



# MECHANICAL SERVICE

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**DRIVE PULLEY SPANNER SET**  
INTERCHANGEABLE HEAD METRIC & E-STAR

- Specially designed for holding, removing and tightening damper, crank, power steering pump, alternator, radiator fan and difficult to access pulleys
- The unique curved design enables access to hard to reach places that are otherwise inaccessible using normal spanners
- Interchangeable head with secure locking mechanism ensures the adaptor will never come apart while in use
- Manufactured from drop forged chrome vanadium steel with hard wearing matt rubber coated handle grip
- Includes thirteen popular metric hex and E-Star adaptors
- Supplied in custom moulded plastic hard case



Part No.	Description	Size
<b>304047</b>	E-star adaptors	E10, E12, E14, E16, E18
	Metric hex adaptors	12, 13, 14, 15, 16, 17, 18, 19mm
	Spanner	440mm



**WELCH PLUG INSTALLER & REMOVAL KIT**

- Removes stubborn, hard to reach welch plugs
- Eliminates having to remove head or manifolds
- Includes ball-type installing swivel tool for easy positioning
- Supplied in custom moulded plastic hard case



Part No.	Adaptor Sizes	Swivel Head Bar
<b>308010</b>	20, 25, 30, 35, 40, 45, 50mm	M27 x 1.5 x 400mm

**FAN CLUTCH SPANNER SET**  
MASTER

- Water pump pulley spanner and holder set
- Contains locknut spanners and fan belt service wrench for idler pulley tensioner nuts
- Covers most late model vehicles
- Supplied in custom moulded plastic hard case



Part No.	Description	Pieces
<b>308008</b>	Master fan clutch spanner set	10

Ref. code	Description	Application	Size	Overall Length
A	Hub securing bar (Mercedes OEM Part no. 113-0040)	<b>Mercedes-Benz Engines:</b> M111, M112, M113, M119	Ø 65mm	410mm
B	Fan removing tool Hex 8mm (Mercedes OEM Part no. 104 589 00 01 00)	<b>Mercedes-Benz:</b> 300E (1985 - 1992), 260E (1987 - 1990), 300CE (1988 - 1989), 300TE (1988 - 1991), 300E 2.6 (1990 - 1992), 300TE 24 (1990 - 1993), 300CE 24 (1990 - 1993), 300E 24 (1990 - 1993), 300CE (1993 - 1994), 280E (1993 - 1994), 300E 2.8 (1993 - 1994), E280 (1994 - 1996), 320TE (1993 - 1994), E320 (1994 - 1996)	8mm	300mm
C	Wrench/Holding Bar with adaptor sizes: 6, 8, 10mm Hex (10mm hex used for adjusting A/C belt tension and removing idler pulley on 420 & 560 models with V8 from 1986)	<b>Mercedes-Benz Engines:</b> M130, M104, M111, M119, M120, OM602, OM603, OM605, OM606	6, 8, 10mm	490mm
D	Open end wrench 32mm	<b>BMW Engines:</b> M10, M10, M20, M40, M41, M42, M50, M60, M62, <b>FORD:</b> 6 Cylinder	Ø 32mm	375mm
E	Open end wrench 36mm	<b>GM, FORD:</b> 8 Cylinder	Ø 36mm	375mm
F	Water pump holding tool	<b>BMW Engines:</b> M10, M20, M40, M41, M42, M44, M50, M52, M52TU, M54, M56, M60, M62, M70, M73, S14, S38, S50B30, S50B32, S54, S62B50	45 x 60mm	380mm
G	Hub holding wrench	Universal open-end wrench to remove the thermofan clutch from most BMW & Mercedes-Benz. Suitable for fan-clutch replacement, water-pump service and other front-engine repair work. Opening width 65mm, opening length 40mm and thickness 5mm.	Ø 65mm	390mm



**BELT SERVICE KIT**  
SERPENTINE BELTS

- For easy removal and replacement of serpentine belts that require release of the spring tensioner on the tensioner pulley
- Innovative combination ratchet wrench and extension handle to allow for three dynamic angles of leverage
- Fifteen piece kit covers all major makes and models with serpentine belt configuration
- Supplied in custom moulded plastic hard case

Part No.	Description	Size
<b>304015</b>	Sockets	8, 12, 13, 14, 17, 18, 24mm, 5/8"
	Hex bits	8, 6 x 8, 8 x 10mm
	Adaptor square drive	3/8" & 1/2"
	Extension handle	410mm
	Ratchet wrench	230mm
304035	Socket 19mm (not included - available separately)	

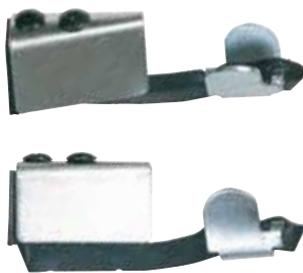


**STRETCH BELT TOOL KITS**  
UNIVERSAL

- For use during the installation of flexible multi ribbed drive belts
- Enables easy damage free stretching of drive belt into the correct position whilst turning the crankshaft pulley by hand
- Suitable for use on vehicles fitted without automatic drive belt tensioners
- Contains three specially designed installation tools
- Supplied in custom moulded EVA foam and steel case

Note: See Timing Tool section for further information

Part No.	Applications
<b>304775</b>	Refer page 186
<b>304776</b>	Refer page 186



**BELT INSTALLATION & REMOVAL TOOL**  
UNIVERSAL

- Designed to remove and replace V-belts quickly and safely
- Robust steel and neoprene construction derails and installs V-belts in a roll off, roll on motion
- Eliminates loosening bolts or stretching belts

Part No.	Application	Pieces
<b>301111</b>	SPA metric 13 x 10mm	2



308235



308236

**VISCIOUS FAN HUB SPANNERS**

- For the removal and installation of viscous fan hubs
- Extra length and thin width makes it manoeuvrable in the engine bay
- Hang hole for easy storage

Part No.	Application	Size	Overall Length
<b>308235</b>	Ford 6 cylinder	32mm	375mm
<b>308236</b>	GM, Ford 8 cylinder	36mm	375mm



**PULLEY REMOVER**  
VAG WATER PUMP

- Uniquely designed to lock deep-drawn water pump pulleys on VW and Audi engines with air conditioning
- Safely locking the water pump pulley allows quick and easy removal of pulley bolts
- Manufactured from drop forged chrome vanadium steel with hard wearing rubber grip

Part No.	Offset	Overall Length
<b>304013</b>	40mm	300mm



308001



308002

**THERMOMETERS**  
POCKET STYLE ANALOGUE

- Handy pocket style thermometers with easy reading dial faces
- Protective PVC dipped sleeve and pocket clip (308002 only)
- Ideal for refrigerant systems, air conditioning, coolant, oil temperatures etc.



Part No.	Range	Dial Diameter	Overall length
<b>308001</b>	-40 to 71°C / -40 to 160°F	Ø 45mm	140mm
<b>308002</b>	0 to 220°F	Ø 25mm	140mm



**WATER PUMP HOLDING TOOL**  
HOLDEN 2.2L

- Holds the timing chain sprocket in place to allow fast, efficient and easy removal of the water pump during service
- Prevents the timing chain sprocket from moving whilst changing the water pump

Part No.	Applications	Pieces
<b>308004</b>	<b>Holden</b> Astra TS 12/2001 - 01/2007 Vectra ZC 03/2003 - 12/2006 Zafira TT 06/2001 - 05/2006	4



**THERMOMETER**  
DIGITAL INFRARED

- Portable and easy to use digital thermometer designed specifically for point and shoot temperature taking
- Laser sighting for simple one hand operation, backlit LCD display, auto-hold function and auto power off
- Protective sleeve, cap and 9V battery (included)
- Ideal for automotive, engineering and industrial applications etc.



Part No.	Specifications		Specifications	
<b>321500</b>	Display	LCD	Weight	157g
	Auto power off	10 seconds	Laser	<1mW, Class 2 laser
	Battery	9v (NEDA 1604, IEC 6F22006p)	Range	-30°C to 550°C
	Battery life	9 hours (continuous use)	Accuracy	±2°C on -30°C to 100°C, ±2% on -101°C to 550°C
	Dimensions	148H x 105W x 42D (mm)		



**HOSE REMOVAL SET**

- Designed specifically for manipulating the seal when removing or working with hoses
- Two clever hook designs reach into hard to get areas where working space is limited
- Ergonomic plastic handles for superior grip and manoeuvrability



Part No.	Overall Length	Pieces
<b>301151</b>	200mm	2

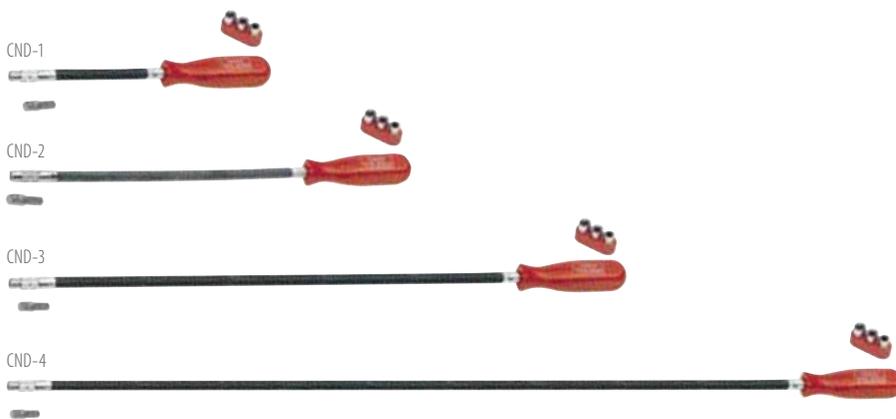


### HOSE/PIPE CUTTERS

- Straight blade cutting for common rubber and PVC tube and hose
- Heavy duty hardened and ground stainless steel blades provide a clean and precise cut
- Suitable for cutting heater hose, airline hose, fuel and vacuum hose, PVC tubing and more
- Not suitable for metal cutting
- Spares: Replacement blade set 2 piece (Part No. 321026A)



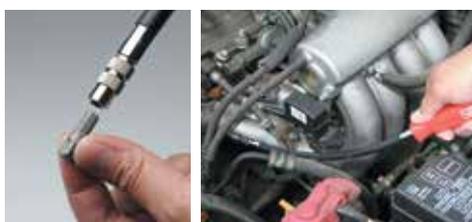
Part No.	Description	Body	Jaw Opening (Max)	Overall Length	Spares
<b>321026</b>	Precision angled cutter w/protractor & 3 blades	Plastic & steel	20mm	240mm	321026A
<b>308011</b>	Mini hose cutter E.g. A/C hose	Plastic	14mm	150mm	–
<b>301923</b>	Hose/pipe cutter	Plastic	25mm	150mm	–
<b>301028</b>	Hose/pipe cutter, ratcheting heavy duty	Steel	42mm	190mm	–
<b>321041</b>	Hose/pipe cutting mini saw (hardened alloy)	Plastic & rubber	–	220mm (open)	–



### HOSE CLAMP NUT DRIVERS

- Designed for trouble free installation and removal of most modern hose clamps
- Flexible shaft enables access to hard to reach hose clamps
- Ergonomic handle offers comfort and a superior grip
- Includes socket attachments: 6, 7 and 8mm
- Suitable for use on all Tridon worm drive hose clamps

Part No.	Overall Length
<b>CND-1</b>	150mm
<b>CND-2</b>	300mm
<b>CND-3</b>	600mm
<b>CND-4</b>	900mm



### HOSE CLAMP PLIERS CLIC TYPE

- Spring loaded pliers suitable for hose clamp installation and removal
- Suitable for CLIC, CLIC-R and Tridon SL series hose clamps
- Specially designed jaws allow a quick change from installation to removal by simply turning over pliers
- Manufactured from chrome treated alloy steel with PVC dipped handles



Part No.	Jaw Opening (Max)	Overall Length
<b>321011</b>	20mm	180mm



301030



301031



Wide flat band head



Cross slotted head

**HOSE CLAMP PLIERS**  
CONSTANT TENSION

- For the installation and removal of constant tension style hose clamps
- Locking mechanism holds clamp in position and spring return ensures ease of operation
- Manufactured from chrome treated alloy steel with PVC dipped handles



Part No.	Jaw Style	Jaw Opening (Max)	Jaw Width	Overall Length
<b>301030</b>	Angled 45° (cups)	68mm	17mm	215mm
<b>301031</b>	Straight (cup & slot)	45mm	11mm	215mm

**HOSE CLAMP PLIER SET**  
CONSTANT TENSION

- Two piece set includes both cross slotted jaw and wide flat band jaw pliers to suit most ring and flat band type hose clamps
- Ratchet locking mechanism holds clamp in open position for easy installation and removal
- Suitable for use with Tridon CTC series clamps
- Manufactured from chrome treated alloy steel with PVC dipped handles

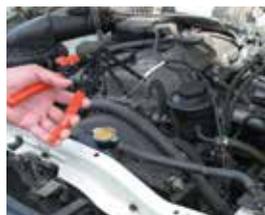


Part No.	Description	Jaw Opening (Max)	Jaw Width	Overall Length
<b>301171</b>	Cross slotted head	64mm	12mm	215mm
	Wide flat band head	64mm	25mm	215mm



**HOSE CLAMP PLIERS**  
CONSTANT TENSION  
FLEXIBLE CORD

- For the installation and removal of constant tension style hose clamps
- Locking mechanism holds clamp in position and spring return ensures ease of operation
- Flexible cable offers extensive reach and access to difficult areas
- Manufactured from chrome treated alloy steel
- Black phosphate finished body and PVC dipped handles

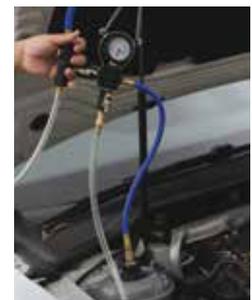


Part No.	Body x Flexible Cord Length	Jaw Opening (Max)	Jaw Width	Overall Length
<b>301172</b>	210 x 630mm	53mm	21mm	215mm

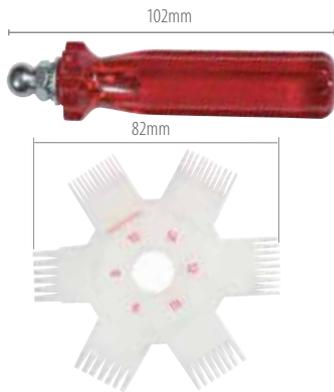


**COOLING SYSTEM VACUUM PURGE KIT**

- For quick, easy and mess free refilling of entire cooling system
- Eliminates need for bleeding and purging system to eliminate air pockets
- Quick connect to standard workshop air line
- Used in conjunction with adaptors from master cooling system tester kit (Part No. 308500)
- Includes universal adaptor for use on most cars and light commercial vehicles



Part No.	Air Pressure/Consumption	Air Inlet	Hose Length
<b>308552</b>	90psi/12cfm	1/4" BSP	900mm



**RADIATOR CAP TESTER ADAPTORS**  
MASTER SET 9 PIECE

- Master set of adaptors used to test the integrity of radiator caps
- Colour coded for quick and easy identification
- Manufactured from heavy duty ABS plastic



**RADIATOR FIN STRAIGHTENER**

- Multi sized tool used to clean and straighten condenser radiator and evaporator coil fins with gaps
- Small and compact unit with solid grip screwdriver style handle
- Nylon fin blades and acetate handle



Part No.	Size (fins/inch)
<b>308240</b>	8, 9, 10, 12, 14, 15

Part No.	Contents	Description	Applications
<b>308350</b>	308351	Bayonet - Blue (Japanese extra small)	Late model Japanese
	308352	Bayonet - Orange (Japanese small)	Ford, Honda, Nissan, Mitsubishi, Subaru & Toyota
	308353	Bayonet - Black	Standard 1 5/8"
	308354	M45 screw (external) - Orange	VAG, Renault
	308355	M48 screw (external) - Red	Citroen, Fiat, Peugeot, Renault & Volvo
	308356	M52 screw (external) - Yellow	BMW, GM, Ford, Landrover, VW
	308357	M44 screw (external) - Green	Renault & Volvo
	308358	M52 screw (external) - Black	BMW
	308359	M62 screw (external) - Black	Mercedes Benz



**COOLING SYSTEM PRESSURE TESTER**  
LCV & HGVS

- Similar kit to the 308500 but designed for light commercials and heavy goods vehicles
- Seven specialist adaptors to suit some popular makes in Australia and New Zealand
- Hand operated pressure testing pump which features a heavy duty flexible hose, quick coupler with pressure release valve and dual graduated gauge (35psi/2.5bar)
- Adaptor caps are provided to fit some Mercedes-Benz Sprinter, Volvo, MAN, Renault, DAF, Iveco, ERF and Scania
- Supplied in custom moulded foam tray in plastic hard case



Scan for application list

Part No.	Contents	Specifications	Image
<b>308390</b>	308553	Gauge & Pump 35psi/2.5bar	
		Hose with quick connect fittings	
308393	<b>Ref. 3</b>	Bayonet connector cap, Ø 38.5mm	
308394	<b>Ref. 4</b>	Fine threaded cap, Ø 43 mm	
308395	<b>Ref. 5</b>	Threaded cap, Ø 49 mm	
308396	<b>Ref. 6</b>	Coarse threaded cap, Ø 43 mm	
308397	<b>Ref.7</b>	Threaded cap, Ø 69 mm	
308398	<b>Ref. 8</b>	Threaded cap, Ø 39 mm	
308399	<b>Ref. 9</b>	Threaded cap, Ø 59 mm	



**COOLING SYSTEM PRESSURE TESTER**

UNIVERSAL TAPERED CONE ADAPTORS

- Tapered style adaptors are adjustable in size and can expand to meet the application requirement size, especially larger applications
- Gauge is colour coded and pump is constructed from polyoxymethylene (POM), a high impact substance stronger than steel, yet able to withstand the corrosive factors of inhibitors ensuring a long service life
- Suitable for Japanese, European and American style radiators
- Ideal for trucks, machinery, plant equipment etc.

