



4X4 UPGRADES



Better journeys

Range Overview

Since 1950, Pedders has been designing and manufacturing suspension products specifically for harsh Australian conditions. Our market leading range of quality products is designed and developed in Australia and sold throughout our 120+ Australian store and dealer network. The Pedders Suspension and Brakes range is tested and proven in Ambulance, Mining and International Law Enforcement Agency vehicles in some of the harshest environments in the world. Over 75 years of experience gives Pedders the leading edge in knowing what the customer demands. Pedders delivers the rugged performance that will get you to your destination and back, whilst maintaining the ride quality that modern 4WDs have to offer.

Pedders also upgrades older model 4WDs with a boost in off road performance and ride quality. It's the product of all our years of R&D experience which enables us to deliver a premium level of ride comfort and handling for 4WD vehicles. In fact, we are so confident in our quality product that we back it up with a 2 year/40,000km 'No Fuss' nationwide warranty, which means that should a hassle occur, you can rest assured that you're covered.



PEDDERS IS SUITABLE FOR 4WD OWNERS WHO WANT TO:

- Enhance the ride, control, comfort, off road ability and traction of their 4WD
- Upgrade or replace their old or worn 4WD suspension
- Increase ground clearance and articulation (the ability of the suspension to flex all four wheels onto the ground firmly, even when negotiating uneven terrain)
- Boost towing and load carrying ability with the addition of a GVM upgrade kit
- Improve braking performance in all conditions
- Minimise excessive squat (body tilts down in rear) when accelerating or when driving with a heavy load
- Minimise excessive diving (body tilts down in front) when braking
- Reduce rear end sag under load carrying or towing conditions
- Drive in severe off road conditions
- Control and minimise body roll when cornering
- Enhance the safety of the vehicle
- Reduce wear on vehicle components
- Prolong the life of the tyres.

COMPREHENSIVE 4WD PARTS RANGE

Pedders suspension and brakes range includes thousands of quality components that have all been designed to improve the ride and handling characteristics of specific 4WD vehicles.

The range includes:

- 4WD Suspension Lift Kits
- GVM+ Upgrades
- Shocks & Air Bags
- Coil & Leaf Springs
- Brake Pads & Rotors
- Front Big Brake Kits
- Rear Drum To Disc Conversion Kits
- Torsion Bars & Suspension Bushes
- Shackle & U Bolt Kits
- Alignment Kits
- Steering Dampers
- Adjustable Panhard Rods
- CV Shafts & Swivel Hub Seal Kits
- Adjustable Drag Links
- Control Arms
- Brake Booster Kits
- Electric Secondary Park Brake Kits
- On Board Weight Scales

Plus a host of additional ancillary products.

Shock Absorbers

NITROGEN 4X4 GAS CHARGED SHOCK

Key Features:

- Premium grade oil used to withstand high operating temperature and continued rigorous use.
- Multi lip high pressure seal prevents shock absorber leaks and is designed to permanently seal the oil and gas inside the shock.
- Large 35mm bore and piston is greater than most original equipment size and provides an increased oil capacity for greater ride improvement.

Common Features for Nitrogen Gas and Foam Cell Shock Absorbers:

- Heavy duty twin-tube construction technology & heavy duty reinforced double welded mountings for long term durability.
- Rugged multi-purpose design improves stability and ride comfort for touring, load carrying, towing and 4WD applications.
- Advanced control for a comfortable ride and precise handling.
- Ideal for standard or raised height 4WDs and matched to Pedders range of springs.
- Individually shock dyno tested for quality assurance.
- Suitable for constant harsh off road conditions.

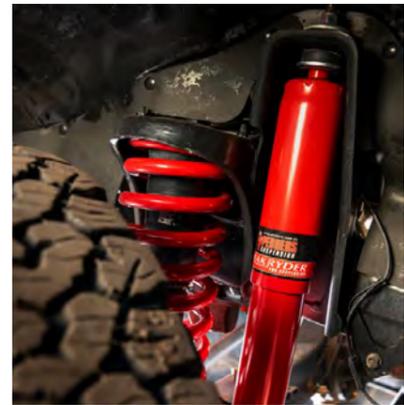


Shock Absorbers

4X4 FOAM CELL SHOCK

Key Features:

- The Pedders foam cell shock provides larger cooling areas to improve shock performance and durability by allowing full oil contact with both the inner and outer housings.
- The foam cell technology found in the shock absorber virtually eliminates shock fade by eliminating the mixing of the oil and air which ensures optimum damping control in all conditions.
- Extra large 40mm bore and piston is much greater than original equipment size and provides a dramatically increased oil capacity for greater ride improvement.



EZIFIT FOAM CELL SPRING & SHOCK COMBO

The heavy duty EziFit Spring and Foam Cell Shock Absorber combination kits were designed, developed and manufactured to provide precise control without compromising ride comfort. Supplied as a complete assembly of matched suspension components, the EziFit Spring and Foam Cell Shock Absorber combination kits are suited for all types of driving conditions – whether it is for severe off road or simply driving to work. One of the added benefits of these kits is that you can choose your ride experience by selecting your preferred coil spring type to match your driving needs. A choice of Standard, Raised or Loaded ride heights is available to order with various kits.

The Key Features:

- Supplied as a matched set of pre-assembled suspension components including Pedders Foam Cell Shock Absorber, Pedders Heavy Duty Spring and Pedders Strut Mount.
- Reduced installation time as the components are supplied pre-assembled and ready for direct fitment.
- The foam cell shock provides larger cooling areas to improve shock performance and durability by allowing full oil contact with both the inner and outer housings.
- The foam cell technology found in the Pedders foam cell shock absorber virtually eliminates shock fade by eliminating the mixing of the oil and air which ensures optimum damping control in all conditions.
- Extra large 40mm bore and piston is much greater than original equipment size and provides a dramatically increased oil capacity for greater ride improvement.
- Individually shock dyno tested for quality assurance.
- Severe off road vehicle compliant for harsh off road conditions.
- Heavy Duty twin-tube construction technology and heavy duty reinforced double welded mountings for long term durability.
- Rugged multi-purpose design improves stability and ride comfort for touring, load carrying, towing and 4WD applications.
- Advanced control for a comfortable ride and precise handling.
- Ideal for standard or raised height 4WDs and matched to Pedders range of springs.



With the internally designed “Bridged Ferrel” mounting bush, Pedders have created a mount that will endure the rigorous operational conditions placed on the mounting bush.

A larger bonded surface area, used in conjunction with high quality rubber with the appropriate duro. The added advantage is the resistance of the bush “walking sideways” on the ferrule.

The casing has been designed to allow for increased pretension to occur when it is pressed into the shock absorber mount.



Adjustable Foam Cell Shock Absorbers

Pedders Suspension & Brakes introduces the new Adjustable Foam Cell Shock Absorbers, designed to enhance vehicle performance, comfort, and durability. These shock absorbers utilise advanced foam cell technology to provide consistent damping performance and reduce aeration, resulting in improved ride control.

Key Features:

- 1. Adjustable Damping:** Nine levels of adjustment allow for customisation to suit various driving conditions, from off-road terrain to urban environments.
- 2. Foam Cell Technology:** This construction method minimises aeration, ensuring consistent damping performance and a more controlled ride.
- 3. Durable Construction:** Corrosion-resistant materials and robust design contribute to the longevity of the shock absorbers.
- 4. Simple Installation:** Designed for straightforward installation without requiring vehicle modifications.
- 5. Reliability:** Unlike remote reservoir style shocks, these units avoid additional failure points, enhancing overall reliability.
- 6. Integrated Adjustment:** A single adjuster controls both bump and rebound settings.
- 7. User-Friendly Adjustment:** No special tools required for adjustment. The easily accessible adjuster is located at the bottom of each shock.
- 8. Serviceability:** Each shock absorber features a serviceable adjuster knob.

