

MONROE 2002 RIDE CONTROL CATALOGUE



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The information contained in this catalogue replaces all previous publications and product advice bulletins.

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MONROE®

THE WORLD'S BEST SHOCK ABSORBERS

SENSA-TRAC



**SEALED
STRUT**

**SHOCK
ABSORBER**

CARTRIDGE

Typical Part Number Series	37- S4- S8-	17- S1- S2- S5-	27- S3-

Innovative design combining the best of both worlds in one product. Unique grooved tube technology allows for two damping zones. Sensa-Trac provides automatic adjusting performance to deliver "Comfort when you want it, Control when you need it."

- * Unique grooved pressure tube – Comfort when you want it, Control when you need it.
- * Nitrogen gas pressurised – optimum fade-free performance.
- * Teflon banded piston – low friction, long service life.
- * Multi stage valving – precise control.
- * Multi lip seal – state of the art durability.
- * Superior rod finish – increased durability.
- * Two year/unlimited km warranty#.

excluding commercial use vehicles

PREMIUM GT-GAS



**SEALED
STRUT**

**SHOCK
ABSORBER**

CARTRIDGE

35- 15013 (example) 16508 (example) 71784 (example) E-	15- 26505 (example) 43027 (example) 52001 (example) E-	25- MG- 43952 (example) E-

Combines upgraded and refined damping rates, with all the fade free damping control benefits of gas pressurisation. Premium GT-Gas delivers optimum performance for safer control and precise handling under all driving conditions.

- * Nitrogen gas pressurised – optimum performance.
- * Teflon banded piston – low friction, long service life.
- * High displacement, multi stage valving – precise control.
- * Superior rod finish – increased seal durability.
- * Multi lip seal – state of the art durability.
- * Two year/40,000 km warranty.

MONROE®

THE WORLD'S BEST SHOCK ABSORBERS

GAS MAGNUM



SHOCK ABSORBER

16-
34601 (example)
M-
D-
L16-

Super duty gas charged shock absorbers. Engineered for 4x4 and light commercial vehicles for on and off road use.

- * Nitrogen gas charged.
- * 1-3/8" (35mm) bore.#
- * Multi stage, high displacement valving.
- * Superior chrome rod.
- * Multi lip seal.
- * Two year/40,000 km warranty.

On most applications

GAS MAGNUM 60



SHOCK ABSORBER

66638 (example)

Heavy duty commercial strength shock absorbers engineered for high kilometre long haul use with proven durability to withstand severe terrain operation.

- * Nitrogen gas charged.
- * 1-3/8" (35mm) bore.#
- * Multi lip seals.
- * Heavy duty construction and valving.
- * Two year/40,000 km warranty.

On most applications

GAS RISER



SHOCK ABSORBER

MGR-

A versatile gas pressurised heavy duty unit that enables ride height adjustment. Ideal for vehicles that operate under a variety of load and towing conditions.

- * 150 psi rating.
- * Teflon banded piston.
- * Gas pressurised.
- * Two year/40,000 km warranty.

MAX-LIFT



ML-

Max-Lift is a sealed, gas filled pressure cylinder that exerts an outward force. This force acts like a spring to lift and hold open hatches, bonnets and boots. An exact replacement fit for most applications.

- * Superior rod finish – increased seal durability.
- * Teflon piston seal – superior sealing strength.
- * High pressure gas filled – smooth action.
- * One year warranty.

MONROE®

THE WORLD'S BEST SHOCK ABSORBERS

MONRO-MATIC



**SEALED
STRUT**

**31-
11508** (example)

**SHOCK
ABSORBER**

**11-
110-
R-2637** (example)

CARTRIDGE

**WSC-
MR-**

Designed to meet or exceed the motor vehicle manufacturers' specifications for original equipment.

- * Hydraulic – non gas charged.
- * One year/20,000 km warranty.

STEERING DAMPER



STEERING DAMPER

**SC-
SA-
R09256** (example)

Absorbs steering shock and vibration caused by road irregularities – cracks, corrugations, holes, rocks and wheel tracks. Ideal for use on 4x4 and commercial vehicles.

- * 50/50 damping control.
- * Superior hard chrome plated piston rod.
- * Multi stage valving.
- * Boot assembly sold separately.
- * One year/20,000 km warranty.