Part No.	Description	
<b>308380</b>	Cooling system pressure tester - Truck	
Contents	Description	Image
308382	Expanding tapered adaptor 17 - 35mm	
308383	Expanding tapered adaptor 26.5 - 41mm	
308384	Expanding tapered adaptor 37 - 50mm	
308385	Expanding tapered adaptor 47 - 60mm	
308301	Pump & gauge assembly 0 - 35psi (0 - 2.5bar)	



**RADIATOR BACK FLUSHER**

- Simple and effective tool used to clean cooling systems and heater cores without the need to dismantle or use caustic cleaning solutions
- Connects to heater hoses as well as common garden hoses
- Manufactured from plastic and aluminium



Part No.	Size
<b>308237</b>	13mm (1/2"), 16mm (5/8") & 19mm (3/4")

**COOLING SYSTEM PRESSURE TESTER & VACUUM PURGE KIT**

MASTER 36 PIECE

- Comprehensive master kit enables cooling system pressure testing, radiator cap pressure testing and cooling system purge and refill
- Vacuum purge allows the evacuation of air pockets in cooling system after service or repairs
- Suitable for diagnosing coolant leaks and overheating issues on most passenger and light commercial vehicles
- Large easy to read colour coded dials for accuracy
- 22 test cap adaptors include identification numbers and colour code for quick referencing
- 90° elbow adaptor suitable for difficult or obscure positions
- Handy thermometer for checking heater and air conditioning temperature after service or repair
- Universal tapered cone adaptor enables testing on plant and agriculture machinery
- Includes user guide and full vehicle application list covering 95% of AUS/NZ Car parc
- Supplied in heavy duty storage case
- Spares: Replacement rubber seals for bayonet test cap 308503A, 308504A, 308505A



Scan for application list

Part No.	Description
<b>308500</b>	Cooling System Pressure Tester & Vacuum Purge Kit

COOLING SYSTEM PRESSURE TESTER & VACUUM PURGE KIT 308500 CONTENTS

<p>I.D. No. 0 308557</p>  <p>Thermometer 210mm -50 to +150 °C</p>	<p>I.D. No. 1 308553</p>  <p>Pressure pump 0 - 35psi (0 - 2.5bar) Pressure pump hose Length: 600mm</p>	<p>I.D. No. 2 308554</p>  <p>Radiator cap tester R123 &amp; R124 (Black)</p>	<p>I.D. No. 2 308555</p>  <p>Radiator cap tester R123 &amp; R125 (Blue)</p>	<p>I.D. No. 3 308503</p>  <p>Bayonet test cap Small</p>
<p>I.D. No. 4 308504</p>  <p>Bayonet test cap Medium</p>	<p>I.D. No. 5 308505</p>  <p>Bayonet test cap Large</p>	<p>I.D. No. 6 308506</p>  <p>Screw type test cap Orange</p>	<p>I.D. No. 7 308507</p>  <p>Screw type test cap Brown</p>	<p>I.D. No. 8 308508</p>  <p>Screw type test cap White (External thread)</p>
<p>I.D. No. 9 308509</p>  <p>Screw type test cap Pink (External thread)</p>	<p>I.D. No. 10 308510</p>  <p>Screw type test cap Grey</p>	<p>I.D. No. 11 308511</p>  <p>Screw type test cap Red</p>	<p>I.D. No. 12 308512</p>  <p>Screw type test cap Dark green</p>	<p>I.D. No. 13 308513</p>  <p>Screw type test cap Sky blue</p>
<p>I.D. No. 14 308514</p>  <p>Screw type test cap Yellow</p>	<p>I.D. No. 15 308515</p>  <p>Screw type test cap Coral</p>	<p>I.D. No. 16 308516</p>  <p>Screw type test cap Purple</p>	<p>I.D. No. 17 308517</p>  <p>Screw type test cap Light blue</p>	<p>I.D. No. 18 308518</p>  <p>Screw type test cap Turquoise</p>
<p>I.D. No. 19 308519</p>  <p>Screw type test cap Pink</p>	<p>I.D. No. 20 308520</p>  <p>Screw type test cap White</p>	<p>I.D. No. 21 308521</p>  <p>Screw type test cap Copper</p>	<p>I.D. No. 22 308522</p>  <p>Screw type test cap Green</p>	<p>I.D. No. 23 308523</p>  <p>Screw type test cap Pink/white (External thread)</p>
<p>I.D. No. 24 30851H</p>  <p>Screw type test cap Black</p>	<p>308559</p>  <p>Tapered cone adaptor universal 15 - 45mm</p>	<p>308558</p>  <p>Vacuum purge unit 0 to -76 cmHg (0 to -1bar) Vacuum purge hose 500mm</p>	<p>308562</p>  <p>Elbow connector 90°</p>	<p>308560</p>  <p>Coolant suction hose 1200mm Ø10mm Air bleeding hose 600mm Ø 8mm</p>
			<p>308556</p>  <p>Adaptor wrench Length: 94mm</p>	

## BRAKE



### BRAKE CALIPER PISTON WIND BACK KIT MECHANICAL UNIVERSAL ADJUSTABLE ADAPTORS

- Universal brake caliper wind back tool for resetting the brake piston during brake pad service and repairs
- T-bar design and non-slip PVC moulded centre grip enables efficient operation and retraction
- Suitable for both left and right hand thread brake calipers and two/three pin brake caliper pistons
- Includes two and three pin adjustable adaptors, magnetic two pin standard adaptor, reaction plate, main tool body and t-handle
- Adaptors are adjustable in size to suit most common make and model applications
- Supplied in custom moulded plastic hard case



Part No.	Description	Size
<b>310378</b>	Main body ram	175mm
	T-bar	100mm
	Reaction plate	–
	Two pin adaptor	Range: 23 - 37mm Pin: Ø 4mm
	Three pin adaptor	Range: 22 - 33mm Pin: Ø 4mm
	Two pin magnetic adaptor	25mm



### DISC BRAKE PAD SPREADER

- Used to return the brake caliper piston to the resting position during removal, installation and service repairs on the disc brakes
- Threaded T-bar handle and reaction plate
- Suitable for front and rear calipers in universal applications



Part No.	Reaction Plate	Jaw Opening (Max)	Spread (Max)	Overall Length
<b>310265</b>	100 x 40 x 4mm	40mm	110mm	150mm



### BRAKE CALIPER PISTON WIND BACK KIT MECHANICAL

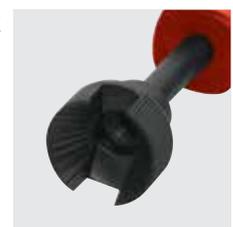
- Comprehensive kit for returning the brake piston to the resting position during removal, installation or carrying out service
- Large T-bar handle for high torque low effort operation
- Kit includes adaptors, forcing plate and forcing screw body
- Suits most popular modern vehicles including Ford, GM, Honda, Mazda, Mitsubishi, Nissan, Saab, Subaru, Toyota, VAG
- Supplied in custom moulded plastic hard case

Part No.	Description	Application
<b>310350</b>	Forcing plate	–
	Forcing screw body	–
	Adaptor - Wind back	Ford Fairlane ZJ, LTD FC, Falcon XB, XC, XD, GM Holden HJ, HX, HZ
	Adaptor - Wind back	Ford Falcon EA, EB, Fairlane NA, NB, LTD, DA
	Adaptor - Wind back	Ford Falcon - XE, XF, Fairlane ZK, LTD FD
	Adaptor - Wind back	Ford Telstar, Laser, Focus, Mazda 323, 626, Mitsubishi Starion, Scorpion, Galant, Lancer
	Adaptor - Wind back	Ford, Mazda, Saab
	Adaptor - Wind back	Ford, Nissan, Peugeot, Rover, Toyota, VAG
	Adaptor - Wind back	Mitsubishi Magna - TM, TN, Nissan Pulsar
	Adaptor - Wind back	Nissan Pintara, Syklone
	Adaptor - Push back	BMW, GM Commodore, Honda, Jaguar, Mitsubishi, Mercedes Benz, Nissan, Toyota



### BRAKE SPRING COMPRESSOR

- For removing and installing brake shoe retaining springs on vehicles with drum brakes
- Notched design for washers with ear tabs
- Ergonomic plastic handles



Part No.	Washer Size	Overall Length
<b>310256</b>	8 - 24mm	150mm



**BRAKE PISTON REMOVAL KIT**

- Designed for caliper piston removal to allow easy piston seal replacement
- Enables frozen or seized caliper pistons to be removed or freed from caliper
- Three adaptor sizes provided with various working ranges
- Simply insert tool into caliper, adjust adaptor to size and turn handle to release piston
- Supplied in custom moulded plastic hard case



Part No.	Description	Size Range	Overall Length	Jaw Opening (Max)
<b>310376</b>	Head	25 - 35mm	150mm	40mm
	Adaptor A	35 - 45mm		
	Adaptor B	45 - 55mm		



310257



310258

**BRAKE SPRING PLIERS**

HEAVY DUTY

- Used to remove and install brake shoe retaining springs on drum brakes
- Socket end removes spring from anchor stud and notched end installs spring on anchor
- 310258: Provides the extra leverage as required for servicing hydraulic wedge type and "S" cam air brakes used on many trucks and trailers
- Manufactured from chrome plated vanadium steel
- Spares: Replacement pins to suit 310258 (Part No. 310270 - Single hook & Part No. 310271 - Double hook)



310257

Part No.	Description	Overall Length	Spares
<b>310257</b>	Brake spring pliers	300mm	-
<b>310258</b>	Brake spring pliers - Truck	660mm	310270 & 310271



**BRAKE CALIPER PISTON WIND BACK KIT**

PNEUMATIC

- Pneumatic operation enables easier wind back of caliper piston to resting position during removal, installation or service repairs on the disc brake pads
- Professional trade kit suitable for both left and right handed applications
- Suitable for both wind back and push back brake calipers
- Supplied in custom moulded plastic hard case

Part No.	Application	Adaptors
<b>310375</b>	L & R hand piston & wind back calipers	15

Item Ref.	Application (F = Front, R = Rear)	Image	Item Ref.	Application	Image
0	GM most 2 1/2" diameter pistons		8	GM most 1 7/8" diameter pistons	
2	Citroen XM - Xantia (F&R), Honda		9	GM most 2 1/8" diameter pistons	
3	Audi (F), Fiat, Alfa Romeo (F), Ford Fiesta (F), Isuzu (F), Jaguar XJ6, XJ40 (F&R), BMW 318is, 320i, 325TD, 518i, 525i & 1x, 740i, 850ci, M5 (F), Mercedes Benz 190, 200, 300, 400, 500 series (F), Mitsubishi Colt (F), Toyota Camry (F), Volvo, Volkswagen Passat, Golf GTI (F)		A(Z)	Renault R21, Laguna (R)	
			E	Nissan Maxima, Ford	
4	Ford Australia & NZ, Mazda (R), Fiat, Toyota, Saab 9000 (R), Alfa Romeo 164 2.0 (R), Honda Prelude, CRS 16i		F(G)	Opel (R)	
5	3/8" adaptor		K	Ford Motors, Mini R68, Mazda 3	
6	Nissan Primera, Volkswagen Golf IV		M	SAAB, Honda, Alfa Romeo, VAG	
7	Audi 80, 90, V8 + 100, Coupe E (R), Subaru L + Z (R), Ford, Nissan Bluebird 1.8 Turbo, Silvia Turbo, Primera 2.0i LS/ GS/GSX (R), Peugeot, Toyota Celica, Corolla GT, MR2 (R), Volkswagen Golf Gti, Jetta Synchro, Jetta Gti 16v, Passat, Citroen, Alfa Romeo, Fiat, Honda, Jaguar, Renault, SAAB, Seat		N	Citroen	

**BRAKE**



**BRAKE CALIPER SPREADER & RETRACTOR RATCHETING**

- Simple and efficient tool designed to easily retract the brake piston during brake pad replacement
- Quick change lever enables easy change from spreading to retracting
- Centred ratchet evenly distributes force to prevent misalignment of pistons
- Easy to use ratchet style rotates 360° so the tool can be placed in any position



Part No.	Description	Spread	Spreader Plates	Overall Length
<b>310377</b>	Individual spreader	40 - 65mm	115 x 60mm	270mm
<b>310380</b>	Spreader kit	40 - 65mm	90 x 60mm, 148 x 60mm, 180x 60mm	270mm



**BRAKE/FUEL LINE CRIMPING PLIERS**

- Designed to shut off (restrict) flow of fluid
- Rounded jaws provide a damage free secure grip, ring lock to hold the plier in the selected position
- Suitable for hydraulic brake and clutch lines, hydraulic oil lines and air lines etc.
- Manufactured from chrome treated alloy steel

Part No.	Hose Capacity	Jaw Opening (Max)	Jaw Width	Overall Length
<b>301026</b>	5-12mm	14mm	6mm	165mm



**DISC BRAKE PISTON CUBE REAR**

- Used to return the brake caliper piston to the resting position when removing, installing or carrying out service repairs to the disc brakes
- Rotates the parking brake-activated piston back into the caliper cylinder during replacement worn pads on vehicles
- Designed to fit five different cavity configurations and most popular vehicles
- Each face of the cube has a different pin configuration
- Manufactured from heavy duty carbon steel



Part No.	Square Drive	Size (Pins not included)
<b>310269</b>	3/8"	30 x 30mm



**BRAKE ADJUSTING TOOLS**

- For use when removing, installing or carrying out brake lining adjustment on drum brakes
- Perfectly shaped during manufacture to probe drum brake backing plates during adjustment
- Suitable for screw and start type adjusters



Part No.	Description	Width	Overall Length
<b>310266</b>	Standard	8.5mm	132mm
<b>310255</b>	Heavy duty	14mm	185mm

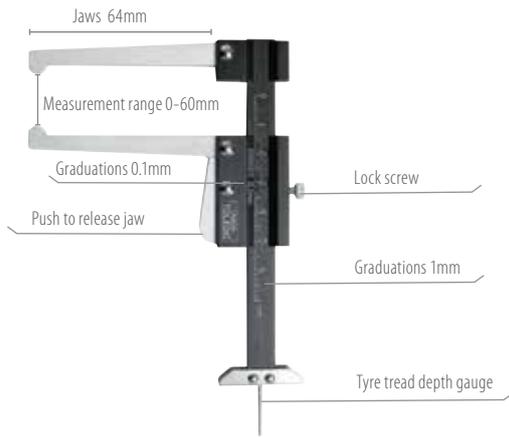


**HOSE PINCHERS ANVIL STYLE**

- Designed to allow variable adjustment, through wing nut and screw, to stop or restrict flow as required without damage
- Anvil style allows maximum clamping force without damaging hose
- Suitable for hydraulic brake and clutch lines, hydraulic oil lines and air lines etc.
- Manufactured from plated steel for strength and durability
- Simple, effective and safe



Part No.	Jaw Opening (Max)	Pieces
<b>301027</b>	22mm	2



**DISC BRAKE & TYRE DEPTH GAUGE**

- Simple and easy to use tool used to attain measurements of disc brake thickness and tyre tread depth
- Floating jaw assembly enables easy removal of caliper from disc while retaining the gauge reading
- Graduated main body and graduated sliding bar with locking screw
- Durable aluminium construction



Part No.	Measuring Range	Graduated Body	Graduated Sliding Bar
<b>310020</b>	0 - 60mm	1mm	0.1mm



**HOSE CLAMPING PLIER SET  
ALUMINIUM 3PIECE**

- For shutting off (restricting) flow of fluid or vacuum
- Individual slide lock mechanism for one handed operation
- Robust design made from aluminium for a long service life
- Completely resistant to common workshop fluids



Part No.	Size	Jaw Opening (Max)	Jaw Depth	Overall Length	Qty
<b>321105</b>	Small	16mm	16mm	150mm	1
	Medium	26mm	31mm	180mm	1
	Large	65mm	71mm	245mm	1

**HOSE CLAMPING PLIERS  
REINFORCED NYLON**

- For shutting off (restricting) flow of fluid or vacuum
- Individual slide lock mechanism for one handed operation
- High visibility coloured non-conductive material
- Ideal for use on brakes, fuel, heaters, radiators, vacuum hoses
- Chemical resistant nylon is resistant to most automotive chemicals, brake fluid, fuel, mineral and synthetic oils etc.