ROBUST ADJUSTER DESIGN

The adjuster knob is constructed from high-tensile strength PVC plastic, offering resistance to physical impacts and chemical corrosion.

The choice of adjuster design was based on several factors:

- **Durability:** The tough, impact-resistant construction ensures longevity.
- **Corrosion Resistance:** The plastic composition prevents corrosion issues.
- **Cost-Effectiveness:** Efficient production methods result in a more affordable product for consumers.

These Adjustable Foam Cell Shock Absorbers represent Pedders' commitment to providing high-quality, adaptable suspension solutions for a wide range of driving needs and conditions.



SERVICE KIT

At Pedders we understand the rigors of harsh terrain and the impact it has on suspension components. This is why we have also developed a service kit for the adjustable foam cell shock absorbers.

The service kit includes:

- 1x PVC plastic adjuster assembly
- 2x Stainless steel M5 screws
- 1x Oil resistant rubber gasket

ADJUSTING THE SHOCK ABSORBER

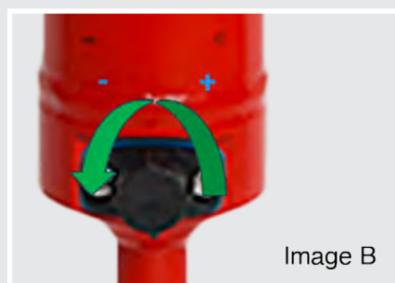
- All Adjustable Foam Cell Shocks come manufactured at Setting '5' which is the closest setting in terms of performance, when compared to a non-adjustable Pedders Foam Cell Shock. We refer to setting '5' as the 'neutral setting'.
- When adjusting, you will feel the adjuster 'click' as you cycle through the settings with 9 positions available across 360 degrees of rotation.
- All Pedders Adjustable Foam Cell Shocks feature a stamped '-' and '+' in the shock body. This is to aid the user in adjusting the shock absorber.

ADJUSTING THE DIAL FOR THE RIGHT RIDE

Clockwise adjustment or right rotation of the adjuster increases the firmness of the shock absorber in both compression and rebound. See Image A.



Anti-clockwise adjustment or left rotation of the adjuster knob softens the shock absorber in both compression and rebound. See Image B.



Springs

Key Features:

- Pedders coils are heavy duty units that provide the precise rate needed to carry the mass of heavy 4WD vehicle bodies and wheel assemblies.
- Pedders coils are made at Pedders' hi-tech spring manufacturing facility in Melbourne, Australia from the highest quality Australian spring steel.
- Produced according to a strictly controlled design, manufacturing and testing process that ensures Pedders' coils exceed original tolerances and are equal to or exceed the best in the world for consistency of rate, loaded height and reliability.
- Standard height and raised height coils for extra ground clearance are available for most vehicles and higher rated coils can be used to compensate for the extra weight of a bull bar, winch, rear step, or to improve a vehicle's load carrying or towing ability.
- Pedders coils are matched to Pedders shocks to reduce body roll, rolling pitch and brake dive and to improve overall handling, comfort and traction through superior suspension control. Improving overall handling, comfort and traction.
- Built to ISO 9001 International Standards, ISO 14001 International Standards & AS/NZS 4801 Safety Standards to ensure a quality product in every coil produced.
- Stress relieved and 100% QA inspected.
- Loaded height tested.

COIL SPRING AIR ASSIST & LEAF SPRING AIR ASSIST

Features:

- Exceptional load assistance characteristics.
- Improved towing and load carrying capability.
- Compensate for general instability associated with heavy loads.
- Increase shock life, improve braking and reduce body roll.
- Full adjustability to allow the bag to be matched to the load.
- Assist spring, shock and bush life.
- Maintain superior comfort levels while providing that extra level of suspension control needed when towing.



Leaf Springs



PEDDERS LEAF SPRINGS

Pedders Suspension have a variety of replacement leaf spring packs for a wide range of 4WD & 2WD vehicles designed specifically for load carrying applications. Pedders replacement leaf spring packs are durable whilst providing improved vehicle control and stability due to the fact that they feature redesigned spring rates.

A number of these springs have a 2-stage design which provides a comfortable ride when unladen whilst maintaining extra height when a load is applied.

We offer constant load packs of up to 800kg, depending on the vehicle application. For heavy load carrying and towing, leaf springs remain the best performing suspension design. Pedders offer full replacement leaf spring that feature interleaf friction pads and metal eye sleeves to minimise binding or noise. They are constructed from only the highest grade steels for the most durable performance.

* Some exceptions apply.



PARABOLIC LEAF SPRINGS

VS

TRADITIONAL LEAF SPRINGS

Understanding the diverse needs of 4WD owners, Pedders has developed a comprehensive range of leaf springs, including both Parabolic and Traditional variants, to cater to various demands. This guide aims to navigate you through the selection process, highlighting the key features, benefits, and applications of Pedders range of leaf springs to ensure you make an informed decision tailored to your specific requirements.



What's right for you?



PEDDERS PARABOLIC LEAF SPRINGS

Pedders Parabolic Leaf Spring range is Ideal for drivers seeking enhanced comfort and improved off-road capability. Whether navigating city streets or tackling rugged terrain, these springs adjust to your vehicle's load, providing a balanced performance. Parabolic Leaf springs are designed to maintain comfort, even when not carrying-weight which make them ideal for a vehicle that is used for a variety of purposes. The features that make this possible are:

- Reduced Leaf Count: Fewer leaves result in a lighter, more comfortable ride without compromising load capacity.
- Tapered Design: Ensures flexibility, offering a smoother ride and better articulation.
- Load Handling: Maintains high load-carrying ability, perfect for both unloaded daily drives and fully loaded adventures.

PEDDERS 4X4 UPGRADES LEAF SPRINGS

From everyday utility vehicles to hardcore off-roaders and commercial trucks, 4x4 Upgrades leaf springs cater to a broad spectrum of 4x4 and 2WD vehicles, ensuring safety, reliability, and comfort across all terrains. This traditional leaf spring design is available in standard, raised, 300KG, 400KG and 600KG constant load designs. Here are the key features:

- Interleaf Friction Pads and Redesigned Spring Rates: Minimise noise and enhance load carrying.
- High-Grade Steel and Tapered Cut Ends: Ensure longevity and consistent performance.
- Variable Laminate Thickness: Provides flexibility and strength where it's needed most.

Key Differences

The key difference between Pedders' leaf spring offerings—parabolic and 4x4 Upgrades—lies in their design and functional intent.

Parabolic leaf springs, with their tapered design and fewer leaves, offer a smoother and quieter ride, ideal for mixed-use scenarios that demand comfort without sacrificing load capacity. Conversely, 4x4 Upgrades leaf springs, available in various configurations for different load ranges, are tailored for specific load-bearing needs and enhanced durability, making them suitable for heavy-duty applications and ensuring optimal performance across a spectrum of driving conditions.

MAKING THE RIGHT CHOICE

Selecting the appropriate leaf spring depends on your vehicle's usage, expected load, and driving conditions. Parabolic leaf springs offer an excellent balance between comfort and functionality for mixed-use vehicles, while 4x4 Upgrades leaf springs provide customisable solutions for specific load requirements and heightened off-road performance.

