



TRAKRYDER



pedders.com.au

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 TrakRyder range is tested and proven in Ambulance, Mining and International Law Enforcement Agency vehicles in some of the harshest environments in the world. Over 65 years of experience gives Pedders the leading edge in knowing what you the customer demands. TrakRyder delivers the rugged performance that will get you to your destination and back, whilst maintaining the ride quality that modern 4WDs have to offer.

TrakRyder 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.

TRAK **RYDER**

TrakRyder 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.
- 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' TrakRyder suspension 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
- eXtreme Adjustable 4x4 Coilovers
- 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

Plus a host of additional ancillary products.

Shock Absorbers

TrakRyder 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 TrakRyder Gas and TrakRyder 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 TrakRyder springs.
- Individually shock dyno tested for quality assurance.
- Severe off road vehicle compliant for harsh off road conditions.

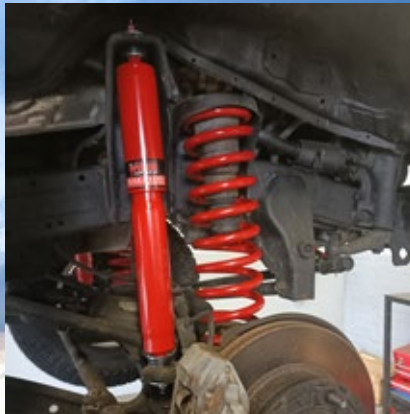


Shock Absorbers

TrakRyder Foam Cell Shock

Key Features:

- The TrakRyder 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 TrakRyder 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.



The heavy duty TrakRyder 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 TrakRyder 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 TrakRyder Foam Cell Shock Absorber, Pedders TrakRyder Heavy Duty Spring and Pedders TrakRyder Strut Mount.
- Reduced installation time as the components are supplied pre-assembled and ready for direct fitment.
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- Heavy Duty twin-tube construction technology and heavy duty reinforced double welded mountings for long term durability.
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- Advanced control for a comfortable ride and precise handling.
- Ideal for standard or raised height 4WDs and matched to Pedders range of TrakRyder 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.

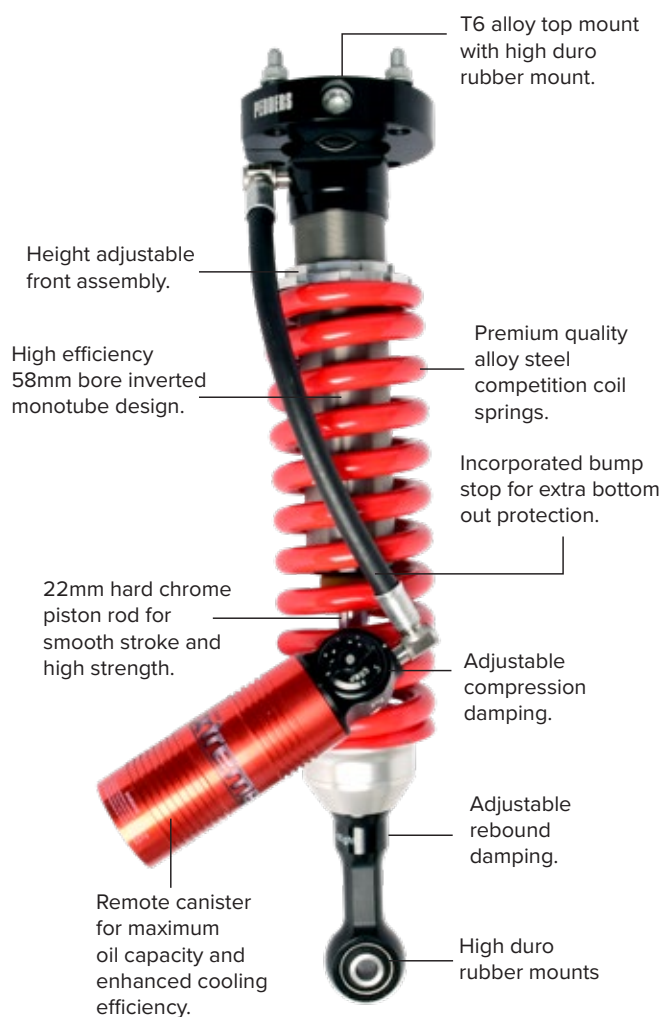
The casing has been designed to allow for increased pretension to occur when it is pressed into the shock absorber mount.