301022



301024



301023



321028



321029



Part No.	Description	Jaw Opening Max	Jaw Width	Overall Length	Pieces
<b>301022</b>	Hose clamping plier	20mm	10mm	150mm	1
<b>301023</b>	Hose clamping plier	33mm	12mm	185mm	1
<b>301024</b>	Hose clamping plier	65mm	12mm	255mm	1
<b>321028</b>	Hose clamping plier w/quick release spring lock	40mm	12mm	220mm	1
<b>321029</b>	Hose clamping plier set - Angled tip 90° (n/a individually)	18, 22, 40mm	9, 12, 13mm	155, 165, 225mm	3
<b>301025A</b>	Hose clamping plier set - 4 x 301022	20mm	10mm	150mm	4
<b>301025</b>	Hose clamping plier set - 1 x 301022, 301023 & 301024	20, 33, 65mm	10 & 12mm	150, 185, 255mm	3

**BRAKE**



**FLUID QUICK LOCK FUEL SET**

- Multipurpose kit for clamping and sealing automotive pipes
- Supplied with 3 dies for pipe sizes 4-10mm and 1 specialty die for banjo pipes
- Suitable for brake lines, fuel lines, hydraulic lines etc.
- Supplied in custom foam tray and plastic storage case

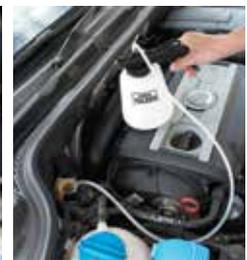
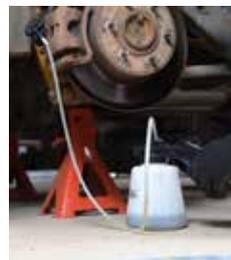


Part No.	Size Range	Clamps
<b>321034</b>	4 - 10mm	4



**BRAKE BLEEDER/FLUID EXTRACTOR KIT PNEUMATIC 1L**

- Air operated brake bleeder simplifies bleeding of brake and clutch systems in automotive applications
- Unique rubber adaptor provides a tight seal around the bleed nipple to ensure leak free operation
- Uses standard workshop air supply via 1/4" BSP airline fitting
- Perfect addition for any workshop or DIY use
- Spares: Replacement hose set (Part No. 305093A)



Scan here for video



Part No.	Capacity	Extraction Rate	Working Pressure	Air Inlet	Spares
<b>310005</b>	1L	1.6L/Min.	90 - 170 psi	1/4"	305093A

**BRAKE BLEEDER & AUTO FILLER KIT PNEUMATIC 2L**

- Turns brake and clutch system bleeding into an easy, quick task
- Includes both vacuum bleeder unit (2L) and auto filler unit (1L)
- Standalone brake bleeder that uses vacuum to "suck" the fluid out
- Fixing valve and safety cup for automatic cut-off extractor
- By "sucking" the fluid away the risk of sudden spillage is significantly reduced
- Suitable for bleeding hydraulic brake and clutch systems by gravity feeding the fluid and extracting old fluid from nipple
- No need to have a pressure tight seal on those difficult access master cylinder reservoirs
- Uses standard workshop compressed air supply to generate vacuum
- Light (<1Kg), portable and single handed operation
- Supplied with 1 metre silicone hose with universal rubber adaptor suitable for most vehicles brake oil bleeder fittings
- Auto Filler Unit: Handy unit attaches directly to the top of the reservoir (space permitting) ensuring the reservoir does not run dry during the bleeding process
- Spares: Replacement hose set (Part No. 305093A)



Part No.	Capacity	Working Pressure	Air Inlet	Spares
<b>305093</b>	2L	40 - 170psi	1/4"	305093A





**BRAKE BLEEDER KIT**  
ONE MAN MAGNETIC

- Designed for carrying out one man brake bleeding operation on passenger cars, light commercials and motorcycles
- Easy to use kit includes powerful magnet to secure bottle hands free, three nylon adaptors to fit all brakes and plastic bottle for discharged fluid collection
- One man operation with no assistance needed



Part No.	Capacity	Hoses
<b>310261</b>	60ml	2 x 160mm & 1 x 500mm

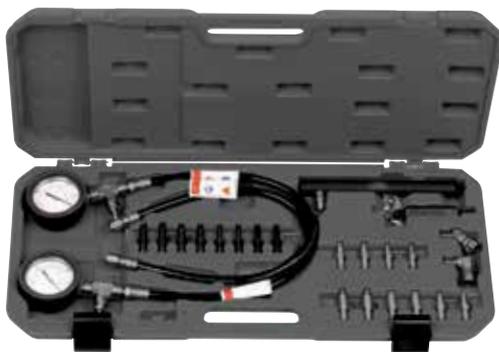


**BRAKE BLEEDER PUMP KIT**  
VACUUM

- Multi-purpose kit designed to test and service a number of automotive system functions including one-man brake bleeding, vacuum testing and pressure testing fuel systems
- Suitable for passenger vehicles and light commercials where testing for vacuum or fluid sealing is required
- Applicable for testing vacuum operated sensors and components including heater and air conditioning baffles, PCV & EGR valves etc.
- Supplied in custom moulded plastic hard case



Part No.	Description	Specifications	Qty
<b>310012</b>	Hand pump	Vacuum range: 0 to -30psi (0 to -1bar)	-
		Pressure range: 0 to 60psi (0 to 4bar)	-
	Bleeder Pack	Small nipples 30mm	4
		Cone 28mm	2
		Long nipple 50mm & 57mm	1
		Large cone 45mm	1
	Hose reducer adaptor	Ø 5mm & Ø 7mm	1
	Bleed nipple adaptors	Ø 6mm & Ø 8mm	3
	Hose pack	80mm	2
		95mm	2
	Connector pack content	Ø 10mm x Ø 6mm	1
		Ø 8mm x Ø 6mm	1
		Ø 7mm x Ø 7mm	1
		Ø 7mm x Ø 5mm	1
	Reservoir bottles	120ml	2



**BRAKE PRESSURE TEST KIT**  
UNIVERSAL

- Comprehensive universal brake system pressure test kit used for testing and diagnosing hydraulic system faults
- Tests for problems such as leaks and restrictions within the hydraulics of both anti-lock and conventional braking systems
- Applicable for non-ABS systems, ABS systems, Teves systems and Bosch systems
- Each gauge is equipped with easy to read dials and bleeder valve
- Includes swivel fitting 45° & 90°, pressure adaptor, Teves adaptor and metric and imperial bleeder screws
- Supplied in custom moulded plastic hard case



Part No.	Gauges	Hose Working Pressure	Bleeder Screws
<b>310400</b>	2 x 3000psi (200 bar)	4500psi	1/4", 5/16", 3/8", 7/16", M7 x 1.0, M8 x 1.25, M10 x 1.0, M10 x 1.5



**BRAKE BLEEDER WRENCH SET**

- Compactly designed universal brake bleeder wrench set for simple and efficient bleeding of hydraulic clutch and brake systems without removing wheels
- Colour coded bleeder nipples for easy identification
- Comes with transparent silicon hose with one way check valve
- Suitable for passenger vehicles, light commercial vehicles, heavy vehicles, motorcycles
- Six-point socket at one end and bleeder nipples at opposing end
- Supplied in custom moulded foam tray in plastic hard case



Part No.	Fastener Type	Wrench Sizes	Wrench Length	Hose Length
<b>310007</b>		7, 8, 9, 10, 11mm	120mm	1.2m

**BRAKE**



**TUBE BENDERS**

- Workshop tube benders suitable for aluminium, brass, copper and mild steel tubing
- Knurled handles for maximum grip and comfort
- Simple and efficient operation with built in gauge to ensure accurate bending from 0 - 180°
- Durable metal construction for superior toughness and longevity



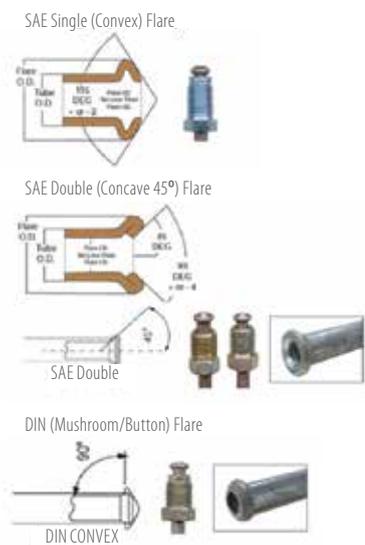
**TUBE BENDER  
PLIER STYLE**

- Plier style is easy to use and supplied with two roller adaptors
- Roller adaptors lock into place with locating pin
- Suitable for bending copper and steel without kinking or flattening
- Place tube between adaptor and stud then squeeze handle to make the necessary bend



Part No.	Tube Capacity	Overall Length
<b>301034</b>	6, 8, 10mm	260mm
<b>301036</b>	4, 6, 8, 10mm	300mm

Part No.	Tube Capacity	Overall Length
<b>301698</b>	3/16", 1/4", 5/16", 3/8"	260mm



**FLARING TOOL KIT  
MECHANICAL & HYDRAULIC**



- Professional hydraulic flaring tool kit provides high quality pipe flaring
- Suitable for various applications including brake and clutch lines, automatic transmission lines and plant hydraulic lines etc.
- Convenient and easy to use hand held unit with powerful 8T hydraulic ram
- Comprehensive all in one kit includes hydraulic flaring tool with dies and punches, deburr tool, tube bender and cutter
- Suits: aluminium, brass, copper and mild steel pipe
- Produces: Double /SAE 45° flared, DIN/ISO double flare, AN /JIC 37°single flare
- Automotive applications: There are two basic types of flares used on OEM automotive brake systems throughout the world. The SAE Double flare and the DIN flare. The SAE style is most commonly found in American and Asian car markets, while DIN is more common in European and British markets.
- Spares: Replacement die sets and punches (Part No. 310006A - 310006J)

Part No.	Die set	Image	Punch	Image
<b>310006</b>	310006A Die set 3/16", 4.75mm		310006E Punch 3/16", 4.75mm, 5.0mm (DIN)	
	310006B Die set 5mm		310006F Punch 3/16", 4.75mm, 5.0mm (OP 1)	
	310006C Die set 6mm		310006G Punch 1/4", 6mm (DIN)	
	310006D Die set 1/4"		310006H Punch 1/4", 6mm (OP 1)	
			310006J Punch 3/16", 4.75mm, 5.0mm, 6.0mm, 1/4" (OP 2)	



301701

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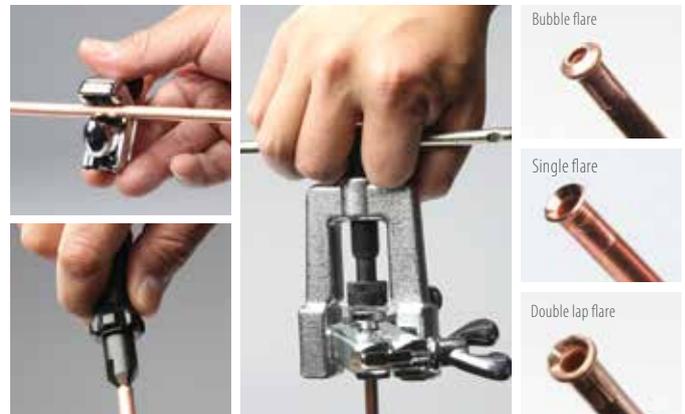


310008

**FLARING TOOL KITS**  
MECHANICAL

- Extensive pipe and tubing manipulation kits for copper, brass, mild steel and aluminium type tubing
- For creating single, double lap and bubble flares on copper, brass, mild steel and aluminium tubing in metric and imperial sizes
- Suitable for hydraulic brake and clutch lines, transmission oil lines, high pressure hydraulic lines and air lines etc.
- Both kits include tube cutters and 310008 also includes a deburring tool
- Supplied in custom moulded plastic hard case

Part No.	Description	Tube Cutter (O.D.)	Flaring Adaptors
<b>301701</b>	Flaring tool kit - Metric	3 - 16mm (1/8" - 5/8")	4.75, 5, 6, 8, 10mm
<b>310008</b>	Flaring tool kit - Metric & Imperial	3 - 16mm (1/8" - 5/8")	4, 4.75, 6, 8, 10mm & 3/16", 1/4", 5/16", 3/8", 1/2"



301032



301033

**FLARING & SWAGING KIT**

- Comprehensive kit includes drop forged vanadium steel yoke and die blocks for carrying out cold swaging and flaring
- Range of adaptors and two die blocks accommodate 3mm to 20mm tubing
- Suitable for use on copper, brass and aluminium tubing
- Supplied in custom moulded plastic hard case

Part No.	Application Sizes
<b>301300</b>	3mm 1/8" (flaring only), 5mm 3/16", 6mm 1/4", 8mm 5/16", 10mm 3/8", 16mm 5/8", 20mm 25/32"

**TUBE CUTTERS**

- Wide dual wheel roller design for neat and square tube cutting
- Metal construction with hardened SK2 alloy steel cutting wheel
- Suitable for use on plastic, brass, copper, aluminium and mild steel tubing
- Ideal for automotive, plumbing, industrial and hardware applications
- Tapered burr remover to clean piping after cutting (301033 only)
- Spares: Replacement blade set 2 Pc. (Part No. 301142)

Part No.	Description	Size Range	Spares
<b>301032</b>	Mini tube cutters	3 - 15mm (1/8" - 9/16")	301142
<b>301033</b>	Tube cutters	3 - 30mm (1/8" - 1 1/8")	301142



## BRAKE

### DEBURRING TOOLS

- Designed for removing internal and external surface burrs following cutting or drilling
- Suitable for materials having spiral chips such as steel, aluminium, copper and zinc
- Ergonomic handle and versatile swivel blade for manoeuvrability to work at any angle - 301295 is supplied with additional HSS M35 grade blade
- Spares: Replacement blade for 301295 (Part No. 301295A)



301295



321058

Part No.	Description	Blade	Tube Size	Tube diameter	Spares
<b>301295</b>	Deburring tool 150mm - Universal	8mm	-	-	301295A (each)
<b>321058</b>	Deburring tool - master 6 in 1	1	14mm	Ø 2mm	
		2	16mm	Ø 2mm	
		3	18mm	Ø 2mm	
		4	20mm	Ø 2mm	
		5	26mm	Ø 3mm	
		6	32mm	Ø 3mm	



## BEARING



321084



321085

### BEARING RACE & SEAL DRIVERS ADJUSTABLE SIZING UNIVERSAL

- Aluminium all in one self contained precision drivers with rotating handle and expanding jaws to seat races/bearings or seals with ease
- Three stepped jaws quickly adjust eliminating the need for a driver and several different heads
- Lock bolt holds the jaws to the preferred diameter (allen key included)
- Simple to use: twist the head to adjust seal driver sizing
- Two options available covering different size ranges

STEP 1



STEP 2



STEP 3



Part No.	Size Range
<b>321084</b>	9.5 - 50mm (3/8" - 131/32")
<b>321085</b>	18 - 90mm (45/64" - 135/64")



### OIL SEAL REMOVER

- Specially designed tool enables a hook and lever action to dislodge oil and grease seals
- Different sized hook ends to cover a wide range of small and large seal applications
- Ergonomic plastic handle for comfort and manoeuvrability
- Suitable for removing seals in automatic and manual transmissions, differentials, wheel bearing seals etc.
- Includes spare hook tip and retaining screws

Part No.	Overall Length
<b>301042</b>	310mm



### BEARING & OIL SEAL INSTALLATION KIT

- Comprehensive kit covering various sizes to assist in the installation of bearings, race and oil seals
- Manufactured from aluminium for damage free bearing and oil seal replacement
- Supplied in custom moulded plastic hard case



Part No.	Tapered Cones	Driver Length
<b>301350</b>	9	140mm
Contents	Size Diameter	Qty
301351	Ø 40mm	1
301352	Ø 44mm	1
301353	Ø 50mm	1
301354	Ø 60mm	1
301355	Ø 63mm	1
301356	Ø 65mm	1
301357	Ø 72mm	1
301358	Ø 76mm	1
301359	Ø 80mm	1
301360	Driver shaft 140mm	1



### BEARING/HUB CAP REMOVER

- Tapered jaws are designed to sit behind the crimped edge of the bearing dust cap
- Also suitable as a hub cap remover via the inbuilt hub cap lug on the handle

Part No.	Jaw Opening (Max)	Overall Length
<b>301041</b>	20mm	200mm



305150



305230



305161

### BEARING PACKERS

- Range of bearing packers designed to flush out old grease from bearings without having to degrease bearings first
- Simple to use units - Insert bearing into the bearing packer, connect grease gun to nipple pump to expel grease and evenly replace with fresh grease
- Grease can be filled manually or with a grease gun
- Suitable for cars, trailers, light trucks and motorcycles

Part No.	Description	Bearing Capacity I.D. (Min)	Bearing Capacity O.D. (Max)	Working Height (Max)
<b>305150</b>	Portable bearing packer	10mm (25/64")	95mm (3 47/64")	50mm (1 31/32")
<b>305230</b>	Threaded centre bearing packer	12mm (15/32")	125mm (4 59/64")	50mm (1 31/32")
<b>305161</b>	Heavy duty bearing packer	30mm (1 3/16")	170mm (6 11/16")	50mm (1 31/32")



### WHEEL BEARING KIT FRONT WHEEL DRIVE HUB

- Comprehensive kit specifically designed for replacement of front wheel bearings on front wheel drive vehicles
- Allows removal and replacement of the front wheel bearings without removing the steering knuckle or strut assembly
- Eliminates the need for front end wheel alignment after bearing replacement
- Suitable for most common front wheel drive vehicles and some rear wheel hub applications
- Universal bearing and seal driver tools manufactured from heavy duty chrome-molybdenum for strength and durability
- Supplied in custom moulded plastic hard case

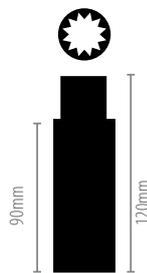
Part No.	Size Range	Pieces
<b>301260</b>	55.5 - 90mm	13

BEARING



WHEEL HUB NUT TOOL SET

- Suits front wheel hub fasteners on later model vehicles requiring longer sockets for hard to reach hub nuts
- Bi-Hex deep impact sockets are 120mm long with 91mm clearance
- Hardened sockets made from chrome vanadium and chrome molybdenum with black phosphate finish
- Supplied in custom moulded plastic hard case



Part No.	Sizes	Square Drive	Pieces
<b>311017</b>	14, 17, 19mm (Cr-Moly) 24, 27, 30, 32, 36mm (Cr-Van)	3/4"	8



WHEEL BEARING LOCK NUT WRENCH SET  
ADJUSTABLE

- Adjustable wrench tool kit for the removal of wheel bearing lock nuts
- Adjustable jaws to suit both 6 and 8 point wheel bearing lock nuts
- Locking mechanism ensures jaws are rigid to prevent slipping on narrow lock nuts
- Includes three pairs of pins for use on pin type locknuts
- Ideal for 4WD applications
- Supplied in custom moulded plastic hard case

Part No.	Size Range	Pin Diameter	Torque (Max)
<b>311014</b>	45 - 145mm	Ø 6 x 43mm (2 Pc.) Ø 8 x 43mm (2 Pc.) Ø 10 x 43mm (2 Pc.)	677nm (500ft. lb)

DRIVELINE & TRANSMISSION



CLUTCH ALIGNING TOOL  
UNIVERSAL

- Tapered cone design for quick and easy assembly, alignment and installation of clutch assemblies
- Designed to easily align clutch assembly during replacing on passenger and light commercial vehicles
- Applicable for single plate clutches with centre pilot bearing bush on flywheel
- Robust metal construction for strength and durability
- Not suitable for dual clutch assembly