MONRO-MAGNUM TRUCK



**SHOCK
ABSORBER**

6238 (example)
V2057 (example)

CARTRIDGE

74001 (example)

Heavy duty commercial strength shock absorbers engineered for high kilometre long haul use with proven durability to withstand severe terrain operation.

- * Magnum 60, 1-³/₈" (35mm) bore.#
- * Magnum 70, 1-³/₄" (45mm) bore.
- * Multi lip seals.
- * Hydraulic – non gas charged.
- * Heavy duty construction and valving.
- * Hydraulic-non gas charged.
- * One year/unlimited km warranty.

On most applications

STRUT MATE



**63618-
63619-
63620-
63622-**

Too often a new strut or cartridge is fitted with the old original and damaged suspension travel limit bushing (compression bumper) and dust boot. The Monroe Strut Mate kit includes a high quality, soft entry urethane compression bumper, a new dust boot, retaining strap and fitting instructions.

* Premium quality microcellular urethane bumper.

MONROE®

THE WORLD'S BEST SHOCK ABSORBERS

TOOLS

SPANNER WRENCH MNW-553

Service a wide variety of retaining nuts with this self-contained, multi-adjustable spanner wrench.



BRANICK SPRING COMPRESSOR Part no. 7200

The 7200 is designed to handle the wide variety of strut configurations. The unique upper "Floating Head" design self adjusts to provide uniform compression of the strut spring. Designed to be mounted on workshop wall.

Operator safety features include:

- 3 point upper and lower hook design
- Double start Acme thread
- 24" stroke
- Compresses down to 2".



MONROE CARTRIDGE LOCK RING TOOL Part no. TK2

This unique combination tool allows removal and tightening of most popular cartridge locking rings. Fits many original equipment sizes. For use on 1/2" square drive units.

MONROE

SENSATRAC

SHOCK ABSORBERS

The standard in comfort, control and safety.

Monroe Sensa-Trac brings new levels of comfort, control and safety to Australian driving.

Using an innovative design, Sensa-Trac combines the development of grooved tube valving technology (automatically adjusting as driving conditions change) with the proven benefits of gas pressurisation.

Sensa-Trac's design allows the piston to move within two damping zones. During normal driving conditions the piston works in the 'Comfort Zone', with fluid flowing through and past the piston, the result is a smooth comfortable ride.

When driving conditions become more demanding such as rough, undulating roads or during sudden vehicle manoeuvres, the piston works in the 'Control Zone' and fluid is forced through the piston. This results in firmer, more positive control of the vehicle.

When the two functions are combined the ultimate result is comfort when you want it, control when you need it.

The product that offers the best of both worlds is also backed by a 2 year/unlimited kilometre warranty.



Product Features

- Unique grooved tube multi-staged valving
- Position sensitive pressure tube grooves
- Teflon banded piston
- Multi-lip piston rod seal
- Superior hardchrome piston rod finish
- Nitrogen gas pressurised
- 2 year/unlimited kilometre warranty.*

*Excluding commercial use vehicles

Benefits

- Precise damping response
- Comfort when you want it, control when you need it
- Low friction, long service life
- Improved retention of fluid and gas
- Increased seal durability
- Optimum fade-free performance under all conditions.

HOW
SENSATRAC
WORKS

The Comfort Zone

Normal driving conditions – fluid flows freely past the piston through special position-sensitive-damping grooves in the pressure tube.

Result – a smooth, high-comfort ride.

The Control Zone

Demanding driving conditions – fluid is forced beyond the position-sensitive-damping grooves and through the piston itself.

Result – greater driving control.



Magic Camber



Smoother running and reduced tyre wear.



Introducing the revolutionary and deceptively simple Monroe Magic Camber.

Until now, the problem of incorrect camber was impossible to solve, but the new Magic Camber from Monroe is a simple solution. It enables camber to be corrected on most vehicles fitted with strut type suspension.

WHAT IS CAMBER?

Camber is the angle between the direction of the wheel and a true vertical line perpendicular to the ground. Many cars on the road today have incorrect camber, causing unnecessary and uneven wear.

WHAT CAUSES INCORRECT CAMBER?

A number of factors can alter a vehicle's wheel camber including driving over kerbs, driving with worn springs, lowered suspension,

fitting low-profile tyres and poorly fitted shock absorbers.

