



**PEDDERS**

# **TRAK RYDER**

**4WD SUSPENSION**

***ON Road comfort,  
OFF Road control***



***Straight advice, specialists you understand and... No Bull***



**PEDDERS**

# **TRAKRYDER**

**4WD SUSPENSION**

Since 1950 Pedders has been designing and manufacturing suspension products specifically for Australian conditions to ensure your vehicle is always performing at its best.

That's why at Pedders Suspension we're proud of our range of totally integrated 4WD suspension systems – TrakRyder.

TrakRyder is the product of all our years of experience and delivers a new level of ride comfort and handling for 4WD vehicles. The TrakRyder system brings an end to the age-old compromise of owning a four-wheel drive and not being able to enjoy the comfort and handling of a sedan. With TrakRyder, 4WD owners enjoy the best of both worlds. All the benefits of owning a 4WD– off road ability, ease of towing, high driving position, large cargo capacity – plus the comfort and handling you would expect from a family sedan.

Pedders' TrakRyder suspension range includes thousands of quality components that have all been designed to improve the ride and handling characteristics of specific vehicles. The range includes coil and leaf springs, torsion bars, shock absorbers, suspension bushes, alignment kits, shackles and airbags.

The TrakRyder suspension range is not based on product alone. Pedders' expert technicians apply their years of training and experience to tailor a TrakRyder suspension system that is right for your vehicle and the way you use it.

Once the matched set of components is selected for the right balance of comfort, driveability and handling, wheel alignment angles are fine-tuned for maximum traction, safety and longer tyre life.



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# THE TRAKRYDER RANGE



TrakRyder 9100 Series  
Shock Absorber



TrakRyder 9500 Series  
Foam Cell Shock Absorber

## Shock Absorbers

TrakRyder shock absorbers are designed and manufactured to provide the precise control needed for the majority of suspension set-ups for road and track conditions. Pedders 9100 Series Gas charged TrakRyder shock absorbers are Pedders' rugged multi purpose design. With a large 35mm bore, heavy-duty twin-tube construction and heavy duty double welded mountings, TrakRyder gas shocks keep heavy 4WD suspension systems under control and maintain a comfortable ride and precise handling. For harsh and unrelenting conditions, Foam Cell TrakRyder shock absorbers are the ideal choice. The foam cell technology virtually eliminates shock fade (the mixture of oil and air inside a shock that dramatically reduces their performance). 9500 Series Foam Cell TrakRyder shocks have a huge 41mm bore that further minimises fade and also allows more precise valve settings for unrivalled performance without compromising comfort. When integrated with TrakRyder springs, Pedders TrakRyder shock absorbers form an integrated tuned package for a great driving experience in the widest range of driving conditions.

## Coil Springs

Pedders' TrakRyder coils are the foundations of an enhanced 4WD suspension system. TrakRyder coils are heavy duty units that provide the precise rate needed to control the movement of heavy 4WD vehicle bodies and wheel assemblies. TrakRyder coils are made at Pedders' hi-tech spring manufacturing facility in Australia from the highest quality BHP steel. The coils are 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 in 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. The 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.



### **Torsion Bars**

All torsion bars may look much the same, but because they perform exactly the same function as coil and leaf springs, they must also be rated to match the total suspension system and the weight of the vehicle. Like Pedders' coil springs, TrakRyder torsion bars are made from the highest quality alloy spring steel and are manufactured according to a strict production procedure. They are fully heat treated for high durability, hardness and consistency. TrakRyder torsion bars are made to a larger diameter than most original bars, providing a firmer rate for greater control and improved load carrying ability. Pedders' TrakRyder torsion bars are heavy-duty replacement units that provide a permanent upgrade for the front suspension. Whether your vehicle is in standard form or has been fitted with a bull bar, winch, dual battery system or any other heavy accessory, TrakRyder torsion bars provide extra control, stability and traction for enhanced performance.

### **Leaf Springs**

For heavy load carrying and towing, leaf springs remain the best performing suspension design, but can become harsh, noisier and less effective in damping bumps and vibrations. They are also prone to sagging and should be re-set or replaced when a change in ride height or ride quality is observed. 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. As an alternative to total replacement of leaf spring packs, Pedders offers a leaf spring resetting service that involves inserting a new higher rated leaf into the spring pack which is then re-cambered to the desired ride height.





## ***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 a large 30mm bore on the 13200 Series or extra large 35mm bore on the 13500 series. This provides optimum performance via the Gas Bag Foam Cell technology that enables the steering damper to operate even when the vehicle is on a severe incline. TrakRyder steering dampers are available to replace original equipment on most 4WD models.



## ***Urethane Bushes***

Suspension bushes play a critical role in safety, ride comfort and handling. Bushes are the components that locate and align the other suspension components and have a dramatic effect on the feel and response of the vehicle to the driver. 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' urethane bushes also incorporate a special cross hatch dimple profile on the working surface to enhance grease retention.



## ***Shackle Kits***

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



## ***Alignment Products***

After fitting the best products for comfort and performance, the final touch is the fine-tuning of wheel-alignment angles. The suspension on a range of popular 4WDs only has provision to adjust the "toe-in" wheel alignment angle. However, Pedders' TrakRyder products include components that enable the adjustment of camber and caster to optimise traction and handling and extend the life of expensive 4WD tyres.

# **PEDDERS SERVICE:** **THE FINISHING TOUCH**

Since 1950 Pedders Suspension has been at the leading edge of advanced suspension technology, designing products exclusively for Australian conditions, Pedders has the nationwide service to back its TrakRyder products and meet the total suspension needs of most Australian 4WD users.

The comprehensive TrakRyder 4WD range is fully supported by our technical expertise and high quality, well equipped service centres.

Our expert technicians in every Pedders store Australia-wide are trained to give you the right advice on which products are best for your vehicle and the way you use it.

At Pedders we are able to tailor individual suspension modifications to your particular needs, whether they are improved traction and off road performance, extra load carrying ability, or better ride comfort both on and off the road.

## **Warranty**

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

#Some exceptions apply



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