Part No.	Adaptor Sizes
<b>306219</b>	15, 16, 17, 19, 20, 21, 25mm



CLUTCH ALIGNING TOOL  
FRONT WHEEL DRIVE

- Unique cone design for use on front wheel drive vehicles without a flywheel pilot bearing
- Allows the clutch plate and pressure plate to be assembled off car
- Supplied with expanding collets for adjustable sizes
- Suits most cars and LCVs up to 5 tonne
- Not suitable for dual clutch assembly
- Manufactured from chemical resistant ABS plastic

Part No.	Collet Size Range	Cone Size	Overall Length
<b>306218</b>	14 - 28mm	35 - 67mm	120mm



**CLUTCH ALIGNMENT MASTER KIT**  
SELF ADJUSTING

- Specialty tool kit designed for easy and damage free removal and installation of self-adjusting clutches
- Suitable for dismantling and mounting of 6 and 8 hole self-adjusting clutch applications
- Enables easy and correct alignment of the clutch plate by keeping everything centred during fitment
- Unique design enables efficient adjustment and resetting of the automatic adjuster
- Evenly applies pressure during fitting and features all the necessary tools to complete the clutch change without deforming or damaging the delicate clutch plate
- Suitable for vehicles that have a self-adjusting clutch fitted
- Common applications include BMW, Fiat Group, Mercedes, Opel, Renault, Volvo and VAG
- Supplied in custom moulded plastic hard case

Note: Not suitable for DSG transmissions



Part No.	Applications
<b>306002</b>	6 & 8 hole

**TRANSMISSION FILLING SYSTEM**  
UNIVERSAL

- Specialty tool system designed to easily and efficiently refill or top up transmissions
- Suitable for various transmission systems including DSG, steptronic, CVT, dual-clutch automated manual etc.
- Easy fill up port and smooth hand pump for controlled flow
- Convenient on/off tap to prevent spillage and overfilling
- Manufactured to withstand automatic transmission fluid
- Supplied with transparent hose 3/8" x 1.3m
- Includes 18 adaptors to cover the majority of the Australian car parc
- Spares: Replacement hose assembly (Part No. 306100A)



Scan for application list

Part No.	Description	Capacity	Spares
<b>306100</b>	Transmission filling system	7.5L	306100A

**ADAPTOR LISTING**

Contents	Ref.	Adaptor Specifications	Image	Contents	Ref.	Adaptor Specifications	Image
306101	AT113	M8 x 1.0		306110	AT108	M22 x 1.5	
306102	AT105	M10 x 1.0		306111	AT107	M24 x 1.5	
306103	AT112	M10 x 1.0		306112	AT111	M30 x 1.5	
306104	AT117	M10 x 1.5		306113	AT101	1/8" x 27NPT	
306105	AT118	M12 x 1.25		306114	AT109	5/16" x 24UNF	
306106	AT106	M12 x 1.5		306115	AT102	Universal	
306107	AT116	M14 x 1.5		306116	AT103	Universal	
306108	AT110	M18 x 1.5		306117	AT104	Universal	
306109	AT115	M18 x 1.5		306118	AT114	Universal	



**CV BOOT CLAMP INSTALLER**

- Installs low-profile clamps used to hold CV boots on most front wheel drive vehicles
- Ratcheting action and inbuilt cutter, fasten clamps swiftly and securely
- Also suitable for steering rack boot installation

Part No.	Band Width (Max)	Overall Length
<b>311288</b>	10mm	200mm



**CV BOOT CLAMP PLIERS**

- For fastening of clamps on CV boots, fuel hoses and water hoses without causing damage to spring band clamps and hoses
- Easily replace hoses and prevent them slipping off when opening the clamp
- Suitable for double ear clamps and other CV boot clamp types
- 1/2" square drive suitable for torque wrench attachment when specific torque settings are required
- Manufactured from chrome vanadium steel with black phosphate finish and PVC dipped handles



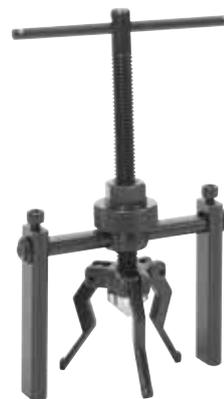
Part No.	Jaw Opening (Max)	Jaw Width	Overall Length
<b>311009</b>	12mm	11mm	240mm



**OIL SEAL PLUG SET**  
UNIVERSAL 5PC

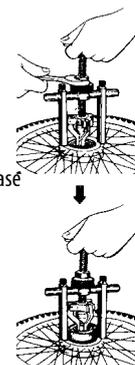
- Stops loss of transmission and transaxle fluids during service or repair
- Five stepped design to retain a positive seal
- HOLLOWED internal section plugs enable excess fluid to be captured and avoid spillage
- Manufactured from high quality plastic for strength and durability
- Includes side gear centring tool to suit Ford

Part No.	Description		
<b>312000</b>	Oil Seal Plug Set		
Description	Size 1	Size 2	Qty
Adaptor 1	25 - 27mm	28 - 30mm	1
Adaptor 2	33 - 35mm	36 - 38mm	1
Adaptor 3	40 - 42mm	44 - 46mm	1
Adaptor 4	48 - 50mm	52 - 54mm	1
Adaptor 5	Side gear centring tool to suit Ford		1



**PILOT BEARING PULLER**  
MECHANICAL 3-JAW

- Compact internal pilot bearing puller designed to extract flywheel, generator and spigot transmission pilot bearings and bushes without tilting the bearings or damaging the bearings race
- Also suitable for extracting bearings from motorcycle wheels, alternators and pumps without any distortion
- Adjustable support legs with locking screws
- Adjustable centre cone applies pressure on to jaws to grip on to bearing
- Small and handy unit supplied in custom moulded plastic hard case
- Applications include cars, trucks, motorcycles, bicycles and tractors
- For further information and specifications on this kit see the automotive pullers section page 273



Scan here for video



Part No.	Internal Diameter Range (Min - Max)	Overall Length
<b>245464</b>	Ø 13 - 45mm	240mm



**BANDING TOOLS**  
WITH CUTTER

- Crank handle with inbuilt cutting assembly to enable band style clamps to be tightened and cut-in during installation

Note: CT1 will not crimp the clamp or band. Crimping is achieved by using Tridon Uniband Buckles available in 3 types (UBL, UBF and UBS part numbers)

Part No.	Application	Capacity	Overall Length
<b>301104</b>	Band style clamps on CV boots	10mm (3/8")	230mm
<b>CT1</b>	Tridon uniband (UB) clamps & strapping	25mm (1")	420mm



**FLUID RETAINING TOOL**  
AUTOMATIC TRANSMISSION

- Designed to locate within the gearbox after tail shaft removal
- Prevents ATF and gearbox fluid spills or leaks
- Ideal for use during gearbox and drive train repairs and maintenance
- Suitable for most vehicle transmissions and gearboxes

Part No.	Depth A/B	Internal Diameter A/B	External Diameter A/B	Thickness	Overall Length
<b>306217</b>	85/51mm	∅ 32/36mm	∅ 37.5/42mm	3mm	138mm



**CV BOOT INSTALLATION TOOL**  
PNEUMATIC

- Specialised tool designed to stretch the CV boot over the CV joint without the need to dismantle the CV shaft
- Durable and lightweight construction with an inbuilt airflow controller allows complete portability and ease of use
- Not suitable for plastic type CV boots
- Air inlet: 1/4" BSP



Part No.	CV Boot Diameter	Working Pressure	Air Pressure (Max)
<b>311018</b>	25 - 110mm	72 - 113psi	125psi



**HUB PULLER KIT**  
MECHANICAL & HYDRAULIC

- Universal adjustable mechanical hub puller for various stud patterns up to five studs
- Free movement legs (5) on a raised yoke assembly allows quick and easy attachment to vehicle hubs
- Heavy duty striking handle allows the application of shock force for rapid removal of stubborn hubs
- Manufactured from drop forged high quality steel, heat treated for strength and durability
- Suitable for passenger cars and commercial vehicles
- Supplied in custom moulded plastic hard case
- For further information and specifications on this kit see the automotive pullers section page 273



Part No.	Reach	Spread	Capacity
<b>270000</b>	190mm	120 - 215mm	10 tonne



**HUB PULLER KIT**  
SLIDE HAMMER

- Multi-purpose design for the removal of front and rear hubs, bearing oil seal bushes and flange type axles
- Includes slide hammer with multiple attachments including 2 and 3 jaw internal and external puller, front and rear hub pullers and various accessories
- Supplied in custom moulded plastic hard case
- *For further information and specifications please see the automotive pullers section page 273*

Part No.	Slide Hammer Assembly	Twin/Triple Head Width
<b>245300</b>	2.3kg x 600mm	65/50mm



**HUB PULLER KIT**  
SLIDE HAMMER HEAVY DUTY

- Suitable for both mechanical slide hammer and hydraulic operation
- Truly universal design with ten slot positions to suit any stud pattern
- Pulls flange-type rear axles on most late model passenger cars and light trucks
- T-type hex head for either hand or torque wrench use
- Suitable for 4 and 5 stud axles
- Supplied in custom moulded plastic hard case
- *For further information and specifications please see the automotive pullers section page 274*

Part No.	Hydraulic Ram	Slide Hammer Assembly
<b>269013</b>	10T	2.8kg x 600mm



**HUB SEPARATOR KIT**  
UNIVERSAL HEAVY DUTY

- Universal hub separator set is designed for removing hubs on popular front wheel drive vehicles
- Durable ACME threaded forcing and adjusting screws ensure long product life
- *For further information and specifications please see the automotive pullers section page 276*

Part No.	Applications
<b>245440</b>	Daihatsu, Fiat, Ford, GM, Honda, Hyundai, Mazda, Mitsubishi, Nissan, Renault, Saab, Subaru, Suzuki, Toyota, Volkswagen

ENGINE



**VALVE SPRING COMPRESSORS**  
ADJUSTABLE LEVER CAM

- For use in the removal and servicing of engine valves and seals during cylinder head or engine repair
- Suitable for use on a wide range of OHC, OHV, CVH valve applications
- Available in various cam lock lever designs featuring adjustable capacity, locked and reversible jaws
- Premium quality steel construction ensures safe operation and tool longevity

Part No.	Description	Jaw Opening	Collet Size	Throat Clearance
<b>304181</b>	Valve spring compressor - Adjustable jaw	75 - 145mm	25 - 42mm	165mm
<b>304182</b>	Valve spring compressor - Straight & offset jaw	75 - 185mm	25mm	250mm
<b>304183</b>	Valve spring compressor - Dual size collet adaptors	25 - 120mm	25 & 30mm	250mm
<b>304184</b>	Valve spring compressor - Fixed jaw	75 - 130mm	25mm	150mm



304185



304186



304187



304039

**VALVE SPRING COMPRESSORS**  
PULLER TYPE

- For use in the removal and servicing of engine valves and seals during cylinder head or engine repair
- Puller type design allows access in confined space
- Suitable for use on a wide range of OHC, OHV, CVH valve applications



Part No.	Description	Spread	Reach (Max)	Overall Length
<b>304185</b>	Valve spring compressor - Side valve type	5 - 20mm	20mm	230mm
<b>304186</b>	Valve spring compressor - Puller type	100mm	60mm	130mm
<b>304187</b>	Valve spring compressor - Puller type	100mm	110mm	230mm
<b>304039</b>	Valve spring compressor - Puller type	50mm	60mm	140mm



**VALVE SPRING COMPRESSOR KIT**  
ON CAR

- Enables removal and replacement of valve stem oil seals and valve spring eliminating the need for cylinder head removal
- Universal kit features multi hole adjustable handle and interchangeable valve spring adaptors to enable unlimited setting combinations
- Collet size range: 19 - 33.5mm and universal adaptor



Part No.	Collet/Retainer Size	Pieces
<b>301486</b>	19 - 24, 19.2 - 25.5, 19.2 - 26, 27.5 - 33.5mm & 1 x universal adaptor	8



**VALVE SPRING COMPRESSOR KIT**  
HEAVY DUTY ON CAR

- Enables removal and replacement of valve stem oil seals and valve springs eliminating cylinder head removal
- Retaining flanges are rotatable to enable fixation to the cylinder head length ways, sideways or diagonally
- Adjustable spindles on the left and right side enable the correct height and angle to be achieved between the handle and the pressure piece for compressing the valve-spring
- Adjustable rests allow for infinite size adjustment of the tool length and therefore offer complete universal application for 1 - 12 cylinder engines
- Suitable for use on OHC and DOHC petrol or diesel engines and fits various size valve spring retainers
- Supplied in heavy duty custom moulded plastic hard case

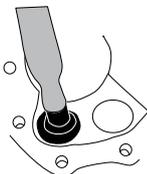


Part No.	Description	Collet / Retainer Size	Application
<b>304050</b>	Valve spring compressor kit	21, 24, 25, 28, 32, 34, 35, 42mm	1 - 12 cylinder engines



**VALVE LAPPING TOOLS**

- For easy resurfacing of valve seats to a professional finish
- Four different size neoprene cups for varying valve diameters
- Resistant to grease, oil and petrol
- Use with appropriate valve lapping compound (not included)
- Manufactured with contoured hardwood handles for comfortable grip



Part No.	Cup Sizes	Overall Length	Pieces
<b>304192</b>	16 x 21, 28 x 35mm	200mm	2



**VALVE LIFTER PULLER**

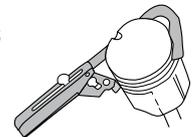
- For use in the removal of hydraulic valve lifters from the lifter bed
- Shaft diameter of 7.5mm to be inserted into the push rod cavity
- Design allows the tip to expand within the lifter and clamp strongly on tappet walls for safe and easy removal

Part No.	Size Range	Overall Length
<b>304188</b>	13 - 19mm	280mm



**PISTON RING GROOVE CLEANER**

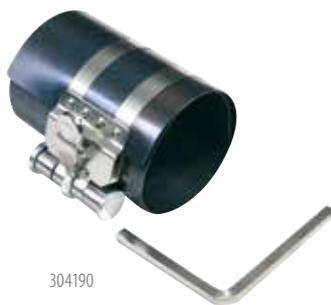
- For cleaning accumulated carbon and material build up inside the piston ring groove
- Three six-sided cutters suitable for both metric and SAE pistons
- Suitable for use on pistons 51 - 127mm (2" - 5")



Part No.	Piston Size	
<b>304193</b>	SAE	1/16", 5/64", 1/8", 5/32", 3/16", 1/4"
	Metric 1	2.0, 2.5, 3.0, 4.0, 4.5mm
	Metric 2	1.2, 1.5, 1.8, 2.8, 5.0, 5.5mm



304189



304190

**PISTON RING COMPRESSORS**

- For quick and easy installation of pistons and rings into the engine cylinders
- Self-locking ratchet assembly and wide band design to enable all piston rings to be compressed in one easy operation
- Spring steel band wraps around the rings and piston
- Adjustable bore diameter using adjusting key provided
- Manufactured from high grade spring steel



Part No.	Description	Size Range	Height
<b>304189</b>	Small piston ring compressor	53 - 125mm (2" - 5")	75mm
<b>304190</b>	Large piston ring compressor	60 - 175mm (2 3/8" - 7")	100mm



**GLOW PLUG SOCKET SET**

UNIVERSAL JOINT 9 PIECE

- Firm gripping sockets for efficient removal and replacement of glow plugs
- Universal joint improves access to difficult and restricted areas
- Includes six sockets, two decarbonising drills and one puller unit
- Manufactured from high grade chrome vanadium steel
- Supplied in custom moulded plastic hard case

Part No.	Socket Size	Decarbonising Drills	Puller
<b>304044</b>	8, 9, 10, 12, 14, 16mm	M12 x 1.25 x 125mm M10 x 1.00 x 135mm	130mm



**GLOW PLUG TEST KIT**  
DIGITAL MULTI-VOLTAGE

- Diagnostic kit used to identify the condition of glow plugs without having to remove them from the vehicle
- Measures and displays resistance of the glow plug to compare against the glow plug specification and identify the condition of the glow plug
- Easy to read professional digital screen and shock resistant rubber moulded casing
- Uses 9v battery with auto switch off function to eliminate wastage
- Suitable for all types of glow plugs ranging from 4 - 24V
- Supplied in custom plastic hard case



**GLOW PLUG CONNECTOR PLIERS**  
ANGLED

- Specialty pliers used to remove stubborn, hard to reach glow plug connectors
- Suitable for most late model vehicles
- Ideal for removing and installing glow plug connectors on BMW, Mercedes-Benz, VAG

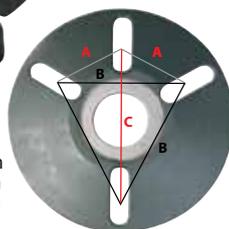
Part No.	Glow Plug Test Range	Battery
<b>304046</b>	4.0 - 24.0V	9V (not included)

Part No.	Jaw Opening	Overall Length
<b>304038</b>	10 - 95mm	235mm



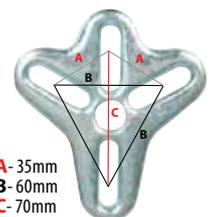
245400

- A** - 40mm
- B** - 75mm
- C** - 85mm



254230

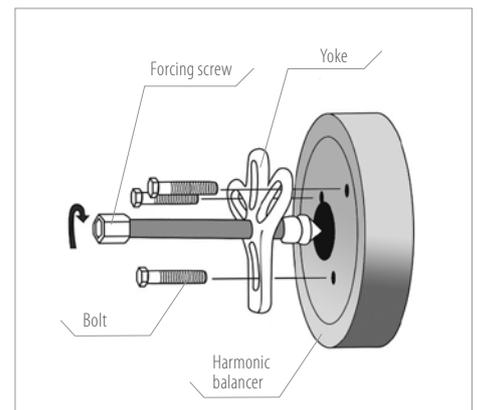
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- A** - 35mm
- B** - 60mm
- C** - 70mm

**HARMONIC BALANCER PULLER SETS**

- Designed for the removal of automotive harmonic balancers, pulleys and gears where access to tapped holes is available
- Varying styles to suit 2 and 3 hole configurations
- Comprehensive 14, 18 or 46 piece sets
- For further information and specifications please see the automotive pullers section page 271



