provide your car the white glove treatment.

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Truck & Jeep Lifting Service

Looking for a lift kit for your truck or SUV? Whether you're looking to eliminate the factory rake, or looking for a monster truck, Apex Customs has you covered. With over 30 years of experience, our technician has installed thousands of suspensions from Toyota pickups to Semi Trucks. We have the knowledge and expertise to ensure your lift kit is installed properly and safely so your investment will last for years to come.

From body lifts to full suspension makeovers, we can help you choose the best performing lift kit for your truck or SUV. We will swap out the OEM components for aftermarket performance suspension, tune the components so you get the most out of your investment, and provide you with the care and maintenance tips you need to keep your lifted ride in top condition for years to come.

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Sway Bar Upgrades

Do you want to take corners at full speed? Sway bar, also known as anti-roll bar, upgrades are a great performance addition to any car that has a need for speed. Aftermarket sway bars will reduce body roll and improve responsiveness of your ride. At Apex Customs Phoenix we can swap your puny stock sway bars for a set of thick bars that will give your car the edge from the highway to the track.

Our sales team will help you source the best roll-bar for your application and our skilled technicians will get it installed to spec. Eibach and Hotchkis is our brand of choice, but we can work with any brand you're looking for.

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Shock Upgrades

Shocks are a critical component to any performance suspension system. Whether you're looking to replace your factory shocks with their high-performance counterpart or just replacing OEM shocks to handle the demands of your new performance springs, Apex Customs Phoenix has you covered.

Our expert technicians will swap out your tired shocks for new performance dampers that will give your car, truck or SUV the edge on the highway or the raceway. Our sales team will help you source the best shocks for your vehicle's intended use, just give us a call today and we'll get you taken care of.

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Poly Bushing Swap

Bushings are a critical suspension component often overlooked by automotive enthusiasts. If you still have OEM suspension bushings on a killer aftermarket suspension, you're leaving performance enhancements on the table. Polyurethane bushings are inexpensive and can make a world of difference in the performance and responsiveness of your car, truck, or SUV's suspension.

At Apex Customs, we will swap your soft factory bushings with the best Poly bushings on the market. Our technicians have the skills and experience to ensure

your bushings are installed properly and your components are retorqued to spec.

Request Quote  
#carlowering

Car Lowering Q&A

Lowered Suspension Advantages and Disadvantages

There are pros and cons to lowered suspension systems. Some drivers change their suspension systems so that the vehicle sits lower to the ground. Any kind of aftermarket suspension system or alteration has its own specific effects on a vehicle.

**Better aerodynamics.** With a lowered suspension, there's less air going underneath the vehicle, and this can create a better outcome for wind drag on a car. That's why some sportier models sit a bit lower to the ground.

**Improved traction and handling.** In general, having the vehicle so low to the ground can increase the grip of the tires on the roadway and improve handling. However, this is not always the case, as lowering can in some instances cost handling issues.

**Reduced rollover risk.** When its center of gravity makes it a rollover risk, almost any vehicle benefits from lowering. The higher the vehicle sits, the easier it tips over.

**Greater comfort.** Some drivers report that they feel better with a lower suspension. Additional stiffness can be desired in a suspension, and this is one of the perks that some drivers mention after lowering their suspensions.

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Disadvantages of Lowered Suspension

**Increased bottoming out.** One of the most common problems with lowered suspensions is that the vehicle can more easily hit the road when it bounces. Speed bumps can also be problematic. Contact with the ground can cause parts of the underside of the car to be seriously damaged. The oil pan and exhaust system are particularly vulnerable.

**Uneven tire wear.** In some cases, a lower suspension can cause tires to wear unevenly, or cause extreme wear patterns. Drivers should look out for this consequence when altering their suspension in any way.

**Potential conflict with other parts.** An even more dangerous consequence of a lowered suspension occurs when elements of the suspension system come into contact with other vehicle systems. Low suspensions can get caught up in anti-lock brake apparatus, sway bars, or even with the sidewalls of the tires. An incorrectly set up suspension can actually chew on tires, causing some serious potential risks.

**Lifting and towing problems.** For those who like to use manual jacks to raise a vehicle for routine maintenance, lowering the suspension can make a simple job a lot harder. Think about your access needs before shifting your car's frame lower toward the ground.

All of these are important considerations for vehicle owners who want to mess around with the suspension system that came direct from the factory. Experts recommend paying extra for quality shock absorbers and other parts, and avoiding cheap aftermarket systems that can cause failure or other serious risks on the



road

Request Quote  
#slammed

Suspension Components

What You Need For A Performance Suspension

When it comes to modifying a vehicle, lowering suspension and ride height is often the first step many enthusiasts make.

For the best compromise between handling and looks, choose a kit that includes matched springs and shocks from the same manufacturer, with drops of no more than half an inch to an inch. This allows the spring rates to be increased with improved damping rates to match. Kits that include only lowering springs are cheap but will have spring rates close to factory rates to be compatible with the factory shocks. What this means is that your suspension is lowered and travel is reduced, yet there is no increased spring rate or damping force to prevent bottoming out of the shocks. In the case of a rally suspension or suspension that will be used on rough, uneven roads, lowering should be avoided at all costs with attention paid to increased damping and spring rates. Lowered suspensions tend to work best on smooth roads, while excessively rough roads and uneven surfaces require near-stock ride height to function properly.

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Strut Bar

Strut bars are an automotive suspension enhancement which is used with MacPherson strut and monocoque or unibody chassis cars. The strut bar provides added stiffness between the strut towers in order to tighten up suspension and reduce strut tower flex by tying the strut towers together. By tying the strut towers together, chassis flex will be reduced when a vehicle is cornering providing enhanced suspension performance. In order for a strut bar to be effective, it must be rigid throughout its entire length.

There are a number of aftermarket strut bars available for most cars, trucks, and SUV's on the market. An aftermarket performance strut bar is a relatively easy installation and is a relatively affordable way to tighten up your vehicles suspension and improve its cornering abilities without requiring expensive modifications to the stock suspension system.

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Sway Bars

Sway bars, also referred to as anti-roll bars and anti-sway bars, are the component of an automotive suspension that reduces the body roll during fast cornering. A sway bar connects the left and right wheels on a car, truck, or SUV together through short lever arms which are then linked by a torsion spring. The sway bar increases an automotive suspensions resistance to roll adding roll

stiffness.

The purpose of the anti-sway or anti-roll bar is to force each side of your car, truck, or SUV to rise and lower at similar heights which in turn reduces the sideways roll or tilting on the vehicle on curves, sharp corners, and large bumps. By upgrading your stock sway bars with larger aftermarket sway bars, you will stiffen the vehicles suspension and improve the cornering abilities. Improved cornering capabilities allows your vehicle to drive faster through corners which is especially helpful in an automotive race.

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Polyurethane Bushings

Suspension bushings are often overlooked by the automotive enthusiasts even though they are vital to your suspensions performance. By upgrading your stock suspension bushings to a polyurethane bushing, you can increase tire life, decrease the deflection in your suspension, increase responsiveness, reduce braking distance, and improve both performance and safety.

Polyurethane has been around for over thirty years however it wasn't until recent technological advances that polyurethane became such a powerful material of suspension bushings. Automotive suspension bushings are one of the most stressed components on a vehicle. They undergo incredible stress under the most arduous of conditions that have no lubrication or regular maintenance.

Standard car and truck bushings are manufactured from a rubber compound that is made out of natural materials that often become soft and pliable under stress. As the bushings become soft, their ability to handle cornering, bumps, and the stresses of regular driving are reduced and you end up with a poor performing suspension. Polyurethane on the other hand is engineered to handle the extreme stress or a performance vehicle that is pushed to the limits. Poly bushings can be made 25% to 30% stiffer than standard bushings while maintaining the same noise absorbing properties.

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Springs

Springs are a core component of automotive suspension, they support the weight of your vehicle which allows it to remain stable during rough driving conditions. Springs are able to expand and contract absorbing vibrations during dips and bumps while driving.

There are various types of springs used in automotive suspensions, coil springs and leaf springs are the most common. In addition to the standard coil and leaf springs, there are also air spring systems available which allow you to adjust the ride height of your car, truck or SUV. Coil springs are used in conjunction with shock absorbers to provide optimal handling, braking, bump damping, and an overall comfortable ride.

When it comes to improving your suspension with aftermarket parts, coil springs are usually replaced when you are either lowering or raising your car, truck, or SUV. Because lowering or lifting your vehicle changes the geometry of your suspension system, larger or shorter coil springs are required. When lowering your car, shorter springs mean less spring. As a result, lowering spring

manufacturers compensate for the shorter spring by adding thicker coils in a tighter pattern.

Even if you aren't looking to lower or lift your vehicle, you can also install aftermarket springs that offer a stiffer spring quality. By stiffening your springs, your vehicle will respond better while cornering and braking. The tradeoff to this performance enhancement is stiffer springs will result in reduced ride quality when driving over bumps or potholes.

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Coilovers

Coilovers are well known in the aftermarket suspension world. A coilover is really nothing more than a coil spring over a shock absorber. Other suspension applications such as leaf springs separate the shock absorber from the spring. One of the primary benefits of aftermarket coilover systems is they allow for adjustability of both the coil spring which changes your ride height as well as the shock absorber's stiffness. With an adjustable coilover system, you can change your vehicles suspension from sport mode or comfort mode depending on the application you're looking for.

Coilovers come in a range of sizes, shapes, and brands. Everything from a sleeve coilover to a full-bodied race coilover with separate oil canisters for ultimate adjustability and performance. Here are the common types of coilovers available in the aftermarket:

Coilover Sleeves  
Non-Shock Adjustable Coilovers  
Shock Adjustable Coilovers  
Shock Adjustable Coilovers with Camber Kit  
Coilover Systems vs Lowering Springs

Deciding the best route for your suspension upgrade can be a challenging task. Balancing driveability and performance is a tough decision because there are tradeoffs for either choice. If you're just looking for the improved look of a lowered car and not too concerned with the enhanced performance an aftermarket suspension offers, then a lowering spring is a good option. They are affordable and will add some enhanced performance simply by lowering the center of gravity of your car. However, if you're looking for a system that will provide true performance enhancements while also allowing for adjustability, a coilover system is the best option. Lowering springs have a pre-established drop, you purchase the spring kit based on how much of a drop you want. Once you install the springs the, the only way to change the drop is to install a different set of springs.

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End Links

The end links for the lowered suspension keeps several of the other components in place by securing the sway bar or anti-roll bar to the vehicles frame parts. Suspension end links provide a crucial role in the performance of your vehicle by minimizing the body lean of your car, truck, or SUV while cornering.

The common failure part of end links are the bushings at the ends of the links. If you're putting your vehicle through harsh driving conditions such as an

automotive race, aftermarket bushings will provide enhanced performance through their durable bushings and strengthened metal shafts. Additionally, if you are lifting your truck or SUV or lowering your car, adjustable or different sized sway bar links will be required to accommodate the change in suspension geometry.

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Shocks

Shock absorbers are another critical component to a vehicle's suspension system. Shock absorbers will absorb the up-and-down of a car, truck, or SUV whenever it hits a bump or pothole. Beyond just absorbing the impact, shock absorbers allow the vehicle to maintain maneuverability after it has encountered the change in surface area. Without shock absorbers, the car, truck, or SUV would continue to bounce on the coil springs after hitting a bump. Shock absorbers prevent the energy stored in the springs from being released to the vehicle. Springs alone are not shock absorbers as they only store, not absorb and distribute the energy.

Shock absorbers are made in one of two designs, either a twin tube or mono-tube. A mono-tube shock is manufactured with a single tube that is mounted in an upside down position which helps reduce the load of the absorbed energy. A twin tube shock by contrast, is manufactured with an inner tube and outer tube which work together to absorb the energy. Thanks to technology advancements, modern shock absorbers are fitted with velocity hydraulic damping devices to provide increased speed in the movement of the suspension in order to attain greater resistance. Hydraulic shocks provide a versatile product which can easily adapt to changing road conditions which reduce bounce, sway, acceleration squat and brake dive.

Aftermarket shock absorbers are a great enhancement to your automotive suspension system. The best aftermarket shocks will include adjustability settings that allow you to change the stiffness of the shock absorption. Stiffer responses in a shock absorber allow the car to recover quickly after a bump or pothole which provides improved performance.

Request Quote

#stance

Advantages of Lifting a Truck or SUV

A lift with monster tires is one of the coolest modifications you can make to a truck, Jeep, or SUV. There is something about raising an off-road vehicle a few inches higher that simply cannot be matched in the looks department not to mention the cool factor of driving a miniature monster truck.

Most truck and SUV owners enjoy a slightly higher truck that can fit larger tires. As a result, the aftermarket off-road industry has developed a variety of suspension lifting kits that can fit just about any truck or SUV. Most suspension lifts will raise your truck or SUV 2" to 5" for a lift that looks cool and adds towing ability while not making it undrivable. There are some off-road enthusiasts that like to push the limits by installing extreme lift kits to really give your truck or SUV that wow factor. At Apex Customs, we can install any aftermarket lift kit you desire. From simply body lifts, to full suspension lifts, our skilled technicians will have your truck climbing rocks in no time.

#### Car Suspension Phoenix Arizona-min

There are many potential advantages to installing a suspension or body lift to your truck or SUV. Here are a few advantages to take into consideration:

#### Car Suspension Phoenix Arizona (18)-min Larger Tires

When you install a lift kit on a truck or SUV, it raises the body panels of your vehicle which allow you to install larger wheels and tires. Larger wheels and tires not only look really cool, they also raise the lower chassis of the vehicle providing improved ground clearance. With stock suspensions, trucks and SUV's are required to run narrower and shorter tires that have non-aggressive tire grooves. When you lift your truck or SUV, not only can you add larger diameter tires, it also allows you to install wider tires with more aggressive tire grooves than can handle rain, mud, and snow more effectively.

#### Car Suspension Phoenix Arizona (9)-min Improved Off Road Driving

There is no better way to improve the off-road capabilities of your truck or SUV than a suspension and/or body lift. Lifting your truck pays back in dividends when you're facing deep ruts or large rocks out on the trail. The added ground clearance, increased suspension travel, and ability to add larger tires provides your truck with the capability to drive over and through deep ruts and puddles, large rocks, fallen debris, and through even the thickest of mud holes.

#### Car Suspension Phoenix Arizona (14)-min Additional Ground Clearance

The most obvious advantage of a truck or SUV suspension lift is the added ground clearance. When you raise the suspension of your vehicle, it allows you to put larger wheels and tires on the truck which in turn lifts the entire chassis giving you more ground clearance. In addition, the suspension lift will raise the body panels higher off the ground and provide more suspension travel distance.

By adding ground clearance to your truck or SUV, it allows you to travel over rough paths and roads that have potholes and road debris as well as snow and mud. For the off-road enthusiast, extra ground clearance is especially useful to be able to travel over rocks and trail debris.

#### Car Suspension Phoenix Arizona (19)-min Enhanced Towing Ability

Another often overlooked advantage of an SUV or truck suspension lift is increased towing capacity. A lifted truck will provide a better weight advantage and safety margin over the vehicle you are towing. These towing capacity improvements are only a reference to a truck or SUV that is mildly lifted truck, we do not recommend trying to tow anything with an extreme suspension lift.

#### Car Suspension Phoenix Arizona (15)-min Improved Visibility

By lifting your SUV or truck, it will improve your driving visibility by increasing your viewing angle over the vehicles around you. When you are able to

see above the cars and trucks around you, it improves the safety while driving allowing you to avoid dangerous situations and maneuver around them. Lifting your truck or SUV provides leverage over the smaller vehicles around you including large trucks like Semi's and delivery trucks.

Car Suspension Phoenix Arizona (4)-min  
Easier and Safer Driving in Bad Weather Conditions

A suspension lift on your truck or SUV provides superior drivability during bad road conditions. Whether you're facing heavy rain, flooding, or snow and ice, a lifted truck will plow through the rough conditions and get you home safely. Riding higher is helpful for impassable roads because the improved ground clearance and larger tires allow you to drive over deep puddles or snow drifts.

Request Quote  
#liftedjeep

Aftermarket Suspension Q&A

Suspension Phoenix (1)  
Why is the rear of my truck higher than the front?

Most trucks and SUVs these days come with a slight rake from the factory. Typically they sit two to three inches higher in the rear when unloaded to prevent the rear from being too low when they are fully loaded. For most automotive enthusiasts, towing capacity and load are not as much of a priority as tire clearance, appearance, or performance. Most clients are looking to level the rake when they choose an aftermarket lift so your truck or SUV appears level in the front and rear.

Suspension Phoenix AZ (7)-min  
Is an alignment required after installing a lift or lowering your car?

Yes, we always recommend having an alignment done to your vehicle after you do a suspension upgrade, especially when you are swapping out multiple components like a lift or lowering kit. We don't offer alignments at Apex because we don't have the equipment, however we can recommend several reputable shops that can complete the alignment after the suspension has been installed.

Suspension Phoenix AZ (3)-min  
How will a lift or lowering kit impact my vehicle's warranty?

Thanks to the Specialty Equipment Market Association (SEMA), an organization which works on behalf of the aftermarket automotive industry, there is a list of rights regarding vehicle manufacturer warranties and aftermarket equipment. For a Car, Truck, or SUV manufacturer to refuse a warranty claim, it is up to the dealership to prove that aftermarket parts are what caused the issue with the vehicle. More information can be obtained on the SEMA Action Network's website: <http://www.semasan.com>

Truck Lifts Phoenix AZ (1)-min  
How will a lift or lowering kit impact my vehicles stability?

When you lift your truck or SUV or lower your car, you are changing the center of

gravity the vehicle manufacturer intended for the vehicle. As a result, there will be changes to the vehicles stability. For car lowering kits, you can typically expect an improvement in your cars stability thanks to the lower center of gravity. When you lift your truck or SUV you can generally expect the stability to be reduced due to the higher center of gravity. There are cases when you can actually improve the stability of your truck or SUV if you install a moderate lift kit combined with taller and wider wheels.

Suspension Phoenix AZ (5)-min

Should I consider changing my vehicle's axle gears with my lift or lowering kit?

When you change the tire size on your car, truck, or SUV, it will have an impact on your vehicle's gear ratios which has a corresponding impact on performance, fuel economy, and even your speedometer. There is no single, simple answer to when you need to swap out your axle gears. A general rule of thumb for lifted vehicles is you can satisfactorily run up to 35" tires with factory gearing. The lower the gear ratio on your factory truck the better. Lowered cars generally don't need gear swaps unless you are looking for a racing application. There are a variety of aftermarket options for gear swaps for most vehicles if it's something you are interested in.

Truck Lifts Phoenix AZ (2)-min

How will a truck or SUV lift impact my driveshaft?

Most aftermarket lift kit incorporates driveline corrections into the kit. The suspension kits will include replacement springs and shims and rear lift blocks that address the change in driveshaft angle. In some applications, a relocated differential is required, it needs to be re-timed for proper angle and shaft spline engagement. Holes and lift block pins will be offset to address various shaft length concerns. If your lift is over 6", you may need to lengthen your driveshaft or added a driveshaft spacer.

Truck Lifts Phoenix AZ (4)-min

How much should I lift my truck?

Choosing your lift size comes down to a matter of preference. Generally a 2" to 3" lift is a good option for improved looks and performance without impacting the everyday drivability of your truck or SUV. When you lift the center of gravity on your truck or SUV will impact the stability of your vehicle if you go too high. Most people add a suspension lift in order to add larger tires. The size of tires you choose and the tire tread on the tires is a good guide for determining the size of lift you should go with. Another consideration is your budget, lift kits and installation can be expensive so be sure to understand the full cost of your lift before committing to the purchase.

VINYL GRAPHICS

TEMPE, AZ | PHOENIX, AZ

Sports Car 2

Business Graphics Wraps

## Business Marketing Redefined

Looking to promote your business? You've come to the right place! At Apex Customs we offer the most advanced vehicle graphics vinyl wraps in the industry. We specialize in the professional installation of vehicle wraps, automotive decals, vinyl graphics wraps, RV & Bus wraps, truck wraps, van wraps, graphic design, car wrap removal, and more. Our Phoenix vinyl graphics installers have years of experience and thousands of successful projects installing vehicle wraps on everything from cars, trucks, and vans to billboards, trailers, and food carts. Any vinyl project you bring us, we will complete it on time and on budget.

With our state of the art graphics printers, plotters, and vinyl equipment, we will create that head turning mobile billboard your business needs to draw in new clients. At our Phoenix vehicle wrap shop, we only put our reputation behind vinyl graphics products that we know from our years of experience and expertise in the vinyl wrap industry will deliver the reliability, durability, and performance you expect from a vehicle wrap project. We only offer 3M Graphics and Avery Dennison vinyl products on all our vinyl graphics installs. Avery Dennison and 3M Graphics are the industry leaders, they produce vinyl wrap that will consistently stand up to the elements to resist fading, cracking, and tears to keep your truck wrap looking as good as the day you drove off the lot.

We also offer fleet wraps and fleet decal kit services at competitive prices and industry-leading installation. From full van wraps to small auto decals, we've got you covered. We are a full-service graphics design and printing automotive graphics wrap company. Serving the Phoenix, Tempe, Scottsdale, Chandler, Mesa, and Gilbert Arizona areas. We are your one stop shop for anything vinyl graphics related.



## Vinyl Graphics Services

By advertising on your vehicle, you can generate more than 600 visual impressions for every mile driven, according to the American Trucking Association. Vehicle wraps will take your message mobile, turning your vehicles into rolling billboards that broadcast your brand message everywhere they go.

At our Arizona vehicle graphics wrap shop, we have the skills, expertise, and equipment to create an advertising wrap for your vehicle that will boost your customer base and spread your brand. Every vinyl graphics we create at Apex Customs offers a unique, captivating look which will instantly capture the attention of potential clients for your business.

Unlike our competitors, we've worked with some of the biggest name brands like Facebook, The Rolling Stones, the TV series Colony, the producers for the blockbuster Jurassic Park, and even the NFL. Our talented designers and certified installers can handle any car wrap job you bring them.

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Vinyl Graphics

Looking to add some custom graphics to your ride? At our Phoenix Vinyl Graphics shop, we can design, print, plot and install any custom graphic you want to add to your car, truck, SUV, or motorcycle. Automotive graphics are a great way to set your car apart from the competition. From race numbers and custom vinyl emblem overlays to full complete graphics wraps and everything in between, we have the equipment and expertise to turn your dream into a reality.

At Apex Customs Phoenix, we offer full-service vinyl graphics services. Our designers will work with you to develop a proof of concept down to the smallest detail. We can print and plot any size, shape, color, or graphic you are looking for. Our printers will print and plot your vinyl design and our certified vinyl installers will install your vinyl graphic on any surface you are looking to spruce up.

### Common Vinyl Graphics

Emblem Overlays

Racing Vinyl Numbers

Vinyl Logo Graphics

Custom Vinyl Text

Auto Decals

Vinyl Flames and Pinstriping

Vinyl Wall Art

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Car Wraps

Looking for a car graphics wrap? At our Phoenix vinyl car wrap shop, we can design, print, and install any custom vinyl car wrap you're looking for. Anything from custom pattern car wraps to business advertising wraps, we've got you covered.

There is no better way to advertise your business than to add a graphics wrap to your car. Not only will you increase the exposure of your business, adding a car

wrap can help to qualify your car as a tax write off so you can deduct all your car related expenses. Imagine how much exposure your business will get when every driver you pass in an average day catches a glimpse of your head turning car wrap design.

At our Phoenix Arizona car wrap shop, our expert designer, printers, and installers can turn any design idea you have into a reality. With our state of the art vinyl printing and plotting equipment, we can create anything from simple text lettering to complete vehicle graphics wraps.

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Van Wraps

Van wraps are one of the most common in the industry. If you have a service business, a vinyl graphics van wrap is a must! Whether you are just looking to get a single van wrapped or have an entire fleet that needs vinyl graphics, we've got you covered at our Phoenix van wrapping shop.

Van wraps not only advertise your business, they also add legitimacy to your business. When you pull up to a job, you want your clients to know they chose the best business for the job. With a stunning graphic van wrap, you'll set your business apart from the competition and show your potential customers that you put attention and detail into your work and understand quality service.

At our Phoenix van vinyl graphics shop, our talented designers will create a stunning design that sets your van fleet apart from the competition. Our certified installers will install the van wrap so that it not only looks professional and clean but will also last the full life of the vinyl so that you get the best return on your investment possible.

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Truck Wraps

Looking for a custom truck wrap that will set your truck apart from the competition? Whether you're looking for a truck advertising business wrap or a custom vinyl wrap pattern, we've got you covered at our Phoenix truck wrap shop. With our state of the art graphics printing equipment, expert designers, and certified vinyl installers, we can make your truck wrap vision a reality.

A custom truck wrap not only looks incredible it will also protect your truck's paint underneath. We can create business vehicle wraps that will sell your business to every vehicle you pass on the road. If you want a simple vinyl graphic that lists your business name and contact information, we can knock that out in a few hours. If you're looking for a full custom truck wrap, our installers will give your truck the white glove treatment and ensure that every corner is tucked properly and seam matched seamlessly.

At Apex Customs Phoenix, we can create any pattern you desire for your truck wrap. If you're looking for a camo look, we will create a design that no other truck on the planet has. If you want to sell your business, we'll create a graphic design that will turn heads and sell your expertise.

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Jeep Wraps

Does your Jeep need a new look? A Jeep wrap will give your offroad ride a custom look that nobody can match. At our Phoenix Jeep wrap shop, we've created some of the coolest graphics wraps to hit the pavement. Whether you're looking for a simple vehicle graphic to display your custom parts or more in the market for a complete custom graphics wrap, Apex Customs Phoenix will deliver exactly what you're looking for.

A custom Jeep wrap is an effective way to stand out from the crowd. If you run any kind of outdoor business, wrapping a jeep will surely catch the attention of your core customer base. Jeeps are the king of the off road, they make a statement that will define your brand. Adding a vinyl graphics wrap to your jeep will leave an impression that potential customers will remember.

At our Phoenix vinyl graphics wrap shop, we are experts at the entire vehicle wrap process. Our designers will work with you to create a design that will catch the attention of every person you pass on the road. We will work with you through several iterations of your design to ensure the final product is exactly what you're looking for. Once you sign off on the final graphic design, we'll send the design to our state of the art vinyl printing equipment that will produce rich colors in impressive detail. Next our vinyl installers will match each panel perfectly so your jeep will look like it came from the factory in an impressive custom design.

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SUV Graphics

Looking for some custom graphics for your SUV? At our Phoenix vinyl graphics shop, we can design, print and install any custom vinyl graphics or vehicle wrap you want for your SUV. An SUV wrap is one of the best ways to advertise your business while protecting your factory paint underneath. An SUV wrap offers you the flexibility to showcase your business with a creative and captivating design that will turn heads wherever you drive.

At Apex Customs Phoenix, our professional graphics designers will work with you to create the perfect graphic design to represent your business on the road. We'll make sure your vehicle vinyl graphic is a perfect representation of your brand down to the very last detail. After we get your sign off for the final graphic design, we'll send the file to our state of the art large scale printers to reproduce the design on large sheets of vinyl. Our installers will then install the printed vinyl wrap on your SUV so that each panel matches perfectly while ensuring every corner is tucked professionally and no bubbles exist in the final product.

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Trailer Wraps

Trailer wraps are one of the most common vinyl wraps in the industry. If you're pulling a large trailer without a wrap, you're missing out on the best advertising money can buy! At our Phoenix trailer wrap shop, we can vinyl wrap any trailer you bring us, large or small. A professional trailer vinyl wrap will grab the attention of every vehicle you pass. With that kind of exposure and attention, it's critical that your graphics wrap is done right.

At Apex Customs Phoenix, our professional designers will create a trailer graphics wrap that will catch eyes and turn heads to promote your brand with every mile you cross. Our Phoenix trailer business wrap shop has completed countless stunning wraps for some of the biggest brands in the world from the WWE to the NFL.. Our vinyl installers and graphic designers have the skills and expertise to ensure your trailer wrap is completed on time and on budget.

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#### Bus Wraps

If you have a bus, a vinyl wrap is a must! Bus wraps are one of the most common vinyl graphics application you'll see on the road. A bus is the perfect canvas for a large, mobile, business advertising vinyl wrap. A bus is hard to miss on the road, when you add a stunning custom bus vinyl wrap, you'll have eye's on your advertisement at stop light, highway, or city road your bus drives on. From musical artists to authors and politicians, we've designed and wrapped some of the best-looking tour buses in the industry. No luxury bus or semi is too big or too complicated for our skilled graphics wrapping team.

At our Phoenix bus wrap shop, we've done bus graphics wraps from some of the biggest names in the commercial market. From the NFL Super Bowl bus our certified vinyl installers completed to the entire bus fleet we wrapped for the local school district, our vinyl team has the tools and expertise you need to get the best-looking bus wrap money can buy.

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#### Vehicle Wraps

Do you have a custom vehicle that needs a design upgrade? At Apex Customs Phoenix, we can wrap any vehicle you bring us in any custom design you can dream up. We've worked on some cool custom vehicle wraps for movie studios to automotive enthusiasts. With our state of the art large format vinyl printing equipment, we can design, print, and install vehicle vinyl wraps both large and small.

When you purchase or build a custom vehicle, you'll need something to protect your investment from rust and the elements. Vinyl wrap is a perfect solution for a custom vehicle because you not only add protection of the metal underneath from the elements, but you can create any unique vehicle wrap design you want to match the custom look of your vehicle. Vinyl Wrap is also fully removable, so you can change the look and color anytime by simply removing the vinyl and installing a new vinyl wrap.

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#### Fleet Wraps

Fleet Vehicle wraps are a great way for your company to advertise for a fraction of the cost of other typical advertising mediums. Make the most of your advertising budget by turning your fleet into mobile billboards. At our Phoenix fleet wrap shop, we provide one stop solution for your local and national fleet wrap needs. Our talented designers will create a unique, head-turning design that will capture the attention of every vehicle you pass on the road. Our certified installers will ensure that your vehicle wrap is installed with perfection so that your potential clients know your business understands quality.

As a 3M Graphics and Avery Dennison certified shop, your fleet graphics investment will be backed by the best warranty in the fleet graphics market. We can wrap any fleet large or small. From a few service vans to an entire school district, we have completed some of the biggest fleet projects in the area.

Request Quote  
#vinylgraphics

## Graphics Wrap Vinyl

3M Series 1080 Scotchguard graphics vinyl wrap film is anything but ordinary. It is by definition, a cut above the rest with its distinctive appearance offered in a variety of finishes, textures, and colors. Each style offers a unique, captivating look which will instantly capture the attention of potential clients for your business. From business vinyl decals to full vehicle graphics wraps, 3M vinyl wrap will provide you the durability, appearance, and reliability you expect from your vinyl graphics investment.

3M is the leader in the vinyl wrapping business; they're passionate about offering you the most innovative automotive personalization products. Most importantly, 3M is the trusted brand offering vinyl wrap and vinyl decals to all the top suppliers and installers in the business. Anybody looking for the promise of quality, reliability, service and repair for a vehicle wrap trusts 3M to deliver the best vinyl's available.

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3M vinyl graphics wrap comes in a 3.5 MIL thickness on 60" wide rolls and features a long-term removable and repositionable pressure-activated adhesive with non-visible air release channels. Unlike cheaper vinyl films, 3M vinyl graphics offer 7-year outdoor performance with a 3 year vertical and 1 year horizontal warranty period. 3M's patented invisible air release channels assure a fast, easy, virtually bubble-free installation. Thanks to its protective coating, 3M vinyl graphics wraps don't require an overlamine which simplifies installation and reduces material cost.

Avery Dennison vinyl graphics film is the second biggest player in the vehicle graphics industry. Similar to 3M, Avery Dennison offers durable vinyl wrap that will stand up to the elements in a wide variety of colors, textures, and patterns. Avery's SW900 supreme car vehicle wrap offers the most vibrant and durable graphics to promote your business and brand your fleet.

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Avery Dennison vinyl wrap is available in a 3.2 MIL thickness and comes on 60" wide rolls. Avery Dennison vinyl is manufactured with a built-in protective clear coat that requires no overlamine. With its superior conformability for curved surfaces, corrugations, and rivets, Avery Dennison vinyl wrap has an EZ apply air egress and RS slide ability technology that makes it easy to install so you don't risk wasting material. The Easy Apply features allow for fast positioning with bubble-free installations and long term removability. It has outstanding outdoor performance and durability that will last up to 12 years in even the harshest elements.

No matter the job, boat wraps, vehicle graphics decals or business car wraps, 3M

and Avery Dennison covered with the best wrap in the industry that will provide you the vibrant colors, vehicle protection, and industry leading warranties for your investment.

Request Quote  
#busgraphicswrap

## Vehicle Graphics Process

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Step 1: Design

The first step in the vinyl graphics process is to create your design. The design is the most important component for a vehicle graphics wrap project to be successful. When you're driving around the city in your wrapped vehicle, you want to ensure that people see an accurate representation of your business and everything it has to offer. People have graphics fatigue in our modern world, they've become so accustomed to seeing graphics on the vehicles around them that you want to make sure you create a design that will stand out from competition.

At our Phoenix graphics wrap shop, we have a talented group of designers that will walk you through the design process. They will work closely with you to create the initial graphic design proof of concept. Our designers will then present the proof of concept for your vehicle wrap and then provide three rounds of design modifications to tweak the design exactly to your liking.

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Step 2: Print

The next step in the graphics wrap process is print. Once your design has been completed and signed off, we will send your design to our commercial grade printers that are specially designed to print rich colors down to the slightest detail on 60" wide rolls of vinyl wrap. For a full vehicle wrap, the graphics will come in several sheets of vinyl known as panels. These panels will later be expertly lined up on the vehicle during installation to make a complete vehicle wrap.

Vinyl Wrap (139)  
Step 3: Prep and Cleaning

In order to ensure the vinyl graphics have good adhesion to the vehicle, it is critical that we prep your vehicle's surface before applying the vinyl wrap. Step three in the vehicle graphics process is to wash, clean, and prep the surface of your paint. We'll start with a general wash to remove dirt, mud, salt, and road debris from your car, truck, van, or SUV. Next, we'll remove any hard stuck materials like tree sap or road tar. Finally, we'll wipe down the entire surface high and low with a vinyl prep cleaner and dry the paint with lint free chamois to make sure there are no left-over materials that could get stuck under the wrap.

Vinyl Wrap (121)  
Step 4: Installation

The final step in the graphics wrap process is the vinyl installation. Once the

design has been signed off, the vinyl panels printed, and the vehicle is cleaned and prepped, our certified vinyl installers will carefully match each printed vinyl panel on your vehicle and install the graphics one panel at a time. Each panel will be treated with the utmost care to ensure there are no bubbles or creases and every corner and edge is tucked in a way that will ensure it will stay in place.

Request Quote  
#vinylgraphics

### What Is Vinyl Graphics Wrapping?

Vinyl graphics wraps are the most innovative product in the business advertising industry. Often referred to as "advertising wraps" or "vehicle wrapping," vinyl graphics wrapping is the process of creating a business advertising graphic design and applying it to the paint surface of a car, truck, van, or SUV. The graphic design created for your advertising is printed on large sheets of pressure sensitive vinyl film which is then applied to each individual panel on the vehicle. The vinyl film is applied with precision and skill that can only be look professional when applied by highly trained and specialized staff.