TYRE WEAR

Driving with incorrect camber can increase tyre wear by a staggering 20-50% and have a serious effect on a car's performance and safety. Drivers can literally gain thousands of kilometres from their tyres by simply fitting the new Magic Camber.

PERFORMANCE

Incorrect camber also causes steering wheel vibration and often causes the vehicle to pull to one side of the road, with the driver having to constantly 'fight' with the steering wheel.

SAFETY

Uneven tyre wear means that only a part of the tyre's surface has sufficient contact with the road, which dramatically increases braking distances. This can lead to

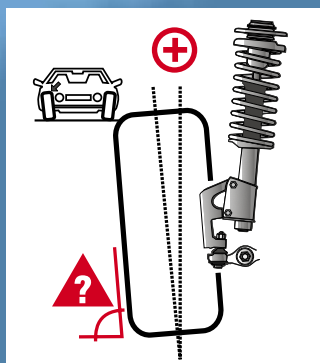
other dangerous driving situations, particularly in wet conditions, when unevenly worn tyres have insufficient road contact and tread to displace water.

FITTING

Installation of Magic Camber kits is quick and easy. For vehicles whose shock absorbers are held in place at the bottom by two bolts, simply replace the upper bolt with the Magic Camber bolt and then adjust to correct wheel camber.

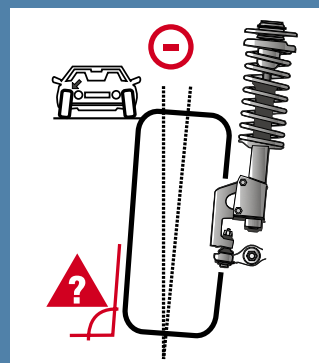
QUALITY

As you have come to expect from all Monroe products, Magic Camber is of the highest quality. In addition, it has been tested and approved by Germany's technical agency TÜV.



Positive Camber

The wheels extend outward at the top and cause wear to the outer of the tyre.



Negative Camber

The wheels extend inward at the top and cause wear to the inner side of the tyre.



Monroe quality and durability makes **Max-Lift**™ the only choice

Monroe Max-Lift gas charged lift supports are now available as exact replacement fits for most vehicles sold in Australia since 1980. Max-Lift is the market's premium replacement product. The highest quality, design and durability standards have been applied to their manufacture. And isn't that what your customers have a right to expect?

- 1** Plastic fittings for tubes and rod ends.
- 2** Electrical fittings for connecting hatchback accessories when necessary.
- 3** Pressure cylinder manufactured for maximum durability and corrosion resistance.
- 4** Gas chamber filled with high pressure, inert gas to provide lifting force and oil to control rate of lift.
- 5** Interior wall with polished surface for smooth action.
- 6** Piston assembly with electrical wiper when required; piston valving designed to eliminate clogging; and teflon piston seal for superior sealing strength.
- 7** Limit groove assures precise free-length.
- 8** Seal assembly captive lubrication device when required; main seal; and durable plastic rod guide which reduces potential rod abrasion.
- 9** Rod coated in a salt nitride process for exceptional corrosion resistance and durability.