SUMMING UP LEAF SPRING SELECTION

Pedders comprehensive leaf spring range ensures every 4x4 enthusiast and professional can find the perfect suspension solution. By understanding the nuances of each type, you can enhance your vehicle's performance, safety, and comfort, readying it for any adventure or task at hand. Visit Pedders for personalised advice and to explore the best options for your vehicle.



Variable Load Leaf Springs

For most dual cab vehicles on our roads today, ride comfort versus load carrying capacity is always a compromise. By today's standards, we are experiencing more consumers requesting a better ride characteristic from their load carrying dual cab utes. The general expectation is that they want more of a sedan style ride from their vehicle.

Through innovative design, Pedders have developed variable leaf springs that achieve the best of both worlds: the ability to improve ride quality and vehicle load carrying capabilities.

Because the modern dual cab utilities are used as both a work horse and a family vehicle, the spring design has a requirement to fulfill dual roles. Pedders have a product to deliver an outcome that will be pleasing to the consumer.

The selected range of variable load leaf springs offer:

- Improved ride quality in laden and unladen situations
- Increased articulation with a raised ride height
- Increased spring rate from original specification
- Innovation in design and construction

Inter leaf friction is created with the leaves flexing through normal suspension travel, as a consequence a firmer ride may be experienced. With the fitment of "Inter Leaf anti friction pads" this reduces the resistance to movement and therefore will improve the quality of ride.

The more supple ride is also affected by the thickness of the laminates, by varying the dimensions of the leaves a more comfortable ride can be achieved.

With the formed taper or the "Application Specific" cambering placed into the overload, increased travel can be achieved, thus increasing the travel before the primary pack comes into contact with the secondary or over load section of the spring.



Brakes

Pedders offer a range of brake parts and upgrades to suit a variety of popular passenger and 4x4 vehicles. Pedders brakes are designed to meet or exceed the performance of the original equipment fitted to the vehicle from factory.

Pedders offer replacement and upgrade Brake Rotors, Brake Pads, and Brake Hoses as well as complete brake conversion kits such as our Rear Disc Conversion Kits to suit popular utes, high performance Big Brake Kits and Electric Secondary Park Brake.

For drivers seeking a boost in braking performance, check out our Slotted and Geomet-coated brake rotor range, and Kevlar Ceramic brake pads.

Pedders brake upgrades are suited to drivers that tow or carry heavy loads with their vehicles, therefore placing additional stress on the factory braking components. Pedders brake upgrades can also suit drivers who simply want more performance out of their braking system.



4x4 Upgrades Dual Diaphragm Brake Booster

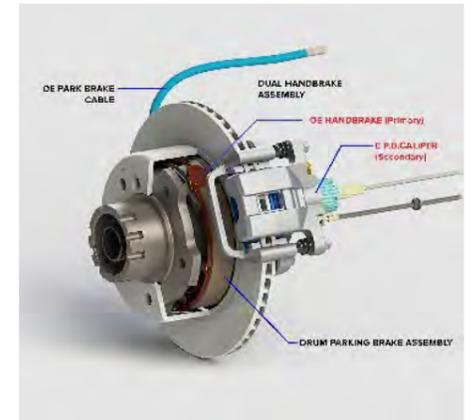
After extensive Australian development and engineering, we are proud to offer our Pedders 4x4 Upgrades Dual Diaphragm Brake Booster to the suit Landcruiser 70 series. Offering a significant increase in braking performance by up to 30% over OEM, the Pedders Brake Booster kit is the perfect solution for drivers needing increased braking performance from their vehicle.

The Pedders Dual Diaphragm Brake Booster is a must-have addition for those vehicles that tow and carry loads regularly. Improve the braking feel and performance on your Landcruiser with Pedders today!



Electric Secondary Park Brake Kit

For Toyota LandCruiser 70 Series owners who regularly navigate steep inclines or carry heavy loads, maintaining a secure park can be challenging, especially as the vehicle ages and the manual handbrake cable stretches. This is where Pedders Suspension and Brakes introduces an innovative solution - the Electric Secondary Park Brake (ESPB), designed to enhance safety, reliability, and give you peace of mind that your pride and joy won't roll-away.



HOLD STEADY, NO MATTER THE TERRAIN.

If you tow or carry heavy loads with your Toyota LandCruiser 70 Series, your vehicle could benefit from the innovative new Pedders Electric Secondary Park Brake.

ENHANCING VEHICLE SAFETY.

The ESPB is an advanced system that works alongside your factory park brake, offering a robust backup solution. It uses an electric park brake caliper, similar to those found in new vehicles, ensuring that your vehicle remains firmly in place under various conditions. This system is particularly beneficial for vehicles used beyond the manufacturer's design parameters, providing a firm and secure hold without affecting the Australian Design Rules compliance of the vehicle.

SEAMLESS INTEGRATION

The integration of the ESPB into your LandCruiser 70 Series is seamless, with an unobtrusive cabin switch that allows easy operation without compromising the vehicle's interior aesthetics. The system retains the mechanical handbrake's functionality while adding the ESPB for an extra layer of safety. This dual approach ensures that the appropriate clamping pressure is always applied by the park brake, minimising any risk of vehicle roll-away.

2 YEAR / 40,000KM WARRANTY

Pedders' commitment to quality and safety is further underscored by the 2-Year / 40,000km nationwide warranty accompanying the ESPB, offering owners reassurance in the reliability and durability of their investment. The Electric Secondary Park Brake is an exemplary innovation from Pedders Suspension and Brakes, reflecting the company's ongoing dedication to improving overall brake system performance and driver safety and comfort.

SAFETY AT A SWITCH, AVOID ROLL-AWAY

Pedders ESPB system is not just about enhancing safety; it's about offering LandCruiser owners the peace of mind that comes from knowing their vehicle is equipped to stay securely parked in any situation.

- ✓ Secondary Support to Retained OE Hand Brake
- ✓ Auto Safe Engagement
- ✓ High Clamping Module

Kevlar Ceramic Brake Pads

Pedders Kevlar Ceramic 4WD and SUV Brake Pads offer superior stopping power that is demanded by those who offer the tow, as well as off-road enthusiasts. Whenever you add weight to a vehicle by towing a load or simply adding cargo, you change the operating conditions of your stock brake package. These conditions may exceed the capabilities of the stock braking components. The solution is Pedders Kevlar Ceramic Brake Pads and Pedders Extreme Kevlar Ceramic Brake Pads. A wide range of high-performance 4WD and SUV pads is available from your local Pedders outlet.



PEDDERS KEVLAR CERAMIC BRAKE PADS

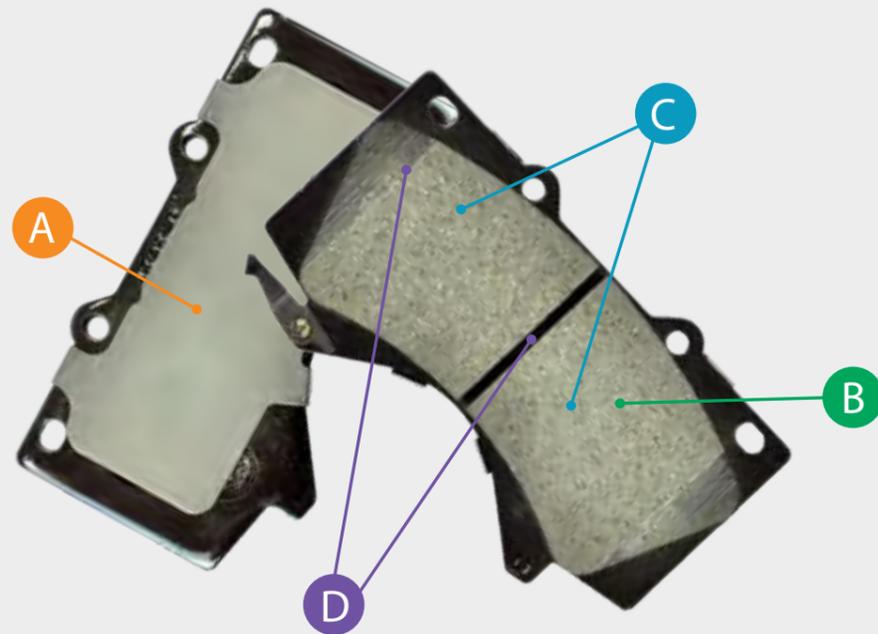
Key Features:

- Kevlar Ceramic
- Outstanding Braking Performance
- Ultra Low Dusting
- Longer Lasting Formulation
- Dual Rubber Backed Shims
- Smooth Bite & Consistent Firm Pedal

PEDDERS EXTREME KEVLAR CERAMIC BRAKE PADS

Key features:

- Kevlar-enhanced to prevent high temperature glazing resulting in brake fade
- Specifically formulated to hold a high coefficient of friction under extreme usage
- Positive moulded and hot pressed at over 6,000 psi ensuring consistent friction density
- Low noise, consistent performance, longer lasting and rotor friendly
- True Kevlar Ceramic formula that keeps wheels cleaner
- Shimtech dual rubber backed shims offering 6 times more noise reduction.



- Features and Benefits:**
- A** Shimtech™ advanced shims to reduce vibration and brake noise.
 - B** Kevlar Ceramic Friction formula for outstanding braking performance in all conditions.
 - C** Ultra low dusting pads designed to keep your wheels clean.
 - D** Slotted and chamfered friction material to reduce brake noise.

Brake Pads & Brake Rotors

ORIGINAL EQUIPMENT DIRECT REPLACEMENT DISC BRAKE ROTORS

Features:

- Made from the highest grade raw materials and manufactured to the highest possible standards
- OEDR – Original Equipment Direct Replacement Brake Rotors
- Guaranteed to fit genuine OEM specifications
- Smooth brake pad bed-in

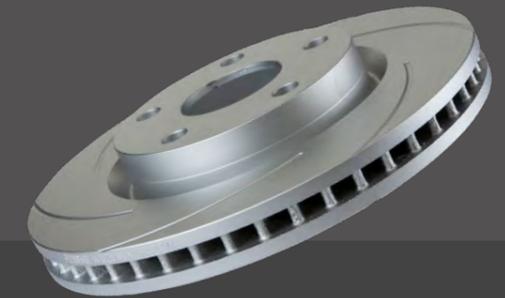


SLOTTED & GEOMET COATED DISC BRAKE ROTORS

Features:

Made from the highest grade raw materials and manufactured with the highest precision

- Curved slotted brake rotor design
- Designed for consistent brake pedal feel
- Geomet coated for better anti-corrosion protection
- High wear resistance
- Exceptional heat dissipation under extreme conditions
- Slots help remove gas and dust from rotor surface.



CERAMIC BRAKE PADS

Features:

- Ceramic technology
- Friction formula specifically designed for your vehicle
- Rotor friendly for longer disc life
- Quiet braking with high wear resistance
- Shimtech™ advanced shims to reduce vibration and brake noise
- Friction material is slotted and chamfered for noise vibration and harshness control



- Features and benefits:**
- A** Shimtech™ advanced shims to reduce vibration and brake noise.
 - B** Friction formula specifically designed for your vehicle.
 - C** Quiet braking with high wear resistance.
 - D** Friction material is slotted and chamfered for vibration and harshness control.

BRAIDED BRAKE HOSES

Features:

- Improved safety with enhanced performance
- Reduce braking distance during a panic stop
- Eliminates pedal sponginess under firm / heavy braking
- Allows immediate brake pedal response
- Increases braking efficiency
- Abrasion & corrosion resistant.



Pedders eXtreme Brake Kits



For the discerning driver who is particular about how their vehicle performs Pedders offers the Pedders eXtreme Brake Kit.

The braking results are staggering with the inclusion of a larger 6 pot caliper design, high tech Pedders eXtreme kevlar ceramic pads mated with a 10 slot dimpled and geomet coated larger diameter rotor.

Bigger braking surface means bigger stopping power. With the fitment of the all new Pedders eXtreme brake kit, independent Australian Engineering tests reflected an average improvement in braking distance by up to 14%.

TO SUIT:

FORD RANGER | HOLDEN COLORADO
ISUZU D-MAX | MAZDA BT-50
TOYOTA HILUX | TOYOTA LANDCRUISER

Features:

- Stainless steel braided hoses
- 10 slot and dimpled Pedders geomet coated rotors
- Pedders Kevlar Ceramic low dust brake pads
- Pedders 6 pot design caliper brackets and bolts
- 6 Pot, 2 piece aluminium forged calipers
- All the parts you need for a bolt up conversion

KEVLAR CERAMIC



*Independent Australian engineering test results proved that at 100kmh the eXtreme Brake Kit system upgrade stopped on average 11m sooner than original equipment (on Ford Ranger with Pedders GVM+ load of 3590kgs). An outstanding result that improves the braking efficiency and performance of the Ford Ranger. For even better results we also offer a Pedders Rear Drum To Disc Brake Conversion Kit. Under the same test conditions and fitted together with our 4x4 Upgrades eXtreme Brake Kit braking distances are reduced by 21%. This kit is suited for 18" wheels or larger. Further details available in store and on our website.

Rear Disc Brake Conversion Kits

For ute drivers and fleet owners, braking performance under load and excess weight can create a safety issue. With Pedders rear disc brake conversion kits the braking performance is simply epic! Independent testing proved an average of 34% improvement in braking efficiency under heavy GVM load*. This upgrade braking kit is a must have for all **Toyota Hilux, Ford Ranger, Mazda BT50, Isuzu D-Max and Nissan Navara** ute owners. Available now at your local Pedders outlet. Trade enquiries welcome.



Key Features:

- Easy inspection. The car owner does not have to remove the wheels to look at the disc brake system.
- Increased stopping power over drum brakes. Smaller pad area, but more clamping efficiently. Brake pedal feel and modulation are improved.
- The disc brakes are completely self-adjusting and have less moving parts.
- It takes longer for the disc brake to achieve brake fade, because they have a wider surface area that is directly exposed to air.
- Disc brakes drain water quickly whereas once water enters a drum brake, it stays there longer hindering braking efficiency.
- Brake mounting is very easy. Only two bolts are needed to be removed to replace brake pads.
- Kit is inclusive of all of the necessary hardware to update the rear drum brakes to a Pedders Rear Disc Brake. Kit contents include a pair of Pedders Geomet coated and slotted disc brake rotors. Plus a set of rear Pedders Kevlar Ceramic brake pads.
- ADR 35/05 clauses 7.3-7.11 compliant - Extensive testing to support our Australian design rule certification.
- Installation video supplied along with fitting instructions.
- 2 Year 40,000kms Nationwide Warranty.
- Each rear drum to disc conversion kit must be installed by a Pedders outlet or approved distributor. Talk to your local Pedders expert for further information.



Braking test results: Toyota Hilux Gen 8 4WD with HUGE LOAD!



BEFORE

O.E. Drum Brakes Laden at Pedders GVM+ Braking From 103kph



92 METRES STOPPING DISTANCE



AFTER

Pedders Rear Disc Laden at Pedders GVM+ Braking From 101.6kph



60.7 METRES STOPPING DISTANCE

34% BETTER STOPPING POWER!