TrakRyder eXtreme Adjustable Coilover Kit

The Pedders TrakRyder eXtreme 4x4 Adjustable Coilover has been designed to provide the best in suspension kits for the serious 4X4 enthusiast driver. With so many features the TrakRyder eXtreme range of coilovers is a must for those that want the best in handling for their Hilux, BT-50, Ranger, Colorado or D-Max. The ride and handling performance can be tailored to suit your needs at the click of a button.

Smooth on road feel and eXtreme off road handling performance are the key benefits of the adjustable coilovers. Ideal in all types of driving conditions such as: extreme off road, general driving on roads, load carrying & towing. Each Pedders TrakRyder eXtreme coilover kit includes a set of 2 front adjustable coilovers and 2 rear adjustable shock absorbers, fitting kit and adjustment spanners.



Pictured in set is Pedders TrakRyder eXtreme adjustable coilover Kit along with Pedders eXtreme big front brake kit and eXtreme Upper Control Arms.



TrakRyder Springs



Key Features:

- TrakRyder coils are heavy duty units that provide the precise rate needed to carry the mass of heavy 4WD vehicle bodies and wheel assemblies.
- TrakRyder 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.
- Coils are matched to TrakRyder 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 Air Assist 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

Leaf Spring Packs

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 packs 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 TrakRyder leaf spring packs that feature inter-leaf 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.

Leaf Spring Resetting And Adding Extra Leaves

Although we have a large range of new applications there are still many cases that leaf springs require re-setting. Every Pedders store has the ability to do this for you in a relatively short period of time.

Simply contact your local Pedders Outlet for further information regarding Leaf Spring Resetting and Adding Extra Leaves.

* Some exceptions apply



Variable Load Leaf Springs

For most dual cab vehicles on our roads today, ride comfort verses 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 O.E.
- 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.



TrakRyder Kevlar Ceramic Brake Pads

TrakRyder Kevlar Ceramic Brake Pads

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

Features:

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

TrakRyder eXtreme Kevlar Ceramic Brake Pads

Pedders TrakRyder eXtreme Kevlar Ceramic 4WD and SUV brake pads offer superior stopping power that is demanded by those that tow, as well as the off-road enthusiast. Any time you add weight to a vehicle by towing or carrying additional load, you may exceed the operating conditions of your stock brake package. The solution is Pedders TrakRyder eXtreme Kevlar Ceramic brake pads, with fitment options for a wide range of 4WD and SUV vehicles available.

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.

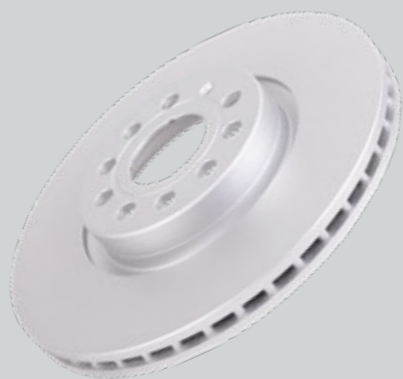


Brake Pads & Brake Rotors

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:

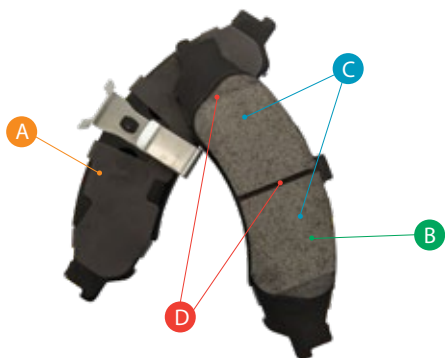
- Made from the highest grade raw materials and manufactured with the highest precision
- Curved slotted brake rotor design
- Designed for consistent brake pedal feel
- Geomet coated for better anti-corrosion protection
- High wear resistance
- Exceptional heat dissipation under extreme conditions



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.



