

# PEDDERS

## SHOCK ABSORBERS



*Get the ride that's right for you*

[www.pedders.com.au](http://www.pedders.com.au)



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



# The function and operation of shock absorbers are widely misunderstood. Here we present the bare facts on shocks and your many options in shock absorbers.

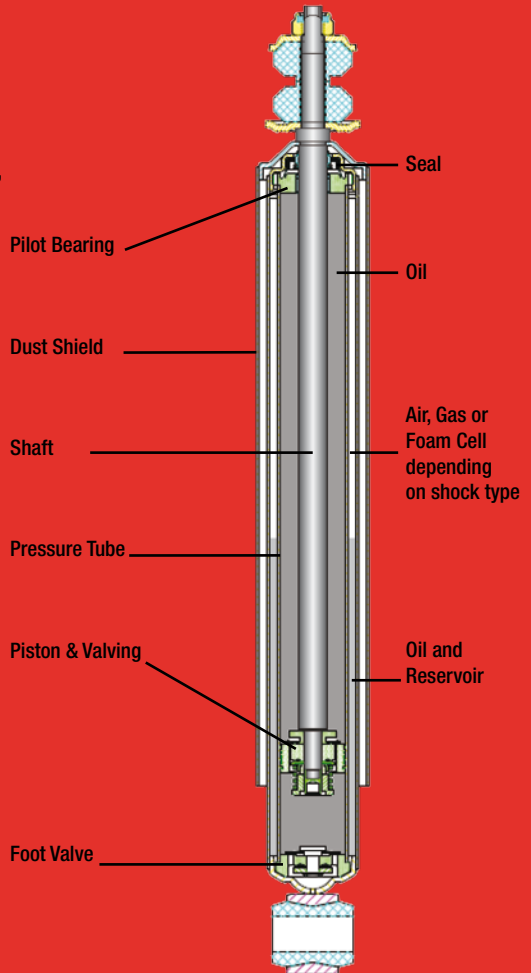
The first lesson to be learnt about shock absorbers is that their name is deceiving, for shock absorbers do not absorb shocks - or at least that is not their primary role. Shock absorbers are devices that resist movement and their main function is to control the movement of the car's springs and also reduce body roll.

## SHOCKS IN ACTION

When a tyre hits a bump in the road surface, the wheel and suspension moves upwards, causing the spring to compress. The spring absorbs the energy of the impact and then releases this energy by expanding.

This movement of the suspension is necessary to allow the tyre to pass over the bump without causing the body of the car to rise the same distance. However, further expansion and compression of the spring after the impact is unwanted and this is what a shock absorber is designed to prevent.

Shock absorbers, like springs, are generally mounted between the axle and the car body. When a spring expands and compresses, so does the shock absorber. The shock resists this movement by controlling the flow of oil inside the shock through a number of control valves.



## ***HOW A SHOCK ABSORBER WORKS***

With each extension and compression of the shock, known as a 'stroke', a piston moves up and down inside the shock and oil flows between the inner and outer chambers of the shock, known respectively as the 'pressure cylinder' and 'reservoir'. The oil must pass through tiny valves which open and shut depending on the direction of the flow. The valves are precisely engineered to provide a measured resistance to the oil flow. The spring-loaded valve only opens to allow oil to pass through when enough force is supplied. This force is generated by the speed at which the shock is extending and contracting. As the stroking speed of the shock increases, more stages of the valving come into play to control the flow of the oil.

Thus the shock is sensitive to the amount and speed of suspension movement and is designed to supply precisely the amount of resistance required at any time to ensure that the suspension's spring remains in control, performing its intended role.

## ***PEDDERS SHOCK ABSORBERS***

As the industry's leading Shock Absorber, Steering and Suspension Specialist, Pedders prides itself on being able to offer a complete range of quality shock absorbers through its store and dealer network throughout Australia and the rest of the world.

Pedders provides owners of popular passenger cars a comprehensive choice of shock absorber models from our range. Our brands include; Pedders 3000 Series ShockAbsorbers, Pedders 8000 Series ShockAbsorbers, SportsRyder and SportsRyder eXtreme XA Adjustable Coilovers. For motorists who drive european models - Bilstein ShockAbsorbers are also available. You can count on Pedders to find the right shock to suit your driving needs.

For owners of popular four wheel drive vehicles a choice of two shock absorbers are available; 4WD Gas SportsRyder and 4WD TrakRyder Foam Cell.

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## SHOCK ABSORBERS

Pedders Shock Absorbers are an ideal alternative for the budget-conscious motorist who is simply looking to return his/her vehicle back to its original ride and handling qualities. However, the additional features give similar performance to premium quality gas shock absorbers at a more affordable price. These features include; precisely tuned valving, heavy duty construction and accurate nitrogen gas pressurisation. These key features equate to a superior shock absorber with smoother and quieter ride characteristics.

Pedders 3000 & 8000 Series ShockAbsorbers



# TRAKRYDER

## 4WD SUSPENSION

For those owners of Four-Wheel Drive vehicles there is simply no better than TrakRyder. Two shock absorbers are available within the TrakRyder Range, Pedders 4WD Gas SportsRyder and Pedders 4WD Foam Cell. With TrakRyder shock absorbers and especially when incorporated with the other components of the TrakRyder range, 4WD owners can enjoy the best of both worlds. The benefits of owning a 4WD plus the comfort and handling one would expect from a family sedan.

Gas Pressurised TRAKRYDER, 9100/140000 Series Shock Absorbers



TRAKRYDER, 9500/150000 Series Foam Cell Shock Absorbers

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 or 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.

TRAKRYDER Steering Dampers

13500 Series



13200 Series

For motorists who are after that extra level of performance and sports handling Pedders Suspension has a product range called SportsRyder. The gas-charged GSR SportsRyder shock range uses tailored nitrogen gas pressure to enable precise control without compromising on ride comfort. Gas SportsRyder sealed struts and cartridges are high performance, heavy duty replacement units which deliver a new standard of comfort and road holding ability for today's hi-tech, lighter vehicles. At the pinnacle of the SportsRyder range comes the eXtreme XA, a world class, height adjustable coil over unit featuring 30 position adjustable bump and rebound damping setting at the click of a button.

SPORTSRYDER  
Shock Absorbers



SPORTSRYDER  
eXtreme XA  
Adjustable Coil Over

### Supercar Adjustable Coilover

Pedders SportsRyder Supercar adjustable coilover kit offers eXtreme ride control for the hardcore enthusiast. The sophisticated driver will be able to tune their suspension like a pro. The enthusiast will enjoy the incomparable benefits of the massive hydraulic 52mm monotube body. The larger piston and reservoir provides smoother ride with more control.



Available for late model Ford and Holden Only!



SPORTSRYDER SUPERCAR  
Adjustable Coil Over



Pedders Suspension also supplies a range of selected Bilstein shock absorbers to suit most European makes and models. Bilstein improves the comfort and handling performance of your European car, light commercial or SUV. That's why many of the world's finest automotive manufacturers choose Bilstein as their original equipment.

Bilstein  
Shock  
Absorbers



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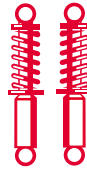
## *TECH CHECK & REPORT*

**\$28** *is a small price to pay  
for Peace of Mind*

### THE TECH CHECK & REPORT INCLUDES:



**Under Car  
Inspection**



**Shock Absorber  
Test**



**Visual Brake  
Pad & Rotor  
Inspection**



**No Obligation  
Analysis & Written  
Report**