Part No.	Description	Pieces
<b>245400</b>	Harmonic balancer puller & installer set	24
<b>254230</b>	Harmonic balancer master puller set	46

### CYLINDER HONING TOOLS

- Comprehensive range of varying cylinder honing tools for different applications and service work
- Centre spring uses variable spring tension to enable self centring and contact intensity variation with the bore
- Operated via a flexible drive shaft to ensure smooth honing
- All units are supplied with medium grit hone stones. Additional hones available separately
- *Spares: Replacement and additional hone stones available*



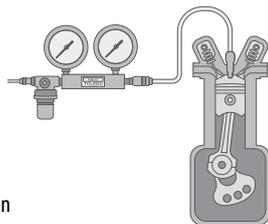
Part No.	Bore Capacity (I.D.)	Legs	Hone Stone Length	Overall Length	Spares - Fine (C#400)	Spares - Medium (C#220)	Spares - Coarse (C#100)
<b>301048</b>	19 - 50mm	3	28mm	210mm	-	301055	-
<b>301046</b>	19 - 64mm	3	50mm	225mm	301052	301053	301054
<b>301049</b>	20 - 64mm	2	28mm	210mm	301056	301057	301058
<b>301045</b>	32 - 85mm	3	50mm	225mm	-	301051	-
<b>301047</b>	32 - 89mm	3	28mm	210mm	-	301055	-
<b>301044</b>	50 - 135mm	3	100mm	365mm	-	301050	301062



### CYLINDER LEAK DOWN TEST KIT PETROL 35PSI & 2.4BAR



- Professional workshop kit provides critical information about the internal condition of a combustion engine
- Used to identify and detect a number of engine faults including: worn piston rings, worn valves, cracks in cylinder walls and blown head gaskets
- Simplifies carrying out leak down tests which can be more accurate than standard compression tests
- Dual gauges show percentage of cylinder leakage and cylinder pressure
- Set contains cylinder leak down tester, 14mm & 18mm adaptor hose and 14mm extension adaptor
- Industrial aluminium construction with heavy duty brass fittings
- Rubber boot on dual gauges to protect against shock impact breakage and cracking
- Supplied in custom moulded plastic hard case



*Note: The purpose of a cylinder leak down test is to determine the percentage of leakage in the cylinder bore indicated by the leakage gauge. This unit functions correctly at 35psi and the appropriate test can be carried out without fault at this pressure rating. At higher pressures (over 40psi) the orifice will become turbulent and non-linear causing the engine to rotate under pressure and subsequently produce inaccurate readings. To perform this test correctly there is no need to operate the unit at 100psi and by design it will not operate at 100psi, despite the dial face being marked to this level. The tool meets all the requirements to correctly and accurately carry out its designed test.*

Part No.	Specifications	
<b>304012</b>	Working pressure	35psi & 2.4bar
	Adaptor size (dual stepped hose)	14mm & 18mm x 1.25
	Flexible hose	600mm



### COMBUSTION GAS LEAKAGE TEST KIT UNIVERSAL

- Diagnose cylinder head and gasket leaks by detecting the presence of combustion gases in the cooling system
- Quick release connector allows easy and efficient use
- Blue liquid will turn yellow within 60 seconds with the presence of a combustion gas, subsequently meaning there is a combustion leak present, no matter the size of the leak
- Suitable for testing the cooling system in water-cooled engines (petrol, diesel & LPG)
- Supplied with tapered rubber cone for universal applications
- Supplied in custom moulded plastic hard case
- *Spares: Replacement detector fluid 250ml (Part No. 304000A)*



*Note: Compatible and recommended for use with Toledo cooling system pressure tester kit Part No. 308500 which features vehicle specific adaptors and a full application list*



Part No.	Fluid Capacity	Spares
<b>304000</b>	250ml	304000A



**OIL PRESSURE TESTER KIT**  
DUAL SCALE 140PSI & 10BAR

- Trade workshop testing unit provides the perfect solution for diagnosing worn oil pumps, pressure switches and oil warning indicators
- Snap coupling adaptors with shut-off valve allow for speed and safe operation
- Permanently primed, long flexible pressure hose (1300mm) and blow-off valve
- The 90° adaptor permits excellent subsidiary access to hard to reach areas
- Superior modern design, compact and organised
- Ideally suited for use by the trade on a wide range of vehicles and stationary motors
- Supplied in custom moulded plastic case



Part No.	Contents	Ref.	Specifications	Image
<b>304400</b>				
304403	1	1	Adaptor No. 1 3/8" x 28 NPT	
304401	2	2	Adaptor No. 2 R1/8 x 27 DIN 2999	
304402	3	3	Adaptor No. 3 1/8" x 18 NPT	
304404	4	4	Adaptor No. 4 3/8" x 20 UNF	
304405	5	5	Adaptor No. 5 1/2" x 20 UNF	
304406	6	6	Adaptor No. 6 M10 x 1.0	
304407	7	7	Adaptor No. 7 M12 x 1.5	
304408	8	8	Adaptor No. 8 M14 x 1.5	
304409	9	9	Adaptor No. 9 M16 x 1.5	
304410	10	10	Adaptor No. 10 M18 x 1.5	
304411	11	11	90° Elbow	
304415	Gauge & hose assembly		Dual scale 140 psi/ 16 bar Ø 60mm Pressure release valve Hose assembly 1300mm Female quick connect fitting	

**OIL PRESSURE SWITCH SOCKETS**

- Suitable for automotive and industrial oil pressure switch applications
- Manufactured from drop forged vanadium steel for maximum strength and longevity

301092

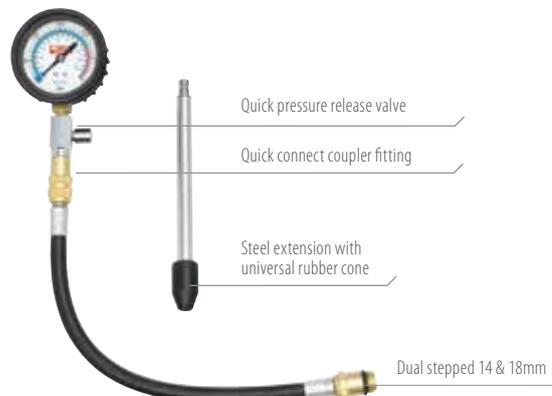


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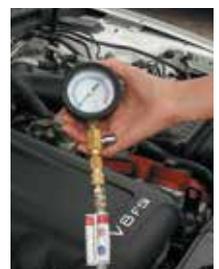


**PETROL COMPRESSION TESTER KIT**  
DUAL SCALE 300PSI & 21KG/CM<sup>2</sup>

- Petrol compression tester for diagnosis of compression related problems on petrol engines
- Gauge: Dual scale 0-300 psi (0-21kg/cm<sup>2</sup>) with pressure release valve
- Suitable for automotive, motorcycle and small engine work
- Each gauge is individually calibrated, checked and dated before leaving the factory



Calibrated dual graduated



Part No.	Hex Size	Square Drive	Overall Length
<b>301092</b>	25mm (1") & 27mm (1 1/16")	3/8"	60mm
<b>301093</b>	30mm (1 3/16")	1/2"	88mm

Part No.	Description	Specifications
<b>304198</b>	Gauge	Dual scale 300psi / 21kg/cm <sup>2</sup> Ø 58mm Pressure release valve Male quick connect coupler
	Flexible hose	Dual stepped thread M14 x 1.25 & M18 x 1.50 x 315mm long Female quick connect coupler
	Steel extension	Universal rubber tipped cone male quick connect coupler x 150mm long

### PETROL COMPRESSION TESTER KIT

DUAL SCALE 300PSI & 21KG/CM<sup>2</sup>

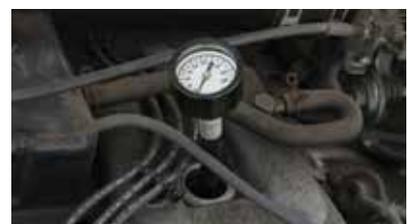
- Petrol compression tester for diagnosis of compression related problems on petrol engines
- Versatile kit provides a quick means of testing cylinder compression pressure on engines with deep, recessed spark plugs and difficult access
- Gauge: Dual scale 0 - 300 psi (0 - 2 1kg/cm<sup>2</sup>) with pressure release valve
- Set contains long flexible hoses to enable better access and eliminating the need to remove secondary equipment such as A/C, power brake, manifold and steering components
- Gauges are individually calibrated, checked and dated before leaving the factory
- Supplied in custom moulded plastic hard case



Part No.	Description	Specifications	Image
<b>304010</b>	Gauge & hose assembly	Digital dual scale 300psi/21kg/cm <sup>2</sup> Ø 55mm Flexible hose 420mm Female quick connect coupler	
	Quick-check gauge & hose assembly	Single scale 200psi Dual stepped thread M14 x 1.25 & M18 x 1.50 x 400mm long	
	Quick connect coupler	46mm	
	Adaptor	M10 x 1.0 x 42mm	
	Adaptor	M12 x 1.25 x 42mm	
	Adaptor	M18 x 1.50 x 64mm	
	Hose (Adaptor)	38mm	
	Flexible Hose	M14x1.25x300mm (short thread 10mm)	
	Flexible Hose	M14x1.25x300mm (long thread 18mm)	
	Flexible Hose	M18x1.50x300mm (short thread 10mm)	
	Service kit	Includes pressure relief valves and seals	



Calibrated dual graduated





**PETROL COMPRESSION TESTER KIT**  
DUAL SCALE 300PSI & 21KG/CM<sup>2</sup>

- Petrol compression tester for diagnosis of compression related problems on petrol engines
- Versatile kit provides a quick means of testing cylinder compression pressure on engines with deep, recessed spark plugs and difficult access
- Tapered cone adaptors for universal applications
- Gauge is individually checked and calibrated at factory
- Gauge: Dual scale 0 - 300 psi (0 - 21kg/cm<sup>2</sup>) with pressure release valve
- Supplied in custom moulded plastic hard case



Calibrated dual graduated



Part No.	Description	Specifications	Image
<b>304009</b>	Gauge	Dual scale 300psi/21kg/cm <sup>2</sup> Ø 58mm Pressure release valve threaded fitting	
	Hose	Dual stepped thread M14x1.25 & M18x1.50 x 190mm long with threaded fitting	
	Adaptor	M10 x 1.0 x 38mm	
	Adaptor	M12 x 1.25 x 38mm	
	Adaptor	M14 x 1.25 x 38mm	
	Adaptor	Universal tapered rubber end straight x 85mm	
	Adaptor	Universal tapered rubber end angled 30° x 85mm	
	Extension	3/8" X 24 UNF (Used with universal adaptors) 100mm	
	Seal & valve kit	Includes pressure relief valves and seals	



**PETROL COMPRESSION TESTER KIT**  
DUAL SCAL 300PSI & 21KG/CM<sup>2</sup>

- Compression tester for diagnosis of compression related problems on petrol engines
- Versatile kit provides a quick means of testing cylinder compression pressure on engines with deep, recessed spark plugs and difficult access
- Tapered cone adaptors for universal applications
- Gauge is individually checked and calibrated at factory
- Gauge: Dual scale 0 - 300 psi (0 - 21kg/cm<sup>2</sup>) with pressure release valve
- Supplied in custom moulded EVA foam tray in plastic hard case



Part No.	Description	Specifications	Image
<b>304175</b>	Gauge	Dual scale 300psi / 21kg/cm <sup>2</sup> Ø 58mm Pressure release valve Female quick connect coupler	
	Heavy duty, flexible high pressure hose	Dual stepped thread M14 x 1.25 & M18 x 1.50 300mm long Stainless steel braided Male quick connect fitting	
	Standard adaptor x 2	M10 x 1.00 x 38mm M12 x 1.25 x 38mm	
	Long reach adaptor	M14 x 1.25 x 60mm	
	Steel extension	Universal rubber tipped cone Male quick connect fitting 150mm long	
	Service kit	Includes pressure relief valves and seals	

### PETROL COMPRESSION TESTER KIT

TRIPLE SCALE DIGITAL 300PSI, 20BAR & 2000KPA

- Compression tester with digital read out for diagnosis of compression related problems on petrol engines
- Versatile kit provides a quick means of testing cylinder compression pressure on engines with deep, recessed spark plugs and difficult access
- Digital pressure gauge displays readouts in psi, BAR and KPA
- Set contains long flexible hose and adaptors, eliminating the need to remove secondary equipment such as A/C, power brake, manifold and steering components
- Measurement range digital gauge: 0-300psi
- Measurement range quick check standard gauge: 0 - 200psi
- Battery included 9v
- Supplied in custom moulded plastic hard case



Part No.	Description	Specifications	Image
<b>304180</b>	Gauge & hose assembly	Digital dual scale 300psi / 21kg/cm <sup>2</sup> Ø 450mm Flexible hose 420mm Female quick connect coupler	
	Quick-check gauge & hose assembly	Single scale 200psi Dual stepped thread M14 x 1.25 & M18 x 1.50 x 400mm long	
	Quick connect coupler	46mm	
	Adaptor	M10 x 1.0 x 42mm	
	Adaptor	M12 x 1.25 x 42mm	
	Adaptor	M18 x 1.50 x 64mm	
	Hose Adaptors	38mm	
	Flexible Hose	M14 x 1.25x 300mm (short thread 10mm)	
	Flexible Hose	M14 x 1.2 5x 300mm (long thread 18mm)	
	Flexible Hose	M18 x 1.50 x 300mm (short thread 10mm)	
	Service kit	Includes pressure relief valves, battery (9v) and seals	



**DIESEL COMPRESSION TESTER MASTER KIT**  
DUAL SCALE 1000PSI & 70BAR

- Comprehensive diesel compression tester kit for diagnosis of compression related problems on diesel engines
- Enables cylinder access through glow plug adaptors and dummy injectors
- Includes large shock proof, liquid filled, dual scale gauge (1000 psi/70 bar) with pressure release valve and high pressure coiled rubber hose assembly
- Suitable for high pressure common rail diesel applications
- Covers most of the Australian car parc including automotive, commercial and heavy industrial applications with both direct and indirect diesel injection systems
- Essential master kit for all professional workshops
- Supplied in custom moulded foam tray in plastic hard case
- User guide and full vehicle application list included



Scan here for application list



Part No.	Description	Pressure
<b>304600</b>	Diesel compression tester master kit	1000 psi/70 bar

Contents	Specifications
304600-1 Glow Plug No 1	L: 17.5mm M12x1.25P
304600-2 Glow Plug No 2	L: 20mm M12x1.25P
304600-3 Glow Plug No 3	L: 28.5mm M10x1.25P
304600-4 Glow Plug No 4	L: 42mm M10x1.25P
304600-5 Glow Plug No 5	L: 45mm M10x1.25P
304600-6 Glow Plug No 6	L: 44mm M10x1.25P
304600-7 Glow Plug No 7	L: 54mm M10x1.0P
304600-8 Glow Plug No 8	L: 43mm M10x1.0P
304600-9 Glow Plug No 9	L: 26mm M10x1.0P
304600-10 Glow Plug No 10	L: 32mm M10x1.25P
304600-11 Glow Plug No 11	L: 35mm M10x1.0P
304600-12 Glow Plug No 12	L: 58mm M12x1.25P
304600-13 Glow Plug No 13	L: 71mm M10x1.0P
304600-14 Glow Plug No 14	L: 59mm M10x1.0P

Contents	Specifications
304600-15 Glow Plug No 15	L: 61mm M8x1.0P
304600-16 Glow Plug No 16	L: 85mm M10x1.25P
304600-17 Glow Plug No 17	L: 80mm M10x1.0P
304600-18 Glow Plug No 18	L: 69mm
304600-19 Glow Plug No 19	L: 102mm M10x1.25P
304600-20 Glow Plug No 20	L: 88mm M9x1.0P
304600-21 Glow Plug No 21	L: 85mm M10x1.25P
304600-22 Glow Plug No 22	L: 73mm M10x1.0P
304600-23 Injector No 23	L: 43mm M22x1.5P
304600-24 Injector No 24	L: 28mm M24x1.5P
304600-25 Glow Plug No 25	L: 29mm M20x1.5P
304600-26 Injector No 26	L: 26mm M24x2.0P

Contents	Specifications
304600A Gauge assembly 1000psi/70bar & 90° connector	
304600B Clamp on spindle kit	
Clamp	
Clamp-On Spindle	
Internal Thread: M10 x 1.25P	

EXHAUST



EXHAUST/TAIL PIPE CUTTERS

- Force saving cutters specifically designed for cutting exhaust tubing efficiently
- Chain with fifteen in-built roller cutters slice into the exhaust pipe tubing easily and without distortion through just a 1/4 rotation
- Spares: Replacement cutter chain (Part No. 312296)



Part No.	Range	Spares
<b>312295</b>	20 - 82mm	312296



EXHAUST DONUT STRETCHER

- For removal and installation of ring type (donut) rubber hangers
- Simple tool used by slipping the tool hook through the rubber mounting ring and pushing or pulling to stretch, until the ring can be removed from the hook on the frame

Part No.	Overall Length
<b>312291</b>	310mm



OXYGEN SENSOR SOCKET

- Specialist tool designed for the removal and installation of oxygen sensors in automotive applications
- Manufactured from durable chrome molybdenum steel with black phosphate finish for superior strength and durability



Part No.	Size	Square Drive	Overall Length
<b>301094</b>	22mm (7/8")	3/8"	90mm



EXHAUST PIPE SERVICE KIT

- Professional exhaust pipe service kit for expanding, cutting, dent removal and fitting of steel pipe
- Supplied in custom moulded plastic hard case

Part No.	Contents
<b>321003</b>	Exhaust pipe cutter - lock grip type
	Exhaust pipe expander 38 - 64mm
	Exhaust pipe expander 54 - 89mm
	Exhaust donut stretcher
	Nut splitter 16 - 22mm



EXHAUST PIPE EXPANDERS

- Internal expanding tool which operates with wrench for all tailpipe expanding
- Internal hex nut is turned to expand the inside diameter of the tube
- Extra long hex rod for ease of use