TrakRyder eXtreme Brake Kits

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

The braking results are staggering with the inclusion of a larger 6 pot caliper design, high tech TrakRyder 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 TrakRyder eXtreme brake kit, independent Australian Engineering tests reflected an average improvement in braking distance by up to 14%.

Features:

- Stainless steel braided hoses
- 10 slot and dimpled TrakRyder geomet coated rotors 356mm diameter
- TrakRyder eXtreme Kevlar Ceramic low dust brake pads
- TrakRyder eXtreme 6 pot design caliper brackets and bolts
- 6 Pot, 2 piece aluminium forged calipers



To Suit:

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

**EXCLUSIVE
TO PEDDERS**



* Independent Australian engineering test results proved that at 100kmh the TrakRyder 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 TrakRyder 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 brake to ad Pedders TrakRyder Rear Disc Brake. Kit contents includes are pair of Pedders TrakRyder Geomet coated and slotted disc brake rotors. Plus a set of rear TrakRyder 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 PEDDERS GVM+ LOAD

O.E. Drum Brakes Laden at Pedders GVM+ Braking From 100kph



99.7 Metres Stopping Distance



Pedders Rear Disc Laden at Pedders GVM+ Braking From 100kph



62 Metres Stopping Distance

Independent Australian engineering (including electronic stability control) test results proved that at 100kmh the TrakRyder rear disc braking system upgrade stopped on average 32m sooner than original equipment. An amazing result that enhances load carrying and towing performance. Official test at Pedders GVM+ weight of 3590kgs.

TrakRyder Product Range

Steering Dampers

- Pedders TrakRyder steering dampers enhance driving feel and comfort by further reducing the jolts and impacts caused by heavy wheels and rough conditions.
- TrakRyder 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

- TrakRyder 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 TrakRyder urethane bushes also incorporate a special cross hatch dimple profile on the working surface to enhance grease retention.
- Pedders TrakRyder 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 TrakRyder greasable shackle kits have heavier side plates. Some feature anti-inversion brackets as standard to avoid the problems of overextension of raised leaf springs.
- TrakRyder shackle kits are E-coated and designed as bolt-on replacements for most leaf sprung 4WDs, including Patrol, LandCruiser and Hilux.



Alignment Products

- Pedders TrakRyder 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.



TrakRyder 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.



GVM+ 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.

BEFORE



AFTER



GVM+ Load Carrying Upgrade Solutions

GVM Upgrade Solutions from Pedders:

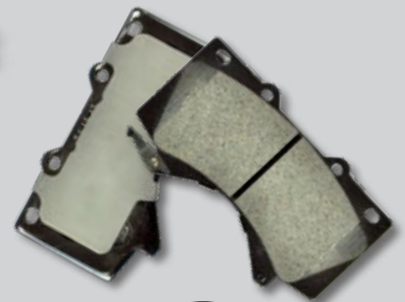
- We offer Australian certified suspension upgrade kits that comprise heavy duty Pedders Suspension components. This means that all of our GVM+ upgrade solutions kits are endorsed and certified by the (Commonwealth) Department of Infrastructure and Regional Development.
 - All components installed as 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.



TRAK RYDER
BRAKE PADS

TrakRyder 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.

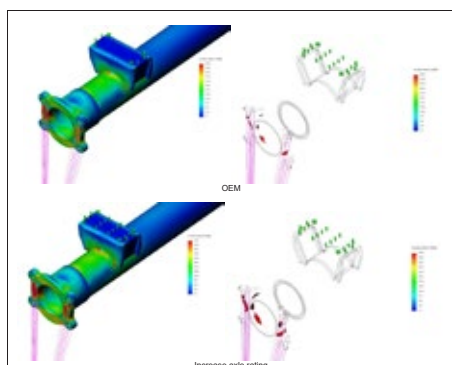
KEVLAR CERAMIC



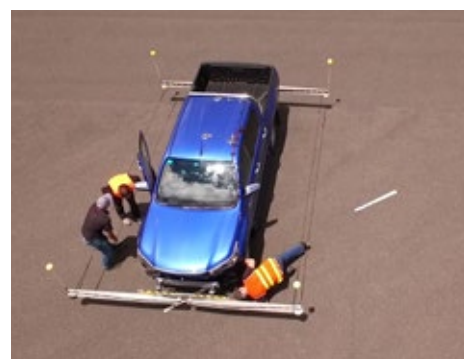
GVM+ Design, Research, Development & Engineering

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.