During the graphics wrap process, the vinyl film will take the shape of a car panel that it's applied to. Our expert graphics installation will ensure no bubbles, creases or marks show up in the final product. The 3M and Avery Dennison vinyl wrap that we use for all of our graphics wraps, offers unmatched color depth and shine while offering your vehicle a distinctive look that will catch the attention of every person you pass on the streets. These premium vinyls are specially designed for use on cars, trucks, work vehicles and even motorcycles. The feature paint-safe adhesive, malleability, and air-release features that make installation on your car as safe as possible.

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Having your car vinyl graphics wrapped will completely change the appearance and visual styling of your vehicle while also protecting the factory paintwork from stone chips and fading. This presents a two-fold benefit for your graphics investment as you will retain the residual value of fleet vehicles while also getting excellent advertising exposure. Apex Customs Phoenix vinyl wraps are designed and applied to look like paint, so you will be hard pressed to notice it has been wrapped.

Using graphics vinyl wrap for your advertising is far superior to automotive paint, as the vinyl decals we install are not permanent. If down the line, you decide you want to upgrade your brand, change a phone number, or colors in your advertising, we can easily remove the vinyl wrap.

If your business is located in Phoenix, Scottsdale, Mesa, Tempe, Glendale, Gilbert, Chandler or surrounding areas and you're looking for a vehicle wrap to advertising your business, contact us now!

Request Quote  
#card decals

### Benefits of Vinyl Graphics Wrapping?

Vinyl graphics wrapping your service car, truck, van, or SUV is risk-free and features a host of benefits. Vehicle wraps offer a significant return on investment for your business as every vehicle and pedestrian you pass on the street will see your business services and contact information.

With vehicle graphics, you'll reach a larger audience more often than other forms of advertising. Vehicle wrap advertising can produce around 40,000 to 60,000 impressions a day.

Car graphics wraps will turn every traffic jam into a marketing opportunity. With van graphics wraps, your advertising will be mobile allowing you to position your mobile billboard anywhere around town and reach commuters and pedestrians of all ages, gender, background, income, and profession.

Companies who employ fleet wraps have reported boosts in name recognition up to 15 times greater than alternative advertising media.

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Advertising dollars will go farther. When you run an ad in the paper, your audience will only see it once. When you invest in television advertising, potential customers will only see it a few times. Vehicle graphics, on the other hand, will provide you advertising benefits for many years to come.

Vehicle graphics add legitimacy to your business. 75% of people say they have a more favorable opinion of a company if their service staff shows up in a branded vehicle. Truck wraps will make your business appear more established and successful when you have a high-quality wrap on the side of your fleet.

Van wraps create buzz and increase awareness of your brand. Almost 98% of Americans have been in a motor vehicle of some form in the past week. 91% of those people will notice truck wrap advertising. When potential customers believe the products being advertised are being consumed by their neighbors, they're more likely to purchase your goods and services.

Car wraps will bypass the restrictions and laws that govern traditional signage and billboards. There are a number of restrictions on the books in Arizona that dictate exactly where you can place advertising, how large it can be, and what can be included in the advertising. Truck wraps, on the other hand, don't carry any of those restrictions.

Vinyl wraps will protect your fleet vehicles from stone chips and abrasions. The vinyl graphics wrap will provide an unmatched layer of protection for your factory paint.

Vinyl graphics wrap is easily removed and will not cause damage to the paintwork when professionally removed.

Vinyl graphics wrap will preserve the original factory paintwork, this is especially beneficial if you leased your fleet vehicle and want to advertise your business to the public while you drive around the city.

A van advertising wrap will protect your business car, truck, van, or SUV residual value by adding paint protection from the elements and Arizona's blazing sun.

Vinyl graphics wrapping is substantially cheaper and will provide a greater return on investment over alternative advertising mediums like prime-time television advertising.

Warranties and/or lease agreements on your fleet vehicles will remain valid with vinyl graphics wrap, whereas re-painting a car, truck, or van will void factory automotive warranties and is not an option with a leased car, truck, or van.

Vinyl graphics car and truck wraps come in a wide variety of colors and patterns. 3M and Avery Dennison vinyl wrap offer a unique custom look that is almost impossible to reproduce with traditional paint. The 3M and Avery Dennison vinyl wrap selection includes matte, semi-gloss, gloss, brushed steel, carbon fiber,



metallic flake, matte metallic, chrome and even leather-like finishes. With a vinyl graphics wrap, expensive, color-matching paint fees are unnecessary for scratches or accident vehicles; just re-wrap the section that needs repair with a new sheet of vinyl.

Vinyl graphics wrapping your fleet vehicles will hide dings or scratches on your service vehicles while offering a “freshness” to the look of your vehicle.

Request Quote

#trailerwraps

## Vehicle Graphics Q&A

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What’s the best vehicle color as a base for a vinyl advertising wrap?

Although we can wrap any color vehicle, a black base works best for a vehicle graphics wrap. If you do have a vehicle other than black, we recommend choosing colors in your graphic design that will compliment that base color of your car, truck, or van.

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Will I be able to see through the vinyl graphics on my windows?

Any time we wrap windows on a car, truck, or van, we always recommend using perforated window film. Window Perf vinyl is vinyl with tiny holes which allow you to see through it. When looking out the window from inside the vehicle, you will get the same visibility you would get from regular window tint. From outside the vehicle graphics are visible and will look as they would on normal vinyl wrap. For safety, we never install vinyl graphic wrap on front windows or windshields.

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What’s the proper way to care for vehicle graphics wraps?

Caring for vinyl graphics is straight forward. Keep your vinyl wrap free of ice, salt, mud, and dirt as much as possible. These environmental debris can cause the vinyl laminate to peel or bubble in some cases. When it comes time to wash, use a mild detergent or vinyl graphic approved cleaner. Vinyl wrapped vehicles should be hand washed, you should always avoid automatic car washes.

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How long do vehicle vinyl graphics last?

A professionally installed and well cared for vinyl graphic can last up to seven years. If you properly care for your graphic wrap by washing it regularly with vinyl safe products and don’t over expose it to the elements, the color and detail on your vinyl graphic investment will provide you years of advertising exposure.

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What’s the difference between screen printed and digital graphics?

Unlike traditional screen printed graphics, digital graphics have the capability to replicate any type of picture and textural look. Digital graphics can even produce high-resolution photographs which are the perfect solution when you want

to create wraps that feature real photos and effects. Screen printing on the other hand, while cost-effective, has lower durability and color saturation. As a general rule, digital printing is the best solution when you want detailed, color rich, wraps.

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Do vehicle graphics wraps offer a good return on investment?

Vinyl graphics have one of the best return on investments of any dollar you spend on advertising. Vinyl graphics come at a reasonable cost and provide a high number of potential customer impressions. Every mile you drive, you'll pick up new customers! Vinyl graphics are also easily removable so any time you change your logo, services, or contact information, all you need to do is remove the vinyl and reinstall new a new graphic.

Vinyl graphic advertising can generate between 30,000 and 70,000 impressions per day per vehicle. Unlike Google ads, TV, or radio, vinyl graphics wrap is a one-time investment that will continue to pay for itself for many years. 3M conducted a study that found you would have to spend over \$130,000 on TV advertising to generate the same number of impression that you get from a single \$3,500 vehicle wrap.

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Do vinyl graphics damage factory paint?

No. When you use quality vinyl graphic materials, the vinyl can easily be removed without any damage to your factory paint. In fact, when properly installed, vinyl graphics will actually protect your paint helping to retain your vehicle's resale value. Vinyl graphics are the perfect solution for any graphics, decal, or sticker application you wish to apply to your vehicle.

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Is a vehicle vinyl graphics permanent?

A complete vinyl graphics wrap will typically last for 5-7 years depending on the material used and conditions in which the car is driven and stored. At the end of the vinyl graphics life, the film can easily be removed completely without leaving any adhesive residue, returning the car to its original color and condition.

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Are wrinkles, bubbles & seems acceptable for vinyl graphics?

Badly installed vinyl wraps will have wrinkles, bubbles, and seams. At Apex Customs Phoenix, our installers have the experience, training, and expertise to ensure your graphics wrap is installed without wrinkles and bubbles and any seams required are hidden. With large graphics installations that include complex curves may make it difficult to eliminate all seams however, our installers will take every precaution to finish your graphics job with as little as possible.

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Can I take my truck wrap through the car wash?

Most vehicle graphics wraps can be taken through car washes just like any painted

vehicle. However, like with many paint jobs, vehicle graphics can also be damaged by car washes. Take care around the exposed edges and seams of a wrap and ask your Apex Installer what they recommend to increase the life of your particular wrap.

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How long does it take to graphics wrap my vehicle?

Installation times vary according to the complexity of the project. A basic graphics wrap installation takes about 1-2 days. The design process can take several days depending on the complexity of your design and how quickly you respond to our designers iterations and questions. Due to the nature of the adhesive vinyl and the complex curves to which it's applied, we build in an extra 24 hours after the application to allow for the film to fully adhere to the vehicle.

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Do you cut on my car's paint when installing a vehicle graphic?

At Apex Customs we know how important your vehicle fleet is to the operation of your business, and we wouldn't do anything to put that at risk. Our certified professional installers employ a special technique called "BLADEAWAY" to protect your paint. We also use a product called Knifeless Tape which allows our installers to make precise edges on the painted surface without the use of a blade. The combination of these techniques will allow for the most intricate trimming with no harm to your car, truck, van, or SUV.

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Why is a full graphics wrap more beneficial than a partial vehicle wrap?

Full vehicle wraps cover most or all of the paint on a vehicle while partial wraps cover only part of the vehicle. Even though full wraps are more expensive, they protect all of the original paint underneath instead of just part of the paint. This is critical when the wrap is removed since fading and scratches can result on the unprotected paint of a partial wrap. As a result, full wraps tend to protect or even increase the resale value of vehicles more than partial wraps.

VINYL WRAP

TEMPE, AZ | PHOENIX, AZ

Sedan Car 7  
Vehicle Wraps

The Best Vinyl Wrap in the Business

At Apex Customs our certified installers are the best in the business when it comes to the professional installation of an automotive vinyl wrap. We can install vinyl wrap in any application, but our specialty is color change vinyl wraps, racing stripes, vinyl graphics, hood and roof vinyl wraps. Our installers have many years of experience working on everything from Semi Trucks to Ferrari's and Honda Civics. Whatever your vinyl wrap application is, we can deliver your

project on time and on budget without complication.

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Vinyl Wrap Services

Color Change Vinyl Wrap

Vinyl Racing Stripes

Vinyl Hood Wrap

Vinyl Roof Wrap

Vinyl Graphics

Vinyl Pinstripes

Side Mirror Vinyl Wrap

Vehicle Wraps

We only install top-rated vinyl wraps by Avery Dennison and 3M Graphics that are sourced directly from our authorized supplier. This helps us ensure that your vinyl wraps warranty will be fully enforced and stood behind the two largest companies in the vinyl wrap industry. It also helps us ensure that your vinyl wrap will look fantastic for many years to come and will hold up to the rigors of nature's elements. We want you to be satisfied with your investment and the most important element of that satisfaction starts with top quality vinyl wrap.

Before vinyl wrapping was introduced to the automotive industry, the only option for changing your car, truck, or SUV to a different color was to invest in an expensive paint job by a professional auto body shop. The re-paint process typically takes weeks, if not months, often degrades the resale value of your vehicle, and will typically cost upwards of \$10,000 for a quality professional job.

Request Quote

#paintisdead

Apex Vinyl Wrap Services

Vinyl Wrap (59)

Color Change Vinyl Wrap

Are you looking to change the color of your ride? Vinyl wrap is hands down the best option for a vehicle color change. When compared to other options for a vehicle color changes, vinyl wrap is more affordable, durable, and reliable and offers a range of color options that aren't available with any other product.

At Apex Customs Phoenix we specialize in car, truck, and SUV vinyl wraps. Our installers have years of experience and thousands of vinyl wraps under their belt to provide your car an unforgettable look. Our installers will ensure there are no bubbles, tears, streaks, or wrinkles in your wrap. We have perfected the ability to minimize seams, tuck corners properly, and prep your vehicle before the wrap so your investment will last.

Vinyl Wrap (56)

Vinyl Racing Stripes

There's no better return on investment for a sports car than a set of vinyl racing Stripes. Racing stripes turn a plain Jane ride into an aggressive beast in a matter of hours. Aftermarket racing stripes give you more options than the

standard factory stripes. Whatever you can imagine, our designers will make it happen. Single tone, single stripe, dual stripe, dual stripe with pinstripe accents, we've seen it all.

At Apex Customs Phoenix, our highly trained and experienced vinyl stripe installers will ensure your striping kit is installed with perfection. Racing stripes require skill and precision to get right. Unlike a full wrap, Racing Stripes have to be measured and laid with perfection so you don't end up with a crooked looking car or truck driving down the road. At Apex we have perfected striping kits so they are installed with accuracy giving your ride the aggressive look you've been dreaming of.

Vinyl Wrap (100)  
Vinyl Hood Wrap

If you're looking for that two-tone look, a vinyl hood wrap is a great option. Vinyl hood wraps offer a unique look that not many cars on the road offer. A great option for sun damaged hoods, a vinyl hood wrap is a quick, affordable solution to restore your car's original beauty.

At Apex Customs Phoenix, our installers have perfected the hood wrap. Hood wraps often require seams because the hood is larger than a single sheet of vinyl. A professionally installed hood wrap will look exactly like paint. The seams will be hidden in a way that nobody will be able to tell your hood is Vinyl Wrapped.

Vinyl Wrap (98)  
Vinyl Roof Wrap

Vinyl roof wraps are common in the Phoenix Metro area. The desert sun does a good number on paint and a vinyl wrapped roof is a great way to bring your car back to life. Whether you're looking for a two-toned look, a matching addition to your hood wrap, or hiding your sun damaged roof, a vinyl hood wrap is a great option to give your ride an edge.

At Apex Customs Phoenix, our professional installers can wrap your roof so that it looks like factory paint. Roof wraps can be notoriously difficult because they require a single large sheet of vinyl to be laid with perfection on the first run. On top of that, most modern roofs have antennas smack in the center of the clean sheet of vinyl. Inexperienced wrap shops and DIY'ers often run into a lot of issues with the antenna. You'll end up with seams and tears all around the antenna. Our installers will lay your roof wrap in such a way that you won't be able to tell it's been wrapped.

Vinyl Wrap (99)  
Vinyl Graphics

Whether you're looking for a simple emblem overlay or complete business wrap, Apex Customs has you covered. With our state of the art vinyl plotting and printing equipment and expert designers, we can turn your vehicle into a moving billboard or subtle custom ride.

Our installers and designers have wrapped semi trucks, buses, trucks, and even ice cream carts for clients from the NFL to the neighborhood corner store. Any vinyl graphics project you have in mind, we'll design, plot, print, and install

your next vehicle graphic.

Vinyl Wrap (96)  
Vinyl Pinstripes

Vinyl Pinstripes are making a comeback in a good way. With some professionally installed pinstripe accents, your ride can turn heads on every street your drive. Pinstriping can accent your car in a variety of ways. Whether you're looking to accent your racing stripes, add a subtle stripe down your side panels, or accent every edge of your car, we've got you covered.

Vinyl Pinstriping is an art on its own. At Apex Customs Phoenix, our installers have completed a number of projects that have become the talk of the town.

Vinyl Wrap (101)  
Side Mirror Vinyl Wrap

Need to add a little flair to your side mirrors or color match them to the color of the rest of your car? Vinyl wrapping your side mirrors is a great solution to spruce up those mirrors while also protecting them from the elements and road debris. Side mirrors are exposed to rocks and road debris more than most other parts on a car, truck, or SUV. It is common for side mirrors to end up with a rock of rock chips and paint damage, Vinyl Wrap can cover that damage or protect newer mirrors from receiving them in the first place.

Side mirrors are a challenging part to Vinyl Wrap properly. They have a complex shape that makes it exceptionally hard to apply flat vinyl wrap sheets to. At our Phoenix Vinyl Wrap shop, we have the skills and expertise to wrap your mirror in a way that makes it look like factory paint. We've wrapped hundreds of mirrors and you can rest assured that your mirror will look fantastic when the job is completed by Apex Customs Phoenix.

Request Quote  
#wrapnotdip

What is Vinyl Wrapping?

Vinyl wrapping, also commonly referred to as vehicle wrapping, is the process of applying pressure-sensitive sheets of vinyl, available in any color or finish, to your vehicle's painted surfaces by hand. Vinyl wrapping is one of the newest and most innovative products to hit the custom automotive world in years. It can be installed on everything from cars, trucks, and SUVs to boats, trailers, walk floors, furniture, and even electronics.

Vinyl Wrap (5)

Vinyl wrap is essentially a big sticker or decal that will change the color and finish of your car, truck, or SUV while at the same time protecting the factory paint from stone chips, scratches, and fading. Vehicle wraps are designed to be installed in such a way that it looks identical to car paint, therefore you won't be able to tell the difference between a wrapped car and a painted car. The primary difference between a vinyl wrap and traditional automotive paint is vinyl wrap is temporary so you can easily change the color and it won't ruin your

vehicle's residual value or warranties, it's more affordable, and it takes significantly less time to install.

Vehicle wrapping results in a protective vinyl covering over the surface of your vehicle that is 3-4 mils thick which keeps your factory paint job safe from road debris and weather elements. When you are ready to remove a vehicle wrap, you can peel the vinyl off the surface of your car and provided you use quality vinyl materials by 3M or Avery Dennison; your vehicle's factory paint will appear as it did the day you applied the vinyl wrap. Retaining your factory paint job is highly beneficial when you have a leased vehicle, or want to protect your car's paint to retain the residual value of the car, truck, or SUV when it's time to trade it in or sell it.

How is Vinyl Wrap Made?

Vinyl wrap films are made from a few basic raw materials the primary of which is polyvinylchloride (PVC) polymer. PVC polymer is a plastic that has a relatively rigid property. When making vinyl wrap, PVC is combined with a plasticizer to make the film flexible, pigment to create the desired color of the vinyl, heat stabilizers, fillers, processing aids, and special additives which help the vinyl to achieve its UV absorber characteristics to improve UV radiation resistance. The raw materials used in this process change range in their level of quality which will result in the vinyl wrap's durability rating.

Beyond just the raw materials used to manufacture vinyl wrap, the manufacturing process, as well as the type of plasticizer that is used to create the vinyl wrap, has the biggest impact on the vinyl's durability. There are two different processes that are used to manufacture vinyl wrap, casting and calendaring. Each of these processes results in a vastly different quality of vinyl film. In general, the casting process is the preferred method of manufacturing which results in higher quality films. The plasticizer grade used in the casting process is what determines the vinyl wrap's flexibility. For pressure-sensitive adhesive films, monomeric or polymeric plasticizers can be used. Polymeric plasticizer is considered the higher grade material where monomeric is the lower grade which is also cheaper.

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Benefits of Car Wrapping

Vinyl wrapping your car, truck, or SUV is not only risk-free, it provides numerous functional benefits over painting or dipping such as:

Vinyl wrap provides protection from stone chips, scratches, and abrasions to your vehicle's factory paint.

When high-quality vinyl wrap like 3M Graphics or Avery Dennison is used, it can be easily removed by a professional and not cause damage to your factory paint.

Vinyl wrap will preserve the original factory paintwork which is beneficial if your vehicle is leased and you want to add a custom look or you want to preserve

the factory paint to keep your car, truck, or SUVs residual value maintained. Vehicle wrapping is substantially cheaper than a traditional paint job. Car Wraps will not devalue the resale value of your car like a traditional paint job.

#### Vinyl Wrap (1)

Warranties and lease agreements remain valid with vinyl wrap unlike re-painting a car or truck which would void factory automotive warranties, put you in violation of your lease, and increase the cost of insurance.

When properly cared for and quality material is used, vinyl automotive wraps will wear as well as, or even better than traditional paint. Vehicle wraps will take a beating while protecting your car, truck, SUV or motorcycle's factory paint underneath.

Vinyl car, truck, and SUV wraps come in a wide variety of colors and patterns. 3M and Avery vinyl's offer a custom unique look that is almost impossible to reproduce with traditional paint. Avery and 3M both offer matte, semi-gloss, gloss, brushed steel, carbon fiber, metallic flake, matte metallic, chrome and even leather-like finishes.

With vinyl wrap, expensive, color-matching paint fees are unnecessary for scratches or accident vehicles. All you have to do when damage occurs is re-wrap the section that needs repair with a new sheet of vinyl.

When a car, truck or motorcycle is wrapped by our professionally trained installers, it is difficult to notice your car is wrapped and not painted. With our vinyl paint wrapping technique, the vinyl will literally look as if it was sprayed on.

With car and truck wraps, you can affordably customize parts of your car. You don't have to wrap your entire car; using vinyl on just your hood, roof, mirrors, or trim is a common request.

Matte paint jobs are brittle and can chip easily while matte vinyl wrap is durable and harder to scratch.

Vinyl wrapping your car or truck will hide dings or scratches while offering a "freshness" to the look of your vehicle.

Vinyl wraps look incredible, you'll be turning heads left and right with your newly wrapped car, truck, SUV or motorcycle.

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#vinylwrapped

#### Vinyl Wrap vs Dip

We get the question daily, should I vinyl wrap or dip my car? PlastiDip is considerably cheaper than vinyl wrap so if you're looking for a color change for your ride, why should you pony up the extra cash for a vehicle wrap? The short and sweet of it is vinyl wrap is a far superior product to PlastiDip when it comes to car, truck, or SUV color changes. In fact, our shop stopped offering full vehicle PlastiDips due to the constant issues we saw our customers experiencing with Plasti-Dip.

PlastiDip gets a lot of attention these days because it is cheaper and easier to apply than vinyl wrap. While Plasti-Dip is a great option for the DIY car enthusiast who wants to change the color of his 1995 Honda Civic, it is a terrible option if you are looking for a truly custom car that stands out from the crowd.



Here are a few reasons why vinyl wrap is superior to PlastiDip and worth the investment:

Vinyl Wrap (4)  
Vinyl Wrap (127)  
Longevity

In the best possible scenario, if you baby your PlastiDip and keep it out of the elements, it could last up to 3 years. Most likely, however, you'll be very lucky to get a year out of your investment. Vinyl wrap, on the other hand, can last up to 7 years or more.

Vinyl Wrap (119)  
Colors and Designs

While PlastiDip has been releasing a variety of cool colors and mixes, the color and pattern options are still limited when compared to vinyl wrap. Vehicle wraps offer a plethora of colors, textures, and finishes that Plasti-Dip simply can't match.

Vinyl Wrap (135)  
Durability

With PlastiDip you get what you pay for. When it comes to a vehicle that is exposed to harsh elements, chemicals from the road or gasoline spills when filling your tank, even bird droppings, PlastiDip just doesn't hold up. Plasti-Dip is easily damaged by any number of things your car comes into contact with and will look terrible in no time flat. We've had countless customers leave with a new PlastiDip ride only to return days later with chips, streaks, fading, bubbling, you name it. Vinyl wrap, on the other hand, stands up to its durability claims.

Vinyl Wrap (123)  
Ease of Removal

Removing PlastiDip from a trim piece or wheel is one thing, trying to remove Plasti-Dip from an entire vehicle is a whole different story. Peeling PlastiDip off an entire car is labor intensive and in most cases, you'll end up with scraps of Plasti-Dip in areas you will never be able to reach. Also to do it properly Plasti-Dip removal requires special chemicals which easily damage your factory paint if not carefully monitored. Vinyl wrap in contrast, is easy to remove in full sheets with little effort. You won't risk cracks and crevasses that you can't reach remaining full of rubber.

Vinyl Wrap (130)  
Attractiveness

Hands down a vehicle wrap just looks better than PlastiDip. Even with all the advancements in PlastiDip technology adding glosses and new colors, Plasti-Dip just doesn't compete with vinyl wrap in the looks department. PlastiDip is difficult to apply properly without your final product looking splotchy and inconsistent. It's difficult to get the spray pattern, timing, and layers just

right to result in a great looking end result. With Vinyl Wrap, on the other hand, you get exactly what you expect. With high-quality vinyl wrap materials like Avery Dennison and 3M and a professional installation, it's difficult to not end up with a fantastic looking final product.

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#laidnotsprayed

## Dangers & Pitfalls of Cheap Vinyl Wrap

### Why Use Avery & 3M

We've all asked the question, why should I spend \$800 in materials on 3M or Avery Dennison vinyl wrap when I can buy the same color and style on eBay for \$200? A plethora of Chinese manufactured vinyl wrap has become available on sites like Amazon and eBay as well as a host of discount vinyl wrap supplier websites. We're well aware of the cost difference, we get at least five sales calls and emails a week from manufacturers overseas trying to get us to carry their vinyl wrap. Unfortunately, the adage of "you get what you pay for" could not be truer when it comes to vinyl wrap.

### Vinyl Wrap (3)

It can be a difficult pill to swallow, spending considerably more money on vinyl wrap material for what seemingly is the same material. I mean it's just a big sticker, right? How different could the materials really be? The truth is you might as well flush that \$200 you dropped on a roll of vinyl wrap from a Chinese supplier right down the toilet. We've wrapped thousands of cars over the years and we can say with 100% confidence that it is not worth the time or money to wrap a vehicle with cheap vinyl wrap. Beyond the shortfall of the material, there is a real risk that you could be causing serious damage to your vehicle's paint job.

So why is cheap vinyl wrap such a bad investment? Here are a few key factors to consider:

### Vinyl Wrap (142)

#### Bubble, Bubbles, Bubbles

If you've ever tried to wrap something, you'll be able to appreciate how frustrating air bubbles are. Cheap vinyl wrap is breeding ground for air bubbles. 3M Graphics and Avery Dennison have both developed sophisticated air release channel technology built into their vinyl wrap which allows the vinyl to breathe during installation. The air release features are invisible to human eye and will save you countless hours of frustration when performing a vinyl installation. There is nothing more infuriating than lying the perfect piece of vinyl on a large panel only to discover an air bubble smack in the center!

### Vinyl Wrap (125)

#### Wrinkles

Wrinkles are the second most frustrating challenge to overcome when performing a vinyl wrap installation. Wrinkles will ruin a good piece of vinyl leading to waste, cause lifting of the wrapping material from the vehicle, and cause ugly ripples and distortions in your final product. 3M and Avery Dennison have both

developed vinyl wrap that is resistant to wrinkling and provides a thick enough material to reducing wrinkling effects. They also employ vastly superior heat capabilities which allow you to heat a piece of wrinkled vinyl wrap back into its original shape so it's still usable.

#### Vinyl Wrap (138) Cracking

Cheap vinyl wrap is notorious for cracking, especially when exposed to the harsh elements of the sun which Arizona has no shortage of. The materials used to manufacture cheap vinyl wrap will dry and crack under even mild sun exposure. This will leave your car, truck, or SUV looking cheap, old, and run down.

#### Vinyl Wrap (131) Tears and Ripples

When applying vinyl wrap, the goal is to get a tight stretch on the material to provide a smooth, glass like final product that looks exactly like paint. 3M and Avery Dennison vinyl wrap is developed using the cast method and employing materials that allow it to hold up to stretching and manipulation. This allows you to pull, stretch, and conform the material to the surface of the vehicle without risk of tears, ripples, and color distortion.

Cheap Vinyl Wrap on the other hand, is prone to tears and ripples the minute you try to stretch it to apply it to the surface of your vehicle. It is also notorious for tearing after you have applied the vinyl wrap. Imagine you finish your Vinyl Wrap job, step back to take in its beauty and watch in horror as the vinyl starts to tear and lift away from the vehicles surface.

#### Vinyl Wrap (140) Peeling

Cheap vinyl wrap is notorious for peeling both during the installation and well after the installation is complete. The adhesives used in cheap car wraps are a low tack material. It doesn't take long for a cheap vinyl wrap to start peeling at every seam and tuck point. Your vehicle wrap investment will look like a cheap knock-off job in no time.

#### Vinyl Wrap (94) Water Damage

The adhesives and materials used in the manufacturing of cheap vinyl wrap are highly prone to water damage. 3M Graphics and Avery Dennison have developed vinyl materials to stand up to years of abuse by the elements without damage. Cheap vinyl wrap, on the other hand, will dry out, lift, wrinkle, and tear the moment it is exposed to a good rain or snow.

#### Vinyl Wrap (128) Discoloration

Discoloration is one of the worst features you're buying with cheap vinyl wrap. A vinyl wrap installation requires the material to be stretched and heated in some cases multiple times. That cheap vinyl wrap may look great on the roll when you first receive it, however, the minute you stretch it or apply any heat to it, the

color will distort, discolor, and streak. 3M Graphics and Avery Dennison Vinyl Wrap, on the other hand, can be stretched, heated, re-stretched and heated again and it will retain its original color and texture.

#### Vinyl Wrap (129) Warranty

When all is said and done, it all really comes down to whether or not the manufacturer stands behind the products they produce and sell. There is nothing more infuriating than dropping a \$2,000 on the material and labor to install a vinyl wrap only to have the material discolor, fade, rip, tear, and fall off a few weeks later. At Apex Customs we only use 3M and Avery Dennison materials because we know they stand behind their products and back them with industry leading warranties.

#### Vinyl Wrap (1) Paint Damage

The most crucial pitfall to note about cheap vinyl wrap is the potential for serious damage to your vehicle's factory paint. Have you ever tried to remove a manufacturer's sticker from a new product that would just not come off? You grab a corner of the offending sticker and give it a yank only to have it tear into a million little pieces or just pull the top laminate layer off the sticker. After several minutes and a few choice words, you finally relent and pull out the goo-gone to let the citrus work its magic only to find that your efforts resulted in scratches all over the new shiny DVD player. Now imagine that amplified by a thousand across your entire vehicle.

The adhesives used in cheap vehicle wraps are similar to that horrible parking sticker that was slapped on your illegally parked car or that cheap UPC label on the DVD player from Walmart. Removing cheap vinyl wrap is not only an incredibly frustrating process, it will also commonly come off while still gripping a piece of your expensive paint job. Avery Dennison and 3M Graphics have gone to great lengths to develop safe release features into their vinyl wrap adhesive. These safe release features alone are worth every extra penny you spend on a professional quality vehicle wrap.

#### 3M-AD-1 Cast Vinyl Wrap

#### The Best Vinyl Wrap Available

Cast vinyl wrap is a process of making vinyl wrap that is similar to baking a cake. The vinyl wrap manufacturing during casting starts with a recipe of ingredients required to complete the process. The materials are combined and mixed in a giant bowl in a predetermined order and mixed at a specific speed for a specific time-period. The results in a consistent vinyl mixture which referred to an organosol. The organosol is then precisely cast onto a moving web material referred to as the casting sheet and sent through a series of ovens to evaporate the solvents in the mixture. As the solvents are evaporated, the resulting material is a solid film that is then wound up onto large-diameter rolls ready for adhesive. The type of casting web used determines the texture of the vinyl wrap film.

Once the vinyl film has completed the manufacturing process, the large sheets of vinyl are then rolled through a process to apply the adhesive which holds the vinyl wrap to the surface of the vehicle when applied. In the casting process, vinyl wrap is cast onto the sheet in a relaxed state which results in good dimensional stability. The casting process also allows the film to be thin which helps with the materials conformability properties that are important when wrapping vinyl over contoured surfaces. Cast vinyl wrap is the best material for use on cars, trucks, SUVs, recreation vehicles and boats where the goal is to have a finished product that has a paint-like surface.

#### Advantages of Cast Vinyl Wrap Film

Cast vinyl wrap films have the best durability due to the raw materials used and manufacturing process employed in making the film.

Cast vinyl films can be produced in very thin sheets which will help to produce a conformable product that makes application to surfaces with corrugations and complex curves possible.

Cast vinyl films typically maintain their color and UV properties better than other vinyl films.

The manufacturing process used when making cast films allows for small production runs of special colors.

Casting vinyl wrap results in low shrinkage because the casting sheet rather than the film itself is pulled through the machine. Because the film hasn't experienced stress from pulling during the manufacturing process, the film does not try to shrink back to its original form when installed.

Attribute	Cast Vinyl Wrap	Calendered Vinyl Wrap	Polymeric Vinyl Wrap
Durability	7+ Years	1-5 Years	3-7 Years
Conformability	Excellent	Good	Very Good
Stability	Excellent	Good	Very Good
Gloss	Variable	Good	Very Good
Color Range	Many	Many	Many
Product Variety	Many	Many	Many
Metallics	Many	Few	Few

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#automotivewrap

#### The Vinyl Wrap Process

##### Step By Step Guide ~ How To Vinyl Wrap

##### Vinyl Wrap (137)

##### Step 1: Approach / Inspecting Area / Removal of Vinyl Wrap

The first step in any quality install is good prep and a solid approach. To properly plan your projects, you must know how much vinyl is necessary to wrap the part. You will also want to try and remove anything that is blocking you from wrapping the surface entirely. Knowing how much vinyl you need, where tension areas are, issues with the paint, etc. are all important things to consider. Once you have all parts removed such as liners, moldings, handles, etc., it's time to

get cleaning!

Vinyl Wrap (139)

Step 2: Cleaning & Prep Prior to Vinyl Wrapping

A clean surface/product is by far the most important thing to consider when wrapping anything. Most surfaces can be cleaned by using a degreaser and then 70% Isopropyl Alcohol. You will want to make sure the surface that you are wrapping is smooth to the touch. You would think that the vinyl would cover chips, scratches, or dirt debris, but it doesn't. The vinyl contours to any area and if there are imperfections, they will be visible once the project is completed.

Vinyl Wrap (121)

Step 3: Vinyl Wrap Size & Measurements

Once everything is removed and the surface is cleaned, you will want to measure out a piece of vinyl that fits roughly 4-6 inches longer than the piece that you are wrapping. If you are skilled, you can trim the vinyl to a smaller size if you are looking to save money on the vinyl. For starters, it's easier to work with more vinyl than less. The vinyl comes in a 60" roll by 25 feet in length. Some companies will sell less material based on the project but the standard roll is 60" or 5 feet. Most panels on a vehicle are smaller than 60" but there are times when you have to cut multiple pieces for an oversized hood/roof/trunk.

Vinyl Wrap (120)

Step 4: Laying Vinyl Wrap

Double check that the surface is prepped and clear of dust and debris that might have been floating around while you were taking measurements. It's easiest to have a friend with clean hands help pull the backing off the vinyl, but you can also fold back one of the corners, tack the edge, and pull gently across the surface if you know what you are doing.

Once the backing is off, the adhesive will be tacky but not 100% tacky until pressure has been applied. For wide surfaces, it's preferred to work inside out. Trapped air is your enemy. So you will want to keep your edges lifted so that you aren't trapping air as you are squeegeeing. It is recommended that you hold the vinyl slightly off the surface as you run your squeegee across the surface.

Once you have all the air released and your vinyl is perfectly flat, test your work by taking a heat gun and go over the area that you just flattened. If any air is trapped, it will bubble and you can push the air out if the vinyl has air release. Heating before you make your cuts ensures that you can lift the vinyl off the vehicle if trapped air is too stubborn to release.