Part No.	Description	Size Range
<b>312287</b>	Small expander	Ø 30 - 44mm
<b>312289</b>	Medium expander	Ø 38 - 64mm
<b>312288</b>	Large expander	Ø 54 - 89mm



**SENSOR SOCKET SET**

7 PIECE

- Specially designed sensor socket set for use in automotive engine management applications
- Suitable for removing oil pressure, vacuum and oxygen sensors as well as one for diesel injector socket
- Manufactured from hardened chrome molybdenum steel for strength and durability
- Supplied in custom moulded plastic hard case

Part No.	Description	Size	Length	Image
<b>301148</b>	Vacuum switch O <sub>2</sub> sensor socket 3/8" Sq. Dr.	7/8" (22mm)	80mm	
	Vacuum switch O <sub>2</sub> sensor socket offset 3/8" Sq. Dr.	7/8" (22mm)	30mm	
	Offset deep O <sub>2</sub> sensor socket 1/2" Sq. Dr.	7/8" (22mm)	49mm	
	Oil pressure sender unit socket 3/8" Sq. Dr.	1 1/16"	74mm	
	Diesel injector & thermal sensor switch socket 1/2" Sq. Dr.	27mm	78mm	
	Vacuum switch O <sub>2</sub> sensor socket 3/8" Sq. Dr.	7/8" (22mm)	90mm	
	Vacuum switch O <sub>2</sub> sensor socket 1/2" Sq. Dr.	29mm	90mm	



**FUEL LINE COUPLING RELEASE PLIER SET**

2 PIECE

- Services special quick connect couplings on fuel feed and return lines
- Place tool around the fuel line and push into the female connector to release the male connector
- Manufactured from chrome molybdenum with black phosphate finish and PVC moulded handles
- Two piece set covers two coupler sizes

Part No.	Coupler Sizes	Jaw Opening (Max)	Jaw Width	Overall Length
<b>307223</b>	8mm (5/16") & 10mm (3/8")	40mm	10mm	150mm



**FUEL LINE CONNECTOR PLIERS**

- Required for most in-line fuel filter replacements in petrol engines
- Common applications include: GM (Opel), Mercedes Benz (M-Class), VAG

Part No.	Jaw Opening (Max)	Jaw Width	Overall Length
<b>307005</b>	80mm	5mm	235mm



**FUEL & VACUUM LINE PLIERS**

- Designed to remove stubborn fuel or vacuum hoses promptly and safely without damaging components
- Sharpened "V" jaw for secure grip and spring return for easy operation
- Manufactured from heat treated alloy steel with chrome finish and PVC dipped handles



Part No.	Jaw Opening (Max)	Hose Size Range	Overall Length
<b>301173</b>	30mm	3 - 13mm	200mm



**FUEL LINE DISCONNECT TOOL SET**

- Designed for safe and easy removal of quick connect fuel lines without causing damage
- Essential tool and simple to use by clipping over the connector to release the spring lock
- Suitable for late model vehicle applications including Chrysler, Ford, GM-Astra, Commodore, Vectra, Mitsubishi

Part No.	Size
<b>307002</b>	Black 1/4", Red 5/16", Blue 3/8"



**A/C & FUEL LINE DISCONNECT SET**

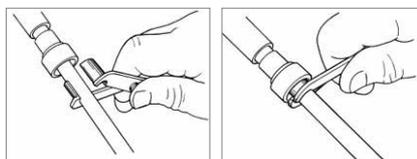
- Essential set of hose removal tools designed specifically for the removal of spring lock coupling type hose fittings
- Ideal for fuel lines and air conditioning system pipes found on Chrysler, Ford and GM applications
- Manufactured from moulded nylon ensuring flexibility and strength to withstand fuel and air conditioning chemicals
- Common applications include: Chrysler, Ford and GM

Part No.	Size
<b>301060</b>	6mm (1/4"), 8mm (5/16"), 10mm (3/8"), 12mm (1/2"), 16mm (5/8"), 20mm (3/4"), 22mm (7/8")



**FUEL LINE QUICK DISCONNECT TOOL**

- Scissor type operation for spring lock and fuel line locking couplings
- Durable, lightweight metal construction
- Common applications include: Chrysler, Ford, GM and Mazda



Part No.	Size
<b>307221</b>	5/16" & 3/8"



**A/C & FUEL LINE DISCONNECT TOOL SET**

- Essential four piece set for disconnecting most quick connect hose fittings
- Manufactured from fuel and chemical resistance materials
- Universal set, but common applications include: Chrysler, Ford and GM

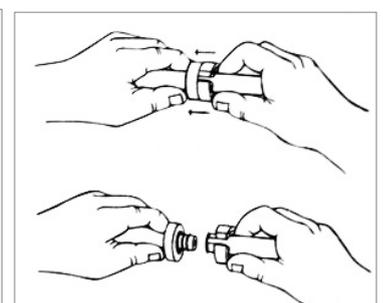
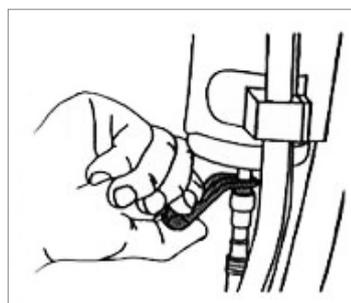
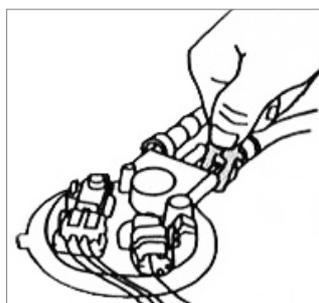
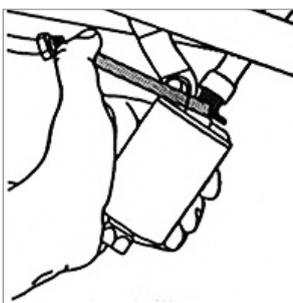
Part No.	Description
<b>307222</b>	A/C & fuel line spring lock coupling tool
	Fuel line disconnect tool - Chrysler, Ford, GM
	Fuel line coupling tool - Ford
	Quick disconnect coupler tool - Ford, GM



**A/C & FUEL LINE DISCONNECT TOOLS**  
MASTER SET 27 PIECE

- Master set covers most applications including fuel line couplings, air conditioning line couplings, clutch connectors, transmission cooler line connectors and air supply lines
- Disconnects air system lines on brakes, suspension and heavy-duty truck air systems
- Ideal for use on spring lock, quick connect and quick couplers and many other fittings
- Covers most vehicles including light commercial and heavy vehicles
- Spring loaded peg style angled disconnection tool set to ensure easy access and firm fitment
- Colour coded pieces for easy identification
- Manufactured from chemical resistant materials to withstand petrol, diesel, air conditioning gas, brake cleaner and other associated chemicals
- Supplied in custom moulded plastic hard case

Part No.	Description	Pieces
<b>307010</b>	A/C & Fuel line disconnect tool set	27
Description	Applications	Image
<p>Seven piece set of hose removal tools designed specifically for the removal of spring lock coupling type hose fittings</p> <p>Set includes sizes: 6mm (1/4"), 8mm (5/16"), 10mm (3/8"), 12mm (1/2"), 16mm (5/8"), 20mm (3/4"), 22mm (7/8")</p>	Fuel lines and air conditioning system pipes found on Chrysler, Ford and GM applications	<p>301060</p>
<p>Angled disconnect tool set: 8mm (5/16"), 9.5mm (3/8"), 13mm (1/2"), 16mm (5/8"), 19mm (3/4"), 22mm (7/8")</p> <p>Angled specific oil cooler disconnection set: 9.5mm (3/8") and 1/2"</p> <p>Angled specific cooler line set: 13mm (1/2"), 9.5mm (3/8")</p>	Angled head for fuel, oil and air conditioning lines in tight spaces	
GM fuel module disconnect tool	Disconnects the fuel module on GM applications	
Scissor style disconnect tool 3/8" and 5/16"	Most Ford, GM, Chrysler applications	<p>307221</p>
GM flex fuel disconnect tool, GM/Ford low profile fuel line disconnect set 3/8" and 5/16"	Suitable for the disconnection of GM flex fuel lines and quick connect fuel lines in hard to reach places. 3/8" suits GM and 5/16" suits Chrysler and Ford	
Coupler disconnect tool	Hairpin connectors	
Angled double ended disconnection tool set: 6mm (1/4"), 9mm (3/8"), 12mm (1/2"), 16mm (5/8")	Quick connect push-in connectors found on truck air lines and air suspension on light and heavy vehicles	





**NOID LIGHT & IAC TEST SET**  
10 PIECE

- The most economical way to check electronic fuel injection (EFI) and idle air control signals
- Efficiently checks Fleet PIN, Ford TBI, GEO TBI, Bosch PFI, Bosch 2, GM TBI, GM Multitech, GM PFI, GM SCPI and GM square 4 pin, GM Flat 4 pin
- Bright LED flash indicates signal operation

Part No.	Description	Image	Description	Image
<b>307226</b>	Noid light Bosch PFI (round pins)		Noid light GM SCPI	
	Noid light Ford TBI		Noid light Bosch 2	
	Noid light GEO TBI		Noid light GM Multitech	
	Noid light GM TBI		IAC signal test light Sq 4 Pin	
	Noid light GM PFI		IAC signal test light Flat 4 Pin	



Scan here for video



**FUEL & VACUUM PUMP PRESSURE TESTER**

- Simple and effective kit to test for worn or defective components in mechanical fuel pumps and vacuum systems
- Quickly diagnose fuel delivery systems, vacuum-operated components, intake and exhaust valves, piston rings, head gaskets
- Large, easy to read 90mm pressure and vacuum dial gauge supplied with 750mm heavy duty hose and four piece brass adaptor set including both 14 and 18mm manifold adaptors
- Suitable for testing and tuning carburettors and timing peak for maximum fuel economy
- Applicable for carburettor, EFI, turbo petrol engines
- Supplied in custom moulded plastic hard case

Part No.	Description	Specifications	Image
<b>307233</b>	Gauge	Ø 90mm 0 - 30Hg (0 - 70cmHg) 0 - 14.7 psi (0 - 1.1kg/cm <sup>2</sup> )	
	Heavy duty rubber hose	Length: 750mm	
	Manifold adaptor	1/4" NPT x 14mm	
	Manifold adaptor	3/8" NPT x 18mm	
	Stepped cone adaptor	1/8" NPT	
	Cone adaptor	Universal tapered	





**HOSE CLAMP PLIERS**  
CLIC TYPE

- Spring loaded pliers suitable for hose clamp installation and removal
- Specially designed jaws enable a quick change from installation to removal by simply turning over pliers
- Manufactured from chrome treated alloy steel with PVC dipped handles
- Suitable for CLIC, CLIC-R and Tridon SL series hose clamps

Part No.	Jaw Opening (Max)	Overall Length
<b>321011</b>	20mm	180mm



**FUEL TANK RETAINING RING REMOVER**

- Three legged fuel tank puller suitable for the removal and replacement of fuel tank retaining rings found on fuel tank sender units
- Designed to remove fuel tank retaining ring to access fuel sender or replace fuel pump/filter

Part No.	Working Range	Hex Drive
<b>307001</b>	75 - 160mm	24mm



**DIESEL INJECTOR SEAT CUTTER SET**

- Ideal for cleaning and/or refacing the diesel injector seat within the cylinder head
- Removes built up debris and provides a clean seating surface for the injector, which can eliminate blow by
- Suitable for standard and common rail diesel applications
- Supplied in custom moulded EVA foam tray in plastic hard case
- Spares: Replacement reamer set 5 Pc. (Part No. 304048A)



Part No.	Description	Size	Spares
<b>304048</b>	Flat reamer	15 x 19mm	304048A
	Flat reamer	17 x 17mm	
	Flat reamer	17 x 19mm	
	Angled reamer	17 x 17mm	
	Angled reamer	17 x 21mm	
	Extension	175mm	-
	T-Handle	150mm	-



**FUEL FILLING/EXTRACTION SYRINGE**

- Specialty syringe designed for petrol and diesel fuel filling and extraction
- Open/close twist valve is easy to use and prevents overfilling and spillage
- Safe and efficient way to handle fuel and features an anti-roll bar on main body to stabilise syringe when not in use
- Large diameter double seal plunger provides quick and efficient action
- Ideal for diesel fuel filter services and priming diesel fuel system
- Transparent canister to easily identify contaminants and fluid level
- Easy to dismantle for cleaning
- Supplied with quick release connectors to suit most vehicles
- Manufactured from fuel resistant materials including heavy duty seals
- Spares: Service kit available includes adaptors, seals and hose assembly (Part No. 305156A)



Part No.	Capacity	Adaptors	Spares
<b>305156</b>	1.5L	5/16" & 3/8" male, 5/16" & 3/8" female	305156A



**INJECTOR RETURN VOLUME TESTER**  
COMMON RAIL DIESEL 217PSI & 15BAR



- Test kit designed to measure fuel volume from the return side of common rail diesel systems for each injector
- Aids in the diagnosis of poor running engines, rough idling, fuel related issues and failed emissions etc.
- Comprehensive adaptor set to suit Bosch, Denso, Delphi and VDO/Siemens injectors
- Six glass bottles fitted on aluminium rail with hanging hook
- Enables comparison of up to six cylinders simultaneously
- Includes measuring tubes for crank only testing
- Manufactured from high quality brass and fuel resistant hoses
- Supplied in custom moulded plastic hard case



**FUEL PRESSURE TESTER KIT**  
MULTI-PORT PETROL 150PSI & 1000KPA



- Universal kit is suitable for performing running, residual, rail and flow rate pressure tests in multi-port systems
- Effectively diagnose rough idling, poor performance, high fuel consumption and starting issues etc.
- Suitable for Schrader valves including GM and Ford, T-piece adaptor, barb and screw type adaptors
- Drain with transparent hose allows testing of flow rate and monitoring of fuel condition
- Heavy duty brass main body and fittings
- Large easy to read dial gauge in a protective boot with hanging hook
- Supplied in custom moulded plastic hard case

Part No.	Ref No.	Description	Image	Qty
<b>307007</b>	1	Bosch injector adaptor		6
	2	VDO/Siemens injector adaptor		6
	3	Denso injector adaptor		6
	4	Delphi injector adaptor		6
	5	Measuring bottles -glass 10ml		1
	6	Manometer tubes -glass 10ml		6

Part No.	Ref No.	Description	Specification	Image
<b>307003</b>	1	Pressure gauge	0 - 150 psi (0 - 1000kPa) Ø 89mm	
	2	Ford schrader hose	0308 - 32 threads x1	
	3	GM schrader hose	7/16" - 20 threads	
	4	T-piece adaptor	5/16" & 3/8"	
	5	Barb adaptor	1/4", 5/16" & 3/8"	
	6	Quick connect threaded adaptor	6mm	



**INJECTOR RETURN FLOW TESTER**  
COMMON RAIL DIESEL 217PSI & 15BAR

- Heavy duty kit for testing the return flow of injectors in common rail diesel systems including Bosch, VDO/Siemens and Delphi injectors
- Efficiently diagnose rough idling, poor performance, failed emissions and increased fuel consumption etc
- Transparent body enables easy monitoring of fuel quality and air bubbles in system with drain valve to safely contain excess diesel
- Includes two pressure gauges:
  - Pressure gauge 1 - 3 bar is suitable for testing Delphi injectors
  - Pressure gauge 1 - 15 bar is suitable for testing Bosch and VDO/Siemens injectors
- Also suitable for testing the condition of a Piezo common rail injector (pass/fail statement)
- Manufactured from high quality brass and fuel resistant hoses
- Supplied in custom moulded plastic hard case

Part No.	Ref No.	Description	Specifications	Image
<b>307004</b>	1	Main body		
	2	Pressure gauge	Dual scale 1 - 3 bar (14 - 43psi)	
	3	Pressure gauge	Dual scale 1 - 15 bar (14 - 217psi)	
	4	Hose set 2pc	Suits VDO/Siemens injectors	
	5			
	6	Hose set 2pc	Suits BOSCH injectors	
	7			
	8	Hose set 2pc	Suits DELPHI injectors	
	9	Conical brass adaptor	to suit DELPHI injector	
	10	O-ring set 6 piece		



Scan for application list

**DIESEL INJECTOR PULLER**  
SLIDE HAMMER HEAVY DUTY

- Heavy duty puller kit suitable for the removal of the most stubborn and stuck diesel injectors
- For further information and specifications see the automotive pullers section p. 274 & 275

Part No.	Description	Adaptors	Slide Hammer
<b>304042</b>	Heavy duty diesel injector kit	M14 x 1.5, M16 x 1.0, M17 x 1.0, M20 x 1.0, M25 x 1.0, M27 x 1.0, Universal joint	4.8Kg
<b>304042A</b>	Diesel injector adaptor kit- Master		



**DIESEL INJECTOR TESTER**  
MECHANICAL 8700PSI & 600BAR

- Enables testing of diesel injectors by checking leakage, spray patterns, atomisation and cracking/opening pressure
- Suitable for most types of diesel mechanical injectors including common rail diesel injectors on passenger vehicles, light trucks, 4WD, SUV and stationary engines
- Large, easy to read 89mm diameter manometer with rubber protector boot
- Transparent spray guard enclosure circulates fluid back
- Manufactured from high grade aluminium steel
- Uses calibration fluid which complies with ISO4113 (not included)

Part No.	Description	Specifications
<b>307350</b>	Manometer/Gauge (Dual scale)	8700psi/600bar
	Main body	190 x1 25mm
	Pump lever	400mm
	Spray guard enclosure	100 x 160mm



**FUEL PRESSURE TESTER KIT**  
MASTER, FUEL INJECTION

- Comprehensive kit suitable for testing fuel delivery pressure on both mechanical and electronic fuel injection systems
- Used to pinpoint and identify problems in filters, lines and regulators
- Includes assorted range of hoses, banjo bolts, hose barb fittings and unions necessary to adapt to early and later model vehicles
- Suitable for petrol and low side diesel only
- Supplied in custom moulded plastic hard case with double tray lift out for easy access and identification to all parts
- Spares: Available via special order only. Price and availability upon request

