

NITRO GAS SHOCK ABSORBERS

Gas Pressurised shock absorber boosts performance and adapts to a wide range of driving styles

NITROGEN GAS PRESSURISED - Low pressure nitrogen gas dramatically reduces the likelihood of oil aeration and shock fade.

35mm TEFLON BANDED PISTON - Precision shim-stack piston specifically valved by Ironman suspension engineers, banded with teflon for smooth long life operation.

54mm TWIN TUBE BODY - Increased oil volume for improved cooling and endurance, Twin tube construction protects internal components from rock damage.

16mm – 18mm HARD CHROME PISTON ROD - Hardened and polished, volumetrically balanced to piston size.

FLEXIBLE RUBBER BUSHES - Offers quieter operation and reduces damaging side loads from shock absorber.

TRIPLE-LIP HIGH PRESSURE NOK SEAL - Maximum gas and oil retention ability to withstand high displacement offroad use.

SUPPLEMENTARY WELDED MOUNTS - Fusion welded and supplementary welded for maximum strength and reliability.

SINGLE PIECE BILLET EYE RINGS AND STEMS - Ultra robust design prevents breakage or bending of mounts.

VEHICLE SPECIFIC VALVING - Every part number is specially valved for each vehicle application, this ensures the best possible ride and handling as intended by Ironman suspension engineers.

LONG TRAVEL - Suitable for standard and raised height vehicles, additional length increases wheel articulation.

IMPACT RESISTANT STONE SHIELD - Steel or Polyethylene dust shield protects piston rod from impacts and road debris.

FOAM CELL SHOCK ABSORBERS

Premium shock absorber for superior endurance in all conditions

FOAM CELL TECHNOLOGY - Micro-Cellular closed cell foam insert maximises cooling efficiency by occupying less internal space than gas within a pressurised shock absorber. Greater oil capacity and more surface area maintains lower operating temperatures.

40-45mm TEFLON BANDED PISTON - Precision shim-stack piston specifically valved by Ironman suspension engineers, banded with teflon for smooth long life operation.

60-72mm TWIN TUBE BODY - 50%-100% more oil volume than a gas shock absorber for superior cooling and endurance. Twin tube construction protects internal components from rock damage.

18-20mm HARD CHROME PISTON ROD - Hardened and polished, volumetrically balanced to piston size.

FLEXIBLE RUBBER BUSHES - Offers quieter operation and reduces damaging side loads from shock absorber.

TRIPLE-LIP HIGH PRESSURE NOK SEAL - Maximum oil retention ability to withstand high displacement offroad use.

TORSION BARS

Higher spring rate to support extra weight from additional vehicle accessories

UP-SET FORGED ENDS - Stronger than machining alone, forging manipulates steel grain for superior strength and durability.

PREMIUM MICRO-ALLOY STEEL - Exceeds OEM steel grade for ultra long life and less sag.

INCREASED BAR DIAMETER - Higher spring rate better supports added accessories and balances front and rear suspension performance.

X-RAY EXAMINED - Each and every Ironman Torsion Bar is X-Ray tested to eliminate risk of breakage due to material flaw.

DIRECTIONAL PRE-SETTING - Torsion Bars are rotationally pre-set in their direction of installation to reduce spring settling. Each bar is marked for left or right fitment.

POLYURETHANE BUSHES

Provide precise spring location and enables lubrication to increase suspension flex and - Comfort

INJECTION MOULDED POLYURETHANE - High density injection moulded polyurethane material ensures precise location and a durable bearing surface for your leaf springs, making them very durable in hot temperatures whilst providing a soft - Comfortable vehicle ride.

GREASABLE - Polyurethane bushes are greasable to aid in longer life and ensure smooth ride and quiet operation.

SPIRAL BORE AND FLANGES - To distribute lubricating grease evenly throughout the bushing surface when combined with greasable shackles and pins.

SPLINES - Allows the bush to conform to irregularities and grip to the eye surface.

GREASABLE SHACKLES AND PINS

Enables easy re-greasing of polyurethane spring bushes

QUAD-OUTLET GREASABLE - Greasable shackles provide an easy method of re-lubricating polyurethane bushes. Chamfered Quad-Outlet ports distribute grease liberally along the bush surface.

SERVICEABLE - All Ironman shackles and pins feature a serviceable bolt together construction.