Independent Australian engineering (including electronic stability control) test results proved that at over 100kph the Pedders rear drum to disc braking system upgrade stopped on average 32m sooner than original equipment. An amazing result that enhances load carrying and towing performance. Official test concerns itself with ADR 35 at Pedders GVM weight of 3450kgs.

4x4 Upgrades Product Range

STEERING DAMPERS

- Pedders steering dampers enhance driving feel and comfort by further reducing the jolts and impacts caused by heavy wheels and rough conditions.
- Pedders steering dampers feature an extra large 35mm bore. This provides optimum performance via the Foam Cell technology that enables the steering damper to operate even when the vehicle is on a severe incline.



URETHANE & RUBBER BUSHES

- Pedders urethane bushes are the superior material choice for when high levels of suspension control and durability are required. They are particularly suited to applications requiring heavy load carrying ability, firm suspension control, or where regular exposure to corrosive materials is expected.
- Pedders urethane bushes also incorporate a special cross hatch dimple profile on the working surface to enhance grease retention.
- Pedders rubber bushes are manufactured from high quality, durable rubber and are a direct replacement for the original bush.
- Designed to provide excellent NVH (noise vibration harshness) suppression while maintaining vehicle specific levels of front axle movement and articulation.



SHACKLE KITS

- Pedders greasable shackle kits have heavier side plates. Some feature anti-inversion brackets as standard to avoid the problems of overextension of raised leaf springs.
- Pedders shackle kits are E-coated and designed as bolt-on replacements for most leaf sprung 4WDs, including Patrol, LandCruiser and Hilux.



ALIGNMENT PARTS & CONTROL ARMS

- Pedders wheel alignment parts include components that enable the adjustment of camber and caster to optimise tyre contact with the road, extend the life of expensive 4WD tyres and improve handling.



4x4 Upgrades Product Range

U BOLTS

- Front & Rear heavy duty U-Bolt for direct fitment to leaf springs.
- Grade 10.9 to ensure additional strength in heavily loaded situations.



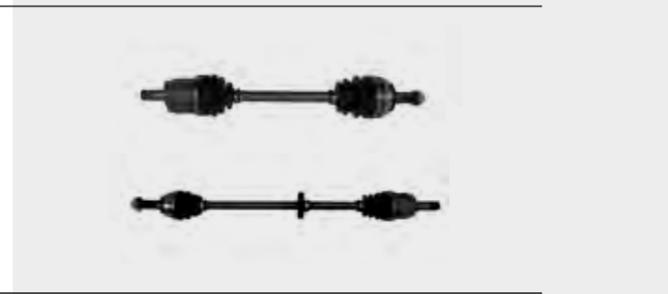
ADJUSTABLE PANHARD RODS

- Made from tough heavy duty steel with powder coated finish.
- Comes with pre fitted heavy duty urethane bushes or spherical joints (subject to application fitments).



CV SHAFTS

- Pedders comprehensive range of replacement CV Shafts are made to exacting specifications including European SGS international quality ISO9001, QS9000, VDA6.1 and TS16949 certifications.



SWIVEL HUB & WHEEL BEARING KITS

- Pedders swivel hub and wheel bearing reconditioning kits come packed with high-quality seals, gaskets, felts and all of the tapered roller bearings you will need to get your swivel hubs and wheel bearing looking and performing the way they should; clean and leak-free.



TOWBARS

- Our range of towbars and towing accessories are available at selected Pedders outlets.



Load Carrying Upgrade Solutions



LOCK AND LOAD WITH PEDDERS GVM+ UPGRADE SOLUTIONS!

If you carry loads for a living or are serious about what you take with you on your next journey then look no further. Pedders GVM+ Upgrade Solutions offer one of the best suspension upgrades for your vehicle, proudly backed by our nationwide network of certified installers and service centres.

When your vehicle is fully loaded for the journey ahead or if you are carrying the tools of your work trade, chances are that your vehicle may be overloaded beyond its GVM and Payload capacity and you may not even know it. Common items such as tools, tool boxes, cargo, bull bars, winches, towbars, fuel, accessories, passengers, recovery gear all combine to add weight to your vehicle and decrease the available payload. It is also important to note that if you have purchased a cab/chassis, the weight of any tray or service body is considered to be part of the "kerb weight" – therefore further reducing the available payload.

Every vehicle on our roads today has an official legally allocated Gross Vehicle Mass rating (GVM) and Payload Capacity (how much weight a vehicle can carry in both

passengers and cargo in the cab and tray bed). The GVM rating is the maximum allowable weight figure (in kg's) as specified by the manufacturer when fully loaded. It's essentially the maximum legal weight, that you can safely drive at for that particular vehicle.

Pedders now offer a GVM+ upgrade solution for selected Navara models to assist in compliance for GVM ratings. Through exhaustive and detailed testing, the Pedders GVM+ Upgrade Kits have been approved by the (Commonwealth) Department of Infrastructure and Regional Development.

So if you're unsure about the GVM of your vehicle or if you think that you are running your vehicle over the legal weight limit, then book your car into one of our stores for a Pedders Tow & Load Assessment. With the use of our approved Pedders Tow & Load Assessment outlets, we can check the axle weight and corner weights of your vehicle to determine the overall weight of your vehicle. Additionally we can then advise you if your vehicle is overloaded, and what options are available for your vehicle.



PEDDERS BRAKE PADS ARE AN IDEAL ADDITION FOR ALL PEDDERS GVM+ SUSPENSION UPGRADE KITS.

TESTED AND PROVEN TO BE SUBSTANTIALLY HIGHER IN PERFORMANCE THAN ORIGINAL EQUIPMENT.



GVM UPGRADE SOLUTIONS FROM PEDDERS:

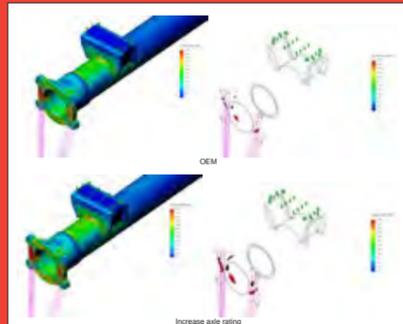
- We offer Australian certified suspension upgrade kits that comprise heavy duty Pedders Suspension components. This means that all of our GVM+ upgrade solutions kits are endorsed and certified by the (Commonwealth) Department of Infrastructure and Regional Development.
- All components installed as part of a Pedders GVM+ upgrade package are backed by a Pedders 2 Year/40,000kms Nationwide Warranty.
- Ideal choice for towing caravans, tradie/fleet vehicles, vehicles with service bodies, horse floats, camper and general trailers that need that extra load carrying capacity.
- Great for serious four wheel drives fitted with bull bars, winches, recovery equipment, drawer systems, camping gear and underbody protection looking for compliance to federal and state GVM laws. When the GVM+ upgrade kit has been installed to a new vehicle by the trained technicians at a Pedders GVM+ certified installer, a new compliance plate will be fitted. The new vehicle can now be registered with new increased G.V.M. This procedure will allow the vehicle to be legally registered and driven in all states of Australia. For vehicles that have already been road registered, the process varies from state to state. The vehicle may be required to be inspected by an authorised Automotive Engineer in that State and be issued with a compliance certificate. Contact your local Pedders GVM+ approved outlet for further details.
- So, if you are planning a load carrying vehicle purchase, or have realised that your current vehicle isn't quite handling the load, we have the solution.

Design, Research, Development & Engineering



After getting to this point in the process, Pedders outsources the engineering testing and certification to ensure all aspects of compliance with the Australian Design Rules. All solutions are rigorously tested and signed off prior to presentation of that evidence to the Federal Office for Vehicle Safety Standards in Canberra.

