



PEDDERS

SUSPENSION BUSHES



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PEDDERS
SUSPENSION

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

Suspension bushes play a critical role in car safety, ride comfort and handling. They are used to position and align suspension and steering components such as shock absorbers, sway bars, torsion bars and control arms.

All but the hardest bushes also help absorb road shocks and enhance comfort, while some are designed specifically to reduce noise, vibration and harshness or NVH.

As such, bushes must always be maintained in optimum condition. Worn bushes can cause rapid tyre wear, loose or pulling steering and can affect braking and safe handling.

To perform its intended role, a bush must be able to compress, but to a precise degree, and then return to its original position. If a bush is too hard, too soft, or damaged in any way, the ride, handling and safety of a vehicle is compromised.

Bushes are made from a number of different types of materials, including rubber, urethane and synthetic rubber compound. Each type is chosen for a particular application based on a number of characteristics, including its general performance, feel and response characteristics, noise and durability.

By upgrading original suspension bushes to superior aftermarket units designed for specific purposes, a vehicle's general handling or its ability to perform in certain conditions can be dramatically improved.

Pedders has spent many years developing a comprehensive range of bushes for all applications, designed to allow flexibility of movement of the entire suspension, while maintaining correct mounting and alignment of individual parts.

Urethane

Pedders Urethane bushes have a high capacity to bear tension, compression and friction and retain their hardness, even under the most adverse conditions.

This makes them well suited to the demands of heavy load carrying, firm suspension control or where regular exposure to corrosive materials is expected.

Another major advantage of Pedders' urethane bushes is they can be used to solve wheel alignment problems. This is particularly relevant for most front-wheel drive vehicles, as they do not have provision for wheel alignment correction.

With these types of cars, as the suspension wears with age, vehicles can suffer from unnecessary tyre wear and unsafe handling.

When this happens, usually a result of original rubber bushes being too soft or over compliant for NVH, Pedders' preset urethane bushes, with offset caster, make the ideal replacement.

In driving terms, this means better road holding, increased tyre life, more responsive steering and a longer service life of suspension components with minimal affect on NVH.



Other features of Pedders urethane bushes are:

- Hardened crush tubes for longer life and to eliminate slippage or creep.
- A double helix, used against the outer diameter of the crush tube. The double helix maintains axial location while allowing full rotation of the pivot. It also acts as a grease reservoir that further increases product life.
- Knurling. For extra protection against adverse wear in heavily laden bushings.
- Bullet Grooves. These provide the correct pre-load while at the same time accommodating a wide variance in sizes and maintaining free pivoting of the bushings.

Rubber Bushes

Despite major advances in synthetic bush materials, the natural performance characteristics of rubber bushes make them the most suitable material choice for a wide variety of applications.

Rubber bushes are generally more compliant than urethane bushes and are selected for applications that require a more flexible response. Standard rubber is most effective in reducing NVH. Pedders range of aftermarket engineered rubber bushes provide excellent control and response with smooth quiet operation. Rubber is less suitable for applications that are exposed to high levels of corrosive chemicals and materials such as oils, waxes, solvents and pollution.