ANTI-INVERSION SHACKLE - On selected models, a third pin is positioned on the shackle to protect the spring in the case of inversion.

CASTER CORRECTION PLATES

Used to correct caster angle after raising suspension beyond 100mm (4")

PRE-CONFIGURED CASTER CORRECTION - Fixed 5 degree offset models suit 100mm (4") to 150mm (6") lifted suspension.

POLYURETHANE COIL SPRINGS SPACERS / TRIM PACKERS

Available individually to adjust "side to side" or "front to back" vehicle lean due to uneven load placement

INJECTION MOULDED POLYURETHANE - High density injection moulded polyurethane material ensures precise location and a durable seat with the spring.

PRE-CONFIGURED THICKNESSES - Varied thicknesses allow correct selection according to the amount of lean. Provides 1:1 ratio suspension lift on solid axle vehicles.

SELF LOCATING DESIGN - Raised profile locating flanges prevent packer from becoming dislodged or falling out.

STRUT TRIM PACKERS

For use only with Ironman 4x4 struts, available individually to adjust "side to side" or "front to back" vehicle lean due to uneven load placement.

PRECISE RIDE HEIGHT TUNING - Basic steel collar design fits over Ironman 4x4 struts to adjust spring seat height.

PRE-CONFIGURED THICKNESSES - Varied thicknesses allow correct selection according to the amount of adjustment required. Usually provides 1:2 ratio suspension lift on independent suspension vehicles.

EXTENDED BRAKE HOSES

Longer brake hose used with suspension lifts over 100mm (4").

DOT SAE J1401 STANDARDS APPROVED CONSTRUCTION - OEM style reinforced rubber hose for safety.

EXTENDED LENGTH - Extended length allows for greater suspension travel.

ADJUSTABLE TRAILING ARMS

Used to correct rear axle tilt and location after raising suspension.

COMPETITION SPEC - 32mm solid rod used throughout.

FINE THREAD ON-VEHICLE ADJUSTMENT - M32 x 2mm thread ensures precision adjustment for greater accuracy.

OEM STYLE RUBBER BUSHES - Maximum flex and durability. Replaceable OEM compatible bushes.

CASTER WEDGES

Adjusts the caster angle within solid axle vehicles, or changes pinion angle to remove unwanted driveline vibration.

SUITS - 60-70mm wide leaf springs. Breakaway side section can be removed for narrower springs.

AVAILABLE IN - 1, 2, 3 and 4 degree increments.

SUPPLEMENTARY WELDED MOUNTS - Fusion welded then supplementary welded for higher strength and reliability.

360° WELDED MOUNTS - Fusion welded then fully welded around mounting for maximum strength and reliability.

SINGLE PIECE BILLET EYE RINGS AND STEMS - Ultra robust design prevents breakage or bending of mounts.

VEHICLE SPECIFIC VALVING - Every part number is specially valved for each vehicle application, this ensures the best possible ride and handling as intended by Ironman suspension engineers.

LONG TRAVEL - Suitable for standard and raised height vehicles, additional length increases wheel articulation.

IMPACT RESISTANT STONE SHIELD - Steel or Polyethylene dust shield protects piston rod from impacts and road debris.

COIL SPRINGS

Available in a wide range of load ratings to maintain optimum ride height

COLD COILED - CNC cold coiling ensures perfect consistency and accuracy, less heat during manufacture maintains material properties resulting in longer life.

BAR PEELED - Bar peeling is the process of forming the material to an exact size before coiling, this ensures the diameter remains constant and free of flaws along its entire length.

SHOT PEENED - Manipulates material surface tension to reduce stress, greatly enhances spring life.

TRIPLE SCRAGGED - Each coil is fully compressed to a solid state 3 times to minimise coil settling.

PROGRESSIVE AND LINEAR RATE - Used in accordance to original vehicle manufacturers preference, progressive springs increase rate as the spring compresses, linear springs maintain a consistent rate throughout its range.

POWDERCOATED - All springs are electro-static powdercoated for a durable finish.

LEAF SPRINGS

Available in a wide range of load ratings to maintain optimum ride height

INTER LEAF LINERS - Used in some applications to lower friction between leaves reducing noise and improving - Comfort.

LINED BOLT CLAMPS - All Ironman springs feature bolted guide clamps for greater flex, the addition of anti-friction liners ensures noise free smooth operation.