OEM vs Proposed GVM+ Increased axle rating (on selected vehicles).



ESC Testing with State of the Art Testing Procedures.



Certification

The process for approval certification as a second stage manufacturer is quite similar to that of an original equipment manufacturer. Each Pedders GVM+ upgrade solution must pass all Australian Design Rules and Safety Standards.

GVM+ Approved Vehicles

 Ford Everest Up to 3770Kgs	 Ford Ranger Up to 3800Kgs	 Ford Ranger PX PX Up to 3500Kgs PX 2 Up to 3500Kgs PX 3 Up to 3670Kgs	 Holden Colorado RG Up to 3420Kgs	 Holden Colorado RG2 & RG3 Up to 3450Kgs
 Hyundai iLoad Up to 3490Kgs	 Isuzu D-Max Up to 3670Kgs	 Isuzu D-Max Up to 3450Kgs	 Isuzu MUX Up to 3200Kgs	 Isuzu MUX Up to 3300Kgs
 Jeep Gladiator Up to 3050Kgs	 Mazda BT-50 2011-2020 Up to 3500Kgs	 Mazda BT-50 08/2020-On Up to 3670Kgs	 Mitsubishi MR Triton Up to 3200Kgs	 Mitsubishi MQ Triton Up to 3100Kgs
 Nissan Navara D23 Up to 3070Kgs Leaf Up to 3070Kgs Coil	 Nissan Navara D40 Up to 3215Kgs	 Nissan Patrol Up to 3505Kgs	 Nissan Patrol Ute Up to 3950Kgs Leaf Up to 3505Kgs Coil	 Toyota HiAce 200 Up to 3190Kgs LWB Up to 3460Kgs SLWB
 Toyota HiAce 300 LWB/SLWB 4/Cylinder Diesel Auto Models Only Up to 3950Kgs	 Toyota Hilux 05-15 Up to 3140Kgs	 Toyota Hilux 2015-On 4WD + 2WD Hi Ride Up to 3620kgs	 Toyota Hilux 2015 onwards 2WD Low Ride Up to 3180kgs	 Toyota Landcruiser 200 Up to 3850Kgs
 Toyota Landcruiser 70 76 Up to 3780Kgs 78 Up to 3950Kgs 79 Up to 4200Kgs	 Toyota Landcruiser Up to 4090Kgs	 Toyota Landcruiser Prado 150 Series Up to 3500Kgs	 Volkswagen Amarok Up to 3305Kgs	 Volkswagen Amarok Up to 3800Kgs

Quoted vehicle GVM figures subject to change. Please check our GVM+ website content for further information. Visit: <https://www.pedders.com.au/browse-kits/>





KNOW YOUR WEIGHT
anywhere, any time!

LOAD CARRYING

WHAT IS LOAD CARRYING ONBOARD SCALES?

Pedders **Load Carrying Onboard Scales** is a solution that will give you your vehicles actual weight anywhere, anytime. This gives you the control you need to monitor your vehicles axle load weights and payload, ensuring you do not exceed your GVM. It doesn't matter if you're towing or touring, with real-time vehicle weight information you can ensure you are operating your vehicle safely.

PEDDERS BREAKTHROUGH TECHNOLOGY

Maximise Payloads

By precisely knowing the weight and axle distribution you can optimise your vehicle.



Avoid Overloading Fines

Load Carrying Onboard Scales will provide highly accurate vehicle weight information, ensuring you avoid the risk of overloading your vehicle, preventing costly fines.



HOW LOAD CARRYING ONBOARD SCALES WORK?

The **Load Carrying Onboard Scales** system is designed for dual axled vehicles with standard coil or leaf spring suspension.

Each axle is monitored with a robust I.P66 rated potentiometer, relaying signals via the inbuilt RF transmitter. Utilising an integrated accelerometer, data is then transmitted to the display when vehicle is stationary and the handbrake is applied. An audible alarm will sound if the total vehicle or if the axle weight maximum is exceeded.

VEHICLE RANGE FOR LOAD CARRYING ONBOARD SCALES

- Ford Ranger PX111 (07/2018 On)
- Isuzu D-Max (07/2020 On)
- Mazda BT-50 (07/2020 On)
- Mitsubishi Triton MR
- Next Generation Ranger
- Toyota Hilux Gen 8
- Toyota LandCruiser 79 series (Single Cab)

KEY FEATURES



Easy to read in-vehicle display



Dynamic front & rear axle load weights



Real-time payload monitoring



In-Vehicle overload warning alarm



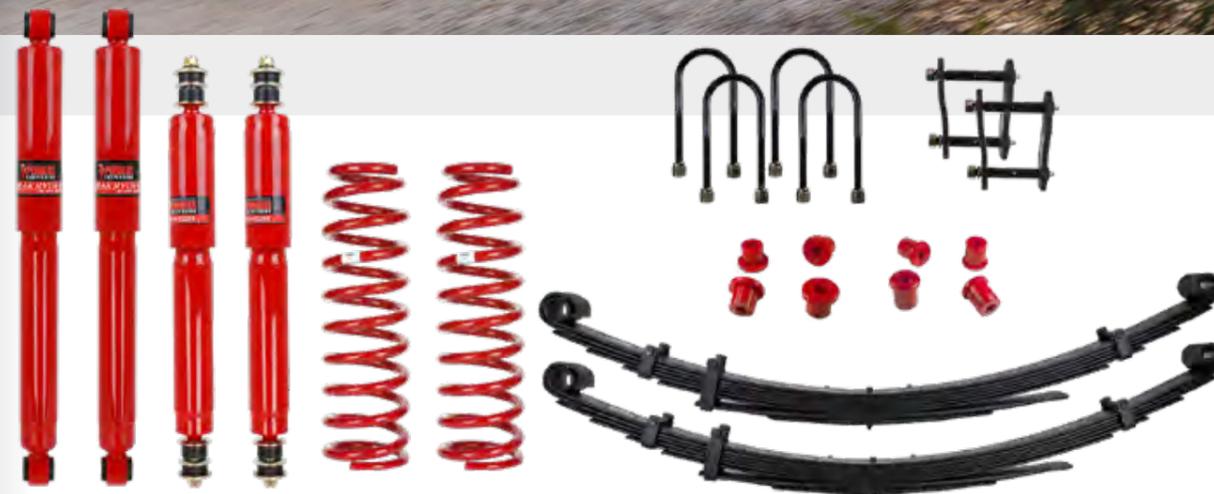
Remote notification capabilities

Pedders Lift Kits

PEDDERS KITS OVERVIEW

Pedders range of 4WD suspension upgrade kits have been designed to accommodate your choice of Touring, Expedition or Outback adventures. Each kit includes a set of 4 Pedders Shocks and Heavy Duty Coil Springs.

Check the website for further details.



The spring and shock absorber rates were developed to provide an improved ride quality, a reduction in body roll and improved stability.

This kit is primarily designed to return the vehicle's ride height to its original specification (up to 1/2" lift) and to re-energise the suspension capabilities through the addition of new shock absorbers.

Check the website for further details and remember that we can tailor a fully customised lift kit to suit your towing and or load carrying needs. With the abundance of 4X4 accessories on vehicles these days it's important to assess the weight of the vehicle on both axles to determine the best lift kit for your vehicle. One size does not fit all and this is where its best to discuss your lift kit with your local Pedders outlet.

COMPATIBILITY

For vehicles used primarily as a commuter vehicle with general use, such as to and from work or the occasional long distance road trip as well as the occasional off road travel. This kit is suitable for vehicles fitted with a nudge bar, driving lights and standard wheels and tyres.