Our Range of GVM+ Approved Vehicles



Ford Ranger
Up to 3500Kgs*



Holden Colorado RG
Up to 3420Kgs



**Holden Colorado
RG2 & RG3**
Up to 3450Kgs



Hyundai iLoad
Up to 3490Kgs



Isuzu D-Max
Up to 3450Kgs



Isuzu MUX
Up to 3200Kgs



Jeep Gladiator
Up to 3050Kgs



**Mazda BT-50
2011-2020**
Up to 3500Kgs



**Mazda BT-50
08/2020-On**
Up to 3450Kgs



Mitsubishi MQ Triton
Up to 3100Kgs



Mitsubishi MR Triton
Up to 3200Kgs



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 2016
2WD Low Ride**
Up to 3100kgs



Toyota Landcruiser 76
Up to 3780Kgs



Toyota Landcruiser
78/79 Up to 3950Kgs
79 Series up to 4200kgs



Toyota Landcruiser
Up to 3850Kgs



**Toyota Landcruiser
Prado 150 Series**
Up to 3500Kgs



Volkswagen Amarok
Up to 3305Kgs

*New Kit Coming Soon.

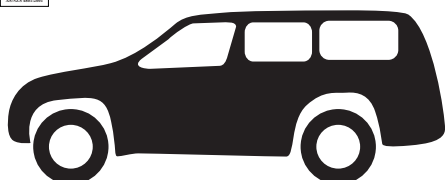
Quoted vehicle GVM figures subject to change. Please check our GVM+ website content for further information. Visit: <https://www.pedders.com.au/browse-kits/>



TrakRyder Lift Kits

Pedders TrakRyder Kits Overview

Pedders range of TrakRyder 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 TrakRyder Shocks and Heavy Duty Coil Springs. Check the website for further details.



TrakRyder Touring (up to 1/2" or 13mm lift)



TrakRyder Expedition (up to 1" or 25mm lift)



TrakRyder Outback (up to 2" or 50mm lift)



TrakRyder 4" Lift Kit (up to 4" lift)





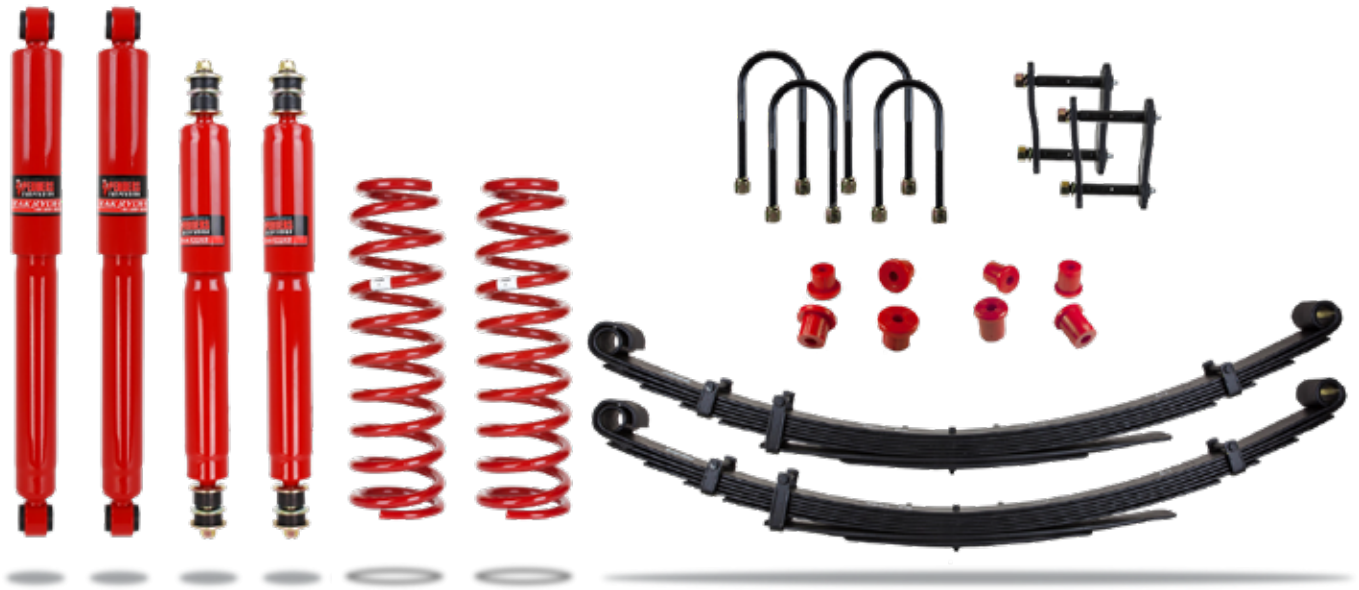
TrakRyder Touring (up to 1/2" or 13mm lift)