Vinyl Wrap (132)

Step 5: Cutting Vinyl Wrap

First thing to remember when making cuts is that the razor will slice thru paint very easily, so you want to watch your blade and put it away when not in use. When the vinyl is laid on the panel, you will want to trim the vinyl to fit the piece perfectly to the edge or enough to wrap behind it. When wrapping a body panel, you can use the outer edge of the body line to make the cut so there is roughly 1/4cm or so to tuck around the edge. This will ensure that you have

enough vinyl to cover the color underneath or in the cracks. Always keep the blade off the vehicle and only using the edge to run across but not slicing. Practicing on other parts before wrapping the body paint would be the best idea if you are unfamiliar with wrapping.

## Vinyl Wrap (124)

### Step 6: Tucking Vinyl Edges

After all the cuts are made, you will want to tuck all your edges. This process can make or break a wrap. There are a lot of people that can wrap a flat panel fast and efficiently, but they lack the quality in wrapping edges nicely. A proper edge shouldn't have wrinkles (fingers) and it shouldn't lift. If there is too much stretch or tension, the edges will fail.

## Vinyl Wrap (122)

### Step 7: Post Heat

The final step is a quality post heat over what you've just laid, cut, and tucked. Post heating the surface will make sure that there isn't too much tension on any area and will usually show you signs of failure by the vinyl curling up or failing. On deep pockets and contoured edges, a post heat will help to make sure that those areas don't pop when the wrap is exposed to the sun. Clean the surface after the post heat with some alcohol and inspect your panel!

## Request Quote

#vehiclewrap

## Vinyl Wrap Myths

There are a lot of rumors and myths floating around about vinyl wrap so we figured we would set the record straight. While we can't address every falsehood floating around the interwebs, we at least want to address the most frequent we hear from our clients.

### Myth 1: Vinyl Wrap Will Damage Your Paint

False. In reality, vinyl wrap helps protect your paint from the elements and road debris. Vinyl acts as a protective cover from the sun, ice, salt, dirt, and anything else your car comes into contact with on a daily basis. When quality vinyl wrap is used for your installation and uninstalled properly, your paint will look as good as the day you applied the wrap.

### Myth 2: Vinyl Wrapping is too Expensive

False. Vinyl wrap gets a bad wrap when compared to color change options like PlastiDip in the cost department, however, vehicle wrapping is a bargain when compared to traditional paint. Vinyl wrap is a far superior product to PlastiDip and worth every extra penny. A custom paint job will set you back in the \$10,000 range if you're lucky. Vinyl wrap, on the other hand, is more in the \$2,500 range and will help retain the residual value of your car by protecting the factory paint.

### Myth 3: Vinyl Wrap Does Not Last

False. When properly cared for a vinyl wrap can last up to seven years. PlastiDip, by comparison, has a max life of 2 years. Wraps are very similar to paint, if you take care of them, they will last. Most people that get a vinyl wrap want to change the color after a few years anyways, and the beauty of wrap is a color swap is as simple as pulling and laying a new color.

The lifespan of a vinyl wrap is depended on how it's used, the quality of vinyl material you use, and the location of where the car lives most of the time. If you live in the Phoenix sun and don't have a garage to hide your ride from the solar rays, your vehicle wrap won't last seven years. The same goes for paint which is a big reason why we get a lot of quote requests for hood and roof wraps at our Phoenix Arizona shop. However, if you have a garage, live in a cooler climate, and keep your wrap clean and maintained, then your vehicle wrap will last its full life span.

Another factor to keep in mind is the finish you choose for your vinyl wrap. A matte vinyl wrap is not going to last as long as a gloss vinyl which has a protective clear coat on the top layer of the vinyl material.

#### Myth 4: Vinyl Wrap is Difficult to Remove

False. When quality vinyl wrap material like 3M or Avery Dennison are used, and your vinyl is installed properly, vehicle wraps are very easy to remove without damage to your factory paint. While we always recommend vehicle wraps get removed by a trained professional, you can remove the vinyl yourself.

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#vinylwrapping

#### Vinyl Care Tips

3M Vinyl Care Tips  
Vinyl Wrap (136)  
Vinyl Wrap Washing

Hand Car Wash - When it's time to clean your vinyl wrapped car, truck, SUV or motorcycle, Apex recommends hand washing with quality automotive cleaning products. You can treat your wrap like paint, but AVOID using compounds and swirl/scratch removers at all costs.

Waterless Car Wash - Apex also recommends using a product like a waterless wash to maintain your cars vinyl wrap between major washes.

Vinyl Wrap (141)  
Vinyl Wrapping and Microfiber

Apex highly recommends using microfiber towels when cleaning and drying your vinyl wrapped car, truck, or motorcycle to prevent scratches to the vinyl wrap. Keep an extra microfiber towel lying around for the unexpected shine up!

Fold each microfiber towels in half twice before use on the vinyl. This will give you 8 clean pads to carry out your cleaning operation on your wrap.



Spray the first microfiber towel with a waterless car wash to pre-wet, and then lightly spray the surface of the vehicle's vinyl wrap to be cleaned. Clean only one section of the car, truck, or motorcycle at a time.

Wipe over the section of the vehicles vinyl wrapped surface with the microfiber towel pre-sprayed with the waterless car wash. Any motion circular or linear will work just fine.

Once you've applied the waterless car wash and gently covered the section of the vehicle simply grab a clean microfiber towel and gently buff off leaving a brilliant long lasting luster.

## Vinyl Wrap (52)

### Vinyl Wrap Automated Car Washes

Brush-type car or truck washes are NOT recommended on a vinyl wrapped vehicle as they can scratch the film, cause edges to lift or chip, and dull the film's appearance. Brushless car washes are acceptable for vinyl wrap.

## Vinyl Wrap (118)

### Vinyl Wrap and Pressure Washing

Although hand washing is the preferred cleaning method for vehicle wraps, pressure washing may be used only under these conditions.

Ensure the water pressure is kept below 2000 psi (14 MPa).

Keep water temperature below 80°C (180°F).

Use a spray nozzle with a 40-degree wide angle spray pattern.

Keep the nozzle at least 1 foot (300 mm) away from and perpendicular (at 90 degrees) to the car.

Important Note! Holding the nozzle of a pressure washer at an angle to the graphic may lift the edges of the film.

## Vinyl Wrap (133)

### Vinyl Wrapping & Difficult Contaminants

Often difficult contaminants on your vinyl wrap such as bug splatter, bird droppings, tree sap and similar contaminants by soaking them for several minutes with very hot, soapy water. Rinse your car, truck or motorcycle thoroughly and dry. If further cleaning is needed on the vinyl wrap, test one of these products in an inconspicuous area to ensure no damage to the wrap film: Meguiar's Gold Class Bug and Tar Remover or 3M Citrus Base Cleaner. Isopropyl alcohol (IPA) (two parts IPA to 1 part water) or denatured alcohol may also help. Spot clean the contaminants. Do not use rough scrubbing, dirty or abrasive tools, which will scratch the film. Wash and rinse off all residue on your vinyl wrapped vehicle immediately.

## Vinyl Wrap (126)

### Automotive Vinyl Wrap & Fuel Spills

If any fuel finds its way onto your car, truck, or motorcycle, wipe it off

immediately to avoid degrading the vinyl wrap and adhesive. Then wash, rinse and dry the vehicle as soon as possible.

## 3M TOOLS

3M Vinyl Colors

iPhone App

Android App

Vinyl Wrap Q&A

## 3M FAQ

Vinyl Wrap (65)-2

Is a vehicle vinyl wrap permanent?

A complete vinyl wrap can typically last for 5-7 years depending on the material used and conditions in which the car is driven and stored. The vinyl film can be removed completely without leaving any adhesive residue, returning the car to its original color and condition.

Vinyl Wrap (72)

How long will my vinyl wrap last?

That depends on the application. If you park in a garage and your car isn't exposed to sunlight on a regular basis, the wrap could be good indefinitely however, typical vehicle wraps are good for 5-7 years.

The most common ways to improve the life of a wrap include protection from the sun, protection from water getting underneath the wrap and protection from abrasion. It is important to think about how your wrap may be exposed and, to discuss how to protect your wrap with your Apex Installer.

Vinyl Wrap (91)

Are wrinkles, bubbles & seams acceptable for vinyl wraps?

Badly installed vinyl wraps will have wrinkles, bubbles, and seams. At Apex Customs Phoenix, our installers have the experience, training, and expertise to ensure your vehicle wrap is installed without wrinkles and bubbles and any seams required are hidden. With large vinyl wrap installations that include complex curves may make it difficult to eliminate all seams, however, our installers will take every precaution to finish your graphics job with as little as possible.

Vinyl Wrap (82)

Can I take my vinyl wrapped car through a car wash?

Most vehicle wraps can be taken through car washes just like any painted vehicle. However, like with many paint jobs, vehicle wraps can also be damaged by car washes. Take care around the exposed edges and seams of a wrap and ask your Apex Customs installer what they recommend to increase the life of your particular wrap.

Vinyl Wrap (56)-2

Will a vinyl wrap damage my paint?

No. When you use quality vinyl wrap materials, the vinyl can easily be removed

without any damage to your factory paint. In fact, when properly installed, vinyl wrap will actually protect your paint helping to retain your vehicle's resale value. Vehicle wraps are the perfect solution for any graphics, decal, or sticker application you wish to apply to your vehicle.

Vinyl Wrap (80)

How long does it take to vinyl wrap my vehicle?

Installation times vary according to the complexity of the project. A basic wrap job takes about 1-2 days. Due to the nature of the adhesive vinyl and the complex curves to which it's applied, we build in an extra 24 hours after the application to allow for the film to fully adhere to the vehicle.

Vinyl Wrap (88)

Do you cut on my car's paint when installing the vinyl?

At Apex Customs we know you love your car, and we wouldn't do anything to hurt it. Our certified professional installers employ a special technique called "BLADEAWAY" to protect your paint. We also use a product called Knifeless Tape which allows our installers to make precise edges on the painted surface without the use of a blade. The combination of these techniques allows for the most intricate trimming with no harm to your car.

Vinyl Wrap (78)

Why is a full wrap car vinyl wrap more beneficial than a partial vinyl wrap?

Full wraps cover most or all of the paint on a vehicle while partial wraps cover only part of the vehicle. Even though full wraps are more expensive, they protect all of the original paint underneath instead of just part of the paint. This is critical when the wrap is removed since fading and scratches can result on the unprotected paint of a partial wrap. As a result, full wraps tend to protect or even increase the resale value of vehicles more than partial wraps.

Vinyl Wrap (51)

What colors can I choose for my car's vinyl wrap?

Vinyl Wrap can come in almost any conceivable color, finish or texture. Check out the 3M selection of colors and finishes [here](#).

Vinyl Wrap (71)

What is a vehicle vinyl wrap?

A vehicle vinyl wrap is a process of applying pressure-sensitive vinyl in numerous colors and finishes is applied by hand onto a vehicle's painted surface. Wrapping is the newest and most innovative thing to hit the car customizing world in years. Vinyl wraps can also be installed on cars, trucks, SUV's, bikes, boats, wave-runners, trailers, walls, floors, furniture, laptops or just about any surface.

Vinyl Wrap (77)

How much does a car vinyl wrap cost?

As with almost all custom work, it is hard to say exactly how much your vinyl wrapping project will cost. It will depend on the size of your vehicle, the vinyl

material you choose, the complexity of the job, and more. Please give us a call or submit a quote request and tell us about your project so we can put a quote together for you.

### Vinyl Wrap (71)

How do I know that I am comparing "apples-to-apples" when looking for a vehicle vinyl wrap?

Here are some important points that can guide you to making an informed decision:

Always ask how long the wrap will last and about the warranty coverage. Make sure you understand what parts of the vehicle are going to be wrapped. Not wrapping certain difficult parts of a vehicle such as rear-view mirrors or door handles may reduce the cost of the wrap. It is also critical to use a design that can incorporate un-wrapped parts of the vehicle for optimal appearance. It is not always necessary to wrap the roof of a vehicle and this can reduce your cost. For example, if a delivery van or motor home roof cannot be seen from the ground, then this part of the wrap could be eliminated. However, racing vehicles or vehicles that drive in big cities and are seen from above, it's beneficial to wrap the roof.

Ask about the vinyl that will be used. There are different qualities and price points of vinyl. Typically "high performance" vinyl materials are recommended for high-quality vehicle wraps. There are also special vinyl materials designed just for walls and floors.

Make sure you understand the total cost associated with the wrap. There are frequently additional costs associated with vehicle prep and cleaning as well as design. Ask your wrap provider for an all-inclusive price.

The design is the single most critical step in the success of your wrap. Some designers are more experienced and worth the extra cost associated with their services.

Be sure to ask what special techniques will be used to prevent paint, clear-coat, and plastic part damage. These techniques may increase the cost of the wrap.

Be sure to ask what techniques will be used to prevent wrinkles, bubbles, and seams. A wrap with zero wrinkles, bubbles and seams is typically more expensive than a normal wrap or may not be possible.

3M Graphics and Avery Dennison certified wrap providers are typically superior to other wrap providers because they have gone through scrutiny in order to obtain certification and must maintain their credentials in order to remain 3M certified.

## WHEELS & TIRES

TEMPE, AZ | PHOENIX, AZ

Pickup Car 3  
Wheels & Tires

New Shoes For Your Ride

No custom automotive project is complete without a set of aftermarket wheels and some new rubber shoes for your ride. At Apex Customs Phoenix, we offer a wide

range of custom aftermarket wheels and performance tires to give your car, truck, or SUV the truly custom look you've been dreaming about. At our full-service wheel and tire shop, our sales team will help you to select the perfect aftermarket wheel and tire setup for your ride and our wheel and tire technicians will professionally mount, balance, and install your ride's new shoes.

Unlike our competitors, we specialize in aftermarket wheels and performance tires in our Phoenix tire and wheel shop. We can create any custom wheel rim and tire package you want to build for your custom ride. If you have a specific brand or style of wheel you're interested in, our sales staff can source the wheels for you at our discount pricing and match them to any performance tire on the market. We can even customize your new wheels to match the exact look you're going for. We can change the color of your wheels, add some vinyl stripes, get them CNC machined to add a custom pattern, just about any custom wheel modification you can dream up.

#### Wheels Tires (4)-min

Apex Customs, offering full-service wheel and tire installation and customization services for the Phoenix, Tempe, Scottsdale, Mesa, Glendale, and surrounding areas. Contact us today and let our sales team know what vision you have for your custom wheel and tire project and we will provide you a customized quote backed by the best customer service, workmanship, and pricing in the wheel and tire industry.

#### Wheel & Tire Services

Wheels & Rims

Performance Tires

Wheel & Tire Packages

Performance Brakes

Request Quote

#newwheels

#### Wheel & Tire Services

Give your vehicle a more aggressive look by lowering the suspension. Lowering will also help eliminate unsightly factory wheel gap and helps improve your cars handling and ride characteristics.

#### Wheels Tires (5)-min

Aftermarket Wheel and Rims

In the market for a new set of aftermarket wheels? At our Phoenix full service wheel rim shop, we can source and install a new set of custom wheels in any size and design you desire. Apex Customs has partnered with MHT Wheels, Wheel Specialists, and the Wheel Group to provide you with a wide range of custom wheel options for your car, truck, or SUV. Even if you are unable to find the wheel you're looking for at any of these wheel manufacturers, we can source any wheel you're looking for. From 24" chrome rims to smaller cast race wheels, our certified installers have the tools, experience, and equipment to mount, balance, and install any wheel you're looking for.

Unlike our competition who services the average driver with another set of bland tires to get them through another season, our Phoenix custom wheel and tire shop

specializes in custom aftermarket wheels that are intended to improve the look and performance of your car, truck, or SUV. We understand custom automotive at Apex Customs and will use our experience, expertise, and industry contacts to put together an aftermarket wheel and rims package that will match the rest of your modifications to build a custom ride that captures the attention of every driver you pass on the road.

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Performance Tires

Does your ride need a new set of shoes? The performance gains offered from a performance grade tire are often overlooked by automotive enthusiasts looking to boost the power and responsiveness of their ride. No matter how much horsepower is cranking out of your motor, if your tires don't transfer the power to the pavement, you're leaving performance gains on the table. Engine performance happens when the rubber meets the road. Another benefit of a performance tire investment is the improved handling and grip your car, truck, or SUV will enjoy around the track and highway. There is no better way to improve your cars traction and handling than a tire upgrade.

At our Phoenix performance tire shop, we offer a wide range of tires designed to provide your car, truck, or SUV unmatched performance on the road. Whether you're looking to add a set of track wheels and tires or just upgrade the everyday handling of your grocery getter, our experienced sales staff will help you match the best set of tires to your intended driving application. Our expert installers will mount, balance and install your new set of rubber shoes to factory specs so you can be assured to get the most out of your performance tire investment.

Wheels Tires (7)-min  
Wheel and Tire Packages

Ready to scrap your entire wheel and tire setup? At our Phoenix wheel and tire shop we can put together a custom wheel and tire package that will complement each other for the best of both worlds in looks and performance. If you're planning to upgrade your wheels to a larger setup, a wheel and tire package is a must. Those factory 17" tires aren't going to fit on your new 24" Rims. Our sales staff can work with you to find the perfect wheel and tire combo that will complement each other to provide your ride with the best combination of wheel style and tire performance.

Wheels Tires (2)-min  
Performance Brakes

Does your ride need a little more stopping power? Performance brakes are an often overlooked, yet critical upgrade to any performance car, truck, or SUV. If you're planning on upgrading the engine performance of your vehicle, a matching upgrade to the braking system to handle you new horsepower is an investment you simply can't afford to overlook. If you're not planning on more horsepower under the hood but still want to improve the handling, safety and responsiveness of your car, truck, or SUV, a braking system is the perfect investment.

At our Phoenix performance brake installation shop we have the tool, experience, and expertise to install any upgrade to your braking system that you're looking for. We've partnered with several performance braking component manufacturers

like Baer, Brembo, Wilwood, Hawk Performance, EBC, and StopTech to provide you a comprehensive selection of performance braking solutions.

## Performance Brake Services

Caliper Upgrades  
Performance Brake Pads  
Performance Rotors  
Stainless Steel Brake Lines  
Big Brake Upgrades  
Request Quote  
#performancetires

## Wheels / Rims

### How to Chose New Wheels For Your Ride

Upgrading your factory wheels to a fresh set of aftermarket alloys is one of the best automotive upgrades you can invest in. Wheels, also referred to as Rims, have a significant impact on the overall appearance and performance of your vehicle. Available in a wide range of colors, sizes, patterns, materials, and performance characteristics, purchasing a new set of wheels can feel like a daunting task. Before you make any final decisions, here are a few key factors to consider while comparing your options.

### Wheels vs Rims

There is some confusion in the automotive aftermarket world on what a rim actually is. Many automotive enthusiasts use the term rim interchangeably with wheel. However, there is a difference between a rim and a wheel and it's important to understand the difference while shopping for new wheels to avoid any mistakes in your purchase. Understanding the difference between a wheel and a rim, how they factor into a single piece vs multi-piece wheels, and the best way to match rims with your tires is an important first step in a successful wheel upgrade.

### Wheels Tires (1)-min

#### What is a Rim?

A rim is the outer edge of a wheel which holds the tire in place allowing it to rotate with the remaining hub and spokes of the wheel. The rim is connected to the wheel hub assembly by the spokes of the wheel. Although many car and truck enthusiasts call the entire wheel assembly a rim as a catchall phrase, the rim is technically only the outer edge component of the wheel.

### Single-Piece vs Multi-Piece

Wheels are available in single-piece and multi-piece designs. Multi-piece wheels are manufactured as separate pieces, such as the rim, spokes, and hub, and assembled into a single wheel. Single piece wheel designs are manufactured by casting the rim, hub, and spokes together. While single piece wheels tend to cost less than their multi-piece counterparts, they require a complete wheel replacement if any damage occurs. In contracts, multi-piece wheels can be repaired by just replacing one of the components that make up the wheel.

## Wheels Tires (6)-min

### Matching Rims with Tires

The best way to purchase new rims is to match them with a new set of performance tires that will compliment your new wheels. If you're changing your wheel size, like upgrading to a 22" rim from a 19" rim, a wheel and tire package is your best approach. Your vehicle's wheel diameter and width must match the inside rim of the tire. If you're not planning on upgrading your tires, be sure to match your new wheels within your existing tire dimensions.

### Wheel & Tire Size

Most car enthusiasts are looking to upgrade their wheels while retaining the same overall diameter of the wheel to prevent any rubbing or suspension issues. This is accomplished by fitting your larger wheels to a tire with shorter sidewalls. A small sidewall tire on a large wheel is a look many enthusiasts prefer, however, keep in mind that a shorter sidewall will impact your vehicle's ride. Shorter sidewalls equate to less shock absorption when driving over cracks and bumps in the road.

When it comes to choosing a wheel size, bigger isn't always better. There is a trend in the aftermarket world to always go bigger, some even take it to the extreme with 26" or bigger wheels. Before you make the decision to go with a larger wheel, there are a few things that you need to take into consideration. Larger wheels do look great, but they can have a significant negative impact on your ride quality and car's performance. Larger wheels mean less shock absorption in the tire so be prepared to feel bumps and speed humps. Additionally, and more importantly to anyone who is concerned with vehicle performance, larger wheels result in higher unsprung weight. Unsprung weight is a serious detriment to the performance of your vehicle as it causes the motor and suspension system to work harder to rotate the wheels and tires. The result is reduced performance, lower gas mileage, and increased wear on the suspension components.

## Wheels Tires (5)-min-min

Choosing wider wheels has its benefits if your wheel well is larger enough to accommodate the increased diameter. Wider wheels will allow you to use wider tires which offer your vehicle more rubber on the road for better traction. Think of drag racers and their huge tires at the back, more rubber on the road will help you transfer more power to the road surface. There are several ways to accommodate wider wheels including suspension modifications however, be sure to factor in the size of your wheel well before making any wheel and tire purchasing decisions.

### Plus Sizing Wheels & Tires

Increasing the size of your wheel and rim's diameter and width in addition to adding a tire with a shorter sidewall is referred to as plus sizing. Here is a table that illustrates an example of plus sizing which will result in more noticeable wheels while enhancing performance.

Plus Size	Wheel Diameter	Wheel Width
Original	16"	7"
Plus One	17"	7.5"
Plus Two	18"	8"
Plus Three	19"	9"



## Measuring Backspacing

Backspacing size is a critical measurement that you'll need to know when selecting new wheels. Wheel backspacing is measured from the back edge of the wheel to the mounting surface in the middle. It's essentially the distance between the mounting hub and the outer edge of the wheel. Backspacing size will vary depending on your offset. When there is no offset, the mounting surface of the hub will be even with the centerline of the wheel. Positive offset refers to when the mounting surface is closer to the front of the wheel. Negative offset, by contrast, is when the mounting surface is closer to the back of the wheel.

## Wheels Tires (3)-min

### Understanding Maximum Load

All wheels have a maximum weight load they can handle. It's critically important to ensure your new wheels are rated to handle the load of your car, truck, or SUV. In order to determine the exact weight load of your tire, multiply the max-weight that is advertised by the manufacturer by four to get the total weight handling of your wheels. For example, if each of your wheel's load rating is 3,500 lbs, the total load rating for your vehicle would be 14,000 lbs.

## Determining Bolt Pattern Measurements

Wheel bolt patterns are determined by two things, the number of bolt holes on the wheel and the distance between each bolt. For example, a bolt pattern of 6 x 5.5 equates to a wheel with six holes which are 5.5" apart from each other. The measurement is made across the center of the wheel with the exception of a 5-lug pattern where the measurement is made from the back of the lug hole to the center of the lug hole on the opposite side.

## Request Quote

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[dabd1b\\_dcaa9669cf2b4345bc9f25505ac3b1d8\\_mv2](#)

[dabd1b\\_d161d46b63c04df6aac8e1df4fca46f6\\_mv2](#)

## Performance Tires

## How to Choose the Proper Tire

Choosing the correct tires for your car, truck, or SUV can be a challenging process with the massive selection available on the market these days. If you choose the wrong tire for your application, you will reduce the performance capabilities of your vehicle and potentially put you in danger in bad weather. When you are looking for a new set of tires, you want to start with determining the intended application for your vehicle.

There are three main categories of tires: summer, winter, and all-season. The average consumer will purchase an all-season tire to keep costs down so they don't have to pay for a summer tire set and a winter tire set. While this approach can provide you a decent, well-rounded performance all year long, there are substantial differences in the needs of a performance tire on the hot pavement vs the icy roads.

## Wheels Tires (7)-min

Summer performance tires will deliver substantial improvements in handling and dry/wet braking, but they have terrible traction on the snow and ice. Most racecars run on tires that have little to no threads, they have soft flat rubber

that will hug the pavement around corners and give you the traction you need when you punch the accelerator. Contrast that to the wet, slippery roads of winter. Imagine trying to drive down a wet or icy road on a set of racing slicks.

Winter tires, by contrast, provide you outstanding snow traction but have poor performance when braking or taking hard turns on clear roads. Winter tires tend to have more aggressive treads which are great for handling rain, snow, and ice, but perform poorly in performance applications. The greater the contact surface with the road, the better the tires will grip the road. Aggressive treads reduce the contact surface of the tire to the pavement which is beneficial in winter, but determinantal in summer.

## Reading Tire Size

The first step in looking for new tires is determining the size of your existing tires so you know where to start in the shopping process. Reading your tires size can be a bit cryptic at first glance, but it's actually fairly straight forward once you have the key to what all the numbers mean. Here is a brief guide to walk you through the process.

Wheels Tires (4)-min

Wheels Tires (3)-min

Wheel Diameter

The wheel diameter measurement signifies the size of wheel the tire will fit on. The size of the wheel is measured across from one end to the other. A size P215/65 R15 tire would fit a 15" diameter wheel. Standard tire sizes, which are measured by width in inches are: 8, 10, 12, 13, 14, 15, 17, 18, 19, 20, 22, 23, 24, 26, and 28.

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Tire Construction

The construction of a tire is designated by the letter which follows the two-digit aspect ratio. The tire construction designates how the tire is built. Almost every tire sold in the US today is a radial tire which is designated by an R. A radial tire is constructed by the internal body plies of the tire radiating outward from the center. A D represents a bias ply construction which means the internal body plies crisscross in a diagonal pattern in the tire. A B stands for belted tires which refers to internal plies which crisscross similar to a bias ply tire but also include an additional extra layer of reinforced belts in the tread area.

Wheels Tires (8)-min

Tire Type

Tire Type is designated by a letter at the beginning of the tire size reading stamped on the side of your tire. There are several letter possibilities designating different tire sizes. Here is an explanation of each letter possibility:

P = P-Metric which are the most common type of passenger tire. The P stands for a

passenger vehicle which means your tires were manufactured to be used on passenger cars, minivans, light-duty trucks, and SUVs. (Example: P215/65R17 98T)  
LT = Light Truck which are typically found on vehicles that tow which are used to carry heavy loads and tow trailers. LT tires are typically found on SUVs, vans, and medium and heavy duty trucks with a ¾ to to 1-ton capacity. (Example: LT235/75R15 104/101S/C)

T = Temporary Spare which designates the tire is a temporary spare. These tires are also referred to as mini spares and are designed for short-term use only to get you to a repair shop in the case your tire gets a flat. (Example: T145/70R17 106M)

C = Commercial which are tires designated for commercial applications such as vans and delivery trucks capable of carrying heavy loads. Commercial tires are also branded with a load range and service description rating such as B, C, or D. (Example: 31x10.50R15/ C109R)

Blank = Metric / Euro Metric. When there is no letter in front of the tire size stamp, it designates the tires was made in Europe. Euro-Metric tire sizes are equivalent to P-Metrix sizes however, they have subtle differences in their capabilities and load ratings.

Wheels Tires (11)-min  
Tire Width

The tire width measurement is the tire width from sidewall to sidewall. The first three digits in the number refers to the width of your tires. For example, if your tire reads P215/65 R15, the width of your tire would be 215 millimeters.

Wheels Tires (15)-min  
Tire Aspect Ratio

The tire aspect ratio is the ratio of the height of the tire's cross-section to its width. The aspect ratio is a two-digit number which is after the slash mark of the tire's size. For example, a P215/65 R15 tire, the 65 designates that the height of the tire is 65% of the width of the tire. The larger the aspect ratio, the larger the sidewall of the tire will be.

Wheels Tires (10)-min  
Tire Speed Rating

The speed rating in the tire measurement designates the top speed at which the tire is rated at. A tire with an H-speed rating for example, has a speed rating of 130 mph. Performance tires typically have a rating of Z which designates a speed rating of 149+ miles per hour.

Wheels Tires (6)-min  
What Style of Tire Do I Need?

When deciding what kind of tire to purchase, tire manufacturers have made it relatively easy by categorizing tires by their intended use. Once you know what size tire you need for your application, the next step is to determine the style of tire you'll need for your intended application. Below is a list of the different tire categories to help you understand the benefits of that each offers.

All Season Tires: Intended for use year-round, all-season tires attempt to incorporate the benefits of summer tires with winter tires. They typically come with S or T speed ratings and are good for all-weather grip. They are manufactured to last a long time and are available for almost any mainstream car, truck or SUV. An all-season tire won't provide you high performance in winter or summer applications and is typically not recommended for the true automotive enthusiast.

Performance All-Season Tires: There is a relatively newer style of tire available on the market that is available on newer sporty vehicles as an upgrade package. These tires are similar to their regular all-season counterparts however, they come with higher H and V speed ratings and tend to have improved cornering grip that S and T speed rated tires. Performance all-season tires tend to wear faster than their non-performance counterpart due to the softer compounds used for improved performance.

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Ultra-High Performance All-Season and Summer Tires: Ultra-High performance tires typically come with Z, W, and Y speed ratings and are intended for performance sedans and sports cars. Differentiating between a summer tire and an all-season tire can be challenging and may require researching more details about the tire details. Summer tires typically do not have mud and snow designations on the sidewall.

All-Terrain Truck Tires: All-Terrain tires typically are available in large sizes and are developed for towing and hauling duties. These tires are generally found on light-duty pickups and SUVs and come with more aggressive tread patterns for off-road traction. All-Terrain tires generally have "All-Terrain" or "A/T" stamped on the sidewall.

Snow & Winter Tires: Snow tires are manufactured to provide improved traction when encountering snowy and icy roads. Snow tires are identified by a snowflake and mountain symbol stamped on the sidewall of the tire. The tread is generally more aggressive than all-season tires with lots of sipes or slits on the tires. Any time you are installing snow tires on your vehicle, you should always do so in a set of 4 to optimize your braking and handling.

Request Quote

continental

bridgestone

dunlop

Wheel & Tire Q&A

Wheels Tires (9)-min

When should I replace my tires?

You should replace your tires when the tread on your tires have become too worn. Treads allow your vehicle to stop safely, so it's important to replace your tires when the treads have become too low. Although many people will recommend that tires should be replaced when 2/32nds of an inch is left on the tread, there have been several studies that suggest that on a dry road surface, tires with 4/32nds of tread or less will take a longer distance to bring the vehicle to stop. In wet conditions, your tires have a higher chance of losing traction and an increased risk of hydroplaning. Similarly, it's recommended that tires should be replaced at 6/32nds an inch of tread to avoid reduced traction.

However, age should also be a consideration when replacing tires, as the materials used in production can break down over time. Tires should be regularly

inspected for signs of aging. Although minimum industry guidelines recommend inspecting tires every six years and completely replacing them within a decade, most drivers will wear out their tires before this.

Wheels Tires (1)-min

Do I need to use spacers or adapters when installing aftermarket tires?

Using spacers or adapters can mean that the wheel you are trying to install does not fit your vehicle. This can lead to a poor ride while wearing on suspension parts. Unless you get the advice of a professional, the use of spacers or adapters is often not recommended.

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What's the best way to clean my wheels?

Mild soap and water are sufficient for cleaning wheels, but you should avoid spraying cold water on hot tires. While it can be tempting to use stronger cleaners to get rid of grime, these often have harsh abrasives that can lead to surface corrosion. After cleaning, you can apply a non-abrasive wax on chrome-plated wheels.

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What is the proper inflations for my tires?

Proper tire inflation can ensure that your tires allow for the best fuel economy. You should frequently check cool tires with an accurate tire pressure gauge to ensure optimum tire performance and maintain the tire pressure level recommended by your vehicle manufacturer on the vehicle placard or in the Owner's Manual.

Wheels Tires (14)-min

After buying new wheels, can I use my Original Equipment hardware?

If your new wheels were packaged with hardware, it is recommended that you only use that hardware with your new vehicles. However, you should keep a set of your original lug nuts or bolts in your vehicle in case you ever need to mount your spare wheel and tire.

Wheels Tires (16)-min

What Are the Benefits of Aftermarket Wheels?

Aftermarket wheels allow you to change the look of your vehicle for aesthetic purposes. While they allow for greater control of how a car looks, they can also enhance how you drive.

Compared to the original wheels that come with your vehicle, aftermarket wheels often have a reduced weight, which can affect the overall gas mileage and allow you to maintain better control of your car on imperfect roads. Aftermarket wheels can allow for less vibration and a more stable ride.

yokohama\_advan\_neova\_ad08r-min

What Are the Benefits of Performance Tires?

Performance tires can reduce the unsprung weight of your vehicle—or the part of the cabin that is not supported by the vehicle's suspension. Reducing the

unsprung weight can affect steering input and improve the turning characteristics of the tire. Installing performance tires can also reduce the weight of the vehicle's rotational mass, which allows for improved acceleration and braking.

#### Wheels Tires (12)-min

##### How do I Choose the Best Tires for My Vehicle?

Choosing the right tires for your needs and your vehicle can be a difficult decision. There are several factors that should go into your tire choice, which include:

What kind of tires does my vehicle require?

Every vehicle manufacturer will suggest minimum requirements for your model to ensure safety. You should always install tires that meet the required load index. It's also important to consider the speed rating of tires before installing them.

What kind of tires are best for the type of driver I am?

Tires are designed for specific uses and changing the type of tire can influence the way you handle your vehicle. When selecting a tire, it's important to take into consideration how you drive, where you drive, and what terrain you are driving on. A person that mainly drives with cruise control on the highway will want a different tire than someone who drives on unpaved dirt roads every day.

What weather conditions will I be driving in?

Different climates can affect your tires in unique ways. It's important to consider the weather conditions that you will be driving in. For some, all-season tires will allow you to drive in different weather conditions. For others, it's beneficial to consider switching to winter tires for driving on icy roads or purchasing tires that will minimize the potential for losing control of the car when driving in the rain.

#### Wheels Tires (1)-min

##### What Are the Different Styles of Wheels Available?

###### One Piece cast aluminum

This is the most commonly sold aftermarket wheel, as it allows for the most variety in styling, sizes, and finishes. They can be painted, polished, machined, or chrome plated. While the backspace/offsets are fixed in the mold, 1 piece cast aluminum wheels offer a reasonable weight savings over steel and steel/composite wheels.

###### Two Piece cast aluminum

Also referred to as Billet Wheels, these wheels are made of a rim and a center that are welded together to allow for a variation in the backspace/offset. While finishing is limited to painting, machining, or polishing, these wheels tend to typically be stronger.

###### Three Piece aluminum

3 piece aluminum wheels are also known as a Modular wheel. The wheel is made up of a center that is sandwiched between front rim section and a rear section with bolts or rivets securing them together. While styling is limited, the finishing choices are similar to the 1 piece cast aluminum.

### Steel Wheels

Steel wheels have a steel outer/rim and a steel center. Chrome plating and painting are easier to apply on steel wheels.