SHOT PEENED - Manipulates tension side of material to reduce stress, greatly enhances spring life.

DIAMOND CUT LEAVES - Distributes load at the leaf tip and reduces interleaf friction.

MILITARY WRAP - Where applicable, an additional wrap around the leaf eye protects from failure in case of damage.

STEERING DAMPER

Reduce unwanted vibration and feedback through steering system in rough conditions

FOAM CELL TECHNOLOGY - Micro-Cellular closed cell foam insert allows for the horizontal mounting orientation required by a steering damper.

35mm TEFLON BANDED PISTON - Precision shim-stack piston specifically valved by Ironman suspension engineers, banded with Teflon for smooth long life operation.

54mm TWIN TUBE BODY - Increased oil volume improves cooling and endurance, twin tube construction protects internal components from impact damage.

SUPPLEMENTARY WELDED MOUNTS - Fusion welded and supplementary welded for maximum strength and reliability.

SINGLE PIECE BILLET EYE RINGS AND STEMS - Ultra robust design prevents breakage or bending of mounts.

VEHICLE SPECIFIC VALVING - Every part number is specially valved for each vehicle application, this ensures the steering operation is smooth and unhindered by the effects of rough road driving.

CASTER CORRECTION BUSHES

Available in adjustable or fixed offset designs, used to correct caster angle after raising suspension under 100mm (4")

PRE-CONFIGURED CASTER CORRECTION - Fixed 2 degree offset models suit 50mm (2") lifted suspension.

ADJUSTABLE CASTER CORRECTION - Adjustable offset suit a wide range of lift heights up to 100mm (4")

HIGH DENSITY MATERIALS - Vehicle specific rubber or polyurethane material.

ADJUSTABLE PANHARD RODS

Used to correct axle shift after raising suspension. Adjustable as required to re-centralise axle to vehicle

COMPETITION SPEC - 32mm solid rod used throughout.

FINE THREAD ADJUSTMENT - M32 x 2mm thread ensures precision adjustment for greater accuracy.

OEM STYLE RUBBER BUSHES - Maximum flex and durability. Replaceable OEM style bushes.

EXTENDED SWAY BAR LINKS

Recalibrates sway bar index after raising suspension.

VEHICLE SPECIFIC BOLT ON DESIGN - Easy fitment, utilises OEM mounting locations.

ADJUSTABLE LENGTH - Adjustable extension where possible depending on vehicle model.

PRACTICAL DESIGN - Strongest construction up-spec materials to avoid bending and breaking. Rubber bushes and aircraft grade spherical bearings used where possible depending on vehicle model.

SWAY BARS

Enhanced performance direct replacement sway bars featuring maximum bar diameter with factory compatible fitment.

SHORE A 70 DURO NR - Bushes maximum flex and durability.

ADJUSTABLE STEERING RODS

Adjustable length rod to centralise steering wheel after suspension lift.

ADJUSTABLE LENGTH - Compatible with all suspension ride heights.

STRONGER CONSTRUCTION - Reduces likelihood of failure due to impact.

BOLT ON STEERING DAMPER MOUNTS - Steering damper mounts can be positioned freely as required to suit suspension lift.

STRUT MOUNTS

Direct replacement for the OEM mounts. Facilitates the pre-assembly of complete new struts without disassembly of old unit.

FULLY OEM COMPATIBLE - Easy Installation.

SHORE A 80 DURO NR BUSHES & INSULATORS - Extended durability and precise location accuracy.

HEAVY DUTY WASHERS - Resists deformation in extreme use.

ADD-A-LEAF

Additional universal tapered leaf to upgrade existing leaf springs.

Eliminates suspension sag and supports additional load.

Improves - Comfort and handling.

Increases load carrying capability and ride height.

RUBBER BUSHES

Direct replacement for the OEM bushes, compatible with OEM and Ironman 4x4 suspension arms.

OEM STYLE RUBBER BUSHES - Easy press in replacement bushes, retains factory ride quality.

SHORE A 70 DURO NR - Maximum flex and durability.

PRO-FORGE CONTROL ARMS

Provides corrected wheel alignment and greater operating clearance, allows for the installation of larger tyres and further increases ride height.

HIGH STRENGTH FORGED ALLOY - Stronger and more durable than a cast, machined or fabricated arm.

BUSHES AND BALL JOINT - Replaceable with OEM compatible or genuine components.