How to sell more **Max-Lift**™

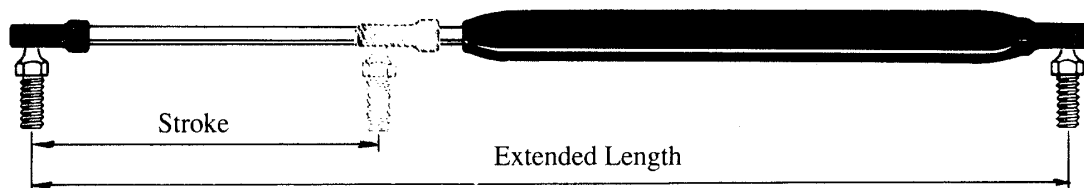
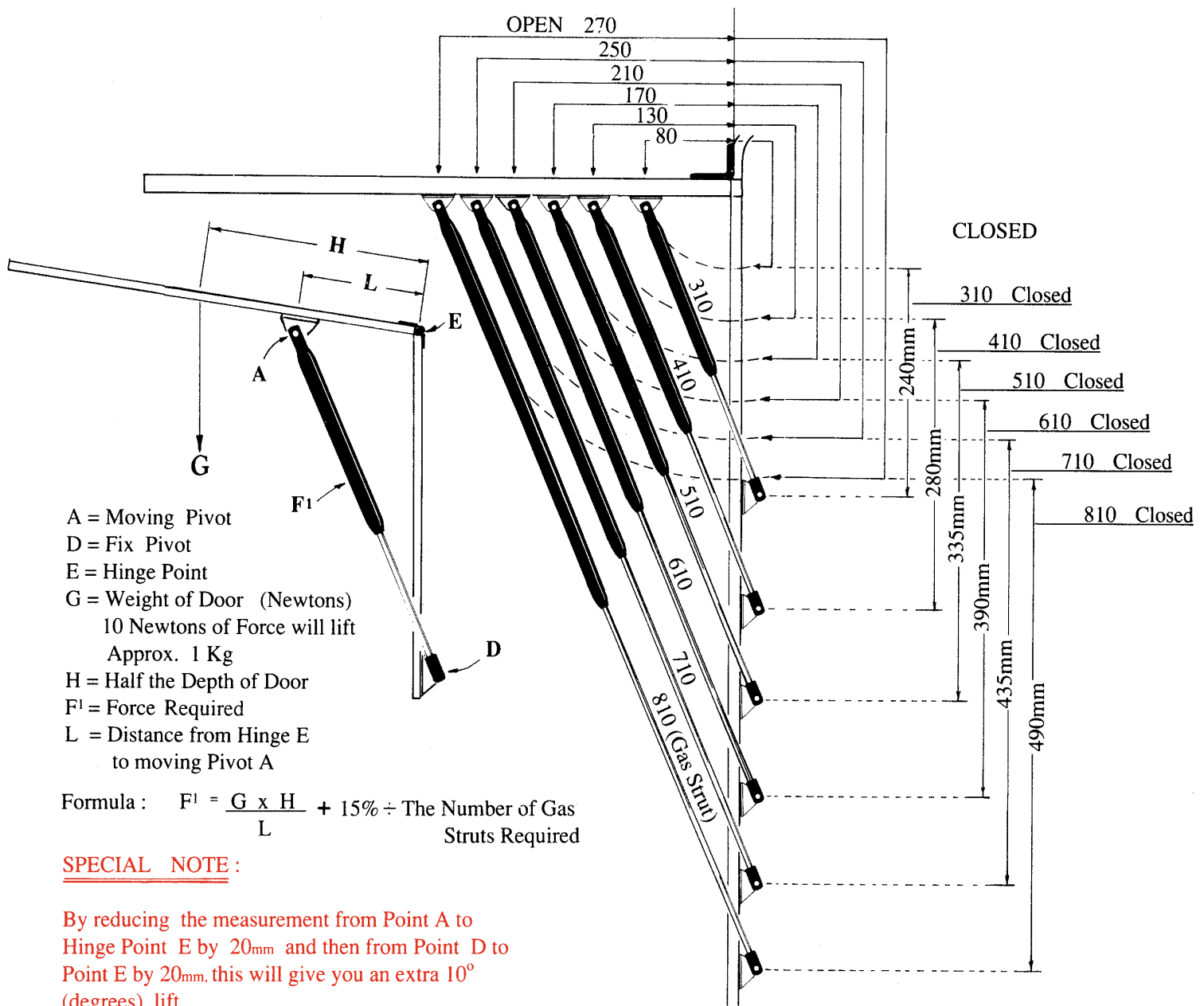


This enlarged wall display for your showroom has space for 20 different Max-Lift applications, displayed five deep. A colourful, eye-catching header card will capture your customers' attention. A part number strip is supplied to simplify identification of Max-Lift applications. Made of powder-coated round wire and durable, spot-weld construction, the merchandiser measures 715mm x 800mm x 225mm.

Order ML-0020 Max-Lift product to fill one retail wall display unit and receive the merchandiser free!
Call your Monroe State distributor and order Max-Lift

Max-Lift™

Fitment Guide



MONROE POINT OF SALE MATERIAL



Sensa-Trac Corflute Sign



At 80km/h on a straight, dry, uneven road, you'll take 2.6 metres longer to stop if just one of your shock absorbers is faulty.