### Forged

These wheels consist of a steel rim and a cast aluminum center, cast with steel cleats or inserts on the outer edges. Steel/composite wheels are offered primarily with a chrome plating and offer more possibilities of styling in the center.

Forged wheels have the lightest weight, but the styling options are limited. Forged wheels can be painted, machined, polished, or chrome plated. Because these wheels tend to have higher tooling and manufacturing costs, the sizes offered may be limited.

### Steel/Composite

These wheels consist of a steel rim and a cast aluminum center, cast with steel cleats or inserts on the outer edges. Steel/composite wheels are offered primarily with a chrome plating and offer more possibilities of styling in the center.

### Forged

Forged wheels have the lightest weight, but the styling options are limited. Forged wheels can be painted, machined, polished, or chrome plated. Because these wheels tend to have higher tooling and manufacturing costs, the sizes offered may be limited.

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What Type of Brake Fluid Should I Use?

There are three types of brake fluid available for use in your vehicle: DOT 3, DOT 4, and DOT 5. DOT 3 and DOT 4 are the preferred brake fluids for high-performance. In any high-performance application, like a race, your braking system will be put to the test by high temperatures from the constant braking. DOT 3 and 4 are available in a wide variety of formulations and performance characteristics. Typically, DOT 3 fluids are less expensive than DOT 4 and don't have the same performance characteristics. DOT 5 brake fluids are silicon based and don't perform well in performance applications due to their expansion and compressibility which will leave your brake pedal soft and spongy. DOT 5 is formulated to not be corrosive which makes it a good fluid for preserving classic cars.

Wheels Tires (8)-min

How Much Better Will My Braking Be with A Performance Brake Package?

The braking systems that are installed by the factory on most Cars, Trucks, and SUVs typically work well enough for average daily street driving and occasional 60 to 0 stopping. However, if you do any racing events, you will most likely push the stock braking system beyond its capabilities. If you are an aggressive driver, or install any performance parts on your engine, you can also quickly overwhelm factory braking systems. Upgrading to a big brake kit will provide your braking system more stopping power with its larger surface area as well as increased heat capacity which will substantially reduce your braking system fade and caliper distortion. The result will be a firmer pedal through your race or aggressive driving due to stiffer and stronger components as well as better modulation characters.

## PRODUCTS WE TRUST

At Apex Customs Phoenix we offer a wide range of custom automotive services and products. We take pride in our work and only put our reputation behind products we know from experience are going to provide our customers with the satisfaction they expect from an aftermarket investment. Below is a list of manufacturers we trust for our custom automotive services.

### Car Audio

Services (1)-min

Our Products (5)

Alpine strives to answer the demands of consumers and automakers for high-quality, competitively priced products. The company utilizes leading edge, digital technology in pursuit of excellence in sound reproduction. With the vision of combining music, visual images and information, Alpine's Mobile Multimedia systems exceed concept expectations for a new kind of driving experience for the next century.

Services (12)-min

Our Products (6)

JL Audio is an independent, privately-held U.S. company active in the Home, Mobile, Powersports and Marine Audio markets. They focus on delivering unique engineering, superior quality and high-performance audio to our customers around the world. Behind all of their efforts is a strong belief that great audio has real value, and that their customers can 'tell the difference'.

Services (13)-min

Our Products (10)

JBL Car Audio offers a wide range of car audio and stereo solutions designed to fit your listening tastes and budget. Turn up the sound in your car or boat with speakers, subwoofers, amplifiers, and digital processors for the latest car and marine audio systems available on the market.

Services (17)-min

Our Products (1)

Pioneer was founded in 1938 in Tokyo, Japan by Nozomu Matsumoto - a man with a passion for music that he hoped to share with the world through high quality audio speakers. That passion began with a small operation to repair and manufacture speakers in Matsumoto's garage. It has since grown to international



stature as a manufacturer of audio and video products for use at home, in the car and in business environments.

## Cold Air Intake

Services (21)-min

Our Products (8)

K&N Engineering is the world's leading manufacturer of washable performance air filters and air intake systems. K&N is a world class filtration company selling air filters, oil filters, and air intakes in over 30 countries. K&N sells over 5,000 products designed for cars, trucks, motorcycles, engines, and industrial applications. From their Million Mile Warranty to their Consumer Protection Pledge, K&N stands behind their products and their consumers 100%. The distinctive K&N logo represents performance from one of the original performance companies.

Services (1)-min

Our Products (5)

Volant was started with one simple desire; to build a better intake for performance minded outdoor-centric and off-road enthusiasts. Under that principle, Volant Performance has continued to evolve since 1998. Volant is driven to meet the unrelenting standards of the off-road and outdoor enthusiast marketplace, designing products for those who use their vehicles to pursue their passions.

Services (7)-min

Our Products (7)

Founded in 1997, AIRAID advanced the automotive aftermarket industry with the introduction of its AIRAID Intakes brand of air intake systems. Initially developed for light trucks and sport utility vehicles, the first AIRAID kits combined an open-element cotton gauze filter with an intake tube to produce an innovative, easy-to-install intake kit which dramatically increased air flow, horsepower, and torque while improving overall engine performance.

Services (6)-min

Our Products (4)

Advanced FLOW engineering (aFe) is a manufacturer of automotive cold air intake systems, performance air filters, fluid filters, intake manifolds turbochargers, programmers, throttle body spacers and exhaust systems. aFe was founded in 1999 and is headquartered in Corona, California, USA, in two facilities totaling 160,000 sq ft (15,000 m<sup>2</sup>) including their 77,000 sq ft (7,200 m<sup>2</sup>) headquarters and manufacturing facilities. An 87,000 sq ft (8,100 m<sup>2</sup>) warehouse and R&D facility was added in 2012.

Services (20)-min

Our Products (3)

AMSOIL specializes in developing synthetic lubricants that offer innovative answers to the greatest challenges vehicles and equipment present. AMSOIL now offers universal air induction filters (EaAU) designed to replace stock oil wetted gauze or foam conical filters that were supplied with custom induction systems. AMSOIL Ea Air Induction Filters offer better efficiency, excellent airflow and are cleanable.

## Exhaust

Services (22)-min

Our Products (9)

Magnaflow's slogan is Quality, Power, and Sounds. As a market leader in performance exhaust systems, they proudly manufacture all of their products in the USA using premium components and the latest technology. Their products range from direct-fit converters and cat-back systems to universal mufflers and builder's kits for fabricating your own custom system.

Services (3)-min

Our Products (7)

BORLA® PERFORMANCE INDUSTRIES is the pioneer and leader in the design and manufacture of stainless steel performance exhaust. We began three decades ago as a manufacturer of exhaust systems for such "concours classics" as Rolls-Royce and Ferrari cars and have evolved into the premier manufacturer of today's performance vehicles for the street, off-road, and racing.

Services (9)-min

Our Products (2)

Driven with a relentless passion to deliver the ultimate automotive driving experience, CORSA Performance uses advanced engineering technologies to create market leading & cutting-edge products for the automotive enthusiast. By manipulating airflow and employing unique acoustic technologies; CORSA Performance manufactures air intakes and exhaust systems that deliver additional power and unmistakable exhaust notes that are customized to the exacting demands of the consumer and their vehicle.

Services (23)-min

Our Products (1)

Flowmaster, Inc. is a specialty performance aftermarket exhaust manufacturer. The company has two locations totaling over 400,000 square feet in California. Originally created to minimize California Sprint Car engine noise without sacrificing performance from excessive back pressure caused by traditional exhaust systems, Flowmaster has grown to be a manufacturer of performance exhaust systems, mufflers, exhaust kits, racing mufflers, stainless steel mufflers, and exhaust accessories for cars, muscle cars, trucks, diesel trucks, SUVs, motorhomes, ATVs and most vehicles.

## Lighting

Axium

AXIUM LIGHTING

LED's have revolutionized the custom automotive market landscape for the better by offering cost-effective, low power, diverse, unique lighting options to make your ride stand out from the crowd. At Apex, we've been working with a wide range of automotive lighting products from just about every aftermarket supplier on the market for several years. One of the gaps we identified in the market while searching for the best products for our customers, is affordable LED lighting you can trust. There is no shortage of LED interior and exterior bulbs available on reseller and auction sites like Amazon and Ebay however, it can be a challenging task to identify which brands and models offer reliable performance and consistent staying power.

Services (2)-min

Our Products (9)

ORACLE Lighting Technologies offer quality products, backed by a strong warranty program. Their name has become the standard in solid-state automotive LED technology, and they continue to push the envelope even further by evolving their line into the home and industrial lighting markets. Technology is always evolving and they evolve with it to offer the best automotive lighting products in the industry.

Automotive Lighting (41)-min (1)

Our Products (6)

Diode Dynamics is a manufacturer of LED lighting products for the automotive industry. Founded in 2006, the company's focus on developing innovative products, with superior quality and excellent service, has allowed for continued growth over the past ten years. By directly manufacturing many of its products in St. Louis, Missouri, Diode Dynamics is able to carefully control quality, while bringing unique products to market faster than the competition. These products are backed by an industry-leading no-hassle warranty, and the best service and support experience possible.

Services (25)-min

Our Products (11)

Thanks to its unparalleled patented Hybrid, Specter & new Hyperspot optics and its torture-tested housings, Rigid Industries LED Lighting is a world leader in the forward projecting LED lighting industry. Rigid is committed to providing innovative technologies & always guarantees a quality product. It is Rigid Industries primary goal is to design and manufacture the best forward projecting and auxiliary LED lighting products in the world.

Paint Protection

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STEK is revolutionizing the Paint Protection Film industry by producing highly advanced film technologies designed to protect the most advanced vehicles. With our leading Hydrophobic and Self Healing top-coat technology and extreme gloss factor, STEK offers a film for each driver's style to keep your vehicle a beautifully protected staple of your personality.

Suspension

Suspension Products (10)-min

Suspension Logos (1)

Eibach products are created to meet the extreme requirements of racing, from the 245-mph Mulsanne straight of Le Mans to the fender-to-fender combat of the Daytona Motor Speedway. The special skills of Eibach engineers are in the tuning of the individual components (springs, dampers and stabilizers) to achieve the best possible harmony between the driver, the automobile and the road.

Suspension Products (5)-min

Suspension Logos (4)

KW automotive GmbH is the epitome of premium products in car tuning and automobile refinement. KW offers its customers the largest suspension program worldwide. The entire assortment - from springs over sports suspensions to

coilover suspensions “inox line” in three damping versions – such a variety of products is unsurpassed on the market.

Suspension Products (3)-min

Suspension Logos (8)

Hotchkis Sport Suspension draws upon over 30 years of racing experience to develop the most effective bolt-on suspension systems available. Their suspension packages have been engineered to deliver the race-winning performance you demand while remaining comfortable enough for use on the street. The experience of John Hotchkis and the entire Hotchkis Sport Suspension team ensures that you receive high quality products, engineered to perform and designed to be strong.

Suspension Products (11)-min

Suspension Logos (2)

Rancho® – a popular brand of suspension, shocks and more worldwide – was born in the 1950s in Long Beach, Calif., as Rancho Jeep Supply, and quickly grew into a thriving off-road and performance suspension components manufacturer. In 1985, Rancho launched what would later become its best-selling shock absorber: the RS5000™.

Suspension Products (8)-min

Suspension Logos (5)

Skyjacker® Suspensions is bigger and better than ever offering Leveling kits, Sport lifts and Suspensions kits. For over 40 years Skyjacker® has proven to be an innovator in the suspension market. This commitment to cutting-edge technology has enabled Skyjacker® to deliver a huge selection of products to you, their customers.

Suspension Products (9)-min

Suspension Logos (4)

The H&R philosophy is simple and effective: To manufacture the best suspension products, using only the highest grade materials, and then back all of our products with unparalleled customer service. This philosophy has made H&R what it is today - the industry leader in high performance, quality suspension components. Be it on the street or on the track, H&R has become synonymous with consistent, proven suspension performance and quality.

Suspension Products (1)-min

Suspension Logos (2)

Energy Suspension's decision over 30 years ago to specialize in polyurethane and only polyurethane, has established Energy Suspension as the most asked-for name in performance polyurethane components today. This devotion has produced the quality components that our customers continue to demand. With applications to fit most popular vehicles as well as a superb customer support network, ENERGY SUSPENSION is your first quality choice in performance polyurethane suspension components.

Suspension Products (6)-min

Suspension Logos (6)

Since 1992, Pro Comp USA has been manufacturing high-quality, durable products for On- and off-road enthusiasts including tires, wheels, suspensions, shocks and more. Suspension systems were their original foundation and they continue to be one of their strongest departments as they develop innovative new suspensions to this day.

## Suspension Products (2)-min dslogo

Daystar™ has been Designing and Producing Precision Suspension Components for Four Wheel Drive Trucks, Motocross Bikes, Passenger Cars, and Mountain Bikes since 1977. Daystar™ has always met their customers' needs by designing and producing the highest possible quality parts. Since 2000, Daystar has been certified ISO 9001, and we currently hold ISO9001:2008 certification.

## Suspension Products (1)-min Suspension Logos (3)

Revshift is a small company located in Warren, MI. Their parts are designed and manufactured all under one roof. They do the CAD work, weld the hardware, machine the metal pieces, and process/mold the polyurethane themselves. Nothing is outsourced and nothing is overlooked. They are committed to producing the highest quality performance products available

## Super Chargers

### Superchargers (1)-min

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Magnuson believes you should be able to have big horsepower, drivability, and a long-lasting, reliable product. In fact they've been making power you can live with for more than thirty years. They use what they learn to develop Magnuson Supercharger Kits - the best-selling, most complete line of bolt on superchargers anywhere. They test each Magnuson Supercharger before it leaves the factory, and they stand behind their product with a 3 year/36,000 mile warranty.

### Superchargers (1)-min

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Edelbrock E-Force Supercharger systems deliver excellent horsepower and torque in a complete kit. Featuring a unique design with minimal components. It makes it possible to fit an E-Force Supercharger under the stock hood. The core of each system is the Eaton Gen VI 2300 or 1320 TVS® Supercharger rotating assembly with a four lobe design with 160° of twist for maximum flow, minimum temperature rise and quiet operation for excellent drivability.

### Superchargers (1)-min

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Put simply, ROUSH Performance produces the most advanced Mustang Superchargers in the industry. Many of these systems come with our industry-leading 3 year/36,000 mile warranty, and many are the same systems that we install on our assembly line for pre-titled "ROUSH" vehicles. Hundreds of hours of research and testing go into the development of the ROUSH superchargers.

### Superchargers (4)-min

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Vortech remains at the forefront of centrifugal compressor design and automotive accessory technology, with wide range of supercharging systems for all manner of cars and trucks, as well as fuel system components, air bypass components, and a popular line of charge cooler upgrades for the Ford EcoBoost line of cars and trucks. From daily driven street cars to 3,000 horsepower drag racers; Industrial airplane wing de-icers to nearly 8,000 horsepower quad-engined top speed boats, Vortech has the compressors available to get the job done, with efficiency and

reliability that is unmatched throughout the industry.

#### Superchargers (3)-min

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When you are looking for the ultimate in high performance and reliability from a centrifugal supercharger, look no further than Paxton Automotive's NOVI line. NOVI superchargers are based on Paxton Automotive's race-proven gear case, which features billet steel, helical-cut gears\*, and aerospace-quality high-speed bearings. A direct-to-gear, constant circulation, oiling system provides optimum lubrication and cooling, even under sustained boost conditions. Some of the fastest race cars in the world use Paxton Automotive NOVI superchargers—a testament to the NOVI's unsurpassed performance in the most demanding situations.

#### Superchargers (6)-min

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With Whipple Superchargers extensive knowledge, technology and years of experience, Whipple developed an entirely new supercharger lineup that featured all of the latest technology in rotor profile, housing, rotor coating and bearing design to once again, revolutionize the twin-screw supercharger market. As the pioneer of the screw compressor market, Whipple's dedication to innovative thinking, hard work, attention to detail and outstanding product performance has led to a better, American made product for the performance industry.

#### Superchargers (7)-min

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ATI's self-contained (SC) ProCharger models are the first and only gear-driven centrifugal superchargers to feature self-lubrication, and contain the industry's most advanced technology. In addition to the patented self-contained oiling design, SC ProChargers also feature the highest step-up ratio, exclusive billet impellers, and the industry's only billet gearcases for superior rigidity, sealing and appearance. These proven self-contained ProChargers were designed specifically for internal lubrication and have become the industry standard.

#### Vinyl Wrap

##### Apex Products (4)

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3M Scotchprint 1080 Series Vinyl Wrap offers a truly distinctive appearance offered in a variety of finishes, textures, and colors is anything but ordinary. Each style will provide your car, truck, motorcycle, or boat a unique, head-turning look while providing industry leading protection to your factory paint. Their cast wrap films come in high gloss colors, matte colors, brushed metal and carbon fiber looks. True textured films that you can use right out of the box, no overlaminates are needed.

##### Apex Avery-min

##### Apex Products (2)

Avery Dennison SW900 Supreme Ultimate Vinyl Wrap combines versatility, durability, and performance to create a reliable and affordable solution to your vinyl wrap needs. Avery Conform Chrome Vinyl Wrap offers a mirror-like finish to create the genuine chrome look that is traditionally difficult and expensive to apply. The films low initial tack technology allows the vinyl's adhesive to be forgiving and re-positionable.

## Wheels

Apex Products (2)

Apex Wheels-min

Wheel Specialists, Inc. is the industry leader in custom-tailored wheel and tire packages. They have proudly served the finest independent tire dealers, auto dealerships, and aftermarket specialty shops for over 25 years. WSI specializes in everything from proper standard fitments to extreme applications. Their experience, knowledge, and product selection are second to none!

Apex Products (5)

Apex Products (7)

MHT employs an industry leading team of engineers, programmers, and machinists who stop at nothing to guarantee 360° of perfection. They offer a wide range of automotive wheel options in a variety of sizes, patterns, and colors.

Apex Products (6)

Apex Products (1)

Established in 1969, The Wheel Group (TWG) is a manufacturer and distributor with over 45 years of experience specializing in aftermarket automotive wheels and accessories. Their R&D team aims to create the latest, most innovative, and exciting designs, TWG proudly introduces its worldwide known privately designed wheel lines, as well as our complete line of wheel accessories under Mr. Lugnut, and AMP mud terrain tires

## Window Tint

Apex Products (1)

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3M™ Automotive Window Film Crystalline Series rejects more heat than many darker films without changing the appearance of your vehicle. Whether you're concerned about excessive heat, increased privacy, UV protection, a faded interior, glare or security, 3M has a window film to enhance the comfort and appearance of your vehicle. The Crystalline Series features a proprietary, multilayer optical film that combines over 200 layers of nano-technology in a film that is thinner than a Post-it® Note. This unique technology is the reason a clear film can reject more heat than many darker films.

Apex Products (3)

Our Products (2)

SunTek Automotive Window Films drive performance and profits by providing dealers with the unique opportunity to offer their customers a superior product at a competitive price.

SunTek Automotive Window Films also offer:

High impact marketing materials and programs

A complete product line, available in several colors and shades, that matches factory tint and enhances the look of any vehicle

Easy installation, including heat shrinkability, adhesion, and dry time

Superior solar performance including heat and UV rejection, as well as glare reduction

Exceptional optical clarity

Increased safety and protection  
A competitive Manufacturer's Warranty  
More

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CHEMICAL GUYS

Chemical Guys car care products are the hottest professional grade cleaning, detailing, and waxing products available on the market today. Offering a wide range of products designed to keep your prized ride in peak condition, Chemical Guys is the top-selling car care brand on Amazon with over 90% positive reviews from verified customers with #1 best sellers in exterior care, exterior cleaners, sealants, tire care, waterless wash, and car wash equipment.

xsb

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XS Batteries are one of the most respected aftermarket performance automotive battery brands on the market. Their professional line of Absorbent Glass Matt (AGM) batteries delivers unparalleled performance in the most demanding applications from race cars to competition car audio. They offer a wide variety of batteries, premium grade cabling, battery chargers, power capacitors, hold downs, and protective cases. XS is the preferred brand throughout the competition car audio industry as well as many race teams.

TESLA CUSTOMIZATION

TEMPE, AZ | PHOENIX, AZ

tesla\_logo\_PNG16  
Tesla Customization

Set Your Tesla Apart from the Crowd

Tesla's are a sleek, modern, and sophisticated car packed with features and modern amenities that any car enthusiasts would love to get their hands on. From their sporty styling to their jaw-dropping 0-60 times, a Tesla is a one of a kind ride that garners attention and admiration. As the car grows in popularity, however, it can be challenging to set your Model S, X or 3 apart from the crowd. Like many cars on the road today, Tesla's have a bit of a generic-look to them. Because aerodynamics dictate a good portion of the shape of body panels and all cars (design, features, standards) are built to a certain percentile so that they appeal to the largest number of people. For many, that standard combination is good enough. But for a significant number of vehicle owners, customizing a car is a rite of passage for each and every car they own.

At Apex Customs, we've worked on more than our share of Teslas. Our technicians have the experience and expertise to take your Model S, Model 3, or Model X to a whole new level of sophistication and class. We offer a complete line of personalization and customization options to make your car distinctive, yet reflective of your personality. Apart from our passion for all things with wheels, our collective experience as a team understands the unique needs of every owner and vehicle. Every job is performed with an attitude for excellence and attention to detail, keeping in mind the owner's vision for his/her car, truck,



or SUV.

Apex Tesla (1)-min  
Tesla Services

Vinyl Wrap  
Window Tint  
De-Chrome  
Emblem Customization  
Paint Protection  
Wheels & Tires  
Upholstery

Our most popular Tesla customization offerings include vinyl wraps, smoked tail lights, clear bra paint protection, wheel upgrades, interior and upholstery upgrades, window tinting, and vinyl graphics. Your Tesla is a candidate for any of those customizations. While Apex Customs does engine and suspension upgrade work, the upgrade trend, especially for Generation Y, seems to be more toward personalization and customization, rather than performance upgrades.

A study by Chrysler showed that up to 49% of new car buyers are keen to personalize their vehicles. Unlike our competitors, Apex Customs specializes in custom work and high end builds. We are not an auto paint shop that pumps low-quality paint jobs out for insurance work. We work on the best, the classics, exotics, street rods, show cars, and race cars. We are a one-stop automotive customization shop that does everything you need to build or restore the ride of your dreams under one roof.

If you're looking to take your Tesla to a whole new level of cool, restore your ride to its former glory, or just add some custom flare, we've got you covered. We can source even the hardest parts you need, rebuild, protect and customize your Tesla to your specifications and desires. We offer Tesla customization, repair, and modification services to Phoenix, Tempe, Scottsdale, Mesa, Glendale, Gilbert, Chandler and surrounding areas in Arizona. Contact us now for a custom quote!

Request Quote  
#teslaphoenix

Tesla Modification Services

Apex Customs Tesla Services (1)  
Tesla Vinyl Wrap

Vinyl Wrap is one of the most requested modifications we get for Teslas. Wrapping your Model S, X, or 3 not only allows you to change the color of your vehicle while protecting the paint underneath, it is also affordable and does not run any risk of voiding your Tesla warranty. Vinyl Wrap provides a wealth of color options, colors, patterns, and finishes. You can choose to wrap the entire car, do a partial wrap of just the hood or roof, add racing stripes, or even just wrap a few individual parts. Car wraps provide excellent protection against the Arizona sun and are removable if you decide to change colors down the road.

To learn more about vinyl wrap, visit our vinyl wrap page by clicking here

#### Apex Customs Tesla Services (7) Tesla Window Tinting

Tinting your car windows has long been a first step towards customizing your Tesla. It shades you from the heat, aids the car's air conditioning efficiency, and provides privacy. You can choose from a variety of shades and darknesses as well as film quality. The more expensive films are more effective at blocking heat and interior damaging UV rays, as well as carry a longer manufacturer warranty. All tints look good when new, but continuous exposure to heat and sun will have your windows becoming hazy in a year or two when an inferior film is used. Window tint film can be applied to as many windows as you would like. The more coverage you have, the better the protection from the sun you will enjoy.

To learn more about window tint, visit our window tinting page by clicking here

#### Apex Customs Tesla Services (11) Tesla De-Chrome - Chrome Delete

The chrome delete package is the most popular customization we offer for Teslas. While some Tesla owners prefer the chrome styling, there are just as many who prefer to cover it up. A De-Chrome can be accomplished a few ways. The most expensive chrome delete package entails our technicians removing all of the chrome pieces and having them professionally sanded and painted. While this method is the most durable, most Tesla customers choose to have their vehicle's chrome wrapped in gloss or matte vinyl wrap. Vinyl wrap is most cost-effective and allows you the option to remove it down the line if you choose to sell the vehicle or have a lease return.

#### Apex Customs Tesla Services (6) Tesla Clear Bra

Let's face it, Tesla's are expensive. When you make such a large investment in your vehicle, protecting it from bugs, road spray, scratches and debris that can mar your finish should be at the top of your list! Paint Protection Film, or Clear Bra, is an effective solution for keeping your Tesla's expensive paint job safe from the elements. There are a variety of Paint Protection Film options you can choose from depending on your budget and how much of the vehicle you want to protect. The film is extremely durable but also very challenging to install properly so let the experts at Apex Customs take care of your vehicle's paint.

To learn more about paint protection film, check out our clear bra page by clicking here

#### Apex Customs Tesla Services (3) Tesla Ceramic Pro

Ceramic Pro is the ultimate treatment for your vehicle's finish. While Paint Protection Film is excellent at protecting your Tesla from small rocks and road debris, Ceramic Pro will add a layer of protection that no other product can match! A Ceramic Pro coating on your Tesla will act as an additional clear coat with three times the protective properties of the OEM clear coat finish. Ceramic Pro is a nano-ceramic coating technology which forms a permanent bond with the

surface that will not wash off or break down. Ceramic Pro's 9H can only be removed by abrasion, it is a highly durable protective coating that will protect your paintwork from damaging contaminants for many years. Ceramic Pro can be applied in multiple layers which means the thickness of the coating can be increased with additional layers allowing a thicker/harder coating with improved scratch resistance.

#### Apex Customs Tesla Services (12) Tesla Body Kits and Spoilers

Make your Tesla unique by adding a full body kit, or a selective combination that suits your taste and budget. Tesla body kit upgrades can include spoilers, fascia's, bumpers, bumper inserts, diffusers, side sills and skirts, light frames, custom door handles, and wing and trunk lid pads. At Apex Customs, our expert technicians can install any aftermarket body part or kit you have your eye on. If you're not sure what to choose, give our sales team a call and they can walk you through all of your options.

To learn more about body kits and aftermarket parts installation, visit our body kit page by [clicking here](#)

#### Apex Customs Tesla Services (10) Tesla Aftermarket Wheels & Tires

Aftermarket wheels and/or tires will have one of the greatest impacts on the aesthetics of your Tesla. Bigger wheels are distinctive, and the designs available can make you dizzy with the endless array of choices. At Apex Customs we can source wheels from any supplier or manufacturer you have your eye on. If you're not sure where to start, our sales team can walk you through your options.

If you're looking for a performance improvement for your Tesla, performance tires should be your first investment. With higher performance tires, you will enjoy superior braking and handling. Whether you want to keep your stock wheels or upgrade to an aftermarket set, we can pair performance tires with any setup you desire.

To learn more about aftermarket wheels and performance tires, visit our wheel and tire page by [clicking here](#)

#### Apex Customs Tesla Services (13) Tesla Emblem Customization

Emblem customization is another popular customization request we get from Tesla owners. Adding a subtle custom flare to your emblems is a great way to make your model S, X or 3 unique without breaking the bank. At Apex Customs we offer a wide variety of options for customizing your emblems. We can swap your emblems for a custom aftermarket set, wrap your OEM emblems in any color or style of vinyl wrap you choose, spray your emblems in a custom liquid vinyl color, or even professionally paint them to match your Tesla's OEM color. [clicking here](#)

#### Apex Customs Tesla Services (15) Tesla Smoked Taillights

Another simple way to personalize your Tesla would be to spring for smoked

taillights. Overly vivid taillights can be an eyesore if you're looking for a stealth effect for your ride. Smoked taillights are easily replaceable, so you can preserve your OEM units for when you sell the vehicle, or simply want to go back to your original lights. At Apex Customs we offer a variety of options for smoking your tail lights. The most durable option is to have your taillights professionally painted by our paint and body experts. If you're looking for a non-permanent option, we offer a custom tint overlay product which is installed similarly to vinyl wrap and standard window tint. While this option is not as durable as a professional paint application, the film used to smoke your taillights can easily be removed.

#### Apex Customs Tesla Services (16) Tesla Suspension Upgrades

If you're looking to improve the performance, handling, and style to your Tesla we have you covered. A suspension upgrade offers a number of benefits and is an excellent way to stand out in the Tesla crowd. The most popular Tesla suspension upgrade is a lowering kit. Lowering kits will give your Tesla a killer stance and look that will instantly grab attention. Additionally, by lowering your car's center of gravity, your Tesla will have enhanced cornering capabilities so you can hit those streets with confidence. If you want the ability to change the ride height and tune the suspension of your Tesla, Apex Customs also offers full Coilover and airbag kits.

In addition to lowering, we also offer lift kits. If your Model X needs a little more clearance, Apex has you covered. Our team of technicians can install these upgrades, tune them, and hand off your ride to you with a new look and feel. If you'd rather upgrade incrementally, then bushings, sway bars, springs, and shock are a viable option.

To learn more about our suspension offerings, visit our suspension page by [clicking here](#)

#### Apex Customs Tesla Services (5) Tesla Carbon Fiber

Carbon fiber customization can range from simple parts like interior trim or external body add-ons like spoilers and hoods. While Tesla's feature aluminum body panels which are carbon fiber fenders, and hoods will still result in weight savings and performance improvements. Carbon fiber not only offers stiffness and strength at a lower and lighter density than aluminum and steel, but it also looks fantastic. Carbon fiber offers a sporty, high-end look that no other product can match.

To learn more about our carbon fiber offering, visit our carbon fiber page by [clicking here](#)

#### Apex Customs Tesla Services (2) Tesla Brake Upgrades

Tesla's offer some serious performance and 0-60 times straight from the dealer. That performance can get you into trouble if you don't have some serious braking power. A brake upgrade is an excellent way to improve the safety and performance of your Tesla. Brake upgrades can be anything from stainless steel braided lines

to a wholesale replacement of performance calipers, rotors, and pads. The ultimate setup would be a carbon rotor with carbon pads and six-pot calipers. But you have to evaluate your need for such a setup.

Carbon rotors with their attendant hardware are for racing applications and cost a pretty penny. If you think your Tesla needs a little more stopping power, start with performance brake pads and stainless steel braided lines. Together with a high-performance brake fluid, these cheap brake upgrades will produce a noticeably significant improvement.

To learn more about our performance offerings, visit our performance page by clicking [here](#)

Apex Customs Tesla Services (1)  
Tesla Upholstery

While Tesla does a decent job with their upholstery options, there is always room for improvement. Whether your tired upholstery needs a refresh, your seat needs a repair, or you're looking for a true custom look, our upholstery experts at Apex Customs have you covered!

Our upholstery team can build and install an upholstery project you bring us. We can swap seat covers with some pre-fabricated custom covers from suppliers like Alea Leather, Katzskin, or Roadwire. We can wrap door panels, dashboards, wrap steering wheels, replace carpets and seats, or even fabricate and install custom seats covers and panels. We can also add custom stitching, custom seat patterns, wrap your headliner in Suede, and even install seat warmers and coolers!

Apex Customs has your Tesla upholstery project covered from A to Z. To learn more about our upholstery offerings, visit our upholstery page by clicking [here](#)

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Tesla Interior Upgrades

The interior is where you spend the majority of your time in your Tesla, so it's one of the best places you can invest in some custom upgrades. From gearshift knob replacements, vinyl wrapped trim, and carbon fiber accents, the expert technicians at Apex Customs have you covered. If you're looking for some interior upgrade ideas for your Tesla, give our sales team a call and they will walk you through a plethora of options to choose from.

Request Quote  
#teslateampe

Tesla Models

Apex Tesla (2)-min

The current Tesla lineup consists of the Model S, the Model X, and most recently launched the Model 3. With these three models, Tesla has entered the popular and more competitive segments of the automotive market. The Tesla Roadster, which launched Tesla as a serious contender in the automotive market, is currently not available, but set to return for the model year 2020. All Tesla vehicles are electric, driven by motors attached to single-speed transmissions. A high capacity rechargeable battery pack provides the power to drive the motor.

## Apex Customs Models (2)

### Tesla Model S

The Tesla Model S is a 4-door saloon available in 2WD or AWD configuration. The top of the line Model S, the P90D, can go almost 300 miles on a full charge, yet is capable of blasting other cars at the stoplight with a 2.8-second 0-60 mph acceleration time. Ludicrous indeed.

The Model S is in the price range of a Mercedes CLS, BMW 6 series, Audi A7, or an Infiniti Q70. As such, it has the features one would expect in that class of luxury car. Tesla has equipped the 2018 Model S with optional AWD (all-wheel drive), stability and traction control, ABS, regenerative braking, a full complement of airbags, proximity key, collision and lane departure systems, a restricted driving mode, perimeter alarm, and side impact beams, to name but a few features.

The interior features wood trim, dual zone air conditioning, heated seats, valet function, speed sensitive wipers, device integration, a multi-channel voice-activated entertainment system, and a large multifunction display on the central console. There's also the air filtration system that is rated for bioweapons. Just in case an apocalyptic event occurs and you happen to be in your Tesla driving in autopilot mode.

The electrical system and drivetrain are warranted for 8 years, with no mileage limits. Despite the steep price of entry, the Tesla Model S is value for money.

## Apex Customs Models (1)

### Tesla Model X

The Tesla Model X is the company's contender in the lucrative SUV market, able to transport up to 7 people over varied terrain. The Model X is equipped with AWD, and its acceleration times from 0-60 mph (at 3.3 seconds) is something no SUV should be capable of.

The most striking feature of the Model X is its gullwing doors, but acceptance has been mixed. Though mixing it with summon mode and opening the doors is a surefire way to invoke some awe and envy. Aside from the doors, one of the often-mentioned features of the Tesla Model X is its expansive windshield which extends up to the front seat headrests. Talk about a panoramic view.

The Model X has practically the same feature list as the Model S and cost of entry for the cheapest variant will set you back 80,000 dollars. As a practical SUV, its cargo capacity has been rated as very good, though the non-folding 2nd row seats have been criticized. For someone seeking an SUV for use in the urban jungle, the Model X is a great choice. Just don't expect it to handle as well offroad vehicles when the road turns rocky. The Tesla Model X has practically the same drivetrain and platform as the Model S.

## Apex Customs Models (3)

### Tesla Model 3

Tesla's newest entry into the electric vehicle market is the Model 3. The Tesla Model 3 is the company's attempt to penetrate the sports sedan market. Tens of

thousands more affordable than its siblings, the Model 3 drives and feels like a racy European sedan. Not well known is the fact that Tesla has used a new electric motor design, which is smaller yet able to give the power of the motors used in the S and X models. It also has a glass roof like the Model X, which surprisingly reflects enough heat to not bake the occupants on a sunny day.