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 it's original specification (up to 0.5"/13mm lift) and to re-energise the suspension capabilities through the addition of new shock absorbers.

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.





TrakRyder Expedition (up to 1" or 25mm 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" (25mm). 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.





TrakRyder Outback (up to 2" or 50mm 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" (50mm) 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.





TrakRyder 4" Lift Kits

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 9500 series 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 TrakRyder 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:

- TrakRyder raised extra heavy duty coil springs
- TrakRyder 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:

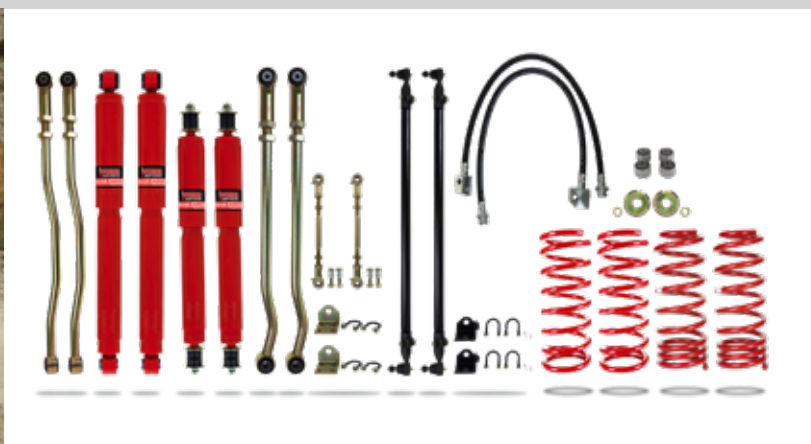
- Vehicles can be further improved with the fitment of heavy duty/longer trailing arms, drag links and heavy duty steering dampers. See in-store for further details.
- Competition Use Only. Not for Road Registered Vehicles.

To suit:

- Toyota Landcruiser 80/105 Series
- Nissan Oatrol Y60 (GQ) - Y61 (GU)

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.



TrakRyder eXtreme Upper Control Arms

Pedders range of TrakRyder 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.
- *439101 - 1 degree caster increased and reduced camber for vehicle with larger tires to reduce body contact.
- Sold as a pair.

TrakRyder Dual Diaphragm Brake Booster

After extensive Australian development and engineering, we are proud to offer our TrakRyder brake booster to the suit Landcruiser 70 series ABS models from 2012 to current plus Non-ABS models made from 2007 to 2012.

With a significant increase in braking performance by up to 30%, the TrakRyder brake booster kits are available at your local Pedders Suspension & Brakes outlet. Talk to us today about supply and installation on these brake booster kits to suit your Toyota Landcruiser 70 series.

These are a must-have addition for those vehicles that tow and carry loads regularly. Improve the braking feel and performance on your Landcruiser with TrakRyder today!



Features & Benefits:

- Increasing braking performance by up to 30%
- Designed and engineered in Australia
- Reduced pedal effort and improved stopping power
- Direct bolt on replacement
- Includes fitting instructions
- Includes engineering compliance letter and QLD LG1 design code approval number
- Full ADR35/05 compliant brake test available to Engineers or Transport Authorities for sign off.
- Ideal for load carrying and towing vehicles with GVM of up to 4380kgs (ABS) and 4310 (Non ABS)
- 2 Year 40,000km Nationwide Warranty

Compatibility:

To Suit Toyota Landcruiser 70 Series VDJ models only.