The kit will also increase the capability of carrying a slightly heavier load such as bike rack, sporting equipment and light weight towing.



EXPEDITION

up to
1
inch lift



The spring and shock absorber rates were developed to provide an improved load carrying capacity, with the advantage of increasing the stability leading to less body roll, while at all times having consideration for the ride comfort. This kit is primarily designed to reinstate the ride height to as new with a minor enhance of up to 1" lift. The Expedition Kit will also improve the braking and steering of the vehicle when towing, in conjunction with correctly fitted and approved weight distribution equipment.

COMPATIBILITY

For vehicles used primarily for towing and/or load carrying. Ideal for carrying heavy loads, towing horse floats or caravans, and weekend of fun in the bush. This kit would be suitable for vehicles fitted with a nudge bar and driving lights, standard wheels and tyres, and general equipment such as a fridge or tool box.



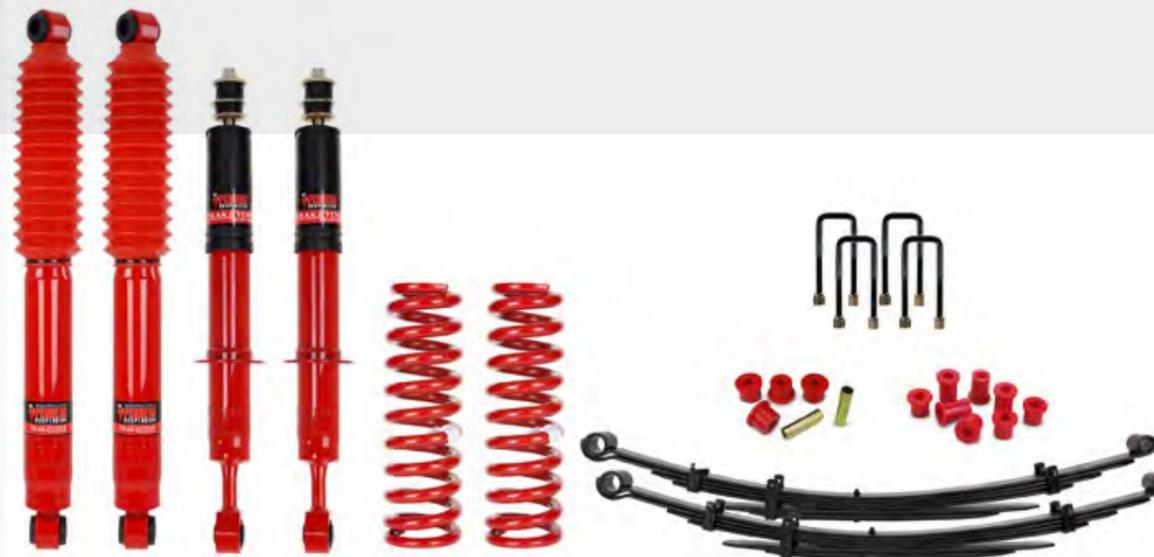
OUTBACK

up to
2
inch lift

The spring and shock absorber rates were developed to provide improved ground clearance and increased suspension travel, while improving vehicle stability on all road surfaces. This kit provides improved articulation on uneven road surfaces and improves tractability of all four wheels in difficult situations. It also allows for increased loads, such as camping or similar equipment. The increased ride height of up to 2" lift allows the enthusiast "off roader" improved entry and exit angles over severe undulating terrain.

COMPATIBILITY

For vehicles being used for on and off road, as well as general commuting. Ideal for towing caravans, horse floats, camper and general trailers. The kits would be ideal for vehicles fitted with a bull bar and driving lights, a dual battery system, or standard wheels with off road tyres fitted. The kit also has the ability to manage the extra weight of items, such as under car protection plates, roof racks, long range fuel tanks and rear drawer storage systems.



If you're looking for a complete 4" lift kit for your Toyota LandCruiser or Nissan Patrol then look no further, because Pedders has the solution for you!

Key Features:

- Simply fit the parts, get the vehicle wheel aligned and you're ready to go!
- The foam cell eliminates shock fade. The extra-large 40mm bore and piston is much greater than original equipment size and provides an even larger increased oil capacity for greater ride improvement.
- The Pedders raised extra heavy duty coil springs are made from premium quality grade steel, are stress relieved and 100% QA inspected.
- All sway bar links, alignment products, extended brake hoses plus assorted chassis parts have been designed, produced and tested off road to enhance the off road experience. All items are suited to rough terrain driving conditions.

Our 4" lift kits are supplied with the following rough terrain compliant components:

- Pedders raised extra heavy duty coil springs.
- Pedders long travel foam cell shock absorbers.
- Sway bar links.
- Alignment products.
- Extended brake hoses plus assorted chassis parts.
- For the ABS models we also include the brake line as an extra component.

NOTE:

- Vehicles can be further improved with the fitment of heavy duty/longer trailing arms, drag links and heavy duty steering dampers. See in-store for further details.
- Competition Use Only. Not for Road Registered Vehicles.

TO SUIT:

**TOYOTA LANDCRUISER 80/105 SERIES
NISSAN PATROL Y60 (GQ) – Y61 (GU)**



Pedders eXtreme Upper Control Arms

Pedders range of Pedders eXtreme Upper Control Arms are engineered to resolve issues associated with IFS fitted raised vehicles and are manufactured from carbon steel tube for optimum strength and durability.

When a vehicle is raised it can disrupt the factory-set steering geometry which can cause Caster and Camber angles being outside OEM specifications. This product is designed to maintain desirable geometry for lifted vehicles while giving clearance for increased wheel and tyre sizes.

Features:

- Designed to accept factory & aftermarket ball joints and bushings if required.
- Uniquely profiled front leg for greater clearance with larger wheel & tyres.
- Greater shock/strut clearance for more wheel travel.
- Angled ball joint cup housing designed to work with the extra travel enabling improved joint articulation.
- Manufactured from high quality carbon steel tube with black E Coat finish to provide greater strength and durability than OE design.
- Designed to restore acceptable geometry angles by repositioning the top ball joint, reducing tyre wear.
- Heavy duty greasable mechanical ball joint. Protected with alloy cap, designed to protect the grease nipple.
- Improves camber to be within original equipment tolerance and increase caster up to 3 degrees.
- Sold as a pair.



Things you should know about Suspension Lift Kits:

A suspension lift kit raises the entire suspension system, which allows 4WD owners to install much larger tyres and safely take the four wheel drive off road and into rougher terrains. Unlike other types of lift kits, suspension lift kits actually suspend the entire frame (with all the major parts including the engine and powertrain) to increase the distance between the chassis and the axles. Pedders Suspension lift kits raise the entire suspension by changing the shocks and the front and rear springs.