One complaint is that it feels deceptively small, so new owners are more often than not likely to get curb rash on their wheels. The Model 3 has most of the features of its siblings in the lineup, although Enhanced Autopilot is a 6,000 dollar option as of this writing. But, it has haptic feedback when you change lanes, has a brake hold system, and a forward collision warning and avoidance system. As a sporty and compact alternative in a contested market, the Tesla Model 3 is a serious contender.

As you probably know Tesla's supercharger stations are now widely spread, and can charge your Tesla vehicle in the time it takes to take a snack. So, concerns about range and running out of juice are largely a thing of the past. Take that road trip you've been wanting to do in a Tesla.

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#teslawindowtint

## Common Tesla Customizations

### Customization and Personalization

There are now enough Tesla vehicles on the road to warrant extensive aftermarket support. Not all customization options for a Tesla need a clean sheet to be produced. For example, tire sizes for the standard wheels are commonly produced, and one can choose a tire more suited to the season or environment. With Tesla owners, the more common upgrades seem to be dashcam installations, vinyl wrapping chrome trim (de-chrome or chrome delete), matte vinyl body wraps, speaker and subwoofer upgrades, charge port modifications, carbon fiber trim packages, and center console modifications. Wireless charging is also popular, as a lot of owners have multiple electronic devices on their person.

Wheel and tire upgrades are always popular. Dustless brake pads have also caught on, as there's nothing more disconcerting than having a nice set of wheels covered in brake dust.

There are also owners who have bulletproofed their car, and owners who have upgraded their batteries to extend range and/or performance. Retrofitting updates from new models to old seems to be a thing with early generation owners.

### W1dz9syVt5L-min

These include battery upgrades, newer generation software updates, sensor retrofits, and charger upgrades. As Tesla owners and the general public get to know the technology that is in Tesla vehicles, more customizations for these technologically innovative vehicles will be brought to light.

## Things to Consider When Customizing a Tesla

Tesla vehicles have been designed and developed by designers and engineers who have committed themselves to electric vehicles, and who have thought out of the

proverbial box. For this reason, not all traditional upgrades are warranted nor desirable when customizing a Tesla.

Consider too that Teslas, while capable of beating Hellcats and Ferraris at the drag strip, are not sports cars in the traditional sense of the word. So when customizing a Tesla, aesthetic and functional improvements are the better way to go. Where air dams, wings, and spoilers do make a car distinctive and racy, consider that Teslas have very low coefficients of drag, and adding these appendages may actually make your car less efficient.

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#teslavinylwrap

Tesla Q&A

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Will Modifying My Tesla Void My Warranty?

The Magnuson-Moss Warranty Act implemented by the Federal Trade Commission expressly prohibits vehicle manufacturers and dealers from voiding your vehicle's warranty or denying coverage under warranty simply because you used an aftermarket part. While manufacturers and dealers are known to deny claims first and ask questions later, it's illegal for them to void your warranty simply for modifying your vehicle. In most cases, reminding dealers and manufacturers of this law will resolve disputes. However, at times we've seen legal representation is required to get them to comply.

Apex Customs makes no warranty or promises express or implied that your customization will not void warranties. Each case and circumstance is unique, but in general, the work we perform does not void manufacturer warranties. However, there are some modifications we perform which do in fact void manufacturer warranties. Tesla has a reputation for being incredibly strict with who can access their parts and work on their vehicles. We highly recommend you do your own research, consult with the manufacturer and/or dealer, and in some case even consult with legal counsel before proceeding with a customization if you are concerned about a warranty loss.

DODGE CHARGER & CHALLENGER CUSTOMIZATION

TEMPE, AZ | PHOENIX, AZ

Dodge-logo  
Dodge Charger & Challenger Customization

Rise Above the Ordinary

Dodge is an American automobile brand that was founded in 1900 by the Dodge brothers, Horace Elgin Dodge and John Francis Dodge. Initially, the Dodge brothers produced components for the burgeoning automobile industry, including transmissions and engines. They eventually began manufacturing their own cars in



1914, with the introduction of the Dodge Model 30.

Both the Charger and Challenger are known for their powerful engines and excellent performance capabilities. They offer a range of engine options, including V6 and V8 engines that can produce up to 797 horsepower in the Challenger SRT Hellcat Redeye. The Charger and Challenger have a classic muscle car look that many people find appealing. They have a sleek and aggressive design, with wide bodies and sharp angles that exude a sense of power and strength. Dodge offers a wide range of customization options for both the Charger and Challenger, allowing owners to tailor their vehicles to their individual preferences. This includes various exterior and interior color options, as well as performance upgrades and optional features. The Charger and Challenger have a long and storied history in American automotive culture. The Challenger was first introduced in the 1970s, while the Charger has been around since the 1960s. These cars have a loyal following among enthusiasts who appreciate their heritage and connection to the classic muscle car era.

At Apex Customs, we've worked on more than our share of Dodge vehicles. Our technicians have the experience and expertise to take your Charger or Challenger to a whole new level of sophistication and class. We offer a complete line of personalization and customization options to make your Dodge distinctive, yet reflective of your personality. Apart from our passion for all things with wheels, our collective experience as a team understands the unique needs of every owner and vehicle.

The Dodge Charger and Challenger are popular among car enthusiasts for their performance, style, customization options, and heritage.

## Dodge Challenger / Charger Customization

### Trending

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### Cold Air Intake

A cold air intake is an aftermarket engine upgrade that helps to increase power and fuel efficiency of your Dodge Charger/Challenger. It increases the amount of air that is drawn into the engine, allowing for a more efficient burn of fuel. In addition, the air is cooler, which helps to reduce the temperature of the engine, further improving its efficiency and power output. Cold air intakes are usually installed on the side of an engine bay and draw in air from outside the vehicle. The colder air is denser and contains more oxygen, resulting in a more efficient combustion of fuel. Cold air intakes also help to reduce the amount of heat generated by the engine, which can reduce engine wear and tear over time.

### Advantages of a Cold Air Intake

Improved engine performance: Cold air intakes are designed to draw in more air than stock air intakes, which can result in improved power and torque.

Improved fuel efficiency: Colder air is denser than warm air, which means more oxygen for combustion. This can lead to improved fuel efficiency.

Enhanced engine sound: A cold air intake can make your engine sound more aggressive and powerful.

Easier maintenance: Cold air intakes are generally easier to maintain than stock air intakes, since they require fewer parts and less frequent cleaning.

Cost-effectiveness: Cold air intakes are relatively inexpensive, making them an affordable performance upgrade.

### Hood Scoop

A hood scoop is an air intake system made to pull cool air from the outside of the car and send it into your Dodge Charger/Challenger's engine's intake system. Since this cool air is denser than the hot air beneath the hood, it has a higher concentration of oxygen molecules per volume. An engine performs better when it is supplied with colder, denser air because it can burn fuel more effectively. This is due to the fact that the fuel is combined with more oxygen, allowing for a more thorough combustion process. As a result, the engine generates greater power and torque and operates cooler, both of which can increase engine longevity. A hood scoop can also aid in lessening the amount of turbulence that surrounds the engine compartment. This turbulence may produce pockets of still air that obstruct the airflow into the engine, lowering its efficiency. An engine's airflow can be improved with hood scoops, which minimize turbulence by sucking air directly from the exterior of the car. The advantages of a hood scoop may differ based on the particular engine and vehicle configuration of your Dodge Charger/Challenger. An engine performance boost can be seen from a well-designed hood scoop.

### Advantages of a Hood Scoop for Dodge Charger/Challenger:

Pulls cool air from the outside of the car and sends it into the engine's intake system

Colder, denser air has a higher concentration of oxygen molecules per volume  
Fuel is combined with more oxygen, allowing for a more thorough combustion process

Generates greater power and torque and operates cooler, both of which can increase engine longevity

Minimizes turbulence by sucking air directly from the exterior of the car  
Can improve engine performance

### Splitters, Diffusers, Spoilers & Wickerbills

Splitters, diffusers, spoilers, and wickerbills are aerodynamic devices commonly used in automotive performance to improve the handling, stability, and overall performance of your Dodge Charger/Challenger. A splitter is a flat or curved panel that is typically mounted to the front of a vehicle's undercarriage. It works by creating a low-pressure area underneath the car, which helps to increase downforce and reduce lift at high speeds. This results in improved stability and better handling, especially in corners and at high speeds. A diffuser is a shaped panel that is mounted to the rear of a vehicle's undercarriage. It works by creating a high-pressure area underneath the car, which helps to reduce drag and

increase downforce. This can improve the overall aerodynamics of the vehicle and increase its top speed. A spoiler is a raised wing-like device that is mounted to the rear of a vehicle. It works by disrupting the airflow over the car, which can reduce lift and increase downforce. This can improve the vehicle's stability and handling, especially at high speeds and in corners. A wickerbill is a small vertical extension that is added to the rear edge of a spoiler. It works by creating additional turbulence in the airflow over the car, which can further reduce lift and increase downforce. This can improve the spoiler's effectiveness and improve the vehicle's overall performance. These aerodynamic devices can help to improve the handling, stability, and overall performance of your Dodge Charger/Challenger, especially in high-speed driving conditions.

#### Advantages of Splitters, Diffusers, Spoilers & Wickerbills

Splitter: creates low-pressure area; increases downforce; reduces lift

Diffuser: creates high-pressure area; reduces drag; increases downforce

Spoiler: disrupts airflow; reduces lift; increases downforce

Wickerbill: creates additional turbulence in the airflow; further reduces lift; increases downforce; improves spoiler's effectiveness

#### Widebody Kit

A Dodge Challenger wide body kit is an aftermarket upgrade that adds wider fenders and other body modifications to a Dodge Challenger, which can improve the car's appearance and performance. The kit typically includes front and rear fender flares, new rocker panels, and sometimes a new front bumper and rear diffuser. The wider fenders allow for larger wheels and tires, which can improve the car's grip and handling. The wider stance also provides a more aggressive look, and can help to improve the car's overall aerodynamics. There are several different types of Dodge Challenger wide body kits available, with different levels of modification and customization. Some kits are designed for specific model years or trims, while others are more universal in nature. Some kits may also require additional modifications or upgrades to the suspension, brakes, or other systems in order to fully take advantage of the wider stance and improved performance. A Dodge Challenger wide body kit can be a great way to enhance the appearance and performance of your vehicle.

#### Advantages of a Widebody Kit

Increased stability and performance

Enhanced cornering ability

Enhanced aesthetics

Improved aerodynamics

#### Performance Exhaust System

A performance exhaust system is an aftermarket upgrade that replaces the stock exhaust system in your Dodge Charger/Challenger with a higher-performing exhaust system. A performance exhaust system can provide noticeable improvements in engine performance, especially when combined with other modifications such as a cold air intake or engine tuning. A performance exhaust system typically has larger diameter pipes and fewer restrictions than a stock exhaust system, which allows for more exhaust gases to flow out of the engine. This can increase horsepower and torque, especially at high RPMs. A performance exhaust system can

improve the scavenging effect, which is the flow of exhaust gases out of the engine. This helps to remove exhaust gases from the combustion chamber more efficiently, which can increase engine power and efficiency. A performance exhaust system can reduce back pressure, which is the pressure that builds up in the exhaust system as a result of the exhaust gases flowing out of the engine. Reducing back pressure can improve engine performance by allowing the engine to breathe more freely. A performance exhaust system can also improve the sound of your vehicle, giving it a more aggressive or sporty tone. This is achieved by replacing the stock muffler with a high-performance muffler or by adding a resonator or other sound-enhancing device.

#### Advantages of a Performance Exhaust System

- Increased horsepower and torque
- Improved fuel economy
- Improved sound
- Improved aesthetics

#### Performance Chips

A performance chip, also known as an engine control module (ECM) or electronic control unit (ECU) tuner, is an aftermarket upgrade that can enhance your Dodge Charger's performance. A performance chip can alter the engine's air-to-fuel ratio, ignition timing, and other parameters in order to increase horsepower and torque. This can lead to improved acceleration and overall performance. A performance chip can also enhance throttle response, rendering the vehicle more responsive and easier to control. By optimizing the engine's performance, a performance chip can also increase fuel economy, which can save you money on gas in the long run. Numerous performance chips allow you to tailor the settings to your driving style or performance objectives. This may involve modifying the air-to-fuel ratio, ignition timing, and other parameters to optimize performance under varying driving conditions. A performance chip can be an excellent way to improve the performance of your Dodge Charger, particularly when combined with other upgrades such as a cold air intake or exhaust system.

#### Advantages of Performance Chips

- Improved Fuel Economy
- Increased Engine Performance
- Reduced Emissions
- Diagnostics
- Improved Safety

#### Superchargers

A supercharger can be a great way to improve the performance of your Dodge Charger, particularly if you're seeking significant power gains. By compressing the air entering the engine, a supercharger can increase the amount of air and fuel burned during each combustion cycle, resulting in an increase in horsepower and torque. This can result in faster acceleration and enhanced performance overall. A supercharger can also improve throttle response by delivering more power to the wheels more quickly, thereby making the vehicle feel more responsive and controllable. In contrast to turbochargers, which can experience lag as they spool up, superchargers deliver consistent power throughout the RPM range. Some supercharger kits come with adjustable settings, allowing you to tailor the boost pressure and other parameters to your specific performance objectives or driving style.

## Advantages of Superchargers

Improved Fuel Economy

Increased Power

Reduced Emissions

Easier Maintenance: Superchargers are generally easier to maintain than turbochargers

Quicker Acceleration

Performance Suspension & Sway Bars

A performance suspension and sway bars are aftermarket additions that can greatly improve your Dodge Challenger/Charger's handling and stability, especially if you enjoy driving aggressively or participate in performance driving events. A performance suspension and sway bars can aid in reducing body roll and enhancing the vehicle's stability when cornering. This can result in enhanced handling and responsiveness while driving. When driving over bumps or uneven surfaces, a performance suspension and sway bars can help reduce body movement. This can result in a more comfortable ride and enhanced vehicle control. A performance suspension and sway bars can improve the vehicle's traction by keeping the wheels in contact with the road surface more consistently, especially during high-speed or aggressive driving. Many performance suspension and sway bar kits come with settings that can be changed. This lets you fine-tune the suspension to fit your driving style or performance goals.

## Advantages of Performance Suspension & Sway Bars

Improved handling

Reduced body roll

Improved traction and grip

Enhanced stability

Increased performance

Wheels & Tires

The wheels and tires of your Dodge Charger/Challenger are a crucial component of the vehicle's performance and can have a significant impact on its handling, traction, and overall performance. Upgraded wheels and tires can improve a vehicle's traction, especially during acceleration, braking, and cornering, by providing better grip. This may lead to improved control and faster lap times. Upgrading to wheels and tires that are lighter and stiffer can help your car handle better by reducing the weight that isn't supported by springs and making the steering more responsive. This can make driving more engaging and responsive. Wider tires can improve a vehicle's cornering grip, allowing for higher cornering speeds. By choosing the right combination of wheel and tire sizes, you can make the vehicle handle and perform the way you want it to, based on how you drive or how well you want it to perform. Upgrading your Dodge Charger's wheels and tires can be a great way to boost its performance, particularly if you're looking to improve traction, handling, and overall performance.

## Advantages to Upgraded Wheels & Tires

Improved Handling

Improved Acceleration

Improved Braking

Improved Aesthetics

## FORD BRONCO CUSTOMIZATION

TEMPE, AZ | PHOENIX, AZ

Bronco\_Black\_Hz  
Ford Bronco

Stand Out from the Rest

The Ford Bronco is a sport-utility vehicle (SUV) that was first introduced by Ford Motor Company in 1965 as a direct competitor to the Jeep CJ-5 and International Harvester Scout. The Bronco was designed as an off-road vehicle that could also be used for daily transportation.

The original Bronco was a compact SUV that was available in both two-door and four-door versions, with removable hardtops and optional V8 engines. It quickly gained a reputation for its toughness and durability, as well as its off-road capabilities.

The Bronco was produced in various iterations until 1996, when it was discontinued due to declining sales. In 2020, Ford revived the Bronco nameplate with the introduction of the sixth-generation model, which is a modern interpretation of the classic SUV. The new Bronco features a retro-inspired design, removable doors and roof panels, and advanced off-road technologies, including a terrain management system and advanced four-wheel-drive capabilities.

Overall, the Ford Bronco has become an icon in the SUV market, known for its ruggedness, off-road capabilities, and distinctive style.

At Apex Customs, we've worked on more than our share of Ford vehicles. Our technicians have the experience and expertise to take your Bronco to a whole new level of sophistication and class. We offer a complete line of personalization and customization options to make your ride distinctive, yet reflective of your personality. Apart from our passion for all things with wheels, our collective experience as a team understands the unique needs of every owner and vehicle.

ford bronco  
Ford Bronco Customization

Trending

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751\_7395\_650x425

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Lift Kits

A lift kit is an aftermarket suspension upgrade that raises your Ford Bronco's suspension, allowing you to fit larger tires and increasing ground clearance. A lift kit can make it easier for your Ford Bronco to go off-road by raising the suspension and giving it more ground clearance. This can let you drive over more difficult trails and obstacles, making your driving experience more thrilling and

exciting. A lift kit can also improve visibility by elevating the driver's seat, allowing the driver to see over obstacles and get a better view of the surrounding terrain. Numerous lift kits include adjustable settings, allowing you to fine-tune the suspension to match your driving style and performance objectives. A lift kit can also improve the aesthetics of your Ford Bronco, giving it a more aggressive and commanding appearance on the road or the trail. A lift kit can be an excellent way to enhance the riding experience of your Ford Bronco, particularly if you enjoy off-road driving or want to improve the vehicle's appearance.

### Advantages of Lift Kits

**Increased Ground Clearance:** Installing a lift kit on an SUV increases the ground clearance, allowing for better off-road performance and more clearance for driveways, rocks, and other obstacles.

**Improved Traction and Stability:** Raising the center of gravity of an SUV improves its stability and traction, making it less likely to roll over when negotiating sharp turns at high speeds.

**Better Handling:** By raising the center of gravity of an SUV, the lift kit increases its handling capabilities, making it easier to drive in off-road conditions.

**Improved Off-Road Performance:** A lift kit increases the off-road performance of an SUV, allowing it to conquer larger obstacles and deeper ruts with ease.

**Increased Towing Capacity:** Installing a lift kit on an SUV increases its towing capacity, allowing it to pull heavier loads without compromising its performance.

### Off-Road Lighting

If you frequently go off-road at night or in low light, off-road lighting can be a useful addition to your Ford Bronco. Even in the darkest environments, off-road lighting can add additional illumination, making it simpler to see hazards, obstacles, and trail conditions. This can increase your safety and lower the chance of collisions or vehicle damage. Off-road lighting can also improve the way your Bronco looks, making it appear more tough and daring out on the trail. This can help you stand out from the crowd and make owning and operating your car more enjoyable. Off-road lighting can also make it easier for you to drive through unfamiliar or difficult terrain at night, giving you the confidence to explore new trails and routes. Many off-road lighting kits have settings that can be changed, so you can alter the intensity and direction of the light to suit your unique driving preferences or performance objectives.

### Advantages of Off-Road Lighting

**Improved Visibility:** Off-road lighting helps to improve visibility while driving in off-road conditions, helping you to spot obstacles and hazards more easily.

**Increased Safety:** Off-road lights provide additional illumination which can help enhance safety while driving off-road.

**Improved Maneuverability:** Off-road lights help to light up the terrain, allowing you to better navigate around obstacles, rocks, and other terrain features.

**Enhanced Appearance:** Off-road lights can give your SUV an aggressive, rugged look.

### Winches

If you frequently drive off-road or in difficult terrain, equipping your Ford Bronco with a winch can be an extremely useful addition to your vehicle. Mounting a winch to your Bronco is likely to prove to be a beneficial addition that will make your time spent off-roading much more enjoyable. If you find yourself in a difficult situation, such as getting stuck in mud, sand, or snow, a winch can help you free yourself and get unstuck. You can use the winch to pull your Bronco out of the stuck position and back onto solid ground if you first attach the winch cable to a secure anchor point. In addition to being used for one's own self-rescue, a winch can also be put to use to pull other vehicles out of difficult situations or provide assistance to those that are stranded. This is something that can be especially helpful if you are traveling with a group of people who are interested in off-roading and want to assist one another while you are out on the trail. A winch can also provide an enhanced level of safety by allowing you to recover from challenging circumstances without putting yourself or others in danger. For instance, if you find yourself stuck in a potentially hazardous position on a steep incline or close to a cliff, a winch can enable you to recover without putting your own or anyone else's safety in jeopardy. If your Bronco is equipped with a winch, its capability will increase, allowing you to confidently take on more difficult trails and obstacles. This can make your off-roading experience more exciting and adventurous, while also increasing the utility and usefulness of your vehicle in a variety of different settings and circumstances.

#### Advantages of Winches

**Increased Towing Capacity:** Winches on an SUV provide increased towing capacity, allowing you to pull heavier loads with relative ease.

**Versatility:** Winches are incredibly versatile and can be used for a variety of tasks, such as towing, winching, and hauling materials.

**Increased Safety:** Winches add an extra layer of safety to your vehicle, allowing you to safely maneuver in difficult terrain and get unstuck from tough spots.

**Cost-Effective:** Winches are relatively inexpensive and can be installed quickly, making them a cost-effective addition to an SUV.

**Easy to Use:** Winches are simple to use, making them an ideal choice for people who don't have a lot of experience with towing or winching.

#### Off-Road Bumpers

Your overall off-road riding experience can be significantly enhanced by installing off-road bumpers on your vehicle. These bumpers offer your vehicle an increased level of protection, clearance, and functionality. If you often drive off-road or on rough terrain, putting off-road bumpers on your car could be a good long-term investment. Off-road bumpers are made to give your vehicle's front and rear ends an additional layer of defense against damage and debris. Most of the time, they are made of strong materials like steel or aluminum, and they are made to withstand rocks, trees, and other types of roadblocks. Off-road bumpers can help keep your vehicle's body and mechanical parts from getting damaged, which can be expensive to fix or replace. They do this by providing additional protection. Off-road bumpers are typically designed to provide additional clearance between the body of your vehicle and the ground. This can be accomplished by increasing the height of the bumper. This can make it easier for you to navigate rough terrain and obstacles without getting your vehicle stuck or causing damage to its undercarriage. Off-road bumpers can also make your vehicle's approach and departure angles better. These angles are important for driving off-road and can be made better with off-road bumpers. Off-road bumpers can help drivers get up and down steep hills and over obstacles like rocks and



downed trees by giving them a steeper angle to approach and leave. Many off-road bumpers are made to work with winches, which can give you more options for self-rescue or helping another vehicle if you get stuck or need to help them.

#### Advantages of Off-Road Bumpers

**Increased protection** - Off-road bumpers are designed to provide more protection than traditional bumpers in case of a collision. They are usually made of heavier-duty materials, such as steel or aluminum, and are designed to absorb more of the impact of a crash.

**Improved ground clearance** - Off-road bumpers are designed to provide better ground clearance, which makes it easier to traverse rough and uneven terrain.

**Additional features** - Off-road bumpers often feature additional features, such as winch mounts and bull bars, which can be used to attach accessories and increase the vehicle's off-road capability.

**Improved styling** - Off-road bumpers can also add to the look of an SUV, giving it a more aggressive, rugged aesthetic.

#### Exhaust System

Installing a performance exhaust system on your Ford Bronco can enhance your off-road experience in many ways. A performance exhaust system can help your engine breathe better, which can increase horsepower and torque. This added power can help you navigate through difficult terrain more easily. A performance exhaust system often has a deeper and more aggressive tone compared to the stock exhaust. This can enhance your off-road experience by providing a more engaging and exciting exhaust note. Performance exhaust systems are often lighter than the stock exhaust system. This reduction in weight can improve your vehicle's overall performance by improving acceleration, braking, and handling. Some performance exhaust systems are designed to tuck up higher than the stock exhaust, which can provide increased ground clearance. This extra clearance can be helpful when navigating through rocky or uneven terrain. Performance exhaust systems are often made with higher quality materials than the stock exhaust. This increased durability can help protect your exhaust system from damage when off-roading.

#### Benefits of a Performance Exhaust System

**Increased Horsepower and Torque:** Performance exhaust systems can increase your SUV's horsepower and torque, allowing it to accelerate faster and have more pulling power.

**Improved Fuel Economy:** Performance exhaust systems can improve your SUV's fuel efficiency by reducing backpressure and allowing the engine to run more efficiently.

**Enhanced Sound Quality:** Performance exhaust systems can improve the sound of your SUV's engine and give it a more aggressive, throaty rumble.

**Weight Reduction:** Performance exhaust systems are typically lighter than stock exhaust systems, which can help improve your SUV's handling and overall performance.

**Improved Exhaust Flow:** Performance exhaust systems allow for the free flow of exhaust gases, reducing backpressure and improving engine performance.

#### Charge Piping

Charge piping refers to the pipes that carry compressed air (or "boost") from the turbocharger or supercharger to the engine intake manifold in a forced induction system. In an engine with forced induction, the air intake is pressurized to increase the air density and provide more oxygen for combustion, which allows for more fuel to be burned and more power to be produced. Charge piping is typically

made of aluminum, stainless steel, or other materials that can handle the high pressure and heat generated by the compressed air. The piping is usually designed to be as smooth and straight as possible to minimize turbulence and pressure drop, which can reduce performance.

### Benefits of Charge Piping

**Increased horsepower:** Charge piping increases the flow of air into the engine, which increases the horsepower and torque.

**Improved engine efficiency:** Installing a charge pipe allows more air to get into the engine and helps it to burn fuel more efficiently.

**Increased air intake volume:** Installing a charge pipe helps to increase the amount of air that is taken into the engine, resulting in improved throttle response, better acceleration and increased fuel economy.

**Enhanced sound:** Installing a charge pipe can give the engine a deeper and more aggressive sound.

**Improved turbocharger performance:** Installing a charge pipe helps improve the performance of the turbocharger by allowing it to spool up faster and provide better boost.

### JB4 Performance Tuning

The JB4 Tuning Box is a performance tuning device that is designed to increase the power output of turbocharged gasoline engines. It's a plug-and-play device that can be easily installed in your vehicle by connecting it to various sensors and actuators in the engine bay. The JB4 Tuning Box works by modifying the engine's sensor signals to increase boost pressure, alter fuel and ignition timing, and adjust other parameters to provide more power and torque. It allows for real-time tuning adjustments and includes a user-adjustable interface that can be accessed using a smartphone app or laptop computer. The JB4 Tuning Box is known for its versatility and ability to work with a wide range of vehicles and modifications. It's designed to be used with both stock and modified engines and can be customized to work with different aftermarket parts, such as intercoolers, exhaust systems, and intakes. The JB4 Tuning Box is a popular choice among car enthusiasts who want to increase the power and performance of their turbocharged gasoline engines without the need for extensive modifications or custom tuning.

### Advantages of Jb4 Performance Tuning

**Increased Horsepower and Torque:** JB4 performance tuning can result in increased horsepower and torque gains of up to 30%.

**Improved Throttle Response:** JB4 tuning can provide a more responsive throttle response for a better driving experience.

**Improved Fuel Efficiency:** The improved efficiency of your engine can result in better fuel economy.

**Easier Installation:** JB4 performance tuning is easy to install and can be done without professional help.

**Increased Safety:** Tuning your engine can help you avoid engine damage or failure due to overheating.

**Customizable Settings:** JB4 tuning allows for customizable settings, so you can adjust the performance to your own preference.

### Roof-top Tent System

A rooftop tent system can enhance your off-road experience in many ways. One of the main advantages of a rooftop tent system is the convenience it provides. With a rooftop tent, you don't need to set up and take down a traditional ground tent every night. Instead, you can simply climb up to your tent and get a good night's

sleep. A rooftop tent system can provide an added level of safety when camping in remote or unfamiliar locations. Sleeping off the ground can keep you safe from wildlife and other potential dangers. Rooftop tents are often more comfortable than traditional ground tents. They provide a more even surface to sleep on and are often equipped with additional features such as ventilation, lighting, and storage. With a rooftop tent system, you can enjoy a better view of your surroundings. This can be especially beneficial when camping in scenic locations or when wildlife watching. A rooftop tent system can make it easier to access remote camping locations that may not be accessible with a traditional ground tent. With a rooftop tent, you can set up camp on uneven or rocky terrain without worrying about finding a flat surface for your tent. A rooftop tent system can enhance your off-road experience by providing convenience, safety, comfort, and accessibility.

### Benefits Of a Roof-Top Tent System

**Increased Comfort:** Roof-top tent systems provide superior comfort compared to ground tents, as they are raised off the ground and get you away from the dirt and bugs.

**Easy Setup/Takedown:** Roof-top tents can be set up and taken down quickly, allowing for quick and easy setup when you're on the road.

**More Space:** Roof-top tent systems provide more space than traditional ground tents, as they are often larger in size and higher off the ground.

**Increased Safety:** Being up in the air and away from the ground eliminates the risk of animals or other creatures disturbing your sleep.

**Off-Road Accessibility:** Having your tent mounted on top of your vehicle allows for easier access to remote, off-road locations.

**Weather Protection:** Roof-top tents provide more protection from the elements than ground tents, as they are raised off the ground and often have additional features such as rainflaps and awnings.

### Overland Upgrades

Overlanding is a popular outdoor activity that involves exploring remote areas and camping in the wilderness for extended periods of time. Upgrading a vehicle or overlanding can involve a range of modifications to improve its performance, capability, and comfort in off-road and remote environments. Upgrading the suspension system can improve your SUV's performance off-road by increasing ground clearance and providing better articulation and stability. Common suspension upgrades include lift kits, larger tires, and upgraded shocks. Skid plates protect the undercarriage of your SUV from damage when off-roading on rocky or uneven terrain. They can be made of aluminum, steel, or other materials and are typically designed to fit specific models. A winch can help you get out of tricky situations when off-roading, such as when your SUV gets stuck in mud or sand. It's important to choose a winch with the appropriate weight capacity for your SUV. A roof rack can increase the storage capacity of your SUV, allowing you to carry additional gear, such as a rooftop tent, extra fuel, or water. Upgraded lighting can improve visibility when driving off-road at night. This can include LED light bars, fog lights, and headlights. Communication and navigation tools, such as a GPS unit, two-way radio, or satellite phone, can be essential for staying safe and connected when off-roading in remote areas. Upgrades to the interior of your SUV can improve comfort during long trips. This can include adding a portable refrigerator, a portable stove, and other camping gear. Overland upgrades to an SUV can significantly enhance its off-road capabilities and make it better suited for extended camping trips in remote areas.

## Benefits of Overland Upgrades

**Improved Off-Road Performance:** Overland upgrades can enhance your vehicle's off-road capabilities, allowing you to tackle terrain that would be difficult or impossible in a stock vehicle.

**Increased Comfort:** Overland upgrades can include suspensions, shocks, and differentials that are designed to improve your ride comfort over rough terrain.

**Improved Safety:** Overland upgrades can include additional safety features such as roll cages, improved lighting, and more advanced braking systems for improved off-road performance.

**Enhanced Aesthetics:** Overland upgrades can give your vehicle a more rugged, off-road look that will turn heads wherever you go.

**Increased Resale Value:** Investing in overland upgrades can increase the resale value of your vehicle, especially if you're looking to sell it to an off-road enthusiast.

### Fiberglass Fenders

Aftermarket fiberglass fenders that are molded specifically for your Bronco can provide several advantages. Aftermarket fiberglass fenders are molded to fit your Bronco precisely, ensuring a snug and secure fit. This can prevent movement and rattling while driving off-road, providing a smoother and more stable ride.

Fiberglass fenders are known for their durability and strength, which can provide better protection against rocks and other debris when driving off-road. They are also less likely to dent or scratch compared to stock metal fenders. Fiberglass fenders are significantly lighter than their metal counterparts, which can improve your Bronco's performance and fuel efficiency. This can also make it easier to maneuver your vehicle when driving off-road. Aftermarket fiberglass fenders can be customized to your liking, allowing you to choose from different styles, colors, and finishes to match your Bronco's overall look and feel. Fiberglass fenders are typically easier to install compared to metal fenders, as they require less drilling and modification. This can save you time and money on installation costs.

### Advantages of Fiberglass Fenders

**Lightweight:** Fiberglass fenders are much lighter than metal ones and can help improve the performance of your SUV.

**Durability:** Fiberglass fenders are much more resistant to rust and corrosion than metal ones, making them more reliable in the long run.

**Customization:** Fiberglass fenders are much easier to customize than metal ones, allowing you to make your SUV look unique.

**Cost:** Fiberglass fenders are generally more affordable than metal ones, making them a great choice if you're on a budget.

### Fiberglass Tops & Color-Match

Fiberglass tops for Ford Broncos are aftermarket roof structures made of fiberglass that are designed to replace the original soft-top or hard-top roofs. They can provide several benefits to the Ford Bronco owner. Fiberglass tops provide better protection against the elements compared to soft-tops, keeping you and your passengers dry during rain or snow. They also provide better insulation, keeping the interior of your Bronco warmer during colder weather. Fiberglass tops are more secure compared to soft-tops, as they are more difficult to cut or break into. This can provide peace of mind when leaving your Bronco parked in public areas or overnight. Fiberglass tops can help reduce wind noise and road noise while driving, providing a more comfortable and quieter ride. Fiberglass tops are known for their durability and strength, which can provide better protection

against debris when off-roading. They are also less prone to tears or damage compared to soft-tops. Fiberglass tops are available in a variety of styles and colors, allowing you to customize your Ford Bronco's appearance to your liking. Fiberglass tops can provide several benefits to the Ford Bronco owner, including better weather protection, security, noise reduction, durability, and customization options

### Recovery Points

Recovery points on an SUV are critical safety features that are designed to allow for safe and effective recovery of the vehicle in case it becomes stuck or immobilized. Recovery points provide secure attachment points for winch cables or tow straps, allowing the vehicle to be pulled out of mud, sand, snow, or other difficult terrain. Using proper recovery points ensures that the vehicle can be safely and securely extracted from a difficult situation without causing damage to the vehicle or endangering the passengers. Attaching recovery equipment to non-approved points can result in damage to the vehicle, or in worst cases, cause injury to occupants. Recovery points are specifically designed to handle the load and forces associated with a vehicle recovery. They provide strong and secure attachment points that can withstand the force of a winch or tow strap. An SUV with proper recovery points can tackle more challenging terrain with greater confidence, knowing that it can be safely recovered if necessary. If a vehicle recovery is performed improperly, it can result in significant damage to the vehicle and injury to individuals involved in the recovery. Having properly installed recovery points can minimize the risk of these scenarios and protect vehicle owner from legal liabilities. Some insurance policies may require that a vehicle has recovery points installed to be covered during off-road use. Recovery points are essential safety features for any SUV that is used for off-road activities or in areas with challenging terrain.

### Advantages of Recovery Points

**Improved Safety:** Recovery points help to ensure that your vehicle is securely attached during a winching or towing procedure, reducing the risk of an accident or injury.

**Vehicle Protection:** Recovery points help protect your vehicle from damage that could be caused by the winching or towing process.

**Added Versatility:** Having recovery points installed on your SUV provides you with greater flexibility when it comes to rescue and recovery operations, as you can attach your vehicle to other vehicles for additional power.

**Increased Ground Clearance:** By having recovery points, you can raise the vehicle higher off the ground, which can be beneficial if you are trying to traverse an obstacle or steep incline.