- ABS 2012 to current Part number PBB01
- Non-ABS 2007 to 2012 Part Number PBB02

Pedders Tow & Load Assessment

Know Your Weight Now With Pedders Tow & Load Assessment.

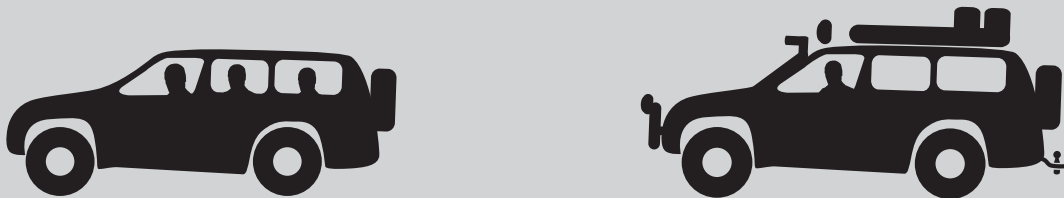
Vehicle Weight from accessories, towing and loads is a significant factor in the safety and performance of your vehicle and hence Pedders have developed a world-first service, the Pedders Tow and Load Assessment, to assist customers in understanding their vehicle weight now and in the future.

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;

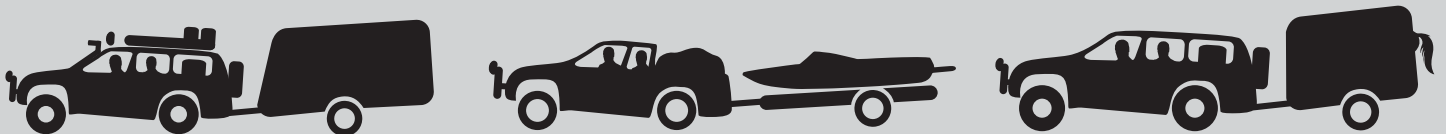


LOADS & CARGO



PEOPLE

ACCESSORIES



TOWING

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

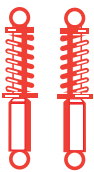
Our trained specialist technicians will systematically inspect your vehicle's entire steering and suspension system and other related undercar components from front to rear.



Brake Pad & Rotor Inspection

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

Pedders Tow & Load Assessment



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.

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-weighed” scenario



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.



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.



Weight Matrix(TM) 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.

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 INTRO

Customer: name
Vehicle: make/model or type
Weight: front/rear
Date: vehicle
Date: report
Tel: 0800 123 456

Introduction

Thank you for choosing Pedders for your Tow and Load Assessment. As part of this comprehensive assessment we have entered your front and rear vehicle weight data into our Weight Matrix program. This complete software program is designed to provide customers with an accurate and conservative estimate of their vehicle weight and more importantly the impact of this weight from loads and accessories based on their vehicle.

The Pedders Weight Matrix uses a combination of exact, researched and estimated data to provide customers with an accurate estimate of their vehicle weight, remaining capacity weight balance and towing distance changes. From information gathered by weighing the vehicle and further information regarding their weight "scenario" Pedders experts will provide a conservative estimate to ensure improved safety and performance under load. Further explanations are provided below.

Weight Types

The Pedders Weight Matrix identifies 3 critical weights:

ORIGINAL WEIGHT is the weight of your vehicle based by the original manufacturer when released from new with no load and full of fuel in correct conditions, when a manufacturer weight is released or not relevant an estimate based on your vehicle will be used.

SCENARIO WEIGHT Whether as measured in store, normal driving, towing a caravan, load carrying and so on, the vehicle scenario that this report refers to is listed at the top of each page. The scenario weight is the actual or estimated weight of the vehicle scenario.

ESTIMATED LOAD is the difference between the "Original Weight" and the "Scenario Weight". If your vehicle has a Gross Vehicle Mass (GVM) test, the estimated load must not exceed this limit.