Part No.	Description
<b>307300</b>	Fuel Pressure Tester Master Kit

Ref No.	Description	Specifications	Image	Qty
1	Pressure gauge	Dual scale 0 - 100 psi (0 - 7 bar) (Ø 56mm)		1
2	Pressure gauge	Dual scale 0 - 60 psi (0 - 4bar) (Ø 38mm)		1
3	Adaptor	1/4" NPT female T-piece with valve (40mm)		1
4	Adaptor	GM quick connect with valve (160mm)		1
5	Adaptor	GM 2.2K quick connect male - 5/8" x 18 female (150mm)		1
6	Adaptor	GM T.B.I (110mm)		1
7	Adaptor	Ford spring lock (270mm)		1
8	Adaptor	Ford hairpin lock (170mm)		1
9	Adaptor	M12 x 1.50p male		1
	Adaptor	M8 x 1.00p male		1
10	Pipe plug	1/4" x 1/4" (6 x 6mm)		1

Ref No.	Description	Specifications	Image	Qty
11	Hose	5/16" (55mm)		1
12	Hose	1/4" (55mm)		1
13(A)	Adaptor barb	M12 x 1.50 male 1/4", 5/16" & 3/8" (60mm)		1
14	Adaptor	M12 x 1.5 male & M8 x 1.0p male (76mm)		1
15(A)	Union	1/4" NPT (28mm)		1
16(A)	Union	M14 x 1.50 (28mm)		1
17(A)	Union	5/8" - 18 (30mm)		1
18(A)	Union	M16 x 1.50 (30mm)		1
19	Adaptor barb	5/16" x 1/4" NPT (40mm)		2
20	Adaptor barb	1/4" x 1/4" NPT (40mm)		2
21	Adaptor	Honda M6 x 1.00 with valve (40mm)		1
22	Adaptor banjo bolt	M8 x 1.00 with valve (45mm)		1
23	Adaptor banjo bolt	M10 x 1.00p with valve (45mm)		1
24	Adaptor banjo bolt	M12 x 1.25 with valve (45mm)		1
25	Adaptor banjo bolt	M12 x 1.50 with valve (50mm)		1
26(A)	Adaptor	M12 x 1.50 male & 5/8" x 18 male (40mm)		1
27(A)	Adaptor	M12 x 1.50 male & 1 6mm x 1.50 male (40mm)		1
28(A)	Adaptor	M12 x 1.50 male - 14mm x 1.50 male (40mm)		1
29(A)	Adaptor	M12 x 1.50 male & 1/4" NPT (40mm)		1
30	Adaptor	M12 x 1.50 male & M10 x 1.00 female (40mm)		1
31	Adaptor	12M x 1.50 male & M10 x 1.00 female (30mm)		1
32	Adaptor	M12 x 1.50 male & M8 x 1.00 female (20mm)		1
33	Hose clamps			4
-	Adaptor hose	Ford (350mm)		1
-	Adaptor	Bosch CIS/K Jetronic		1
-	Clear hose	1500mm		1



**TRANSFER GUN**

- Suction transfer gun enables efficient transfer of liquids from one container to another in a single stroke
- Suitable for use with a variety of liquids such as fuel oils, mineral oils, synthetic and biological oils, petrol, cooling liquids, antifreeze, spirits, brake fluids etc.
- Spares: Replacement hose - each (Part No. 305358)

Part No.	Capacity	Hose Length	Spares
<b>305229</b>	350ml	600mm x 2	305358



**SUCTION GUN**

- Designed to transfer gear oils in and out of gear boxes, transfer cases and differentials
- Lip seal provides maximum suction
- Powder coated, textured steel barrel for firm grip and supplied with 300mm (12") flexible vinyl hose
- No priming required
- Spares: Replacement hose - each (Part No. 305228)

Part No.	Capacity	Hose Length	Spares
<b>305227</b>	500ml	300mm	305228



**OIL MEASURING CONTAINER**

- Detachable threaded flexible spout 150mm and clip in cover lid for easy pouring
- Dual scale litres and quarts
- Manufactured from translucent high density polyethylene
- Spares: Replacement nozzle – each (Part No. 305264A)



Part No.	Capacity	Temp. Rating	Graduations	Spares
<b>305214</b>	1 litre/1 quart	60° C	500ml	305264A
<b>305264</b>	5 litre/5 quart	60° C	500ml	



305151

**FLUID CHANGE SYRINGES**

- For neat, clean and accurate fluid suction and dispensing
- Suitable for engine oil, gear oil, differential oil etc.
- Clear chamber allows for easy viewing and reduces cross contamination
- Made from a high quality composite plastic that is resistant to brake fluid and antifreeze
- In built hose end cap and anti-roll body stabiliser eliminates dripping and mess
- Critical components made from hi grade carbon fibre and internal seals made from high grade Viton to withstand most workshop chemicals and fluids
- Spares: Replacement seal kit (Part No. 305152A & 305151A)

**CHEMICAL RESISTANT VITON SEALS**



Part No.	Capacity	Extension Hose	Spares
<b>305152</b>	200ml	400mm	305152A
<b>305151</b>	1.5 litre	200mm	305151A



305153

305154

**CHEMICAL RESISTANT VITON SEALS**



**PRESSURE SPRAYERS**

**PUMP UP**

- Ideal for most workshop liquids and solvents such as brake cleaner, degreaser, tyre shine, detergents, acids and specialised lubricants
- Easy to fill with bulk liquids which saves money on spray cans and one off use bottles
- Durable plastic polyethylene bottle with moulded in measuring scale
- Easy to use pump action mechanism with top mounted thumb trigger
- Environmentally safe way of disbursing liquids in a controlled way
- Nozzle can be adjusted from a fine spray to a direct jet
- Critical components made from hi grade carbon fibre and internal seals made from high grade Viton to withstand most workshop chemicals and fluids
- Spares: Replacement seal kit to suit both 1L & 2L bottles (Part No. 305153A)



Part No.	Capacity	Working Pressure	Spares
<b>305153</b>	1 litre	50 - 70 psi	305153A
<b>304154</b>	2 litre	50 - 70 psi	305153A



### OIL DRAIN PANS/CANS TRANSMISSION

- Range of oil drain pans/cans in varying styles for safe and efficient fluid catchment and storage work
- All feature a pouring spout to reduce spillage and mess
- All manufactured from durable, high density polyethylene with UV stabiliser which is resistant to most chemicals, solvents and hot oil
- Suitable for use with fuel, oils, mineral oils, synthetic oils, antifreeze, etc.
- Recessed castors provide easy mobility and transportation (305089 only)

Part No.	Description	Capacity	Size
<b>305090</b>	Universal drain pan & can	10L	580L x 330W x 140H (mm)
<b>305091</b>	Universal drain pan & can	17L	700L x 400W x 140H (mm)
<b>305382</b>	Universal drain pan	14L	Ø 450 x 150H (mm)
<b>305053</b>	Transmission & gearbox drain pan	17.3L	Ø 200 x 820L x 545W (mm)
<b>305089</b>	Low profile drain pan	20L	Ø 125 x 850L x 600W (mm)



### WATERING CAN 10L

- Suitable for all refilling
- Plastic, curved spout pours precisely without spillage
- Ideal for under bonnet level refilling e.g. radiator, battery, windscreen washer etc.
- Neat mess free pour



Part No.	Capacity
<b>305095</b>	10L



### FUNNEL SET COOLANT FILLER 8PC

- Universal set for easy, efficient and mess free refilling during cooling system bleed work
- Enables vehicle coolant filler point to be raised, assisting with coolant system bleeding and removal of air pockets common in modern passenger vehicle applications
- Includes five sized rubber seal adaptors to suit most vehicles and one rubber tapered cone adaptor for universal applications and multi-purpose use
- Spares: Replacement adaptor pack 6 Pc. (Part No. 305092A)



Part No.	Adaptors	Spares
<b>305092</b>	31, 35, 40, 42, 45mm & universal tapered cone	305092A



### FUNNEL ADJUSTABLE PLIER UNIVERSAL

- Unique universal clamp design provides effective and mess free filling of fluids into engines, containers, drums and barrels
- Adjustable spring clamp locks into place, so there is no need to hold the funnel while filling
- Transparent lower chamber clearly shows fluid flow, minimising the risk of over filling and spillage
- Plier can be used with the supplied threaded funnel or any other normal funnel



Part No.	Adjustable Clamp Range
<b>305080</b>	28 - 74mm



**FUNNELS**

- Funnels designed with special contours in the funnel body for easy handling
- Anti splash and spill proof, with rim of funnel curved in
- Complete with wire mesh screen in funnel neck, dust cover and flexible spout
- Translucent white to give a clear view of fluid
- Manufactured from heavy duty polypropylene

Part No.	Description	Capacity	Diameter	Spout Length
<b>305388</b>	Funnel	1.7L	Ø 205mm	170mm
<b>305389</b>	Funnel w/2"bung adaptor	3L	Ø 240mm	245mm



**FUNNEL**  
FLEXIBLE & MOULDABLE

- Universal tool can be bent, folded and moulded into desired funnel shape
- Manufactured using a thin piece of aluminium encased in a thick coating of nitrile rubber
- Heavy duty construction and suitable for all fluids E.g. AdBlue®
- A simple and effective flexible rubber funnel for draining fluids from vehicles and equipment such as cars, trucks, motorcycles, aircraft, boats, generators etc.



Part No.	Size
<b>305094</b>	370 x 170 x 3mm



305300



305003

**DRAIN PLUG REMOVER SETS**

- Oil drain plug sets for the removal and installation of drain plugs on engine sumps, gearboxes and differentials
- Drain plugs feature a 3/4" hex body and 3/8" square drive
- Both sets include a 3/8" square drive T bar adaptor
- Supplied in custom moulded plastic hard case

Part No.	Description	Size	Pieces
<b>305300</b>	Drain plug removers - Hex	8, 9, 10, 12, 14, 17mm & 3/8"	12
	Drain plug removers - Sq. Dr.	8, 11, 13mm & 5/16", 3/8"	
	Sliding T bar adaptor	3/8" square drive	
<b>305003</b>	Drain plug removers - Hex	8, 9, 10, 12, 14, 17mm	17
	Drain plug removers - Sq. Dr.	8, 11, 13mm & 5/16", 3/8" & 3/8" x 10mm female	
	Drain plug removers - Triangle	10mm	
	Sliding T bar adaptor	3/8" square drive	



**MALE DRAIN PLUG REMOVER SET**

- Suitable for removing drain plugs on differentials, transmissions, oil sumps, barrels etc.
- Sizes: 8 x Metric and 9 x SAE

Part No.	Size	
<b>305216</b>	Metric	Sq. Dr. Size: 10, 11, 12, 13, 14, 15mm Hex Size: 14 & 17mm
	SAE	Sq. Dr. Size: 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4" Slot Size: 25 x 5mm Hex Size: 9/16"



305052



305074

**OIL FILTER REMOVAL PLIERS**  
ADJUSTABLE JAW

- For removing seized and stubborn filters
- Slip jointed adjustable jaws with “shark tooth” security grip to prevent slippage
- Manufactured from chrome vanadium steel with PVC dipped handles for strength and comfort



Part No.	Jaw Opening	Overall Length
<b>305052</b>	60 - 90mm	230mm
<b>305074</b>	85 - 115mm	260mm



**OIL FILTER REMOVER**  
SOCKET DRIVE CHAIN TYPE

- Specially designed chain style oil filter remover for filters in confined areas
- Services filters up to 110mm maximum diameter
- Suitable for use with 1/2” square drive extension bar and ratchet etc.

Part No.	Diameter Capacity	Square Drive
<b>305208</b>	Ø 110mm	1/2”

305203



305205



**OIL FILTER REMOVERS**  
SWIVEL HANDLE

- Universal tools for easy removal of stubborn oil filters
- Also suitable for removing spin on fuel and water separator filters
- Swivel neck allows handle to be used at various angles in confined spaces
- Heavy duty steel bands with dimples for a secure grip
- PVC dipped handle swivels to any position

Part No.	Description	Diameter Range	Band Width
<b>305203</b>	Small	Ø 60 - 73mm	25mm
<b>305204</b>	Medium	Ø 73 - 85mm	25mm
<b>305205</b>	Large	Ø 85 - 95mm	25mm
<b>305206</b>	Extra Large	Ø 95 - 111mm	25mm



**OIL FILTER REMOVERS**  
STEEL JAW TYPE

- Easily removes spin on oil filters in confined areas without slipping
- One way direction allows maximum grip during operation
- Not suitable for refitting oil filters
- Manufactured from hardened steel with black phosphate finish for maximum strength

Part No.	Diameter Range	Square Drive
<b>305022</b>	Ø 60 - 80mm	3/8”
<b>305002</b>	Ø 80 - 90mm	3/8”



Scan here for video



**OIL FILTER REMOVER**  
NYLON STRAP

- Sturdy non-slip nylon strap designed for spin-on type filters
- Suitable for oil filters, fuel and water separator filters etc.
- Heavy duty nylon strap with steel handle



Part No.	Diameter Range	Strap Width	Square Drive	Handle Length
<b>305211</b>	Ø 150mm	50mm	1/2"	150mm



**OIL FILTER REMOVER**  
WEBBED STRAP TYPE

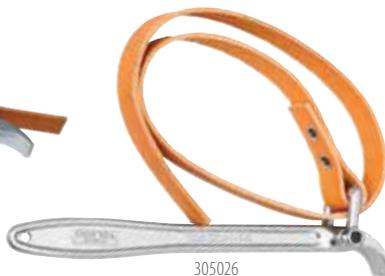
- Heavy duty option suitable for larger applications
- Particularly suitable for commercial vehicle oil filters and fuel filters up to 150mm diameter
- Spares: Replacement webbing strap (Part No. 305073A)



Part No.	Diameter Range	Strap Width	Square Drive	Spares
<b>305073</b>	Ø 150mm	50mm	1/2"	305073A



305025



305026



305044

**OIL FILTER REMOVERS**  
STRAP TYPE

- Heavy duty strap wraps around the filter and adjusts to the required size to remove and replace the filter
- Available in heavy duty leather or rubber straps
- Conforms to irregular shapes for removal without damage



Part No.	Description	Diameter Range	Strap Width
<b>305025</b>	Leather strap oil filter remover - Small	Ø 25 - 160mm	19mm
<b>305026</b>	Leather strap oil filter remover - Large	Ø 40 - 240mm	25mm
<b>305044</b>	Rubber strap oil filter remover	Ø 150mm	20mm



305021



305209



305210

Scan here for video



**OIL FILTER REMOVERS**  
3 LEG TYPE

- Suitable for removing and fitting oil filters (do not over tighten)
- Removes stubborn oil filters where extra grip is required
- Heavy duty 3 leg style with 3/8" to 1/2" square drive adaptor included
- Manufactured from hardened steel



Part No.	Description	Diameter Range
<b>305021</b>	Oil filter remover - 3 jaw triangle body	Ø 60 - 125mm
<b>305209</b>	Oil filter remover - 3 leg round body	Ø 75 - 120mm
<b>305210</b>	Oil filter remover - 3 leg triangle body	Ø 60 - 120mm

### OIL FILTER CUP WRENCHES

#### INDIVIDUAL

- For the removal and installation of oil filters used in modern engine applications
- Fluted cup design firmly grips the corrugated end of the filter, reducing the possibility of filter damage during removal and installation
- Manufactured from either high quality alloy steel or aluminium for additional strength and durability
- Feature either 3/8" or 1/2" square drive
- Various flute designs from 6-45 flutes
- Size range: 24-108mm
- Full coverage of the Tridon oil cartridge cap range
- Vehicle application listing at [tridon.com.au](http://tridon.com.au)

Note: Dual stepped cups feature two sizes in one

Scan for application list



305103



305104 with  
oil filter housing



305104



305056

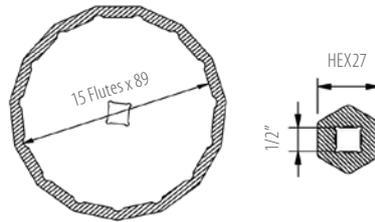
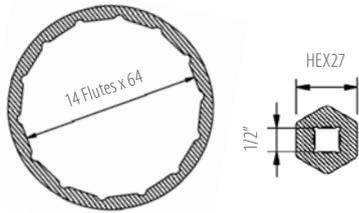
Part No.	Size	Flutes	Square Drive	Material
<b>305103</b>	24mm	6	1/2"	Aluminium - Anodized Blue
<b>305104</b>	27mm	6	3/8"	Aluminium - Chrome
<b>305105</b>	30mm	6	3/8"	Alloy steel - Black
<b>305801</b>	32.5mm	6	1/2"	Aluminium - Chrome
<b>305106</b>	32mm	6	3/8"	Aluminium - Chrome
<b>305107</b>	36mm	6	1/2"	Aluminium - Chrome
<b>305108</b>	38mm	6	3/8"	Alloy steel - Black
<b>305800-901-1</b>	Dual step 63 & 64mm	14	1/2"	Aluminium - Chrome
<b>305109</b>	64mm	14	3/8"	Alloy steel - Black
<b>305901</b>	64mm	14	1/2"	Aluminium - Chrome
<b>305133</b>	64.5mm	14	3/8"	Aluminium - Chrome
<b>305200</b>	64.5mm	14	3/8"	Aluminium - Chrome
<b>305054</b>	65mm	14	3/8"	Alloy steel - Black
<b>305056</b>	Dual step 65 & 67mm	14	3/8"	Alloy steel - Black
<b>305111</b>	66mm	6	3/8"	Alloy steel - Black
<b>305112</b>	66.5mm	14	3/8"	Alloy steel - Black
<b>305902</b>	67mm	14	1/2"	Aluminium - Chrome
<b>305055</b>	68mm	14	3/8"	Alloy steel - Black
<b>305060</b>	73mm	14	3/8"	Alloy steel - Black
<b>305905</b>	73mm	15	1/2"	Aluminium - Chrome
<b>305903-4</b>	73mm	14	1/2"	Aluminium - Chrome
<b>305903-5</b>	73mm	30	1/2"	Aluminium - Chrome
<b>305113</b>	74mm	15	3/8"	Alloy steel - Black
<b>305903</b>	74mm	14	1/2"	Aluminium - Chrome

