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.

SUPPLIMENTARY 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

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

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.

durable bearing surface for your leaf springs, making them very durable in hot

throughout the bushing surface when combined with greasable shackles and

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

SPIRAL BORE AND FLANGES - To distribute lubricating grease evenly

surface.

spring bushes **QUAD-OUTLET GREASABLE** - Greasable

Enables easy re-greasing of polyurethane

GREASABLE SHACKLES AND PINS

shackles provide an easy method of relubricating 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

PRE-CONFIGURED CASTER CORRECTION - Fixed 5 degree offset models

suspension beyond 100mm (4")

TRIM PACKERS

on solid axle vehicles.

STRUT TRIM PACKERS

POLYURETHANE COIL SPRINGS SPACERS /

Available individually to adjust "side to side" or

"front to back" vehicle lean due to uneven load

suit 100mm (4") to 150mm (6") lifted suspension.

SUPPLIMENTARY 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.

protects piston rod from impacts and road debris.

maintain optimum ride height

consistency and accuracy, less heat during manufacture maintains material properties resulting in longer life.

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.

compresses, linear springs maintain a consistent rate throughout its range.

finish.

LEAF SPRINGS Available in a wide

leaves reducing noise and improving - Comfort.

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

MILITARY WRAP - Where applicable, an additional wrap around the leaf eye

and feedback through steering system in rough conditions

STEERING DAMPER

Reduce unwanted vibration

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.

welded for maximum strength and reliability. SINGLE PIECE BILLET EYE RINGS AND STEMS - Ultra robust design

VEHICLE SPECIFIC VALVING - Every part number is specially valved for each vehicle application, this ensures the steering operation is smooth and

CASTER CORRECTION BUSHES

Available in adjustable or fixed offset designs, used to correct caster angle after raising suspension

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

material.

ADJUSTABLE PANHARD RODS

suspension. Adjustable as required to re-centralise axle to vehicle

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

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

raising suspension.

bending and breaking. Rubber bushes and aircraft grade spherical bearings used where possible depending on vehicle model.

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

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

For use only with Ironman 4x4 struts, available

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

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. -CONFIGURED THICKNESSES - Varied thicknesses allow correct selection according to the amount of adjustment required. Usually provides

EXTENDED BRAKE HOSES

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

1:2 ratio suspension lift on independent suspension vehicles.

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

EXTENDED LENGTH - Extended length allows for greater suspension travel.

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

ADJUSTABLE TRAILING ARMS

COMPETITION SPEC - 32mm solid rod used throughout.



CASTER WEDGES Adjusts the caster angle within solid axle

SUITS - 60-70mm wide leaf springs. Breakaway side section can be removed for narrower springs. AVAILABLE IN - 1, 2, 3 and 4 degree increments.

vehicles, or changes pinion angle to remove

unwanted driveline vibration.

ADJUSTABLE STEERING RODS

Adjustable length rod to centralise steering wheel after suspension lift.

STRUT MOUNTS

precise location accuracy.

additional load.



STRONGER CONSTRUCTION - Reduces likelihood of failure due to impact. BOLT ON STEERING DAMPER MOUNTS - Steering damper mounts can be

struts without disassembly of old unit.

HEAVY DUTY WASHERS - Resists deformation in extreme use.

ADD-A-LEAF Additional universal tapered leaf to

Increases load carrying capability and ride height.

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

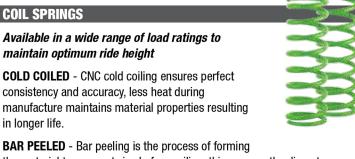


larger tyres and further increases ride height. HIGH STRENGTH FORGED ALLOY - Stronger and more durable than a cast,

machined or fabricated arm. BUSHES AND BALL JOINT - Replaceable with OEM compatible or genuine

IMPACT RESISTANT STONE SHIELD - Steel or Polyethylene dust shield

COIL SPRINGS Available in a wide range of load ratings to **COLD COILED** - CNC cold coiling ensures perfect

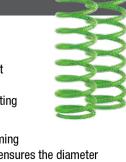


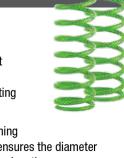




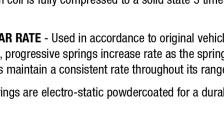


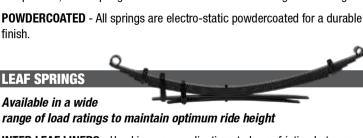


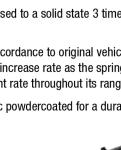














FOAM CELL TECHNOLOGY - Micro-Cellular closed cell foam insert allows for

prevents breakage or bending of mounts.

SUPPLEMENTARY WELDED MOUNTS - Fusion welded and supplementary

unhindered by the effects of rough road driving.

under 100mm (4")

ADJUSTABLE CASTER CORRECTION - Adjustable offset suit a wide range of lift heights up to 100mm (4") **HIGH DENSITY MATERIALS** - Vehicle specific rubber or polyurethane

Used to correct axle shift after raising

COMPETITION SPEC - 32mm solid rod used

Recalibrates sway bar index after

ADJUSTABLE LENGTH - Adjustable extension where possible depending on vehicle model. PRACTICAL DESIGN - Strongest construction up-spec materials to avoid

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.

positioned freely as required to suit suspension lift.

Facilitates the pre-assembly of complete new FULLY OEM COMPATIBLE - Easy Installation. SHORE A 80 DURO NR BUSHES & INSULATORS - Extended durability and

Direct replacement for the OEM mounts.

upgrade existing leaf springs. Eliminates suspension sag and supports

RUBBER BUSHES

Improves - Comfort and handling.

components.