### Wheels & Tires

The wheels and tires are critical components of any off-road vehicle, and their importance cannot be overstated. The primary function of the wheels and tires is to provide traction. Off-road vehicles need to be able to grip the terrain to maintain traction, and the wheels and tires play a critical role in this. Large, aggressive tires with deep treads can provide the necessary traction to tackle steep inclines, loose dirt, mud, and other obstacles encountered in off-road terrain. The size of the wheels and tires on an off-road vehicle can also impact ground clearance, which is essential for navigating rocky or uneven terrain. Bigger tires can provide more ground clearance, allowing the vehicle to pass over

larger obstacles without getting hung up. Off-road driving can be tough on wheels and tires, with rocks, tree roots, and other obstacles presenting a constant hazard. High-quality, durable wheels and tires are essential to withstand the harsh conditions of off-road driving. The right wheels and tires can also improve handling, making it easier to control the vehicle in difficult terrain. For example, larger tires with lower air pressure can provide better grip and stability on loose surfaces. Finally, the appearance of the wheels and tires is an important consideration for many off-road enthusiasts. Custom wheels and tires can enhance the appearance of the vehicle and make it stand out on the trail.

### Benefits of Specialized Wheels & Tires

**Improved Handling:** Specialized wheels and tires provide better grip and improved handling performance, allowing for more precise cornering and greater control when driving.

**Enhanced Comfort:** Specialized tires are designed to absorb road vibrations and reduce noise, making for a smoother ride.

**Increased Safety:** Specialized tires provide better tread life and better traction on wet surfaces, which increases the safety of your vehicle.

**Improved Aesthetics:** Specialized wheels and tires can change the look of your vehicle, giving it a more aggressive or sporty appearance.

## JEEP WRANGLER CUSTOMIZATION

TEMPE, AZ | PHOENIX, AZ

jeep-3-logo-png-transparent  
Jeep Wrangler

Go anywhere. Do anything. In your customized Jeep.

The Jeep Wrangler is a compact SUV that is known for its ruggedness and off-road capabilities. It is a direct descendant of the original Jeep vehicles that were developed for military use during World War II, and it has a long and storied history as a go-anywhere vehicle.

The Wrangler is available in two- and four-door versions, with a range of engine options that includes a standard 3.6-liter V6 engine, a turbocharged 2.0-liter four-cylinder engine, and a 3.0-liter turbodiesel V6 engine. It is also available with either a six-speed manual transmission or an eight-speed automatic transmission.

One of the key features of the Wrangler is its ability to traverse rough terrain and challenging off-road environments. It features solid front and rear axles, a low-range transfer case, and high ground clearance, as well as advanced four-wheel-drive systems that are designed to provide maximum traction and control.

In addition to its off-road capabilities, the Wrangler is also known for its distinctive styling, which includes a boxy body, round headlights, and a seven-slot grille. The interior of the Wrangler is rugged and functional, with durable materials and a range of features that are designed to enhance the

vehicle's off-road capabilities.

The Jeep Wrangler is a popular SUV among off-road enthusiasts and outdoor adventurers who need a vehicle that can tackle challenging terrain and provide reliable performance in a variety of conditions.

At Apex Customs, we've worked on more than our share of Jeep vehicles. Our technicians have the experience and expertise to take your Jeep to a whole new level of sophistication and class. We offer a complete line of personalization and customization options to make your Jeep distinctive, yet reflective of your personality. Apart from our passion for all things with wheels, our collective experience as a team understands the unique needs of every owner and vehicle.

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Jeep Wrangler Customization

Trending

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Jeep Wrangler

White Jeep Wrangler Rubicon

LED Headlights

LED headlights for off-roading are specialized headlights designed for use in rugged outdoor terrain. They typically feature high-powered LED bulbs that offer brighter and more focused light than traditional halogen or incandescent bulbs. LED headlights for off-roading are designed to provide improved visibility in challenging off-road environments, such as rocky terrain, mud, and water crossings. If you frequently drive off-road at night or in low-light conditions, LED headlights can be a valuable investment as they offer superior lighting and visibility. LED headlights also have a longer lifespan than traditional bulbs and are more energy-efficient, so they can save you money in the long run.

Benefits of LED Headlights

**Improved Visibility:** LED headlights provide a significantly brighter and wider beam of light than traditional halogen headlights, allowing you to see further and have a better view of the road ahead.

**Reduced Glare:** LED headlights produce a more focused beam of light than halogen headlights, which reduces glare and makes it easier to see in low light conditions.

**Energy Efficiency:** LEDs use up to 80% less energy than halogen headlights, which helps to reduce your vehicle's fuel consumption and save you money.

**Longer Lifespan:** LEDs have an expected lifespan of up to 30,000 hours, which is significantly longer than the 2,000-4,000 hours of traditional halogen headlights.

**Enhanced Safety:** LED headlights are able to light up the road more quickly and clearly than halogen headlights, which can be especially helpful when driving in low light conditions.

Soft Top/Hard Top

There are two types of roofs that may be put on a Jeep Wrangler: soft-top and hard-top.

A soft-top is a removable fabric roof that is designed for easy installation. Typically, it consists of a fabric cover stretched over a metal frame and attached to the Vehicle with a series of snaps and zippers. Soft-tops are lightweight and adaptable, making them excellent for warmer climates and off-roading when you want to feel the breeze. They are also reasonably priced and simple to store when not in use. A hardtop, on the other hand, is a solid roof built from fiberglass or another resilient material. It is designed to be bolted onto the Jeep's frame and is more permanent than a soft-top. Hardtops are heavier and more secure than soft-tops, making them excellent for usage in colder climates or when more weather protection is required. They are also more expensive and difficult to remove and store than soft-tops. Both soft-tops and hard-tops have their own benefits and drawbacks, and the ideal pick for you will depend on your specific needs and tastes. Some Jeep Wrangler owners opt to have both a soft-top and a hard-top so they can quickly swap between the two depending on the weather and road conditions.

### Advantages of Soft & Hard Tops

#### Soft Top:

- Allows for open air driving.
- Easier to remove and install than a hard top.
- Lighter weight than a hard top.
- More affordable than a hard top.

#### Hard Top:

- Provides more security than a soft top.
- Better protection from the elements.
- More durable than a soft top.
- Better insulation from the outside temperature.

#### Lift Kits & Suspension Upgrades

A lift kit is an aftermarket suspension adjustment that elevates the suspension of your Jeep Wrangler, allowing you to install wider tires and boosting ground clearance. By lifting the suspension and increasing ground clearance, a lift kit can make it easier for your Jeep Wrangler to travel off-road. This will allow you to traverse more challenging terrain and obstacles, making your driving experience more enjoyable. By elevating the driver's seat, a lift kit can also improve visibility, allowing the driver to see over obstructions and obtain a better view of the surrounding terrain. Several lift kits come with customizable settings, allowing you to tailor the suspension to your driving style and performance goals. A raise kit can also improve your Jeep's cosmetics, giving it a more aggressive and imposing appearance on the road or trail. Whether you prefer off-road driving or want to improve the aesthetics of your Jeep Wrangler, a lift kit might be a great method to improve the driving experience.

### Benefits of a Lift Kit & Suspension Upgrade

**Improved handling and cornering:** By upgrading your suspension, you can improve the handling and cornering of your SUV, making it easier to navigate turns and roads.

**Increased ground clearance:** Installing a lift kit on your SUV can give you increased ground clearance, allowing you to navigate more challenging terrain.

**Improved ride quality:** Installing a lift kit and suspension upgrade can provide a smoother, more comfortable ride.



Improved off-roading capability: With a lift kit and suspension upgrade, your SUV will be better suited to handle off-road conditions, allowing you to explore more.

Enhanced style: A lift kit and suspension upgrade can also give your SUV a more aggressive, commanding look that can help you stand out from the crowd.

#### Off-Road Lighting

If you frequently go off-road at night or in low light, off-road lighting can be a useful addition to your Jeep Wrangler. Even in the darkest environments, off-road lighting can add additional illumination, making it simpler to see hazards, obstacles, and trail conditions. This can increase your safety and lower the chance of collisions or vehicle damage. Off-road lighting can also improve the way your Jeep looks, making it appear more tough and daring out on the trail. This can help you stand out from the crowd and make owning and operating your car more enjoyable. Off-road lighting can also make it easier for you to drive through unfamiliar or difficult terrain at night, giving you the confidence to explore new trails and routes. Many off-road lighting kits have settings that can be changed, so you can alter the intensity and direction of the light to suit your unique driving preferences or performance objectives.

#### Advantages of Off-Road Lighting

Improved Visibility: Off-road lights can help you see further when driving on rough terrain or in low-light conditions, allowing you to navigate obstacles more easily.

Improved Safety: Off-road lights can also help you avoid obstacles that may be hidden in the darkness, reducing the risk of expensive repairs or accidents.

Increased Confidence: With off-road lights, you can have more confidence while driving on rougher terrain, making it easier to tackle difficult terrain without fear.

Enhanced Style: Off-road lights can also give your SUV a more aggressive, sporty look, making it stand out from the crowd.

#### Winches

If you frequently drive off-road or in difficult terrain, equipping your Jeep Wrangler with a winch can be an extremely useful addition to your vehicle.

Mounting a winch to your Jeep is likely to prove to be a beneficial addition that will make your time spent off-roading much more enjoyable. If you find yourself in a difficult situation, such as getting stuck in mud, sand, or snow, a winch can help you free yourself and get unstuck. You can use the winch to pull your Jeep out of the stuck position and back onto solid ground if you first attach the winch cable to a secure anchor point. In addition to being used for one's own self-rescue, a winch can also be put to use to pull other vehicles out of difficult situations or provide assistance to those that are stranded. This is something that can be especially helpful if you are traveling with a group of people who are interested in off-roading and want to assist one another while you are out on the trail. A winch can also provide an enhanced level of safety by allowing you to recover from challenging circumstances without putting yourself or others in danger. For instance, if you find yourself stuck in a potentially hazardous position on a steep incline or close to a cliff, a winch can enable you to recover without putting your own or anyone else's safety in jeopardy. If your Jeep is equipped with a winch, its capability will increase, allowing you to confidently take on more difficult trails and obstacles. This can make your off-roading experience more exciting and adventurous, while also increasing the utility and usefulness of your vehicle in a variety of different settings and circumstances.

## Advantages of Winches

**Increased Towing Capacity:** Winches on an SUV provide increased towing capacity, allowing you to pull heavier loads with relative ease.

**Versatility:** Winches are incredibly versatile and can be used for a variety of tasks, such as towing, winching, and hauling materials.

**Increased Safety:** Winches add an extra layer of safety to your vehicle, allowing you to safely maneuver in difficult terrain and get unstuck from tough spots.

**Cost-Effective:** Winches are relatively inexpensive and can be installed quickly, making them a cost-effective addition to an SUV.

**Easy to Use:** Winches are simple to use, making them an ideal choice for people who don't have a lot of experience with towing or winching.

## Off-Road Bumpers

Your overall off-road riding experience can be significantly enhanced by installing off-road bumpers on your vehicle. These bumpers offer your vehicle an increased level of protection, clearance, and functionality. If you often drive off-road or on rough terrain, putting off-road bumpers on your car could be a good long-term investment. Off-road bumpers are made to give your vehicle's front and rear ends an additional layer of defense against damage and debris. Most of the time, they are made of strong materials like steel or aluminum, and they are made to withstand rocks, trees, and other types of roadblocks. Off-road bumpers can help keep your vehicle's body and mechanical parts from getting damaged, which can be expensive to fix or replace. They do this by providing additional protection. Off-road bumpers are typically designed to provide additional clearance between the body of your vehicle and the ground. This can be accomplished by increasing the height of the bumper. This can make it easier for you to navigate rough terrain and obstacles without getting your vehicle stuck or causing damage to its undercarriage. Off-road bumpers can also make your vehicle's approach and departure angles better. These angles are important for driving off-road and can be made better with off-road bumpers. Off-road bumpers can help drivers get up and down steep hills and over obstacles like rocks and downed trees by giving them a steeper angle to approach and leave. Many off-road bumpers are made to work with winches, which can give you more options for self-rescue or helping another vehicle if you get stuck or need to help them.

## Advantages of Off-Road Bumpers

**Increased protection** - Off-road bumpers are designed to provide more protection than traditional bumpers in case of a collision. They are usually made of heavier-duty materials, such as steel or aluminum, and are designed to absorb more of the impact of a crash.

**Improved ground clearance** - Off-road bumpers are designed to provide better ground clearance, which makes it easier to traverse rough and uneven terrain.

**Additional features** - Off-road bumpers often feature additional features, such as winch mounts and bull bars, which can be used to attach accessories and increase the vehicle's off-road capability.

**Improved styling** - Off-road bumpers can also add to the look of an SUV, giving it a more aggressive, rugged aesthetic.

## Exhaust System

Installing a performance exhaust system on your Jeep Wrangler can enhance your off-road experience in many ways. A performance exhaust system can help your engine breathe better, which can increase horsepower and torque. This added power can help you navigate through difficult terrain more easily. A performance

exhaust system often has a deeper and more aggressive tone compared to the stock exhaust. This can enhance your off-road experience by providing a more engaging and exciting exhaust note. Performance exhaust systems are often lighter than the stock exhaust system. This reduction in weight can improve your vehicle's overall performance by improving acceleration, braking, and handling. Some performance exhaust systems are designed to tuck up higher than the stock exhaust, which can provide increased ground clearance. This extra clearance can be helpful when navigating through rocky or uneven terrain. Performance exhaust systems are often made with higher quality materials than the stock exhaust. This increased durability can help protect your exhaust system from damage when off-roading.

### Benefits of a Performance Exhaust System

**Increased Horsepower and Torque:** Performance exhaust systems can increase your SUV's horsepower and torque, allowing it to accelerate faster and have more pulling power.

**Improved Fuel Economy:** Performance exhaust systems can improve your SUV's fuel efficiency by reducing backpressure and allowing the engine to run more efficiently.

**Enhanced Sound Quality:** Performance exhaust systems can improve the sound of your SUV's engine and give it a more aggressive, throaty rumble.

**Weight Reduction:** Performance exhaust systems are typically lighter than stock exhaust systems, which can help improve your SUV's handling and overall performance.

**Improved Exhaust Flow:** Performance exhaust systems allow for the free flow of exhaust gases, reducing backpressure and improving engine performance.

### Rooftop Tent System

A rooftop tent system can enhance your off-road experience in many ways. One of the main advantages of a rooftop tent system is the convenience it provides. With a rooftop tent, you don't need to set up and take down a traditional ground tent every night. Instead, you can simply climb up to your tent and get a good night's sleep. A rooftop tent system can provide an added level of safety when camping in remote or unfamiliar locations. Sleeping off the ground can keep you safe from wildlife and other potential dangers. Rooftop tents are often more comfortable than traditional ground tents. They provide a more even surface to sleep on and are often equipped with additional features such as ventilation, lighting, and storage. With a rooftop tent system, you can enjoy a better view of your surroundings. This can be especially beneficial when camping in scenic locations or when wildlife watching. A rooftop tent system can make it easier to access remote camping locations that may not be accessible with a traditional ground tent. With a rooftop tent, you can set up camp on uneven or rocky terrain without worrying about finding a flat surface for your tent. A rooftop tent system can enhance your off-road experience by providing convenience, safety, comfort, and accessibility.

### Benefits Of a Roof-Top Tent System

**Increased Comfort:** Roof-top tent systems provide superior comfort compared to ground tents, as they are raised off the ground and get you away from the dirt and bugs.

**Easy Setup/Takedown:** Roof-top tents can be set up and taken down quickly, allowing for quick and easy setup when you're on the road.

**More Space:** Roof-top tent systems provide more space than traditional ground tents, as they are often larger in size and higher off the ground.

**Increased Safety:** Being up in the air and away from the ground eliminates the risk of animals or other creatures disturbing your sleep.

**Off-Road Accessibility:** Having your tent mounted on top of your vehicle allows for easier access to remote, off-road locations.

**Weather Protection:** Roof-top tents provide more protection from the elements than ground tents, as they are raised off the ground and often have additional features such as rainflaps and awnings.

#### Overland Upgrades

Overlanding is a popular outdoor activity that involves exploring remote areas and camping in the wilderness for extended periods of time. Upgrading a vehicle or overlanding can involve a range of modifications to improve its performance, capability, and comfort in off-road and remote environments. Upgrading the suspension system can improve your SUV's performance off-road by increasing ground clearance and providing better articulation and stability. Common suspension upgrades include lift kits, larger tires, and upgraded shocks. Skid plates protect the undercarriage of your SUV from damage when off-roading on rocky or uneven terrain. They can be made of aluminum, steel, or other materials and are typically designed to fit specific models. A winch can help you get out of tricky situations when off-roading, such as when your SUV gets stuck in mud or sand. It's important to choose a winch with the appropriate weight capacity for your SUV. A roof rack can increase the storage capacity of your SUV, allowing you to carry additional gear, such as a rooftop tent, extra fuel, or water. Upgraded lighting can improve visibility when driving off-road at night. This can include LED light bars, fog lights, and headlights. Communication and navigation tools, such as a GPS unit, two-way radio, or satellite phone, can be essential for staying safe and connected when off-roading in remote areas. Upgrades to the interior of your SUV can improve comfort during long trips. This can include adding a portable refrigerator, a portable stove, and other camping gear. Overland upgrades to an SUV can significantly enhance its off-road capabilities and make it better suited for extended camping trips in remote areas.

#### Benefits of Overland Upgrades

**Improved Off-Road Performance:** Overland upgrades can enhance your vehicle's off-road capabilities, allowing you to tackle terrain that would be difficult or impossible in a stock vehicle.

**Increased Comfort:** Overland upgrades can include suspensions, shocks, and differentials that are designed to improve your ride comfort over rough terrain.

**Improved Safety:** Overland upgrades can include additional safety features such as roll cages, improved lighting, and more advanced braking systems for improved off-road performance.

**Enhanced Aesthetics:** Overland upgrades can give your vehicle a more rugged, off-road look that will turn heads wherever you go.

**Increased Resale Value:** Investing in overland upgrades can increase the resale value of your vehicle, especially if you're looking to sell it to an off-road enthusiast.

#### Axle Upgrades

Axle upgrades can significantly improve the performance of your Jeep in several ways. One of the most significant benefits of upgrading your axles is increased strength. This is particularly important for Jeeps that are used for off-roading, as the stock axles may not be able to handle the stress of more challenging terrain. Upgraded axles are designed to be stronger and more durable, so they can

handle more weight, torque, and stress. Axle upgrades can also improve traction, which is critical for off-roading. Upgraded axles often feature stronger and more aggressive differentials, which help transfer power to the wheels more effectively. This improves traction and makes it easier to climb hills, traverse uneven terrain, and navigate through mud, sand, and snow. Upgraded axles can also increase ground clearance, which is another crucial factor for off-roading. Many aftermarket axles are designed to sit higher than stock axles, which means you'll have more clearance between the ground and the underside of your Jeep. This can help you avoid obstacles and reduce the risk of getting stuck or damaged. If you plan to install larger tires on your Jeep, you may need to upgrade your axles to accommodate the extra weight and stress. Upgraded axles are often designed to handle larger tires, so you can enjoy improved performance without worrying about damaging your Jeep. Upgrading your axles can significantly improve the performance of your Jeep, especially if you enjoy off-roading or plan to make modifications to your vehicle.

### Benefits of Axle Upgrades

**Improved Handling:** Upgrading your SUV's axles will provide improved handling and maneuverability. This is especially important for off-roading, where you need your vehicle to handle rough terrain and navigate tight turns.

**Increased Durability:** Upgrading your axles will also provide added durability, as better quality axles are designed to handle heavier loads and more frequent use. This is especially important if you plan on towing or carrying heavy loads in your SUV.

**Improved Safety:** Better quality axles can provide increased safety, as they are designed to be more resistant to wear and tear. This can help reduce the risk of a catastrophic failure while you're on the road.

**Increased Performance:** Upgrading your axles can also provide improved performance, as better quality axles can provide better torque and traction. This is especially important for off-roading, where your vehicle needs to be able to handle rough terrain and tight turns.

### On-board Air

You can enjoy the convenience of having air on demand regardless of where you are thanks to an on-board air system. One of the most common uses of an on-board air system is to inflate tires. When you're off-roading, you may need to lower your tire pressure to increase traction and improve performance. However, when you return to the road, you'll need to reinflate your tires to their proper pressure. An on-board air system allows you to do this quickly and conveniently, without having to carry a separate air compressor or drive to a gas station. Another benefit of an on-board air system is that it can power pneumatic tools, such as impact wrenches, drills, and air saws. This can be helpful if you need to make repairs or modifications to your Jeep while off-roading or camping. With an on-board air system, you can bring the tools you need with you and power them using your Jeep's battery and alternator. An on-board air system can also be used to control air lockers. Air lockers are differential lockers that allow you to lock the front and rear differentials together, providing improved traction and performance in difficult terrain. Many air locker systems require an on-board air compressor to function, so installing an on-board air system can help you take advantage of this feature. If your Jeep is equipped with an air suspension system, an on-board air system can help you maintain proper air pressure and adjust your suspension settings on the fly. This can improve your ride comfort, handling, and performance in various driving conditions. An on-board air system can be a valuable addition to your Jeep, providing convenience, versatility, and

improved performance in various situations.

### Benefits of On-Board Air

**Improved Fuel Economy:** On-board air systems improve fuel economy by reducing engine load when you need to inflate or deflate your tires. The onboard air compressor reduces the need for you to run your engine to power a separate air compressor.

**Improved Tire Performance:** On-board air can help improve the performance of your tires by allowing you to adjust their pressure to the correct level for the terrain you are driving on. This will help ensure better contact between your tires and the road, providing improved traction, braking, and overall handling.

**Safety:** On-board air allows you to quickly and easily adjust the air pressure in your tires, which can help you avoid tire blowouts or other safety issues caused by under- or over-inflated tires.

**Convenience:** An onboard air system eliminates the need to carry around a separate air compressor that you need to keep in your trunk. This makes it much easier to adjust the air pressure in your tires when needed.

### Performance Chips

A performance chip, also known as an engine control module (ECM) or electronic control unit (ECU) tuner, is an aftermarket upgrade that can enhance your vehicle's performance. A performance chip can alter the engine's air-to-fuel ratio, ignition timing, and other parameters in order to increase horsepower and torque. This can lead to improved acceleration and overall performance. A performance chip can also enhance throttle response, rendering the vehicle more responsive and easier to control. By optimizing the engine's performance, a performance chip can also increase fuel economy, which can save you money on gas in the long run. Numerous performance chips allow you to tailor the settings to your driving style or performance objectives. This may involve modifying the air-to-fuel ratio, ignition timing, and other parameters to optimize performance under varying driving conditions. A performance chip can be an excellent way to improve the performance of your Jeep, particularly when combined with other upgrades such as a cold air intake or exhaust system.

### Benefits of an ECM Performance Chip

**Improved fuel efficiency:** ECMs can help optimize the running of your engine to make it more fuel efficient.

**Reduced emissions:** By optimizing the running of your engine, the ECM can help reduce emissions.

**Increased performance:** With an ECM, you can tune your engine to get better performance from it.

**Diagnostics monitoring:** An ECM can provide real-time diagnostics monitoring to help you detect any issues with your engine quickly.

**Enhanced safety:** ECMs can be used to monitor different safety systems in your vehicle, such as airbags and brakes.

**Improved driving experience:** The ECM can be used to customize the driving experience of your vehicle, such as with automatic transmission settings and suspension settings.

### Superchargers

A supercharger can be a great way to improve the performance of your Jeep Wrangler, particularly if you're seeking significant power gains. By compressing the air entering the engine, a supercharger can increase the amount of air and fuel burned during each combustion cycle, resulting in an increase in horsepower

and torque. This can result in faster acceleration and enhanced performance overall. A supercharger can also improve throttle response by delivering more power to the wheels more quickly, thereby making the vehicle feel more responsive and controllable. In contrast to turbochargers, which can experience lag as they spool up, superchargers deliver consistent power throughout the RPM range. Some supercharger kits come with adjustable settings, allowing you to tailor the boost pressure and other parameters to your specific performance objectives or driving style.

### Advantages of a Supercharger

**Increased Horsepower and Torque:** One of the primary benefits of a supercharger is that it increases the horsepower and torque of an engine. This means that an SUV equipped with a supercharger can accelerate faster and tow heavier loads.

**Improved Fuel Economy:** Contrary to popular belief, a supercharger can actually help to improve fuel economy. Superchargers are designed to be very efficient and use only the amount of fuel that is necessary to increase the power output of the engine.

**Reduced Stress on the Engine:** A supercharger helps to reduce the stress that is placed on the engine of an SUV by providing additional power without requiring the engine to work as hard.

**Increased Durability:** The use of a supercharger can help to increase the durability of an engine. This is due to the fact that the engine is not being stressed as much which can help to extend its lifespan.

### Motor Swaps

A motor swap refers to the process of replacing the engine in a vehicle with a different engine, typically one that is more powerful or has better performance characteristics. In the context of an off-road vehicle, a motor swap can provide several benefits. A more powerful engine can provide increased torque and horsepower, which can help you tackle more challenging terrain and obstacles. If your current engine is old or worn out, a motor swap can provide a fresh start with a newer engine that is more reliable and less likely to break down.

Depending on the engine you choose, a motor swap could result in better fuel efficiency and lower operating costs. When you swap your engine, you can choose from a wide range of different engines and configurations, allowing you to tailor your vehicle to your specific needs and preferences.

### Benefits of a Motor Swap

**Increased Performance:** A motor swap can provide your SUV with a significant power increase. This can mean better acceleration and improved handling.

**Better Fuel Economy:** Newer engines tend to be more efficient than older ones, so a motor swap could result in improved fuel economy.

**Improved Reliability:** By swapping in a newer, more reliable engine, you can significantly reduce the chances of an unexpected breakdown.

**Cost Savings:** Over time, a motor swap can save you money on maintenance and repair costs.

**Environmental Benefits:** A newer, more efficient engine can result in reduced emissions, making your SUV more environmentally friendly.

### ARB Lockers

Jeep Air Lockers from ARB can significantly improve your four-wheel-drive experience by providing enhanced traction and control in challenging off-road situations. Air Lockers provide improved traction by locking the front and rear differentials together, allowing the wheels on each axle to rotate at the same

speed. This ensures that both wheels on each axle receive equal torque, regardless of the terrain, resulting in improved traction and performance. With Air Lockers engaged, you can maintain better control of your Jeep in difficult terrain. By providing equal torque to both wheels on each axle, Air Lockers help to prevent wheel spin and slippage, making it easier to climb steep hills, crawl over rocks, and navigate through mud, sand, and snow. Air Lockers can significantly enhance your Jeep's off-road capability by allowing you to take on more challenging terrain. With improved traction and control, you can confidently tackle steep inclines, deep ruts, and other obstacles that would otherwise be too difficult or impossible to navigate. By providing improved traction and control, Air Lockers can also reduce wear and tear on your Jeep's drivetrain. When your wheels spin or slip, it puts additional stress on your Jeep's axles, differential, and other components. With Air Lockers engaged, you can minimize this stress and ensure that your Jeep's drivetrain lasts longer and requires less maintenance.

### Advantages of ARB Lockers

**Increased Traction:** ARB Lockers offer improved traction in all off-road conditions, including mud, sand, snow, and uneven terrain. By locking both axles together, the tires are forced to turn at the same rate, providing better grip and more power to the ground.

**Improved Safety:** Since both tires are forced to turn at the same rate, the vehicle is more stable and less likely to roll when cornering or on hills. This provides greater safety for the driver and passengers.

**Increased Reliability:** ARB Lockers are designed to withstand extreme off-road conditions and provide reliable traction in even the toughest terrain. The locker is sealed from the elements, preventing dirt and dust from entering the locker, which can cause premature wear and failure.

**Improved Performance:** The improved traction of an ARB Locker allows the vehicle to accelerate faster and provide more power to the ground, resulting in improved performance.

**Increased Durability:** The ARB Locker is designed to be durable, even in the harshest off-road conditions. The locker is constructed from high-strength materials, ensuring it can withstand the toughest off-road conditions.

### Wheels & Tires

The wheels and tires are critical components of any off-road vehicle, and their importance cannot be overstated. The primary function of the wheels and tires is to provide traction. Off-road vehicles need to be able to grip the terrain to maintain traction, and the wheels and tires play a critical role in this. Large, aggressive tires with deep treads can provide the necessary traction to tackle steep inclines, loose dirt, mud, and other obstacles encountered in off-road terrain. The size of the wheels and tires on an off-road vehicle can also impact ground clearance, which is essential for navigating rocky or uneven terrain. Bigger tires can provide more ground clearance, allowing the vehicle to pass over larger obstacles without getting hung up. Off-road driving can be tough on wheels and tires, with rocks, tree roots, and other obstacles presenting a constant hazard. High-quality, durable wheels and tires are essential to withstand the harsh conditions of off-road driving. The right wheels and tires can also improve handling, making it easier to control the vehicle in difficult terrain. For example, larger tires with lower air pressure can provide better grip and stability on loose surfaces. Finally, the appearance of the wheels and tires is an important consideration for many off-road enthusiasts. Custom wheels and tires can enhance the appearance of the vehicle and make it stand out on the trail.



## Benefits of Specialized Wheels & Tires

**Improved Handling:** Specialized wheels and tires provide better grip and improved handling performance, allowing for more precise cornering and greater control when driving.

**Enhanced Comfort:** Specialized tires are designed to absorb road vibrations and reduce noise, making for a smoother ride.

**Increased Safety:** Specialized tires provide better tread life and better traction on wet surfaces, which increases the safety of your vehicle.

**Improved Aesthetics:** Specialized wheels and tires can change the look of your vehicle, giving it a more aggressive or sporty appearance.

## BMW M SERIES CUSTOMIZATION

TEMPE, AZ | PHOENIX, AZ

BMW-Logo-PNG-File

BMW M Series

### Sheer Driving Pleasure

The BMW M series is a line of high-performance vehicles developed by the BMW Motorsport division (now known as BMW M GmbH). These cars are built with the intention of providing an exceptional driving experience, with an emphasis on power, handling, and precision.

The first BMW M car was the M1, which was produced in 1978. Since then, BMW has created a variety of M cars, including the M2, M3, M4, M5, M6, X3 M, X4 M, X5 M, X6 M, and Z4 M. These cars are known for their powerful engines, upgraded suspensions, larger brakes, and distinctive styling.

The M series cars are designed for performance driving enthusiasts who want a vehicle that can be driven both on the street and on the track. They offer a combination of luxury and performance, with high-quality materials used throughout the interior, as well as cutting-edge technology and safety features. The M series is widely considered to be one of the most respected performance car lineups in the world.

Apex Customs is a BMW M Series specialist. When you bring your BMW M Series to our service center, you'll get the benefit of our professionals' extensive knowledge and experience. When you shop with us, you may choose from a wide variety of accessories and additions to make your vehicle look and feel unique and representative of who you are. In addition to a shared love of automobiles, our team has the expertise to meet the individual requirements of each owner and vehicle.

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BMW M Series Customization

Trending

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Cold Air Intake

A cold air intake is an aftermarket engine upgrade that helps to increase power and fuel efficiency of your Dodge Charger/Challenger. It increases the amount of air that is drawn into the engine, allowing for a more efficient burn of fuel. In addition, the air is cooler, which helps to reduce the temperature of the engine, further improving its efficiency and power output. Cold air intakes are usually installed on the side of an engine bay and draw in air from outside the vehicle. The colder air is denser and contains more oxygen, resulting in a more efficient combustion of fuel. Cold air intakes also help to reduce the amount of heat generated by the engine, which can reduce engine wear and tear over time.

Benefits of Cold Air Intake:

Increases power and fuel efficiency of Dodge Charger/Challenger  
Draws in air from outside the vehicle  
Colder air is denser and contains more oxygen, resulting in a more efficient combustion of fuel  
Helps to reduce the amount of heat generated by the engine, which can reduce engine wear and tear over time  
Usually installed on the side of an engine bay

Limited Slip Differential

a limited slip differential can improve the performance of your BMW M series car by providing better traction, more control, improved handling, and better launches. A limited slip differential can transfer power to the wheels with the most traction, which can improve acceleration and cornering. This is because an LSD will prevent one wheel from spinning excessively, thereby transferring more power to the wheel with better traction. With an LSD, you have more control over your car in high-speed cornering situations. This is because the LSD will transfer more torque to the outside wheel, which helps keep the car stable and prevent understeer or oversteer. LSD can also improve the handling of your car by reducing the likelihood of wheel spin, which can cause a loss of control. The LSD can also help reduce the amount of body roll during cornering, which can improve overall stability. With an LSD, you can get better launches from a standing start. This is because the LSD will transfer more power to the wheel with better traction, which can reduce wheel spin and improve acceleration

Benefits of Limited Slip Differential:

Improved traction  
More control  
Improved handling  
Better launches  
Transfers power to wheels with most traction  
Reduces wheel spin  
Reduces body roll  
Prevents understeer or oversteer  
Improves stability  
Performance Suspension & Swaybars

Upgrading to a performance suspension and sway bar system can greatly improve your BMW M series handling, traction, steering response, and customizability, all of which can lead to a more engaging and enjoyable driving experience. A performance suspension and sway bar system can improve your car's handling by reducing body roll, improving cornering grip, and reducing understeer or oversteer tendencies. This allows your car to stay more planted and stable during aggressive driving, which can lead to faster lap times on a racetrack or improved driving confidence on the road. A performance suspension system can help keep your car's tires in better contact with the road surface, which can improve traction and acceleration. This is because a stiffer suspension will help keep your car's weight transfer more controlled during hard acceleration or cornering, which can prevent wheelspin and improve overall grip. Upgrading to a performance sway bar can improve your car's steering response by reducing body roll and increasing the amount of weight transfer to the outside wheels during cornering. This can improve your car's turn-in response and give you more confidence to take corners at higher speeds. Performance suspension and sway bar systems are typically adjustable, allowing you to fine-tune your car's handling characteristics to your liking. This means you can adjust your suspension and sway bar settings to match your driving style or specific track conditions, which can lead to faster lap times and a more enjoyable driving experience overall.

#### Advantages of Performance Suspension & Sway Bars:

Improved handling by reducing body roll and improving cornering grip  
Improved traction and acceleration due to increased contact with the road surface  
Improved steering response by reducing body roll and increasing weight transfer to the outside wheels during cornering  
Ability to customize and fine-tune suspension and sway bar settings to match driving style or track conditions

#### Performance Exhaust

A performance exhaust system is an aftermarket upgrade that replaces the stock exhaust system with a higher-performing exhaust system. A performance exhaust system can provide noticeable improvements in engine performance, especially when combined with other modifications such as a cold air intake or engine tuning. A performance exhaust system typically has larger diameter pipes and fewer restrictions than a stock exhaust system, which allows for more exhaust gases to flow out of the engine. This can increase horsepower and torque, especially at high RPMs. A performance exhaust system can improve the scavenging effect, which is the flow of exhaust gases out of the engine. This helps to remove exhaust gases from the combustion chamber more efficiently, which can increase engine power and efficiency. A performance exhaust system can reduce back pressure, which is the pressure that builds up in the exhaust system as a result of the exhaust gases flowing out of the engine. Reducing back pressure can improve engine performance by allowing the engine to breathe more freely. A performance exhaust system can also improve the sound of your vehicle, giving it a more aggressive or sporty tone. This is achieved by replacing the stock muffler with a high-performance muffler or by adding a resonator or other sound-enhancing device.

