

EQUIPPED

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# DOES YOUR VEHICLE HAVE ANY OF THE FOLLOWING UNDESIRABLE CHARACTERISTICS?











STEERING WHEEL WOBBLE?

TJM XGS SERIES 4000 SUSPENSION KIT

Whether you install only shock absorbers, springs or a complete TJM XGS SERIES 4000 suspension kit you are sure to notice an immediate improvement in the vehicle's ride, handling, towing &

load carrying qualities. That's why

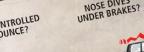
TJM XGS Series 4000 suspension is the wise choice for the four

wheel driver or light commercial

performance on and off road.

vehicle user who values optimum

UNCONTROLLED BOUNCE?









UNSTABLE WHEN

ROUGH, HARSH RIDE?

TAIL DRAG UNDER LOAD?

TOWING?

LIMITED WHEEL TRAVEL OFF ROAD?

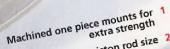






RIGINAL EQUIPMENT





Up to 40% thicker piston rod size 2 Up to 40% larger tube body 3

Increased oil volume for longer life 4

Up to 50% increase in tube thickness

- Stronger welding on mounts doubling the strength
- Higher density rubber for improved longevity

LONGER TRAVEL





SINGLE PIECE MOUNTS









XGS SERIES 400

### 1. TJM XGS Greasable shackles

TJM XGS greasable shackles make the relatively messy and time consuming task of bush lubrication incredibly easy. A greased shackle pin greatly reduces friction and operating temperatures and prolongs the life of the bush. However, grease will dissipate over time and is therefore necessary to regrease. Standard shackles make this an arduous task but TJM XGS greasable shackles and pins allow the greasing of bushes without the need to remove the springs.

Available for most leaf spring vehicles, TJM XGS greasable shackles are heavy duty replacement components made to exacting tolerances and nickel plated for long service life.

### 2. TJM XGS U-bolts

When springs are installed on a vehicle, quite often the existing u-bolts are re-used, which could create a potentially dangerous situation. If the original u-bolt is re-used the pitch of the thread may be stretched and the u-bolt nut may loosen allowing the spring pack to become loose

It is advisable to replace U-bolts when new springs are installed. TJM XGS u-bolts are matched in length to the TJM XGS leaf spring range to accommodate the increased stack height of the TJM XGS spring.

### 3. TJM XGS Panhard rods

The purpose of suspension is to allow the wheels to move vertically with respect to the body, when raised height suspension is applied to some coilspring 4WD vehicles, the fixed length of the original front or rear panhard rod can cause the axle to shift, allowing it to move forward and backwards, or from side to side.

TJM adjustable panhard rods are designed to eliminate this problem by enabling you to set the rod to the most appropriate position for whatever suspension type or lift height your 4WD has.

### 4. TJM XGS Castor correction kits & bushes

Raising the suspension height on certain vehicles can result in a reduced amount of positive castor. Reducing the castor angle is when the top of the steering axis pivot is tilted towards the front of the vehicle or the lower steering axis pivot is tilted towards the rear of the vehicle.

Undesirable driving characteristics such as vague steering, understeer and straight line instability are common side effects of low castor. To permanently correct this TJM have developed a range of castor correction kits and bushes to suit many vehicles.

## 5. TJM XGS Sway bar link pins

A sway bar in general terms is a torsion bar mounted laterally on a vehicle's suspension and chassis and is designed to reduce body roll. The sway bar transfers movement from one side of the suspension to the other. This is done through the connection of a torsion bar to each side of an axle by sway bar links.

Extending the sway bar links is a common practice as this corrects the sway bar angle in raised vehicles. TJM have an extensive range of extended sway bar links to suit most popular model four wheel drives.

## 6. TJM XGS Polyurethane bushes

The TJM XGS polyurethane suspension bushes offer longer life when compared to rubber bushes in their specific applications. They ensure positive location of suspension components leading to direct responsive steering, low maintenance and improved stability. TJM offers a wide range of bush kits including leaf spring, panhard rod and control arm bushes.



### 7. TJM XGS torsion bars

TJM XGS torsion bars have been designed to carefully match the complete XGS suspension range.

Torsion bars are designed to be used on the front of many two and four wheel drive vehicles. While providing excellent ride quality, some vehicles fitted with torsion bars may suffer in their ability to carry loads and nose-dive under braking which results in loss of ground clearance. TJM XGS torsion bars are available as an upgrade to improve a vehicle's load carrying ability and stability, both on and off road. TJM XGS torsion bars are often larger in diameter to the original unit, increasing spring rate which ensures ride height is maintained and vehicle handling both on and off the road is improved. To significantly improve your vehicle's suspension performance TJM XGS torsion bars work best when TJM coil or leaf springs are fitted to the rear of your vehicle.



- Premium grade spring steel with an unobtrusive powder coat to avoid unnecessary attention and to protect against corrosion.
- Hardened and tempered to exact specifications for improved ride and performance.
- Drop forged ends are precision drawn for excellent strength and integrity.
- › Pressure rolled splines increases spline durability and allows precise fitment.
- Preset and hardened which increases life cycle and prevents sagging.

Air adjustability is the difference

Stiff steel factory suspensions must compromise between ride comfort and load hauling capacity. Smooth ride suspensions can carry heavy loads; heavy springs ride rough, especially when the vehicle is unloaded.

Polyair adjustable air springs solve these problems by allowing you to tune your suspension under all load and road conditions. Just add air when towing or hauling and then remove air for a softer ride when unloaded.

# **Coil spring fitment**

With coil springs, the Polyair unit is fitted into the coils. Hoses are attached with one end connected to each air spring and the other attached to a valve mounted on the vehicle to allow air pressure to be altered. A pressure increase of between 5 to 25 psi will give a load increase between 10 to 60%.

# Leaf spring fitment

For leaf spring suspension, the air springs are supplied with their own auxiliary coil spring. One end of the air lift coil is attached to the leaf spring by the brackets provided, the other is bolted to the vehicle's frame. Hoses are then attached in the same way as on coil spring vehicles. Kits come complete with all necessary hardware, air lines, and valves. A pressure increase of between 5 to 25 psi will give a load increase between 10 to 60%.

### **Bellows fitment**

For heavy duty applications on leaf spring suspension, the bellow air system is supplied with its own vehicle specific brackets and unique flex member bag designed to carry up to the GVM of the vehicle, while maintaining normal ride characteristics when unladen. A pressure increase of between 5 to 100 psi will give a load increase between 10 to 60%. All kits come complete with all necessary hardware and allow for individual adjustments.