2.6m Poster



Product Poster



End Sign Unit

Footpath Stand Corflute Insert



GASRiser Poster



Shock Absorber Shelf Unit

To obtain your free POS material or additional catalogues contact your Tenneco State office

NSW: Ph: 02 9756 3722 QLD: Ph: 07 3268 7800

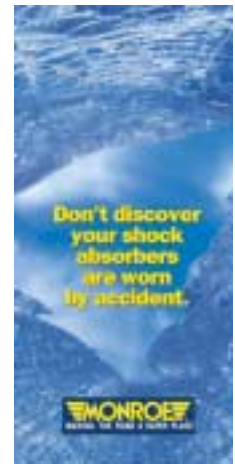
VIC/TAS: Ph: 03 9701 6011 WA: Ph: 08 9353 3323 SA/NT: Ph: 08 8374 0600



Hanging Corflute Sign



Sensa-Trac Brochure



Consumer Brochure



Mirror Hanger



Stickers: Various sizes



Large Corflute Sign

The Monroe Warranty

A guarantee for you and your customer

WARRANTY STATEMENT

Monroe Australia warrants all Ride Control Products marketed under the Monroe brand name to the original retail purchaser against defects and premature loss of damping force for the periods stated below:

2 Year/Unlimited kilometres from date of retail sale or date of fitment, whichever occurs first.

a) Sensa-Trac products*

b) Magic Camber products

**excluding commercial use vehicles.*

2 Year/60,000 kilometres from date of retail sale or date of fitment, whichever occurs first.

a) Sensa-Trac products*

**on commercial use vehicles.*

2 Year/40,000 kilometres from date of retail sale or date of fitment, whichever occurs first.

a) Gas-Magnum products

b) Premium GT-Gas products

c) GASRiser products

12 Months/Unlimited kilometres from date of retail sale or date of fitment, whichever occurs first.

a) Magnum 70 Series products

b) Magnum 60 Series products

c) Max-Air kit

12 Months/20,000 kilometres from date of retail or date of fitment, whichever occurs first.

a) Touring Gas products

b) Max-Lift products

c) Monro-Matic products

d) Steering dampers

Note: Monroe Australia's obligation under this Warranty is limited to the replacement of the defective unit only. Costs of removal of the defective unit and replacement of the unit are not included.

WARRANTY CLAIMS

Monroe Australia is dedicated to the pursuit of product excellence and the

achievement of maximum consumer loyalty.

Monroe Distributors are qualified to validate all Warranty claims, but Monroe Australia reserves the right to inspect all units claimed as defective.

As a matter of policy, all warranty claims submitted will be honoured, under the terms of our stated Warranty, provided:

- A fully completed Monroe Australia claim form is presented with each defective unit to an authorised Monroe Distributor.

Note: One claim form can be used for up to two defective units. Please nominate the number of units being claimed.

- Information on the Warranty Claim Form includes all vehicle identification data, part number, fitting or sale dates and a description of the defect.

- In addition, both the customer's and reseller/installer's names, addresses and telephone numbers must be provided, to allow Monroe Australia Representatives to contact claimants.

- Copies of proof of purchase documents are attached to the claim form, which must be signed by the Monroe Distributor's Claim Officer.

- This Warranty does not apply to units which have been modified or improperly installed, nor to units fitted to vehicles contrary to application information contained in the Monroe Product Catalogue or its subsequent amendments.

EXCLUDED FROM MONROE WARRANTY ARE:

1. Cartridges claimed for noise, which have not been properly tightened down with the locking ring.

2. Severe interference between unit and other suspension components, causing noise or failure of the shock absorber.

3. Units that were involved in an accident and show dents and nicks.

4. On air-adjustable units, air-sleeve damage such as burn holes and abrasion caused by another part of the vehicle is specifically excluded from Warranty.