#### Benefits of Performance Exhaust:

Replaces stock exhaust system with higher-performing system

- Larger diameter pipes and fewer restrictions
- Increased horsepower and torque, especially at high RPMs
- Improved scavenging effect
- Reduced back pressure
- Improved engine performance and efficiency
- Improved vehicle sound

#### Aero Kit

The BMW M Aerodynamics package emphasizes the vehicle's commanding sportiness with its unique bumpers, eye-catching, aerodynamically enhanced sill skirts in the body color, modified brake air ducting, underbody paneling, and a rear diffuser insert in a contrasting color. The BMW M Aerodynamics package is designed to improve your car's aerodynamics, reducing drag and increasing downforce. This can improve your car's stability at high speeds, reduce wind noise, and improve fuel efficiency. The M Aerodynamics package includes larger air intakes and additional cooling vents that can improve engine cooling and help prevent overheating. This can help maintain your car's performance during hard driving, and reduce wear and tear on the engine components. The M Aerodynamics package includes larger brake air ducts that can help cool your car's brakes, reducing fade and improving overall braking performance. This can be particularly beneficial during high-performance driving or in racing conditions. The M Aerodynamics package also gives your car a more aggressive and sporty appearance, which can enhance your car's overall aesthetic appeal and make it stand out on the road. The BMW M Aerodynamics package can improve your car's performance in terms of aerodynamics, cooling, braking, and aesthetics. By reducing drag and increasing downforce, the M Aerodynamics package can improve your car's stability at high speeds, while the enhanced cooling and braking components can help maintain your car's performance during hard driving.

#### Advantages of an Aero Kit

- Enhances vehicle's sportiness with unique bumpers and aerodynamically enhanced sill skirts

- Improves car's aerodynamics, reducing drag and increasing downforce

- Larger air intakes and additional cooling vents improve engine cooling and prevent overheating

- Larger brake air ducts help cool brakes, reducing fade and improving braking performance

- Gives car more aggressive and sporty appearance, enhancing aesthetic appeal

#### Rear Wing / Rear Diffuser / Spoiler

A rear wing, rear diffuser, or spoiler can improve your BMW M series performance by reducing drag, increasing downforce, enhancing traction, and improving handling. By improving these factors, you can enjoy a more engaging and enjoyable driving experience. A rear wing, rear diffuser, or spoiler can improve your car's aerodynamics by reducing drag and increasing downforce. This can improve your car's stability at high speeds, reduce wind noise, and improve fuel efficiency. A rear wing or spoiler can also enhance traction by increasing downforce on the rear wheels. This can improve your car's grip during acceleration and cornering and reduce the likelihood of oversteer. By improving downforce, a rear wing or spoiler can improve your car's handling by reducing body roll and increasing stability during high-speed maneuvers. This can allow you to take corners at higher speeds with greater confidence and control. A rear wing, rear diffuser, or spoiler can also give your car a more aggressive and sporty appearance, which can

enhance your car's overall aesthetic appeal and make it stand out on the road.

#### Benefits of a Rear Wing / Rear Diffuser / Spoiler

Reduces drag and increases downforce, improving aerodynamics  
Improves stability at high speeds, reduces wind noise, and increases fuel efficiency  
Enhances traction and grip during acceleration and cornering  
Improves handling by reducing body roll and increasing stability during high-speed maneuvers  
Enhances aesthetic appeal and makes car stand out on the road  
Custom Grill

A custom grill can improve the looks and performance of your BMW M Series by enhancing its appearance, improving airflow, reducing drag, and potentially increasing resale value. A custom grill can enhance the appearance of your car by giving it a unique and personalized look. This can make your car stand out on the road and show off your individual style. A custom grill can improve your car's performance by allowing better airflow to the engine and cooling systems. This can help your car run cooler, reduce the risk of overheating, and potentially improve engine performance. A custom grill can also improve your car's aerodynamics by reducing drag and improving airflow over the body of the car. This can improve your car's stability at high speeds and reduce wind noise. A custom grill can also increase the resale value of your car by enhancing its appearance and making it more attractive to potential buyers.

#### Advantages of a Custom Grill:

Reduces drag and increases downforce, improving aerodynamics  
Improves stability at high speeds, reduces wind noise, and increases fuel efficiency  
Enhances traction and grip during acceleration and cornering  
Improves handling by reducing body roll and increasing stability during high-speed maneuvers  
Enhances aesthetic appeal and makes car stand out on the road

#### Carbon Fiber Part Installations (Engine cover, brake handle, mirror caps, shift control)

Carbon fiber components can boost your BMW M series car's performance by lowering weight, boosting stiffness, enhancing aerodynamics, and enhancing style. You can have a more engaging and enjoyable driving experience by enhancing these factors. Carbon fiber parts are significantly lighter than their metal counterparts. By replacing heavier parts with carbon fiber, you can reduce the overall weight of your car, which can improve acceleration, braking, and handling. Carbon fiber is also stiffer than metal, which can improve the rigidity of your car's body and chassis. This can enhance your car's handling and stability, and reduce body roll during high-speed maneuvers. Carbon fiber parts can also improve your car's aerodynamics by reducing drag and improving airflow over the body of the car. This can improve your car's stability at high speeds and reduce wind noise. Carbon fiber parts can also enhance the appearance of your car by giving it a sportier and more aggressive look. This can make your car stand out on the road and show off your individual style.

#### Benefits of Carbon Fiber Part Installations:

Significantly lighter than metal counterparts  
Improved acceleration, braking and handling  
Improved rigidity of your car's body and chassis  
Reduced drag and improved airflow over body  
Enhanced appearance with a sportier and more aggressive look

#### TurboCharger Upgrade

You can have a more interesting and thrilling driving experience by upgrading the turbocharger in your BMW M series. A turbocharger upgrade can significantly increase the power output of your car's engine. By compressing more air into the engine, a turbocharger can increase the amount of fuel that can be burned, resulting in a significant increase in horsepower and torque. With a turbocharger upgrade, your car can accelerate much faster due to the increased power output. The turbocharger allows the engine to produce more torque at lower RPMs, providing instant acceleration when you step on the gas pedal. A turbocharger upgrade can also improve your car's fuel efficiency, as the turbocharger allows the engine to burn fuel more efficiently. This can result in better gas mileage, which can save you money on fuel costs over time. A turbocharger upgrade can also increase the durability of your car's engine. By reducing the amount of work that the engine must do to produce power, a turbocharger can reduce the wear and tear on engine components, resulting in longer engine life.

#### Advantages of a TurboCharger Upgrade:

Significantly increases power output  
Allows for faster acceleration  
Improves fuel efficiency  
Increases engine durability  
Reduces wear and tear on engine components

#### Wheels & Tires

The wheels and tires of your vehicle are a crucial component of the vehicle's performance and can have a significant impact on its handling, traction, and overall performance. Upgraded wheels and tires can improve a vehicle's traction, especially during acceleration, braking, and cornering, by providing better grip. This may lead to improved control and faster lap times. Upgrading to wheels and tires that are lighter and stiffer can help your car handle better by reducing the weight that isn't supported by springs and making the steering more responsive. This can make driving more engaging and responsive. Wider tires can improve a vehicle's cornering grip, allowing for higher cornering speeds. By choosing the right combination of wheel and tire sizes, you can make the vehicle handle and perform the way you want it to, based on how you drive or how well you want it to perform. Upgrading your wheels and tires can be a great way to boost performance, particularly if you're looking to improve traction and handling.

#### Benefits of Upgraded Wheels & Tires

Improves traction, especially during acceleration, braking, and cornering  
Lighter and stiffer wheels and tires can improve handling  
Wider tires can improve cornering grip, allowing for higher cornering speeds  
Right combination of wheel and tire sizes can tailor the vehicle to your driving style and desired performance  
Upgrading wheels and tires can be a great way to boost performance, particularly

if looking to improve traction and handling

## RANGE ROVER CUSTOMIZATION

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JAG-ROVER copy  
Range Rover

### Luxury Redesigned

The Range Rover is a high-end luxury SUV that is renowned for its elegant styling and premium equipment. With luxury materials, a roomy interior, and a variety of cutting-edge technologies, including a panoramic sunroof, heated and ventilated seats, and a top-of-the-line audio system.

The Range Rover is renowned for its off-road prowess as well. It is a well-liked option for drivers who appreciate outdoor activities because it is made to tackle challenging terrain and poor weather conditions.

The Range Rover has excellent performance, strong engines, and a comfortable ride. It also has a variety of cutting-edge technology, like the Terrain Response system that lets drivers adjust their driving style according to the terrain.

A number of cutting-edge safety systems, including adaptive cruise control, lane departure warning, and a rearview camera, are included with the Range Rover. These characteristics contribute to the safety of both drivers and passengers on the road.

Land Rover, a reputable brand with a long history of creating high-quality, enduring automobiles, is the company that makes the Range Rover. The company is renowned for its commitment to innovation and client satisfaction and has a reputation for excellence.

Those that seek luxury, off-road prowess, performance, and safety should choose the Range Rover. It is a well-liked option for drivers who want a high-end car that can handle both city and off-road driving since it is a flexible SUV that is engineered to handle a variety of driving circumstances.

At Apex Customs, we love working on Range Rover vehicles. Our technicians have the experience and expertise to take your Range Rover to a whole new level of sophistication and class. We offer a complete line of personalization and customization options to make your ride distinctive, yet reflective of your personality. Apart from our passion for all things with wheels, our collective experience as a team understands the unique needs of every owner and vehicle.

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Range Rover Customization

## Trending

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### Wheels and Tires

The wheels and tires are critical components of any off-road vehicle, and their importance cannot be overstated. The primary function of the wheels and tires is to provide traction. Off-road vehicles need to be able to grip the terrain to maintain traction, and the wheels and tires play a critical role in this. Large, aggressive tires with deep treads can provide the necessary traction to tackle steep inclines, loose dirt, mud, and other obstacles encountered in off-road terrain. The size of the wheels and tires on an off-road vehicle can also impact ground clearance, which is essential for navigating rocky or uneven terrain. Bigger tires can provide more ground clearance, allowing the vehicle to pass over larger obstacles without getting hung up. Off-road driving can be tough on wheels and tires, with rocks, tree roots, and other obstacles presenting a constant hazard. High-quality, durable wheels and tires are essential to withstand the harsh conditions of off-road driving. The right wheels and tires can also improve handling, making it easier to control the vehicle in difficult terrain. For example, larger tires with lower air pressure can provide better grip and stability on loose surfaces. Finally, the appearance of the wheels and tires is an important consideration for many off-road enthusiasts. Custom wheels and tires can enhance the appearance of the vehicle and make it stand out on the trail.

### Advantages of Upgraded Wheels & Tires

Improves traction, especially during acceleration, braking, and cornering

Lighter and stiffer wheels and tires can improve handling

Wider tires can improve cornering grip, allowing for higher cornering speeds

Right combination of wheel and tire sizes can tailor the vehicle to your driving style and desired performance

Upgrading wheels and tires can be a great way to boost performance, particularly if looking to improve traction and handling

### Side Steps & Bars

While side steps and bars may not improve the performance of your Range Rover, they can provide a number of other benefits that can enhance your driving experience and add to the functionality and appearance of your vehicle. Side steps make it easier to get in and out of your Range Rover, especially for passengers who may have difficulty stepping up into a high vehicle. Side steps and bars can provide a safer entry and exit experience by providing a sturdy platform for passengers to step on, reducing the risk of slipping and falling. Side steps and bars can protect the sides of your Range Rover from damage, such as scratches and dings, that can occur from rocks, debris, or other vehicles. Side steps and bars can enhance the appearance of your Range Rover, giving it a more rugged and off-road-ready look. Side steps and bars can also be used as a mounting point for additional accessories, such as roof racks, lighting, or antennas, which can improve the functionality of your Range Rover.

### Benefits of Side Steps & Bars for Range Rover:



- Easier to get in & out of vehicle
- Provide a safer entry & exit experience
- Protect sides from scratches & dings
- Enhance appearance & give a more rugged look
- Mounting point for additional accessories

#### Carbon Fiber

Replacing heavy or aerodynamically inefficient parts with carbon fiber ones can improve the performance of your SUV in several ways, making it faster, more efficient, and more durable. Carbon fiber is much lighter than steel or aluminum, which means that replacing heavier parts with carbon fiber ones can reduce the overall weight of your SUV. This reduction in weight can improve acceleration, handling, and fuel efficiency. Carbon fiber parts can be designed with complex shapes and contours that improve the aerodynamics of your SUV. This can reduce drag and improve stability at high speeds, making your SUV faster and more efficient. Carbon fiber is also incredibly strong and stiff, which means that parts made from carbon fiber can withstand more stress and deformation than equivalent parts made from other materials. This increased strength can improve the durability and longevity of your SUV, especially if you use it for off-road driving or other demanding activities.

#### Advantages of Carbon Fiber Parts:

- Significantly lighter than metal counterparts
- Improved acceleration, braking and handling
- Improved rigidity of your car's body and chassis
- Reduced drag and improved airflow over body
- Enhanced appearance with a sportier and more aggressive look

#### Grills & Vents

An upgraded grill and vent system can improve the performance, durability, and appearance of your SUV, making it a better choice for off-road driving. When you're off-roading, your SUV's engine and transmission are working harder than they would be on the road, which generates more heat. An upgraded grill and vent system can help improve airflow and cooling to the engine, helping it to perform better and last longer. Off-road driving can expose your SUV to a lot of debris and rough terrain, which can damage the front end of your vehicle. A stronger, more durable grill can help protect your SUV's radiator, engine, and other critical components from damage. An upgraded grill and vent system can also give your SUV a more aggressive, rugged appearance, which can be an important factor for off-road enthusiasts who want their vehicle to look as tough as it performs.

#### Benefits of Upgraded Grills & Vents:

- Improved performance and durability
- Improved airflow and cooling
- Protection of radiator, engine and other critical components
- Aggressive, rugged appearance

#### Height Lowering Air Suspension Kits

A height lowering air suspension kit for a Range Rover can potentially increase its performance in several ways. Lowering the ride height of a Range Rover through an air suspension kit can lower the vehicle's center of gravity. This can improve handling and stability by reducing body roll and improving cornering grip. Lowering the ride height of your Range Rover can also improve its aerodynamics by reducing drag and improving airflow over the body of the car. This can improve your vehicle's stability at high speeds and reduce wind noise. A

height lowering air suspension kit can also enhance the appearance of your Range Rover by giving it a sportier and more aggressive look. This can make your car stand out on the road and show off your individual style.

#### Benefits of a Height Lowering Air Suspension Kits

Improved handling and stability

Reduced body roll and improved cornering grip

Improved aerodynamics by reducing drag and improving airflow

Improved stability at high speeds and reduced wind noise

Enhanced appearance by giving it a sportier, aggressive look

#### MERCEDES-BENZ CUSTOMIZATION

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Mercedes-Benz\_Logo\_2010.svg

Mercedes-Benz

Be One With the Road in your Customized Mercedes-Benz

German luxury car maker Mercedes-Benz is renowned for creating top-notch automobiles with cutting-edge technology, elegant styling, and remarkable performance. The origins of the business may be traced back to the 1880s, when Karl Benz created the first petrol-powered car. Since then, Mercedes-Benz has established itself as a household name and one of the top manufacturers of premium vehicles.

Sedans, coupes, SUVs, convertibles, and other types of cars are all available from Mercedes-Benz. Each model is expertly engineered and meticulously built to ensure a comfortable and enjoyable driving experience. Several of their cars have cutting-edge safety technologies like adaptive braking and collision prevention aid, which keeps drivers and passengers protected while driving.

The Mercedes-Benz S-Class sedan, frequently referred to as the "flagship" model of the company, is one of its most well-known vehicles. The S-Class is a popular choice among executives and luxury automobile fans alike thanks to its roomy and opulent interior, cutting-edge technology, and outstanding performance.

The GLE SUV is another well-liked design; it is renowned for its smooth ride, roomy interior, and off-road prowess. The GLE is equipped with a variety of cutting-edge technologies, such as the MBUX infotainment system, which enables voice commands to manage a number of car functions.

Mercedes-Benz automobiles are renowned for their excellence, luxury, and power. Drivers who value style, comfort, and innovation in their cars frequently choose them.

At Apex Customs, we love working on Mercedes-Benz vehicles. Our technicians have the experience and expertise to take your Mercedes-Benz to a whole new level of sophistication and class. We offer a complete line of personalization and customization options to make your ride distinctive, yet reflective of your

personality. Apart from our passion for all things with wheels, our collective experience as a team understands the unique needs of every owner and vehicle.

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Mercedes-Benz Customization

## Trending

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EB207732\_650x425

DSC\_5540\_650x425

DSC\_1878\_650x425

DSC\_5557\_650x425

### Sport Walnut Wood Steering Wheel

A sport walnut wood steering wheel for a Mercedes-Benz is a premium upgrade that can enhance the driving experience of the vehicle by adding both style and functionality. The steering wheel is made of high-quality walnut wood and features a sporty design with a contoured shape for improved grip and control. The walnut wood finish adds a luxurious touch to the interior of the vehicle, making it feel more upscale and refined. It can also provide a more comfortable and ergonomic driving experience, especially during long trips. In addition to the improved aesthetics and ergonomics, some sport walnut wood steering wheels for Mercedes-Benz vehicles may also include additional features such as paddle shifters, which allow the driver to shift gears without taking their hands off the steering wheel.

### Benefits of a Sport Walnut Wood Steering Wheel

Made of high-quality walnut wood

Sporty design with contoured shape

Luxurious walnut wood finish

More comfortable and ergonomic driving experience

Additional features such as paddle shifters may be included

### Trunk Spoiler

A trunk spoiler can improve the performance of your Mercedes-Benz by providing better aerodynamics, improved handling and stability, and reduced drag. Additionally, it can add a unique and sporty look to your car, which can be a great way to stand out from the crowd. A trunk spoiler can change the airflow around your Mercedes-Benz, creating downforce that helps to keep the car planted on the road. This can improve handling and stability at high speeds, especially in corners or on windy roads. A well-designed spoiler can also reduce drag and improve the car's overall aerodynamics, which can increase speed and fuel efficiency. In addition to the performance benefits, a trunk spoiler can also add a sporty and aggressive look to your Mercedes-Benz, which can enhance its overall appearance.

### Advantages of a Trunk Spoiler

Improves performance by providing better aerodynamics, improved handling,

stability and reduced drag

Creates downforce to keep car planted on the road

Improves speed and fuel efficiency

Adds unique and sporty look to car

Rear Wing

Your Mercedes-Benz's performance can be improved with a rear wing that makes it more aerodynamic, gives it better handling and stability, and reduces drag. It can also give your car a unique and sporty look, which can help you stand out from the crowd. Downforce can be made by a rear wing, which helps keep the back of the car on the road. This can make the car easier to control and more stable at high speeds, especially in corners or on roads with curves. A well-designed rear wing can also cut down on drag and improve the car's aerodynamics, which can make the car go faster and use less gas. In addition to improving performance, a rear wing can give your Mercedes-Benz a sporty and aggressive stance, which can improve its overall look.

Benefits of a Rear Wing:

Improves aerodynamics

Improves handling and stability

Reduces drag

Creates downforce

Makes car easier to control

Makes car more stable at high speeds

Makes car go faster and use less gas

Gives car a sporty and aggressive look

Grill Upgrade

A grill upgrade is a great way to enhance the appearance, performance, and protection of your Mercedes-Benz. A grill upgrade can give your Mercedes-Benz a more distinctive and stylish look. There are a wide variety of grill designs available, ranging from sporty and aggressive to elegant and refined, so you can choose a style that fits your personal taste. A high-quality grill upgrade can also improve the airflow to your car's engine, helping to keep it cool and improve its performance. This can be especially important if you have a high-performance Mercedes-Benz that is subject to greater stress and heat. A new grill can also provide additional protection to the front of your Mercedes-Benz, helping to prevent damage from rocks, debris, and other hazards on the road.

Advantages of Grill Upgrade:

Enhance the appearance, performance, and protection of your Mercedes-Benz

Wide variety of grill designs available

Improve airflow to car's engine

Provide additional protection to the front of car

Help to prevent damage from hazards on the road

Exhaust Tips

While exhaust tips do not directly impact the performance of your car, they can provide several benefits that can enhance the appearance, sound, and longevity of your vehicle. Exhaust tips can enhance the appearance of your car by adding a customized and sporty look. They come in a variety of styles, finishes, and sizes, allowing you to choose one that best matches your personal style and the look of your car. Some exhaust tips are designed to change the sound of your car's exhaust system, providing a more aggressive and sporty tone. Exhaust tips are usually made of stainless steel or other high-quality materials that can

resist rust and corrosion. This can extend the life of your exhaust system and keep it looking great.

#### Advantages of Exhaust Tips:

Enhance the appearance of your car with a customized and sporty look

Variety of styles, finishes, and sizes to choose from

Can change the sound of your car's exhaust system to a more aggressive and sporty tone

Made of stainless steel or other high-quality materials that can resist rust and corrosion

Extend the life of your exhaust system and keep it looking great

#### Performance Exhaust

Installing a performance exhaust system can enhance your auto experience in many ways. A performance exhaust system can help your engine breathe better, which can increase horsepower and torque. This added power can help you navigate through difficult terrain more easily. A performance exhaust system often has a deeper and more aggressive tone compared to the stock exhaust. This can enhance your driving experience by providing a more engaging and exciting exhaust note.

Performance exhaust systems are often lighter than the stock exhaust system. This reduction in weight can improve your vehicle's overall performance by improving acceleration, braking, and handling. Some performance exhaust systems are designed to tuck up higher than the stock exhaust, which can provide increased ground clearance. Performance exhaust systems are often made with higher quality materials than the stock exhaust.

#### Benefits of Performance Exhaust:

Improves engine breathing

Increased horsepower and torque

More aggressive and engaging exhaust note

Lighter than stock exhaust

Improved acceleration, braking and handling

Increased ground clearance

Made with higher quality materials

#### Performance Suspension & Lowering

Your Mercedes-Benz's appearance may be improved in a number of ways by lowering the suspension. Your Mercedes-Benz may look more aggressive and sporty if the suspension is lowered. A lowered suspension can produce a more streamlined and sleek profile that can make your car look cool by reducing the distance between the wheels and the wheel arches. Your Mercedes-Benz's overall styling may benefit from a lowered suspension as well. A variety of aftermarket suspension kits come with parts like springs, struts, and sway bars that can enhance your car's performance and handling while also giving it a more unique and personalized appearance. Wheel fitment can be enhanced by lowering your Mercedes-Benz. A lowered suspension can enable you to install larger and wider wheels and tires that can further improve the appearance of your car by minimizing the distance between the wheel arches and the wheels.

#### Advantages of Performance Suspension & Lowering

Lowering the suspension can give your Mercedes-Benz a more aggressive and sporty look

Lowering the suspension can create a more streamlined and sleek profile

Aftermarket suspension kits come with parts like springs, struts, and sway bars to enhance performance and handling  
Wheel fitment can be enhanced by lowering your Mercedes-Benz, allowing for larger and wider wheels and tires

Minimizing the distance between the wheel arches and the wheels can further improve the appearance of your car

Hand Held Tuning & ECU Remap

Handheld tuning and ECU remapping can potentially increase the performance of a Mercedes-Benz in several ways. Handheld tuning and ECU remapping can increase the amount of horsepower and torque that your engine produces. This can result in improved acceleration, better throttle response, and increased overall power. By optimizing your engine's performance, handheld tuning and ECU remapping can potentially improve your car's fuel efficiency. This can save you money at the gas pump and reduce your carbon footprint. Handheld tuning and ECU remapping can be customized to your specific driving style and preferences. This can result in a more personalized driving experience that suits your individual needs. Handheld tuning and ECU remapping can improve the overall driving dynamics of your Mercedes-Benz, including better handling, improved stability, and smoother gear changes.

Benefits of Hand Held Tuning & ECU Remap

Increase horsepower and torque

Improved acceleration, better throttle response, increased power

Improve fuel efficiency

Customized to driving style and preferences

Improved driving dynamics: better handling, improved stability, smoother gear changes

Cold Air Intake

A cold air intake is an aftermarket engine upgrade that helps to increase power and fuel efficiency of your Mercedes-Benz. It increases the amount of air that is drawn into the engine, allowing for a more efficient burn of fuel. In addition, the air is cooler, which helps to reduce the temperature of the engine, further improving its efficiency and power output. Cold air intakes are usually installed on the side of an engine bay and draw in air from outside the vehicle. The colder air is denser and contains more oxygen, resulting in a more efficient combustion of fuel. Cold air intakes also help to reduce the amount of heat generated by the engine, which can reduce engine wear and tear over time.

Advantages of Cold Air Intake:

Increases power and fuel efficiency

Draws in air from outside the vehicle

Colder air is denser and contains more oxygen, resulting in a more efficient combustion of fuel

Helps to reduce the amount of heat generated by the engine, which can reduce engine wear and tear over time

Usually installed on the side of an engine bay

TurboCharger Upgrade

You can have a more interesting and thrilling driving experience by upgrading the turbocharger in your Mercedes-Benz. A turbocharger upgrade can significantly increase the power output of your car's engine. By compressing more air into the engine, a turbocharger can increase the amount of fuel that can be burned, resulting in a significant increase in horsepower and torque. With a turbocharger

upgrade, your car can accelerate much faster due to the increased power output. The turbocharger allows the engine to produce more torque at lower RPMs, providing instant acceleration when you step on the gas pedal. A turbocharger upgrade can also improve your car's fuel efficiency, as the turbocharger allows the engine to burn fuel more efficiently. This can result in better gas mileage, which can save you money on fuel costs over time. A turbocharger upgrade can also increase the durability of your car's engine. By reducing the amount of work that the engine must do to produce power, a turbocharger can reduce the wear and tear on engine components, resulting in longer engine life.

Benefits of a TurboCharger Upgrade:

- Increases power output and torque
- Accelerates faster
- Improves fuel efficiency
- Increases engine durability
- Reduces wear and tear on engine components

LEXUS CUSTOMIZATION

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lexus  
LEXUS

The Relentless Pursuit of Perfection

Lexus is a luxury vehicle brand owned by the Japanese automaker Toyota. The brand was introduced in 1989 with the launch of the Lexus LS sedan, and since then, Lexus has expanded its lineup to include a range of cars, SUVs, and crossovers.

Lexus vehicles are known for their high-quality materials, advanced technology features, and smooth, quiet rides. They are also typically priced higher than comparable non-luxury vehicles, and are often marketed as a status symbol.

Customizing the appearance of your Lexus can give it a distinctive look that sets it apart from other vehicles on the road. You can add custom paint jobs, unique wheels, or body kits to give your Lexus a personalized touch.

Customizing your Lexus can also increase its resale value, particularly if you choose upgrades that are popular with buyers.

As Lexus customization experts, Apex Customs is in a league of its own. Bringing your Lexus to our repair shop will allow you to take advantage of the expertise of our staff. When you partner with us, you'll have access to a vast selection of accessories and upgrades that will help you personalize the look of your Lexus and make it reflect who you are. Our team has the knowledge and experience to cater to the specific needs of each owner and vehicle, in addition to a shared passion for cars.

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Lexus Customization

## Trending

### Suspension Lowering

Your Lexus's appearance may be improved in a number of ways by lowering the suspension. Your Lexus may look more aggressive and sporty if the suspension is lowered. A lowered suspension can produce a more streamlined and sleek profile that can make your car look cool by reducing the distance between the wheels and the wheel arches. Your Lexus's overall styling may benefit from a lowered suspension as well. A variety of aftermarket suspension kits come with parts like springs, struts, and sway bars that can enhance your car's performance and handling while also giving it a more unique and personalized appearance. Wheel fitment can be enhanced by lowering your Lexus. A lowered suspension can enable you to install larger and wider wheels and tires that can further improve the appearance of your car by minimizing the distance between the wheel arches and the wheels.

### Benefits of Suspension Lowering

Lowering the suspension can make your Lexus look more aggressive and sporty. A lowered suspension can produce a more streamlined and sleek profile. Aftermarket suspension kits can enhance your car's performance and handling while also giving it a more unique and personalized appearance. Wheel fitment can be enhanced by lowering your Lexus, allowing larger and wider wheels and tires to be installed.

### Performance Exhaust System

A performance exhaust system is an aftermarket upgrade that replaces the stock exhaust system in your Lexus with a higher-performing exhaust system. A performance exhaust system can provide noticeable improvements in engine performance, especially when combined with other modifications such as a cold air intake or engine tuning. A performance exhaust system typically has larger diameter pipes and fewer restrictions than a stock exhaust system, which allows for more exhaust gases to flow out of the engine. This can increase horsepower and torque, especially at high RPMs. A performance exhaust system can improve the scavenging effect, which is the flow of exhaust gases out of the engine. This helps to remove exhaust gases from the combustion chamber more efficiently, which can increase engine power and efficiency. A performance exhaust system can reduce back pressure, which is the pressure that builds up in the exhaust system as a result of the exhaust gases flowing out of the engine. Reducing back pressure can improve engine performance by allowing the engine to breathe more freely. A performance exhaust system can also improve the sound of your vehicle, giving it a more aggressive or sporty tone. This is achieved by replacing the stock muffler with a high-performance muffler or by adding a resonator or other sound-enhancing device.

### Advantages of a Performance Exhaust System

Replaces the stock exhaust system with a higher-performing exhaust system  
Allows for more exhaust gases to flow out of the engine, increasing horsepower and torque

Improves the scavenging effect, removing exhaust gases from the combustion chamber more efficiently

Reduces back pressure, allowing the engine to breathe more freely

Improves the sound of your vehicle, giving it a more aggressive or sporty tone



## Wheel Upgrade

A wheel upgrade can significantly enhance the look of your Lexus and give it a more personalized and stylish appearance. It can also improve the vehicle's performance and add value to your investment. New wheels can give your Lexus a fresh and updated look. There are a wide variety of wheel styles available, from sporty and aggressive to more classic and elegant designs, so you can choose the one that best suits your personal taste and complements the overall styling of your Lexus. Upgrading to larger wheels can also give your Lexus a more powerful and muscular appearance. With bigger wheels and lower profile tires, the car's stance will be more assertive and dynamic. Wheels are available in a wide range of colors, from chrome and polished aluminum to matte black and gunmetal, so you can choose a color that complements your car's paint and accentuates its overall style. Upgrading to lighter wheels can also improve the performance of your vehicle. Lighter wheels reduce unsprung weight and rotational mass, which can improve handling, acceleration, and braking performance.

### Benefits of Wheel Upgrades:

Upgrading wheels can enhance the look of your Lexus

Wide variety of wheel styles to choose from

Upgrading to larger wheels gives the car a more powerful and muscular appearance

Wheels available in a wide range of colors

Lighter wheels can reduce unsprung weight and rotational mass, improving performance

## Painted Brake Calipers

Painting auto brake calipers can be a simple and enjoyable way to customize the look of a car while also offering some useful advantages. The main goal of painting auto brake calipers is to improve the aesthetics of the brake system and wheels of a vehicle. Caliper painting can give the brake calipers, which are typically visible through the wheels, a splash of color and give the car a sportier, more distinctive appearance. However, painting brake calipers has advantages beyond just appearance. Cast iron or aluminum, the common materials used to make brake calipers, are susceptible to corrosion and rust over time. High-temperature paint can help shield the calipers from environmental elements like moisture, salt from the road, and debris, extending their lifespan and enhancing their performance. Brake calipers that are painted can make it simpler to inspect the brakes and find potential problems like leaks or stuck calipers. Additionally, the vivid color can assist in warning the driver or mechanic of any brake-related issues. Some high-temperature brake caliper paints were developed to aid in heat dissipation, which can enhance brake performance by lowering the possibility of fade or loss of stopping power.

### Benefits of Painted Brake Calipers

Painting auto brake calipers can improve the aesthetics of the brake system and wheels of a vehicle

Cast iron or aluminum brake calipers susceptible to corrosion and rust over time

High-temperature paint shields calipers from environmental elements like moisture, salt from the road, and debris

Painting brake calipers makes it simpler to inspect the brakes and find potential problems

Vivid color can assist in warning the driver or mechanic of any brake-related

issues

High-temperature brake caliper paint can aid in heat dissipation, which can enhance brake performance

Sway Bars

Upgrading to a performance suspension and sway bar system can greatly improve your vehicle handling, traction, steering response, and customizability, all of which can lead to a more engaging and enjoyable driving experience. A performance suspension and sway bar system can improve your car's handling by reducing body roll, improving cornering grip, and reducing understeer or oversteer tendencies. This allows your car to stay more planted and stable during aggressive driving, which can lead to faster lap times on a racetrack or improved driving confidence on the road. A performance suspension system can help keep your car's tires in better contact with the road surface, which can improve traction and acceleration. This is because a stiffer suspension will help keep your car's weight transfer more controlled during hard acceleration or cornering, which can prevent wheelspin and improve overall grip. Upgrading to a performance sway bar can improve your car's steering response by reducing body roll and increasing the amount of weight transfer to the outside wheels during cornering. This can improve your car's turn-in response and give you more confidence to take corners at higher speeds. Performance suspension and sway bar systems are typically adjustable, allowing you to fine-tune your car's handling characteristics to your liking. This means you can adjust your suspension and sway bar settings to match your driving style or specific track conditions, which can lead to faster lap times and a more enjoyable driving experience overall.

Advantages of Sway Bars:

Upgrading to a performance suspension and sway bar system can greatly improve vehicle handling, traction, steering response, and customizability

Reduces body roll and improves cornering grip

Keeps car's weight transfer more controlled during hard acceleration or cornering

Improves steering response by reducing body roll and increasing weight transfer to outside wheels during cornering

Adjustable settings to match driving style or specific track conditions

Faster lap times and more enjoyable driving experience overall

Spoiler

A spoiler can potentially improve the performance of your Lexus in several ways, although the specific benefits will depend on the type and design of the spoiler as well as the driving conditions. One of the primary functions of a spoiler is to improve a vehicle's aerodynamics by reducing drag and increasing downforce. By redirecting airflow over the rear of the vehicle, a spoiler can help to reduce turbulence and increase stability at high speeds. This can result in improved handling, reduced wind noise, and better fuel efficiency. A spoiler can also improve traction and stability by increasing the weight and downward force on the rear wheels. This can be particularly useful in high-speed cornering or in wet or slippery conditions, where the additional weight can help to keep the vehicle planted on the road. Some spoilers are designed to improve braking performance by reducing rear-end lift during hard braking. This can help to maintain stability and prevent the vehicle from skidding or losing control. Some high-performance spoilers are also designed to provide additional cooling to the brakes or engine by directing airflow to these areas. This can help to prevent overheating and improve overall performance.