PAYLOAD RANGE CAPACITY is the difference between the original load weight of the vehicle and the maximum load or estimated Gross Vehicle Mass (GVM) or capacity limit of the vehicle. Capacity/Payload used is generally those specified by the vehicle manufacturer for the vehicle weight, a vehicle's estimated or estimated weight may have been used based on our experience of similar vehicles. A Pedders Nationally Certified GVM Upgrade Kit provides additional Payload and when this is available for your vehicle a second set of bars will be shown below for your reference.

Weight Balance

In addition to overall weight gain, the shift in weight from original, front/rear or rearward, due to the addition of loads or accessories, affects the safety and performance of your vehicle. The Weight Balance Diagram provides you a snapshot of your vehicle's weight balance status in each weight scenario compared to original.

Estimated Additional Braking Distance

The addition of weight from loads and accessories has a significant effect on braking performance and longevity as well as safety-related stopping distances. The additional braking distance shown in our report is an approximate additional braking distance based on the addition of weight from original and assuming all other factors remain constant.

WEIGHT MATRIX SUMMARY

Customer: name
Vehicle: make/model or type
Weight: front/rear
Date: vehicle
Date: report
Tel: 0800 123 456

SCENARIO: TOWING BIG CARAVAN

Vehicle Weight

Following are your vehicle weights:

| | FRONT | REAR | TOTAL |
|----------------------|---------|---------|---------|
| ORIGINAL KERO WEIGHT | XXXXXXG | XXXXXXG | XXXXXXG |
| SCENARIO WEIGHT | XXXXXXG | XXXXXXG | XXXXXXG |
| ESTIMATED LOAD | XXXXXXG | XXXXXXG | XXXXXXG |

Accessories and Loads

The following loads and accessories were noted on the vehicle within this scenario:

| Item | Weight |
|-----------|---------|
| Caravan | XXXXXXG |
| Motorhome | XXXXXXG |
| Trailer | XXXXXXG |
| Truck | XXXXXXG |
| Tractor | XXXXXXG |
| Truck | XXXXXXG |
| Tractor | XXXXXXG |
| Truck | XXXXXXG |
| Tractor | XXXXXXG |
| Truck | XXXXXXG |
| Tractor | XXXXXXG |

Vehicle Payload Range

The following table and accessories were noted on the vehicle within this scenario:

| Vehicle | Scenario Weight | Weight Balance |
|-------------------------|-----------------|----------------|
| ORIGINAL SPECIFICATIONS | XXXXXXG | XXXXXXG |
| SCENARIO WEIGHT | XXXXXXG | XXXXXXG |
| ESTIMATED LOAD | XXXXXXG | XXXXXXG |

WITH PEDDERS GVM UPGRADE

| Vehicle | Scenario Weight | Weight Balance |
|-------------------------|-----------------|----------------|
| ORIGINAL SPECIFICATIONS | XXXXXXG | XXXXXXG |
| SCENARIO WEIGHT | XXXXXXG | XXXXXXG |
| ESTIMATED LOAD | XXXXXXG | XXXXXXG |

Estimated Additional Braking Distance

The additional braking distance shown in our report is an approximate additional braking distance based on the addition of weight from original and assuming all other factors remain constant.

TOW & LOAD REPORT

Customer: name
Vehicle: make/model or type
Weight: front/rear
Date: vehicle
Date: report
Tel: 0800 123 456

SCENARIO: TOWING BIG CARAVAN

Thank you for choosing Pedders for your Tow and Load Assessment. The report is designed to provide you with a snapshot of information and recommendations from the last critical weight within this assessment. Please consider this report in conjunction with the information contained within this report.

1. Pedders Brake, Steering and Suspension Check

The priority within the Pedders Tow and Load Assessment is to assess the general condition of your vehicle. A comprehensive Brake, Steering and Suspension Check has been conducted and reported separately. These components are critical to the safety and performance of your vehicle. Regularly check the wear levels of additional weight from loads and accessories. It is essential that any repair or replacement listed within this check be undertaken to maintain the effectiveness of any further weight-related upgrades to brakes, steering and suspension.