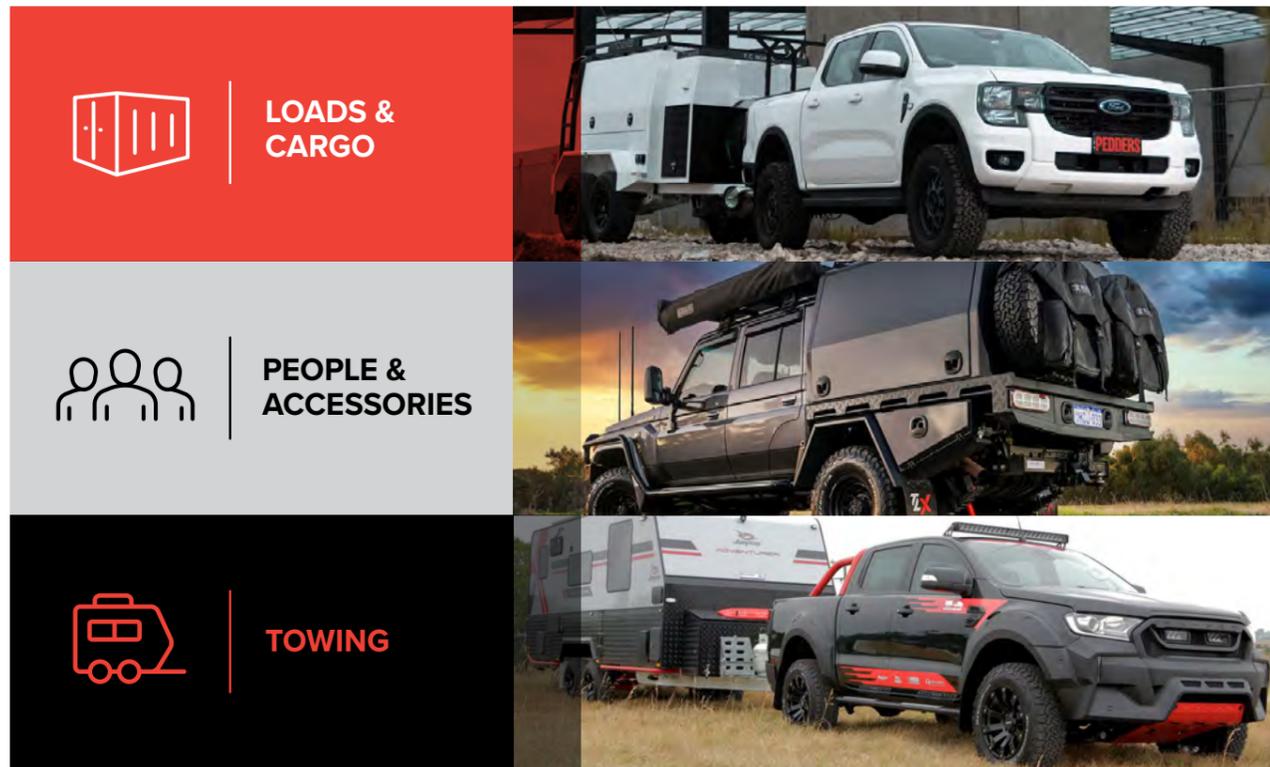
Pedders Tow & Load Assessment

KNOW YOUR WEIGHT NOW WITH PEDDERS TOW & LOAD ASSESSMENT.

Vehicle Weight from accessories, towing and loads is a significant factor in the safety and performance of your vehicle and hence Pedders have developed a world-first service, the Pedders Tow and Load Assessment, to assist customers in understanding their vehicle weight now and in the future.

WHAT IS WEIGHING YOU DOWN?

All weight impacts the safety and performance of a vehicle and that weight will come from one, many or all of the following;



Note: All vehicles have a maximum "Payload" which is the original manufacturers specification for the maximum allowable load for that vehicle.

BRAKE, STEERING AND SUSPENSION CHECK

The priority within the Pedders Tow and Load Assessment is to firstly assess the general health of the vehicle's brake, steering and suspension systems which are the most safety-critical systems especially under the stress of additional weight from loads, towing and accessories. A Pedders Brake, Steering and Suspension Check (valued normally at \$28) will be undertaken as a critical part of the Pedders Tow and Load Assessment and will include the following:



Under Car Inspection

Our trained specialist technicians will systematically inspect your vehicle's entire steering and suspension system and other related undercar components from front to rear.



Brake Pad & Rotor Inspection

Check and report on the wear and operating condition of these components, removing wheels as required.



Shock Absorber Test

Most cars will be subjected to a simulated condition, which enables evaluation of your shock absorbers and suspension. For other vehicles we have adequate alternative evaluation methods. As shock absorbers and suspension deteriorate over thousands of kilometres, it is often the case that a vehicle's safety is gradually compromised via increased braking distances, unstable cornering and various stability concerns.

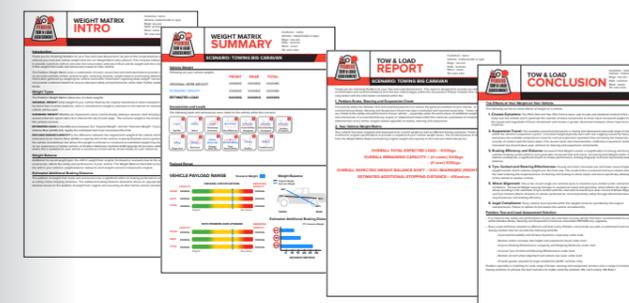


No Obligation Analysis and Written Report

Our comprehensive written report shows the current status of all-vital suspension and steering systems. Pedders staff are trained to know how to accurately evaluate the results of the report. So should your vehicle require work to be carried out to ensure its safety and dependability, we will outline for you within a scale of urgency the options available, using only Pedders approved components. This is a no obligation report, so you can decide what suits you best.

TOW AND LOAD ASSESSMENT REPORT, ADVICE AND SOLUTIONS

Following completion of the Pedders Brake, Steering and Suspension Check including weighing the vehicle front and rear plus the loading of your individual scenarios into the Weight Matrix Software Program, your Pedders Expert will discuss the assessment and provide advice and recommend solutions. The priority items are any issues found within the Pedders Brake, Steering and Suspension check as these issues are magnified with the addition of weight. To assist with understanding the Pedders Tow and Load Assessment and in particular the Weight Matrix results a multi-page report can be printed or emailed and may be used by the Pedders expert at point of sale to discuss the findings and recommendations.



WEIGHT MATRIX™

The "Weight Matrix" component of the Pedders Tow and Load Assessment refers to knowing your weight now and looking at your weight in the future based on your towing and load carrying scenarios.



Front & Rear Weight

Each participating Pedders outlet has a test lane or scales to weigh both the front and rear of your vehicle. The results of this vehicle weight form the basis of the first "as-weighted" scenario



Initial Accessories & Load Checklist

As part of the initial weighing of the vehicle your current loads and accessories will be listed as the basis of the "as weighed" scenario 1.



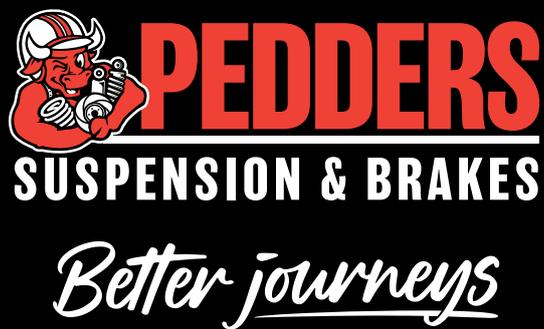
Tow Ball Weight

Where relevant, participating outlets can assess the ball weight of caravans or trailers as this is an integral part of some weight scenarios. Please discuss the practicality and logistics of this with your participating Pedders outlet.



Weight Matrix™ Software Report

The Pedders Weight Matrix Software and Report is a unique, world-first program designed to assist you in better understanding your weight issues. Armed with your vehicle's current weight and expected weights from future scenarios the Weight Matrix software program and report will provide key pieces of information for each different scenario.



OFFICIAL PARTNERS



Pedders Suspension & Brakes

25-29 Letcon Drive,
Dandenong South, Victoria 3175
Phone: +61 3 9706 3500



pedders.com.au

Warranty Pedders Suspension & Brakes provides a comprehensive two-year, 40,000km nation wide warranty on Pedders brand-name products designed for road use, including brakes, shock absorbers, struts, springs and steering gears. #

#Some exceptions apply. Please contact your local store for further information.