5. Units showing evidence of improper tightening of the mounting bolts causing parts to wear or bend.

6. Lower mounting studs on Ford Falcon front shock absorber twisted off by overtightening.

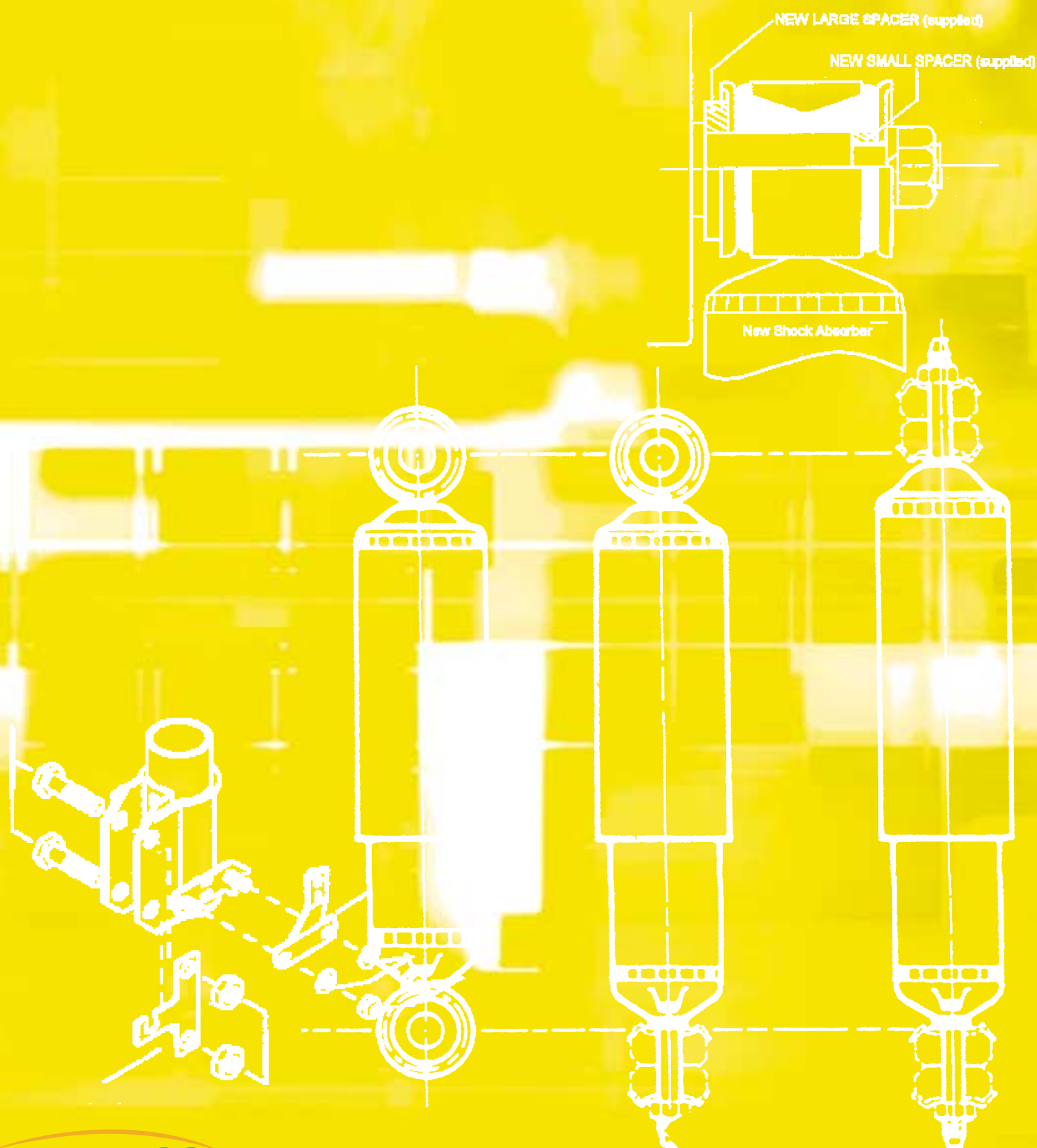
7. Vice jaw or "multigrip" type wrench marks on polished section of piston rod, causing damage to oil seal and oil leakage.

8. Struts and cartridges that have not been fitted with serviceable bumpstops (where originally fitted).

To the extent permitted by law, and subject to any warranty or right implied by the Trade Practices Act, or any State act or regulation which warranty or right cannot by law be modified or excluded by agreement, all warranties, conditions, representations, assertions and statements (whether express, implied, statutory or otherwise) which are not expressly set out in this Warranty Statement and any liability arising on the part of Monroe Australia for any breach of such warranties, conditions, representations or statements are hereby expressly excluded; and where any warranty is implied by law and is not excluded by reason of (paragraph 1), subject to any contrary provisions (which cannot be modified or excluded) of the Trade Practices Act, or any State act or regulation, the liability of Monroe Australia shall be limited to a liability to pay to the purchaser an amount equal to the cost of replacing the goods excluding, to the extent permitted by law, costs of removal of the defective goods and installation of the replacement goods.

MONROE[®]

THE WORLD'S BEST SHOCK ABSORBERS



TENNECO
Automotive