2. Your Vehicle Weight Matrix

Your vehicle has been weighed and assessed at its current weight as well as different driving scenarios. These can be matched to original specifications to provide a snapshot of your vehicle's weight issues. The critical pieces of information from the Weight Matrix Report comparing original weight and capacity to the scenarios listed above are:

OVERALL TOTAL EXPECTED LOAD : XXXXXkgps

OVERALL REMAINING CAPACITY : (if under) XXXXXkgps

(if over) XXXXXkgps

OVERALL EXPECTED WEIGHT BALANCE SHIFT : XXX% REARWARD (FRONTWARD)

ESTIMATED ADDITIONAL STOPPING DISTANCE : XXXmetres

TOW & LOAD CONCLUSION

Customer: name
Vehicle: make/model or type
Weight: front/rear
Date: vehicle
Date: report
Tel: 0800 123 456

The Effects of Your Weight on Your Vehicle

The following are the critical effects of weight on your vehicle:

- Chassis Dynamics:** The Pitch, Roll and Yaw (the front to back, side to side and rotational motion) of the vehicle body are the vehicle's weight and the location of these movements to drive load. Increased weight changes the speed and magnitude of these movements and creates a greater discomfort between input and vehicle response.
- Suspension Travel:** The available upward (compression) or downward (decompression) range of movement within the vehicle's suspension system. Increased weight typically results in wear caused by heavy loads decreases the available compression travel for normal suspension operation thus increasing the frequency and severity of contact with the lower spring plate. This causes harsh ride characteristics, ineffective suspension control and increased risk of premature wear and tear to driving and suspension components.
- Braking Efficiency and Distance:** Increased Total Weight creates a magnification of energy and force onto the vehicle's braking system which in turn generates increased heat and slows, increasing total Weight and/or increased vehicle loading has a significant impact on brake performance, slowing stopping and increasing braking distance.
- Type Contact and Steering Effectiveness:** Towing and other increased rear and loads cause longitudinal weight transfer which reduces weight over the front axle. The result of this is reduced front tyre contact and grip with the road and reducing the responsiveness of steering and braking to driver inputs and more specifically slowing the front of the vehicle to steering or braking.
- Wheel Alignment:** This is the correct angle of a vehicle's tyre to maintain tyre contact under normal driving conditions. Increased weight changes the angle of the tyre contact with the road and increases tyre wear. Wheel alignment and tyre contact affect the degree of vehicle performance, most importantly safety through directional steering responsiveness and braking efficiency.
- Legal Compliance:** Every vehicle must comply with the weight limits specified by the original manufacturer. Failure to adhere to this limits the vehicle's safety.

Pedders Tow and Load Assessment Solution

- A vehicle's weight and performance of your tow and load carrying vehicle that forms recommended by replacement within Pedders Brake, Steering and Suspension Check be undertaken BEFORE any upgrade.
- Every Load and Every Situation is Different and that is why Pedders can provide you with a customised load carrying and towing solution that can provide the following benefits:
 - Improved Drivability and Chassis Dynamics, especially under load.
 - Reduce overall increase side height and suspension travel under load.
 - Improve Braking Performance, Longevity and Stopping Distance under load.
 - Improve Tyre Contact and Steering Effectiveness under load.
 - Reduce correct wheel alignment and reduce tyre wear under load.
- Pedders greater payload for legal compliance (GVM) vehicles and

Pedders capacity is matching it's wide range of brake, steering and suspension products, plus a range of auxiliary load and towing solutions to achieve the best outcome no matter what the problem. We call it "Towing No D.O.C."

Pedders is Australia's Number 1 chain of franchised under-car specialist stores. We offer a comprehensive range of products and services for all suspension, braking, towing, load carrying and steering needs to suit passenger cars, four-wheel drives, light commercials and high performance vehicles.

Since 1950, Pedders has been designing, manufacturing, selling, fitting and servicing its world class products through its own network of warehousing, service and authorised dealer centres throughout the world.

Every Pedders store offers the most comprehensive specialist under-car diagnosis and repairs with unmatched courteous advice and service. Pedders' range of high quality parts is backed by the commitment of our service centres and regional authorised dealers, who are only too happy to offer advice on how you can improve your vehicle's ride, braking, towing, handling and steering.



**OFFICIAL
PARTNERS**



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.

www.pedders.com.au