Advantages of a Spoiler:

Improves vehicle aerodynamics by reducing drag and increasing downforce  
Reduces turbulence and increases stability at high speeds  
Improves handling, reduces wind noise, and better fuel efficiency  
Increases weight and downward force on rear wheels, improving traction and stability  
Reduces rear-end lift during hard braking, increasing stability  
Provides additional cooling to brakes and engine, preventing overheating

#### Body Modifications

Body modifications can potentially improve the performance of your Lexus by altering its aerodynamics, reducing weight, or increasing rigidity. Body kits typically consist of front and rear bumpers, side skirts, and a rear spoiler, and are designed to improve a vehicle's aerodynamics by reducing drag and increasing downforce. By redirecting airflow over and around the vehicle, a well-designed body kit can improve handling and stability at high speeds, as well as reduce wind noise and increase fuel efficiency. Carbon fiber is a lightweight and strong material that can be used to replace heavier factory components like hoods, trunks, fenders, and even body panels. By reducing the weight of the vehicle, carbon fiber components can improve acceleration, handling, and braking performance, as well as increase fuel efficiency. Chassis bracing involves reinforcing the structural rigidity of the vehicle's frame and body, typically through the use of additional bars or braces. By reducing flex and twist in the chassis, chassis bracing can improve handling and stability, as well as reduce body roll and improve cornering performance.

#### Benefits of Body Modifications:

Body modifications can improve the performance of a Lexus  
Body kits can reduce drag, increase downforce, and improve handling and stability  
Carbon fiber components can reduce the weight of the vehicle and improve acceleration, handling, and braking performance  
Chassis bracing can reduce flex and twist in the chassis and improve handling and stability

#### Carbon Fiber Pattern Wrap

Your car's appearance could be improved by a carbon fiber body wrap. Carbon fiber has a distinctive and distinctive appearance that can give your car a customized and high-performance look. Without the expense and time-consuming need for modifications, a carbon fiber wrap can give the appearance of carbon fiber. A carbon fiber wrap can give your car a sleeker, more contemporary look. Your car's hood, roof, and trunk can all receive the wrap, which can give your vehicle a unified and striking appearance. A carbon fiber wrap can also guard against dings, chips, and other types of damage to your car's paint. The wrap is constructed of a sturdy, high-quality material that can withstand the elements and keep your car looking great for longer. Compared to other custom modifications, a carbon fiber wrap is a reasonably priced choice that can still significantly improve the look of your car.

#### Advantages of Carbon Fiber Pattern Wrap:

Carbon fiber body wrap gives cars a distinctive and high-performance look  
Without needing modifications, carbon fiber wrap can give the appearance of carbon fiber  
Carbon fiber wrap can give car a sleeker, more contemporary look  
Wrap can cover hood, roof, and trunk to give unified and striking appearance

Carbon fiber wrap guards against dings, chips, and other types of paint damage  
Constructed of sturdy, high-quality material that can withstand the elements and keep car looking great for longer  
Compared to other modifications, carbon fiber wrap is a reasonably priced choice that can significantly improve car's look

## Wheels & Tires

The wheels and tires of your Lexus are a crucial component of the vehicle's performance and can have a significant impact on its handling, traction, and overall performance. Upgraded wheels and tires can improve a vehicle's traction, especially during acceleration, braking, and cornering, by providing better grip. This may lead to improved control and faster lap times. Upgrading to wheels and tires that are lighter and stiffer can help your car handle better by reducing the weight that isn't supported by springs and making the steering more responsive. This can make driving more engaging and responsive. Wider tires can improve a vehicle's cornering grip, allowing for higher cornering speeds. By choosing the right combination of wheel and tire sizes, you can make the vehicle handle and perform the way you want it to, based on how you drive or how well you want it to perform. Upgrading the wheels and tires of your Lexus can be a great way to boost its performance, particularly if you're looking to improve traction, handling, and overall performance.

### Advantages of Upgraded Wheels & Tires:

Upgrading wheels can enhance the look of your Lexus  
Wide variety of wheel styles to choose from  
Upgrading to larger wheels gives the car a more powerful and muscular appearance  
Wheels available in a wide range of colors  
Lighter wheels can reduce unsprung weight and rotational mass, improving performance

## OVERLAND UPGRADES

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OVERLAND UPGRADES

### Be Adventure Ready

Overland upgrades can make your off-road driving experience safer, more comfortable, and more enjoyable by improving your vehicle's performance and capabilities.

Upgrading your vehicle's suspension system can improve your off-road driving experience by providing better handling and a smoother ride over rough terrain. This can also help prevent damage to your vehicle's frame and other components.

Choosing the right tires for off-road driving can make a huge difference in how your vehicle performs. Off-road tires with aggressive tread patterns and stronger sidewalls can provide better traction and handling on rough terrain.

Skid plates can protect your vehicle's undercarriage from damage when driving over rocks and other obstacles. They are especially useful for protecting your vehicle's oil pan, transmission, and other critical components.

A winch can be a lifesaver when you're stuck in mud, sand, or snow. It allows you to pull yourself out of tricky situations or help other vehicles that are stuck.

Upgrading your lighting system can help you see better when driving off-road, especially at night. LED light bars and auxiliary lights can provide bright, focused illumination that can help you navigate through rough terrain.

A roof rack can provide extra storage space for your gear, allowing you to bring more supplies and equipment on your off-road adventures.

Apex Customs is unparalleled in its field as an authority on overland improvements and modifications. Don't hesitate to take advantage of the knowledge of our mechanics by bringing your overland vehicle to our service center. If you work with us, you may customize the style of your overland vehicle to express your individuality with a wide variety of accessories and improvements. Because of our team's expertise and dedication, we are able to meet the needs of each individual customer and their vehicles.

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Overland Customization

Trending

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Reliability Evaluation & Mechanical Overhaul

A reliability evaluation and mechanical overhaul can help extend the lifespan of your SUV and ensure that it runs smoothly and safely for years to come. A reliability evaluation can help identify any potential issues or areas of concern with your SUV's mechanical systems. This can include issues such as worn-out parts, leaks, or other problems that could impact the reliability and safety of your vehicle. By addressing any potential issues identified during the evaluation, you can help prevent unexpected breakdowns or mechanical failures while driving. This can save you time, money, and stress associated with unexpected repairs. A mechanical overhaul can help improve the overall performance of your SUV. This may include replacing worn-out parts, tuning the engine, or improving the suspension or braking systems. These improvements can help make your SUV more responsive, efficient, and enjoyable to drive. Regular maintenance and overhauls can help ensure that your SUV is safe to drive. By addressing any potential safety issues, you can help prevent accidents and keep yourself and your passengers safe on the road.

Benefits of a Reliability Evaluation & Mechanical Overhaul

Reliability evaluation

Mechanical overhaul  
Identifying potential issues  
Preventing unexpected breakdowns  
Replacing worn-out parts  
Tuning the engine  
Improving suspension or braking systems  
Regular maintenance  
Addressing any potential safety issues  
All-Terrain Tire Upgrade

All-terrain tires are an excellent investment for anyone who enjoys off-roading, as they can greatly improve your vehicle's performance and safety in a variety of conditions. All-terrain tires are designed with deeper treads and larger voids between the treads, which allow for better traction on loose or uneven surfaces like mud, gravel, and rocks. This means you'll be less likely to get stuck and more likely to maintain control of your vehicle. All-terrain tires are typically made with stronger materials and thicker rubber to withstand the rough and tumble terrain of off-roading. This means you'll be less likely to suffer punctures or other damage to your tires. All-terrain tires also provide a smoother ride on rough terrain, which can make your off-roading experience more comfortable and less jarring on your vehicle and passengers. All-terrain tires are designed to perform well both on and off the road, which means you won't need to switch out your tires when transitioning between different types of terrain.

#### Advantages of All-Terrain Tire Upgrade

All-terrain tires are an excellent investment for anyone who enjoys off-roading  
Deeper treads and larger voids between the treads allow for better traction on loose or uneven surfaces

All-terrain tires are typically made with stronger materials and thicker rubber  
All-terrain tires provide a smoother ride on rough terrain

All-terrain tires are designed to perform well both on and off the road

#### Full Sized Spare and Tire Carrier

A full-size spare tire has the same dimensions as your regular tires and can be used for driving just like a tire that was initially mounted. One of the full-size spare's main advantages is that, because it's the same size, after it's placed, it shouldn't affect how well your vehicle drives. Having a spare tire and a carrier for it is essential for when the going gets hard on the road. The drivers of off-road vehicles aren't afraid to get physical. Tires are constantly subjected to hazards such as slush, large rocks, and overlanding on paths that can hardly be termed trails. Having a spare tire and a carrier for it mounted in the truck bed increases the likelihood that you will reach your destination and be able to get back on the road again.

#### Benefits of a Full Sized Spare and Tire Carrier

A full-size spare tire has the same dimensions as your regular tires and can be used for driving just like a tire that was initially mounted

One of the full-size spare's main advantages is that, because it's the same size, after it's placed, it shouldn't affect how well your vehicle drives

Having a spare tire and a carrier for it is essential for when the going gets hard on the road

The drivers of off-road vehicles aren't afraid to get physical

Tires are constantly subjected to hazards such as slush, large rocks, and overlanding on paths that can hardly be termed trails

Having a spare tire and a carrier for it mounted in the truck bed increases the likelihood that you will reach your destination and be able to get back on the road again

#### Suspension Upgrade / Remote Reservoirs

Remote reservoir shocks are a popular upgrade for off-road enthusiasts looking to improve their SUV's performance and handling in extreme conditions. They consist of a main shock absorber connected to a separate reservoir via a high-pressure hose. The reservoir is typically mounted remotely from the shock absorber, such as on the vehicle's frame or body, hence the name "remote reservoir". The main purpose of a remote reservoir is to increase the shock absorber's oil capacity, which helps to dissipate heat more effectively and maintain consistent performance even under heavy use. This is particularly important in off-road driving, where the vehicle may encounter rough terrain, steep inclines, and high-speed jumps, which can generate a lot of heat and put a lot of stress on the shock absorbers. The remote reservoir also allows for more precise tuning of the shock absorber's damping characteristics. By adjusting the size and position of the reservoir, as well as the pressure of the nitrogen gas inside it, engineers can fine-tune the shock absorber's compression and rebound rates to provide the optimal balance.

#### Benefits of a Suspension Upgrade / Remote Reservoirs

Remote reservoir shocks are a popular upgrade for off-road enthusiasts looking to improve their SUV's performance and handling in extreme conditions

Consist of a main shock absorber connected to a separate reservoir via a high-pressure hose

Reservoir is typically mounted remotely from the shock absorber, such as on the vehicle's frame or body

Increase the shock absorber's oil capacity and dissipate heat more effectively

Particularly important in off-road driving, where the vehicle may encounter rough terrain, steep inclines, and high-speed jumps

Remote reservoir also allows for more precise tuning of the shock absorber's damping characteristics

Adjusting size and position of the reservoir, as well as the pressure of the nitrogen gas inside it, engineers can fine-tune the shock absorber's compression and rebound rates

#### Roof Rack

A roof rack can greatly enhance the functionality and versatility of your SUV and make it more convenient and enjoyable to use for a variety of activities. A roof rack allows you to free up interior space in your SUV and carry bulky items, such as luggage, bicycles, kayaks, skis, or camping gear, on the roof. With a roof rack, you can expand the types of activities you can do with your SUV. For example, you can take a family road trip with all your luggage on the roof, or you can transport bicycles to a nearby park for a day of cycling. A roof rack can make loading and unloading items from your SUV easier and more convenient. By moving bulky items to the roof, you can improve the aerodynamics of your SUV and reduce drag, which can help improve fuel efficiency on long trips. A roof rack is a desirable feature for many SUV buyers, so adding one to your SUV can increase its resale value when you decide to sell or trade it in.

#### Benefits of a Roof Rack

Free up interior space in your SUV

Carry bulky items such as luggage, bicycles, kayaks, skis, or camping gear on the

roof

Expand the types of activities you can do with your SUV

Improve the aerodynamics of your SUV and reduce drag

Increase your SUV's resale value

Bumper Upgrade / Grill Protection / Winch / Recovery Points

Mounting a winch to your SUV is likely to prove to be a beneficial addition that will make your time spent off-roading much more enjoyable. If you find yourself in a difficult situation, such as getting stuck in mud, sand, or snow, a winch can help you free yourself and get unstuck. You can use the winch to pull your SUV out of the stuck position and back onto solid ground if you first attach the winch cable to a secure anchor point. Your off-road riding experience can be significantly enhanced by installing off-road bumpers on your vehicle. These bumpers offer your vehicle an increased level of protection, clearance, and functionality. Recovery points on an SUV are critical safety features that are designed to allow for safe and effective recovery of the vehicle in case it becomes stuck or immobilized. Recovery points provide secure attachment points for winch cables or tow straps, allowing the vehicle to be pulled out of mud, sand, snow, or other difficult terrain.

Benefits of Installing a Winch on an SUV:

Makes time spent off-roading more enjoyable

Can help free yourself from a stuck position

Attach the winch cable to a secure anchor point

Benefits of Installing Off-Road Bumpers on an SUV:

Increased level of protection

Increased level of clearance

Increased level of functionality

Benefits of Recovery Points on an SUV:

Allow for safe and effective recovery of the vehicle

Provide secure attachment points for winch cables or tow straps

Can pull the vehicle out of mud, sand, snow, or other difficult terrain

On-board Air

You can enjoy the convenience of having air on demand regardless of where you are thanks to a on board air system. One of the most common uses of an on-board air system is to inflate tires. When you're off-roading, you may need to lower your tire pressure to increase traction and improve performance. However, when you return to the road, you'll need to reinflate your tires to their proper pressure. An on-board air system allows you to do this quickly and conveniently, without having to carry a separate air compressor or drive to a gas station. Another benefit of an on-board air system is that it can power pneumatic tools, such as impact wrenches, drills, and air saws. This can be helpful if you need to make repairs or modifications to your Jeep while off-roading or camping. With an on-board air system, you can bring the tools you need with you and power them using your vehicle's battery and alternator. An on-board air system can also be used to control air lockers. Air lockers are differential lockers that allow you to lock the front and rear differentials together, providing improved traction and performance in difficult terrain. Many air locker systems require an on-board air compressor to function, so installing an on-board air system can help you take advantage of this feature. If your vehicle is equipped with an air suspension system, an on-board air system can help you maintain proper air pressure and adjust your suspension settings on the fly. This can improve your



ride comfort, handling, and performance in various driving conditions. An on-board air system can be a valuable addition to your SUV, providing convenience, versatility, and improved performance in various situations.

#### Benefits of an On-Board Air System:

Inflate tires quickly and conveniently

Power pneumatic tools such as impact wrenches, drills, and air saws

Control air lockers

Maintain proper air pressure and adjust suspension settings on the fly

#### Dual Battery Upgrade & Isolation

A dual battery upgrade and isolation system can greatly enhance the functionality and reliability of your SUV, especially if you plan to use it for off-road or outdoor activities. With a dual battery system, you can have a dedicated battery for your SUV's accessories, such as the fridge, lights, or charging ports, while keeping the main battery for starting the engine. This ensures that you have a reliable power supply for all your needs, without draining the main battery. By isolating the two batteries, you can prevent accidental discharge of the main battery and reduce the risk of being stranded with a dead battery in remote areas. A dual battery system can extend the lifespan of your batteries, as each battery can be used independently and charged separately, reducing wear and tear on the main battery. A dual battery system can make it easier and more convenient to use your SUV for camping, off-roading, or other outdoor activities. You can power your accessories without worrying about draining the main battery or needing to start the engine to recharge it. With a dual battery system, you can customize your power supply based on your needs. For example, you can install a larger or more powerful secondary battery for longer trips or heavier loads.

#### Benefits of Dual Battery Upgrade and Isolation System:

Dedicated battery for accessories

Reliable power supply

Prevents accidental discharge of main battery

Extends battery lifespan

Easier and more convenient to use for outdoor activities

Customizable power supply

#### Full-Time Refrigerator w/ Rooftop Solar

A Full-Time Refrigerator with Rooftop Solar refers to a type of refrigeration system that operates using solar energy generated by photovoltaic panels installed on the rooftop of your vehicle. This type of refrigerator is designed to function continuously and independently of the electric grid, using energy stored in batteries when sunlight is not available. The refrigeration system itself is typically highly energy-efficient and designed to minimize energy consumption. It may include features such as insulation, advanced temperature control systems, and LED lighting to further reduce energy use. Refrigerators with rooftop solar are commonly used in remote areas or in places where access to electricity is limited or unreliable, such as off-road vehicles, off-grid cabins, and mobile homes. They offer a sustainable and cost-effective solution for storing and preserving perishable goods, without the need for traditional electricity sources.

#### Benefits of a Full-Time Refrigerator with Rooftop Solar:

Sustainable and cost-effective solution for storing and preserving perishable

goods

Ideal for remote areas or places with limited or unreliable access to electricity

Operates continuously and independently of the electric grid

Uses energy stored in batteries when sunlight is not available

Highly energy-efficient and designed to minimize energy consumption

Features such as insulation, advanced temperature control systems, and LED lighting to further reduce energy use

Gear Organization Systems / Drawer Systems

Gear organization systems and drawer systems can help you keep your off-road vehicle organized and efficient, so you can focus on enjoying your adventure without worrying about finding or accessing your gear. These systems are designed to make the most of the available space in your vehicle, ensuring that you have enough room to store all your gear without it cluttering up the cabin or getting in the way. Drawer systems allow you to easily access your gear without having to unpack everything. You can simply slide out the drawer and grab what you need, making it easier to find and retrieve items on the go. Gear organization systems and drawer systems can help protect your gear from damage and theft. By keeping your gear organized and secure, you can ensure that it stays in good condition and is always there when you need it.

Benefits of Gear Organization Systems and Drawer Systems:

Keeps your off-road vehicle organized and efficient

Makes the most of available space in your vehicle

Allows you to easily access your gear

Protects your gear from damage and theft

Keeps your gear organized and secure

Auxiliary Lighting (Roof Bars, Bumpers, Fog, Rock Lights)

Auxiliary lighting can significantly improve your off-road vehicle's performance and safety by providing additional illumination in low-light or adverse weather conditions, allowing you to explore and enjoy the outdoors with greater confidence and peace of mind. Roof bars with auxiliary lights can provide extra illumination for long-range visibility on the road, especially in remote areas where street lights are not available. They can also be used to light up a campsite or work area during night-time activities. Bumpers with built-in auxiliary lights can provide additional illumination and improve the visibility of your vehicle, especially when driving through dense fog or heavy rain. They can also help you spot obstacles in your path, such as rocks or tree stumps. Fog lights are designed to help you see the road in front of you in heavy fog or other low-visibility conditions. They provide a wide beam of light that can help you stay on the road and avoid obstacles, while also improving your ability to see other vehicles on the road. Rock lights are designed to provide illumination around the tires and under the vehicle, making it easier to see obstacles on the trail and navigate rocky terrain safely. They can also provide additional lighting when working on the vehicle or setting up camp.

Benefits of Auxiliary Lighting:

Provides additional illumination in low-light or adverse weather conditions

Adds long-range visibility on the road in remote areas

Improves visibility of your vehicle in dense fog or heavy rain

Helps to see the road in front of you in heavy fog or other low-visibility conditions

Provides illumination around the tires and under the vehicle

Makes it easier to see obstacles on the trail and navigate rocky terrain safely  
Provides additional lighting when working on the vehicle or setting up camp

#### Water Tanks & Showers

Water tanks and showers for off-road vehicles are systems that allow you to store and use water while on the go, providing a convenient and comfortable way to stay clean and hydrated during your outdoor adventures. Water tanks are typically made of plastic or other durable materials and are designed to fit into the cargo area or undercarriage of a vehicle. They can hold anywhere from a few gallons to over 20 gallons of water, depending on the size and design. External showers typically consist of a hose or spray nozzle that connects to the water tank and is mounted outside the vehicle, providing a quick and easy way to rinse off dirt or sweat after a hike or other outdoor activity. Some water tanks and shower systems also come with filtration or purification options to ensure that the water is safe for drinking and cooking, making them a great addition for extended camping trips or off-road adventures. Overall, water tanks and showers for off-road vehicles provide a convenient and self-sufficient way to stay clean and hydrated while on the go, making them a popular accessory for outdoor enthusiasts and travelers.

#### Benefits of Water Tanks and Showers for Off-Road Vehicles:

Convenient and comfortable way to stay clean and hydrated

Can hold anywhere from a few gallons to over 20 gallons of water

External showers provide quick and easy way to rinse off dirt or sweat

Filtration and purification options available to ensure water is safe for drinking and cooking

Self-sufficient way to stay clean and hydrated while on the go

#### Snorkels

A snorkel is an accessory that can be installed on an off-road vehicle to raise the air intake point to a higher location on the vehicle, usually above the roofline or hood. It consists of a plastic or metal tube that extends upward from the engine compartment, connecting to the air intake system of the vehicle. The primary purpose of a snorkel is to allow the engine to draw in clean, dry air from a higher point on the vehicle, rather than from the lower, dustier air intake location under the hood. This can be particularly important when driving through deep water, mud, or dusty environments, where the lower air intake could be exposed to harmful particles or moisture. Snorkels also offer some other benefits for off-road vehicles, including improved engine performance and increased horsepower, since the engine can draw in more air through the higher intake point. They can also help to reduce the risk of engine damage from hydro-locking, which can occur when water enters the engine through the air intake system, potentially causing significant damage. A snorkel is a useful accessory for off-road enthusiasts who frequently drive in dusty or wet environments and want to protect their engine from harmful debris or moisture while also improving engine.

#### Benefits of a Snorkel:

Allows the engine to draw in clean, dry air from a higher point on the vehicle

Improves engine performance and increases horsepower

Reduces the risk of engine damage from hydro-locking

Protects the engine from harmful debris or moisture

#### Roof-top Tent System

A rooftop tent system can enhance your off-road experience in many ways. One of the main advantages of a rooftop tent system is the convenience it provides. With

a rooftop tent, you don't need to set up and take down a traditional ground tent every night. Instead, you can simply climb up to your tent and get a good night's sleep. A rooftop tent system can provide an added level of safety when camping in remote or unfamiliar locations. Sleeping off the ground can keep you safe from wildlife and other potential dangers. Rooftop tents are often more comfortable than traditional ground tents. They provide a more even surface to sleep on and are often equipped with additional features such as ventilation, lighting, and storage. With a rooftop tent system, you can enjoy a better view of your surroundings. This can be especially beneficial when camping in scenic locations or when wildlife watching. A rooftop tent system can make it easier to access remote camping locations that may not be accessible with a traditional ground tent. With a rooftop tent, you can set up camp on uneven or rocky terrain without worrying about finding a flat surface for your tent. A rooftop tent system can enhance your off-road experience by providing convenience, safety, comfort, and accessibility.

#### Benefits of a Rooftop Tent System:

Convenience: no set up and take down of a traditional ground tent every night

Safety: sleeping off the ground can keep you safe from wildlife and other potential dangers

Comfort: more even surface to sleep on, often equipped with additional features such as ventilation, lighting, and storage

View: better view of your surroundings

Accessibility: access remote camping locations that may not be accessible with a traditional ground tent

#### Mounted Recovery Gear

Mounted recovery gear on an off-road vehicle refers to the various tools and equipment that are mounted on the exterior of the vehicle for quick access and use in case of a recovery situation. These items are designed to help extract the vehicle from a stuck or disabled position. Some common types of mounted recovery gear on an off-road vehicle include winches, recovery straps, D-ring shackles and traction boards. By mounting these recovery tools and equipment on the exterior of the vehicle, off-road enthusiasts can have quick and easy access to them in case of a recovery situation, allowing them to quickly and safely extract their vehicle from a stuck position.

#### Benefits of Mounted Recovery Gear on an Off-Road Vehicle:

Quick and easy access to the necessary tools and equipment

Ability to quickly and safely extract the vehicle from a stuck position

Helps prevent having to carry and store the recovery gear separately

Reduces the amount of time necessary to perform a recovery operation

#### Tonneau Covers

Tonneau covers are a type of cover designed to fit over the bed of a pickup truck, providing a secure and weatherproof storage solution for cargo. They come in a variety of styles and materials, ranging from soft covers made of vinyl or canvas to hard covers made of fiberglass or aluminum. Tonneau covers can be either hinged or retractable, allowing you to access the bed of the truck quickly and easily. They typically attach to the bed rails of the truck using clamps or other fasteners and can be removed or installed in just a few minutes. Tonneau covers help to protect your cargo from the elements, keeping it dry and safe from rain, snow, and other weather conditions. Tonneau covers also provide a layer of security for your cargo, making it harder for thieves to access and steal your

belongings. Tonneau covers can help to improve the aerodynamics of your truck, reducing wind resistance and improving fuel efficiency. Tonneau covers can give your truck a sleek and streamlined look, improving its overall appearance and resale value. Tonneau covers are a popular accessory for pickup truck owners who want to protect their cargo from the elements and improve the functionality and appearance of their vehicle.

#### Benefits of Tonneau Covers:

- Protects cargo from the elements
- Provides a layer of security for cargo
- Improves aerodynamics of truck
- Improves fuel efficiency
- Enhances truck's overall appearance
- Increases truck's resale value

#### Kegeators

A kegerator is a refrigeration unit that is designed to store and dispense kegs of beer. It is essentially a specialized refrigerator that is equipped with a beer tap and CO2 cylinder to keep the beer cold and properly carbonated. Kegerators come in a variety of sizes and styles, ranging from small countertop models that can hold one or two small kegs to larger freestanding units that can hold multiple kegs at once. They typically feature a temperature control system that keeps the beer at the optimal serving temperature, and a CO2 regulator that helps maintain the proper carbonation levels. Kegerators are popular among beer enthusiasts and off-road enthusiasts who want to enjoy their favorite brews out in the wild. With a kegerator, you can enjoy fresh, perfectly chilled beer on tap, without the need for bottles or cans.

#### Benefits of a Kegerator:

- Enjoy fresh, perfectly chilled beer on tap
- Temperature control system keeps beer at optimal serving temperature
- CO2 regulator helps maintain proper carbonation levels
- Range from small countertop models to larger freestanding units
- Portable and convenient for off-road enthusiasts

#### Gaming Consoles

Putting a gaming console in your off-road vehicle can provide a source of entertainment and fun during long trips or outdoor adventures. It can also be a way to connect with other gamers and participate in gaming events while on the road. If you are on a long off-road trip, having a gaming console can provide a source of entertainment during downtime or rest stops. It can be a fun way to pass the time and relax after a day of driving or exploring. If you are traveling with children or a group of friends, a gaming console can provide entertainment for everyone. It can be a great way to keep kids entertained during long car rides and provide a bonding experience for the whole family. If you plan to tailgate or camp out in your off-road vehicle, a gaming console can be a fun addition to the festivities. You can set up a small gaming area with a TV and console, providing entertainment for everyone at the event. If you are part of a gaming community or organization, you may want to set up your off-road vehicle with a gaming console to participate in mobile gaming competitions or events. This can be a great way to meet other gamers and compete in your favorite games while on the go.

#### Benefits of Putting a Gaming Console in Your Off-Road Vehicle:

Provides entertainment and fun during long trips or outdoor adventures  
A way to connect with other gamers and participate in gaming events while on the road

A source of entertainment during downtime or rest stops

A fun way to pass the time and relax after a day of driving or exploring

Provides entertainment for everyone traveling with children or a group of friends

A fun addition to tailgating or camping out festivities

A way to participate in mobile gaming competitions or events

sPOD Power Management Systems

sPOD (Specialty Products of the Desert) is a brand of power distribution and management systems designed for off-road vehicles. sPOD power management systems are designed to centralize and simplify the wiring and control of various accessories, such as lights, winches, and audio systems. The sPOD system consists of a control module, wiring harnesses, and various switches and relays. The control module acts as a central hub for all the electrical connections, providing power and control to all the connected accessories. The wiring harnesses are designed to be plug-and-play, making installation quick and easy, while the switches and relays allow for individual control of each accessory. With a sPOD system, all your off-road accessories can be controlled from a single location, providing a convenient and streamlined way to manage your vehicle's electrical systems. By centralizing the electrical connections, sPOD systems can help reduce the amount of wiring needed in your vehicle, simplifying the installation process and reducing the risk of electrical issues. sPOD systems use high-quality components and are designed to be rugged and reliable, making them ideal for use in harsh off-road environments. sPOD systems can be easily expanded and customized to meet your specific needs, allowing you to add or remove accessories as desired. sPOD power management systems are a popular choice for off-road enthusiasts who want a centralized and reliable way to manage their vehicle's electrical systems.

Benefits of sPOD Power Management Systems:

Centralizes and simplifies wiring and control of various accessories

Plug-and-play wiring harnesses make installation quick and easy

Individual control of each accessory

Reduces amount of wiring needed, simplifying installation process

High-quality components designed to be rugged and reliable

Easily expanded and customized to meet specific needs

Popular choice for off-road enthusiasts who want a centralized and reliable way to manage their vehicle's electrical systems

Wheels & Tires

All-terrain tires are an excellent investment for anyone who enjoys off-roading, as they can greatly improve your vehicle's performance and safety in a variety of conditions. All-terrain tires are designed with deeper treads and larger voids between the treads, which allow for better traction on loose or uneven surfaces like mud, gravel, and rocks. This means you'll be less likely to get stuck and more likely to maintain control of your vehicle. All-terrain tires are typically made with stronger materials and thicker rubber to withstand the rough and tumble terrain of off-roading. This means you'll be less likely to suffer punctures or other damage to your tires. All-terrain tires also provide a smoother ride on rough terrain, which can make your off-roading experience more comfortable and less jarring on your vehicle and passengers. All-terrain tires are designed to perform well both on and off the road, which means you won't need to switch out

your tires when transitioning between different types of terrain.

#### Benefits of All-terrain Tires:

Deeper treads and larger voids between the treads for better traction on loose or uneven surfaces

Stronger materials and thicker rubber to withstand the rough and tumble terrain of off-roading

Less likely to suffer punctures or other damage to your tires

Smoother ride on rough terrain for a more comfortable experience

Designed to perform well both on and off the road, eliminating the need for tire switching

#### All Vehicle Protection & Appearance

##### COMMON SERVICES & UPGRADES

##### Vinyl Wrap

##### Template Images for Make Model Pages\_0002\_Wrap

At Apex Customs our certified installers are the best in the business when it comes to the professional installation of an automotive vinyl wrap. We can install vinyl wrap in any application, but our specialty is color change vinyl wraps, racing stripes, vinyl graphics, hood and roof vinyl wraps. Our installers have many years of experience working on everything from Semi Trucks to Ferrari's and Honda Civics. Whatever your vinyl wrap application is, we can deliver your project on time and on budget without complication.

##### Vinyl Wrap Services:

Color Change Vinyl Wrap

Vinyl Racing Stripes

Vinyl Hood Wrap

Vinyl Roof Wrap

Vinyl Graphics

Vinyl Pinstripes

Side Mirror Vinyl Wrap

Vehicle Wraps

Learn More

Custom Paint

##### Template Images for Make Model Pages\_0003\_Paint

At Apex Customs we offer full-service automotive body and paint services. From collision repair to a custom builds, our certified expert painters will deliver you showroom quality results which meet and exceed factory specifications.

When it comes to customizing your car, truck, or SUV, an eye-catching paint job is one the best investments you can make. Whether your project is a classic car restoration, a collision repair, or a brand new sedan, a custom paint job will take your car, truck, or SUV from ordinary to extraordinary!

##### Apex Paints:

Paint Quality  
Proper Prep  
Multiple Layers  
Missing Surfaces  
Prevent Overspray  
Color Matching  
Learn More  
Paint Protective Film

Template Images for Make Model Pages\_0004\_PPF

Paint Protection Film (PPF), also commonly referred to as "Clear Bra," is applied to the painted surfaces of a vehicle to protect the paint from minor abrasions, stone chips, and bug splatters. Manufactured out of a thermoplastic urethane film, PPF is OEM approved by virtually every car manufacturer. PPF is installed by certified professionals due to the challenging nature of the installation. The primary function of PPF is to protect a vehicle from the elements and potential damage from road debris such as rock chips, paint scuffs and scratches and even vandalism.

PPF Locations

Rocker Panels  
Hoods, Bumpers & Mirror-Backs  
Door Edges and Handle Cavities  
Full Hoods, Trunks and Roofs  
Full Front-Ends  
Full Vehicles  
Learn More  
Window Tint

Template Images for Make Model Pages\_0001\_Tint

At Apex Customs Phoenix, our authorized installers specialize in the professional installation of automotive window tint.

Our professional line of Kavaca window tinting films will not only greatly enhance the look and value of your ride, but most importantly in our desert heat, will significantly reduce UV rays and heat inside your vehicle. Installing window tint on your vehicle will also improve the safety of your vehicle through window tinting's Glass Fragment Retention properties.

Window Tint Benefits:

Protects Upholstery  
Increases Comfort  
Reduce Driver Fatigue  
Protects Glass  
Skin Protection  
Added Security  
Learn More  
Ceramic Pro

Template Images for Make Model Pages\_0000\_Ceramic Pro

At Apex Customs we appreciate the investment that you have made in your vehicle, and we are here to help protect that investment!



As an authorized dealer of the best automotive coating products in the industry, we are proud to carry CERAMIC PRO hydrophobic nano-ceramic paint coating. This product is specifically designed to lock in your paint's perfect shine and promote an easily cleanable surface. The hydrophobic nature of the product allows water to bead right off and carry dirt particulates with it.

Ceramic Pro Offers:

- Unrivaled scratch and stain resistance
- Exceptional clarity
- Superior resistance dirt and grime
- Durable glass shield technology
- Tough, durable and maintenance free
- Corrosion resistance
- Oxidation resistance
- UV protection
- Learn More
- Light Restoration

Template Images for Make Model Pages\_0005\_Lights

After years on the road in the Arizona sun, headlights and tail lights become scratched, pitted and discolored, which impacts the clarity and effectiveness of these lights. At Apex Customs, we can restore the OEM lenses and housings on your headlights and tail lights so they are crystal clear again, and function like new. The process includes use of a special compound and procedure that removes surface oxidation and imperfections in the lenses and housings. Apex can also smoke your lights, giving it a distinctive style, while preserving the functionality of these lights.

Light Restoration Benefits:

- Light Housings Look New Again
- Headlight Clarity is Restored
- Protected Against UV Damage
- Headlight Function Improved
- Distinctive Styling
- Learn More

AUTOMOTIVE INFOGRAPHICS

Curious about the benefits of the automotive products we offer? We've put together a number of automotive infographics to explain the benefits of everything from vinyl graphics to powder coating. Check out our graphics below and feel free to share or embed on your blog or website!

[dabd1b\\_3abf28019a4742b292c21a3c801697f4\\_mv2](#)  
How To Vinyl Wrap

Considering a vinyl wrap for your vehicle and curious about the process? Here is an infographic we put together to walk you through the 7 steps our professional use when completing a vinyl wrap project. Whether you're considering giving vinyl wrap a try at home, or curious about what will be done to your car out our shop,

this infographic will walk you through the basics.

[View Now](#)

safe\_image\_002

How Four Stroke Engines Work

Before considering any engine or performance modifications for your car, truck, or SUV, it's important to understand how the modern internal combustion engine works. At Apex Customs, we want our customers to be informed about their options and where their money is best spent before making any commitments to an aftermarket service or part. We put together this infographic to walk you through the basics of how an engine works.

[View Now](#)

benefits

Benefits of Vinyl Graphics Advertising

The most effective advertising provides a memorable impression that is viewed by a large audience. Vehicle wraps offer your business a cost effective solution to not only sell your products and services in a manner consistent with your brand but also get recurring returns on your investment through thousands of impressions per day.

[View Now](#)

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Monday -Friday

9am ~ 6pm

Closed on the Following Holidays:

Memorial Day - May 29th, Independence Day - July 4th, Labor Day - September 4th,  
Thanksgiving - November 23rd, Christmas - December 25th