Part No.	Size	Flutes	Square Drive	Material
<b>305903-2</b>	74mm	8	1/2"	Aluminium - Chrome
<b>305903-3</b>	74mm	15	1/2"	Aluminium - Chrome
<b>305057</b>	Dual step 74 & 76mm	15	3/8"	Alloy steel - Black
<b>305135</b>	74.2mm	14	3/8"	Aluminium - Chrome
<b>305061</b>	Dual step 75 & 77mm	15	3/8"	Alloy steel - Black
<b>305903-1</b>	75mm	15	1/2"	Aluminium - Chrome
<b>305114</b>	75.6mm	14	3/8"	Alloy steel - Black
<b>305058</b>	76mm	14	3/8"	Alloy steel - Black
<b>305059</b>	76mm	30	3/8"	Alloy steel - Black
<b>305115</b>	76mm	12	3/8"	Alloy steel - Black
<b>305117</b>	76mm	8	3/8"	Alloy steel - Black
<b>305911</b>	76mm	12	1/2"	Aluminium - Chrome
<b>305118</b>	76.5mm	14	3/8"	Alloy steel - Black
<b>305119</b>	78mm	15	3/8"	Alloy steel - Black
<b>305904</b>	79mm	15	1/2"	Aluminium - Chrome
<b>305063</b>	Dual step 80 & 82mm	15	3/8"	Alloy steel - Black
<b>305138</b>	84mm	14	1/2"	Aluminium - Chrome
<b>305906</b>	84mm	18	1/2"	Aluminium - Chrome
<b>305912</b>	86mm	14	1/2"	Aluminium - Chrome
<b>305120</b>	86mm	18	3/8"	Alloy steel - Black
<b>305121</b>	86mm	16	3/8"	Alloy steel - Black
<b>305136</b>	86.6mm	16	3/8"	Aluminium - Chrome
<b>305800-915</b>	87mm	16	1/2"	Aluminium - Chrome
<b>305123</b>	88.5mm	15	3/8"	Alloy steel - Black
<b>305134</b>	88.8mm	15	3/8"	Alloy steel - Black

MEASUREMENT OF CUPS

EVEN No. of Flutes (Flat to flat)

ODD No. of Flutes (Flat to point)

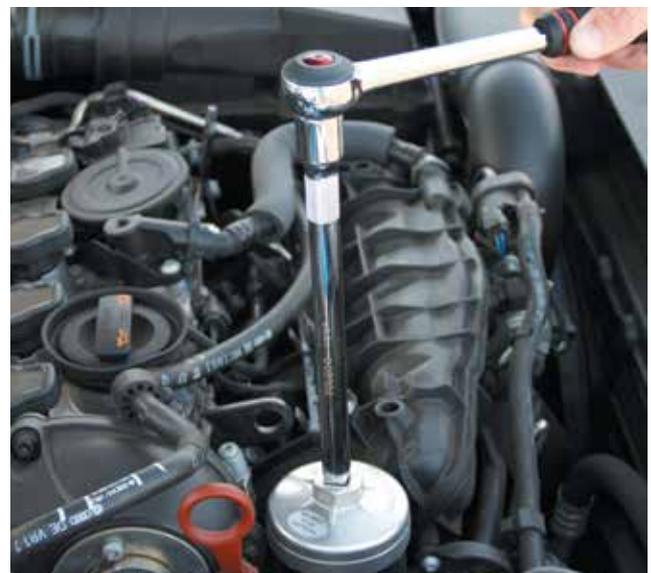


305200 with oil filter housing



305135 with oil filter housing

Scan here for video



Part No.	Size	Flutes	Square Drive	Material
305907	89mm	15	1/2"	Aluminium - Chrome
305064	90mm	15	3/8"	Alloy steel - Black
305908	91mm	15	1/2"	Aluminium - Chrome
305910-1	91mm	12	1/2"	Aluminium - Chrome
305124	92mm	10	1/2"	Aluminium - Chrome
305909	92mm	15	1/2"	Aluminium - Chrome
305065	93mm	15	3/8"	Alloy steel - Black
305066	93mm	36	3/8"	Alloy steel - Black
305125	93mm	45	3/8"	Alloy steel - Black
305800-0595	94.5mm	15	1/2"	Aluminium - Chrome
305127	95mm	15	3/8"	Alloy steel - Black
305910	95mm	15	1/2"	Aluminium - Chrome
305128	96mm	18	3/8"	Alloy steel - Black
305129	99mm	15	3/8"	Alloy steel - Black
305800-05101	100.5mm	15	1/2"	Aluminium - Chrome
305067	100mm	15	3/8"	Alloy steel - Black
305914	101mm	15	1/2"	Aluminium - Chrome
305130	106mm	15	3/8"	Alloy steel - Black
305992	106mm	15	1/2"	Aluminium - Chrome
305993	106mm	16	1/2"	Aluminium - Chrome
305131	108mm	15	3/8"	Alloy steel - Black
305132	108mm	18	3/8"	Alloy steel - Black
305994	108mm	16	1/2"	Aluminium - Chrome
305995	110mm	17	1/2"	Aluminium - Chrome
305996	118mm	18	1/2"	Aluminium - Chrome

### OIL FILTER CUP WRENCH SETS

- Popular kits to cover a wide range of vehicles
- More affordable black alloy cup sets through to professional high grade aluminium sets for the commercial workshop
- All kits are supplied in custom moulded plastic hard cases
- Cup sets are ideal for workshops to keep on hand to cover a wide range of vehicle applications

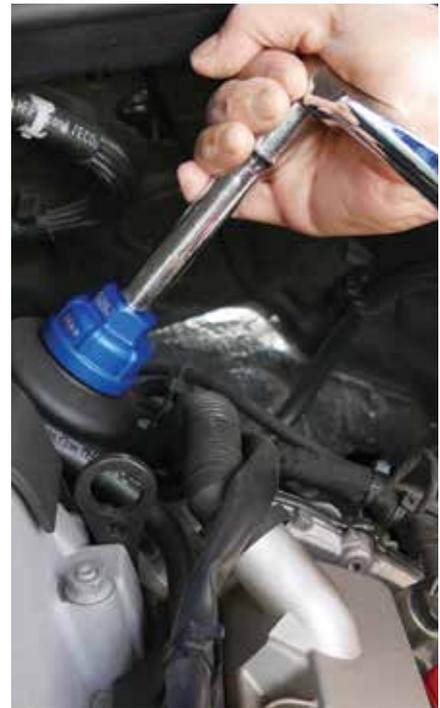
*Note: Some individual replacement cups may vary in style only, from what is supplied in kits (material, colour, design or square drive), however the actual size and number of flutes remains the same*



Scan for application list



Scan here for video



Part No.	Material	Square Drive	Pieces
<b>305004</b>	Alloy black	3/8"	15
Spares	Description		
305054	65mm x 14F x 3/8" Sq. Dr.		
305055	68mm x 14F x 3/8" Sq. Dr.		
305056	65 & 67mm (dual step) x 14F x 3/8" Sq. Dr.		
305057	74 & 76mm (dual step) x 15F x 3/8" Sq. Dr.		
305058	76mm (dual step) x 14F x 3/8" Sq. Dr.		
305059	76mm x 30F x 3/8" Sq. Dr.		
305060	73mm x 14F x 3/8" Sq. Dr.		
305061	75 & 77mm (dual step) x 15F x 3/8" Sq. Dr.		
305062	80mm x 15F x 3/8" Sq. Dr.		
305063	80 & 82mm (dual step) x 15F x 3/8" Sq. Dr.		
305064	90mm x 15F x 3/8" Sq. Dr.		
305065	93mm x 15F x 3/8" Sq. Dr.		
305066	93mm x 36F x 3/8" Sq. Dr.		
305067	100mm x 15F x 3/8" Sq. Dr.		
N/A	Adaptor 3/8" to 1/2" Sq. Dr.		

Part No.	Materials	Square Drive	Pieces
<b>305800</b>	Aluminium Chrome & Anodized Blue	1/2"	19
Spares	Description		
305103	24mm x 6F x 1/2" Sq. Dr.		
305104	27mm x 6F x 3/8" Sq. Dr.		
305105	30mm x 6F x 3/8" Sq. Dr.		
305801	32.5mm x 6F x 3/8" Sq. Dr.		
305107	36mm x 6F x 1/2" Sq. Dr.		
305108	38mm x 6F x 3/8" Sq. Dr.		
305800-901-1	63 & 64mm (dual step) x 14F x 1/2" Sq. Dr.		
305133	64.5mm x 14F x 3/8" Sq. Dr.		
305200	64.5mm x 14F x 3/8" Sq. Dr.		
305902	67mm x 14F x 1/2" Sq. Dr.		
305903	74mm x 14F x 1/2" Sq. Dr.		
305904	79mm x 15F x 1/2" Sq. Dr.		
305138	84mm x 14F x 1/2" Sq. Dr.		
305800-915	87mm x 16F x 1/2" Sq. Dr.		
305909	92mm x 15F x 1/2" Sq. Dr.		
305800-0595	94.5mm x 15F x 1/2" Sq. Dr.		
305800-05101	100.5mm x 15F x 1/2" Sq. Dr.		
N/A	Adjustable 3 jaw wrench 55-85mm		
N/A	Adaptor 3/8" to 1/2" Sq. Dr.		





Part No.	Material	Square Drive	Pieces
<b>305900</b>	Aluminium Chrome	1/2"	21
Spares	Description	Qty	
305901	64mm x 14F x 1/2" Sq. Dr.	1	
305902	67mm x 14F x 1/2" Sq. Dr.	1	
305903-4	73mm x 14F x 1/2" Sq. Dr.	1	
305905	73mm x 15F x 1/2" Sq. Dr.	1	
305903-5	73mm x 30F x 1/2" Sq. Dr.	1	
305903	74mm x 14F x 1/2" Sq. Dr.	1	
305903-3	74mm x 15F x 1/2" Sq. Dr.	1	
305903-2	74mm x 8F x 1/2" Sq. Dr.	1	
305903-1	75mm x 15F x 1/2" Sq. Dr.	1	
305911	76mm x 15F x 1/2" Sq. Dr.	1	
305911-1	79mm x 15F x 1/2" Sq. Dr.	2	
305906	84mm x 18F x 1/2" Sq. Dr.	1	
305912	86mm x 14F x 1/2" Sq. Dr.	1	
305907	89mm x 15F x 1/2" Sq. Dr.	1	
305910-1	91mm x 12F x 1/2" Sq. Dr.	1	
305908	91mm x 15F x 1/2" Sq. Dr.	2	
305909	92mm x 15F x 1/2" Sq. Dr.	1	
305910	95mm x 15F x 1/2" Sq. Dr.	1	
305914	101mm x 15F x 1/2" Sq. Dr.	1	
N/A	Cup wrench spanner		
305211	Nylon strap type universal		

Part No.	Material	Square Drive	Pieces
<b>305072</b>	Aluminium Chrome	3/8"	9
Spares	Description		
305104	27mm x 6F x 3/8" Sq. Dr.		
305106	32mm x 6F x 3/8" Sq. Dr.		
305107	36mm x 6F x 3/8" Sq. Dr.		
305133	64.5mm x 14F x 3/8" Sq. Dr.		
305200	64.5mm x 14F x 3/8" Sq. Dr.		
305135	74.2mm x 14F x 3/8" Sq. Dr.		
305136	86.6mm x 16F x 3/8" Sq. Dr.		
305134	88.8mm x 15F x 3/8" Sq. Dr.		
N/A	Adjustable jaw 63-83mm		

Part No.	Material	Square Drive	Pieces
<b>305990</b>	Aluminium Chrome	1/2"	7
Spares	Description		
305800-05101	100.5mm x 15F x 1/2" Sq. Dr.		
305992	106mm x 15F x 1/2" Sq. Dr.		
305993	106mm x 16F x 1/2" Sq. Dr.		
305994	108mm x 16F x 1/2" Sq. Dr.		
305995	110mm x 17F x 1/2" Sq. Dr.		
305996	118mm x 18F x 1/2" Sq. Dr.		
N/A	Cup wrench spanner		



## LUBRICATION

### LUBRICATION TOOLS FOR ADBLUE®

- Specialty range of lubrication tools designed for handling AdBlue® which is a urea based fluid
- All products are manufactured using materials resistant to urea based fluids
- Range includes funnels, syringe and transfer pump
- For further information and more detailed specifications see the lubrication section p.231
- AdBlue® is a registered trademark of the German Association of the Automobile Industry VDA (Verband der Automobilindustrie)



Part No.	Description	Capacity
<b>305400</b>	Funnel for AdBlue® - Straight neck	1.1L
<b>305401</b>	Funnel for AdBlue® - Angled neck	1.1L
<b>305402</b>	Syringe for AdBlue®	1.5L
<b>305158</b>	Transfer pump for AdBlue®	550ml



## STEERING & SUSPENSION



### BALL JOINT & TIE ROD END SEPARATORS FORK TYPE STRIKE THRU

- For simple and effective removal of ball joints and tie rod ends
- Ideal for work in limited space or when control arm does not permit use of fork impact type spreader
- Striking handles are extra strong and designed to achieve separation via the force impact
- 311282: Interchangeable head kit includes multiple heads, extension and air hammer handles

Part No.	Description	Fork Opening	Overall Length
<b>311271</b>	Fork type	17mm	200mm
<b>311273</b>	Fork type	24mm	300mm
<b>311272</b>	Fork type	18mm	400mm
<b>311282</b>	Fork type set - Interchangeable head	18, 24, 29mm	325mm



### BALL JOINT SEPARATORS UNIVERSAL

- For simple and effective removal of ball joints
- Ideal for use in limited working space or when the control arm does not permit use of fork impact type spreader
- Body and bolt manufactured from drop forged steel ensuring durability and extended service life

Part No.	Fork Opening	Reach	Jaw Range	Overall Length
<b>311274</b>	19mm	38mm	15- 48mm	135mm
<b>311275</b>	22mm	44mm	0 - 56mm	160mm
<b>311276</b>	17mm	30mm	Std: 35mm Ext: 70mm	265mm



**PITMAN ARM PULLERS**

- Specialised tools for the simple and trouble free removal of tie rod end and pitman arms
- Suitable for the removal of pitman and idler arms on vehicles fitted with linkage steering systems
- Ideal for passenger vehicles and light commercials
- Manufactured from drop forged steel to ensure durability and long service life

**STEERING WHEEL PULLER SET**

- Drop forged beam for increased rigidity and service life
- Suits 5/16" and 3/8" applications where access to threaded holes is available
- For further information and more detailed specifications see the automotive pullers section page 270

Part No.	Jaw Opening (Max)	Jaw Depth (Max)	Square Drive/Hex	Overall Length
<b>311279</b>	33mm	60mm	3/8"/19mm	105mm
<b>311281</b>	27mm	44mm	3/8"/19mm	115mm
<b>311280</b>	65mm	85mm	19mm Hex	150mm

Part No.	Spread	Reach
<b>250250</b>	40 - 80mm	65mm



**INNER TIE ROD TOOLS**

- Specialty tools for inner tie rods which are inaccessible to remove
- Long 1/2" square drive socket body is compatible with supplied sizes of open end drivers
- The inner tie rod is easily removed and replaced by slipping the socket over the tie rod end and connecting it to the open end driver
- 311287 & 311295 supplied in custom moulded plastic hard case
- Spares 311287: Replacement collar w/small tab to fit main body of tool (Part No. 311287A)



Part No.	Description	Metric	Imperial	Spares
<b>311290</b>	Inner tie rod tool - Universal	33 - 42mm	1 5/16" - 1 21/32"	-
<b>311287</b>	Inner tie rod tool set - 7pc	14, 17, 33.6mm	1 3/16", 1 1/4", 1 5/16", 1 7/16"	311287A
<b>311295</b>	Inner tie rod tool set - Truck 4pc	33.6, 38.4, 42mm	1 7/16"	-



**POWER STEERING & ALTERNATOR PULLEY REMOVER**

- Reversible two sided flange enables removal and installation of common alternator and power steering pump pulleys where access to a grooved hub is available
- Suitable for removing and installing press fit pulleys and alternator pulleys
- Applications include GM, Chrysler and Ford as well as Saginaw, Thompson and Ford C-2 power steering pumps
- *For further information and more detail, see the automotive puller section page 272*

Part No.	Suits Hub Diameter	Overall Length
<b>245370</b>	1 1/8" (28mm), 1 1/4" (32mm), 1 5/16" (34mm) and 1 3/8" (35mm)	90mm



**UNIVERSAL PRESS SUPPORT TOOL**

- For safe and easy shop press work, including mounting and demounting jobs
- Infinitely adjustable to suit a myriad of objects and applications E.g. wheel hub nuts
- Creates three contact points for maximum stability and security, without any swivelling
- Features press plate 200 x 240 x 40mm, swivel plate for complete versatility and adjustable anvil bolts
- Made in Germany

Part No.	Description
<b>311021</b>	Universal Press Support Tool

Scan here for video



Description	Size (mm)	Image	Qty
Press plate	200 x 240 x 40		1
Swivel plate	195 x 75 x 40		1
Heavy duty long studs	200		2
Heavy duty intermediate studs	160		2
Heavy duty short stud	100		1
Heavy duty washers	44 x 6		3
Heavy duty lock nuts	24		3
Swivel lock bolt & washer	20		1
Mounting plate	195 x 30 x 4.95		2
Mounting plate bolt & washer	-		6



**CAMBER GAUGE MAGNETIC**



- Innovative measurement set designed for simple and accurate measurement of camber in passenger and light commercial vehicles
- Two portable and magnetic camber bubble gauges to attach to the wheel hub, spindle or rotor
- Supplied in custom moulded plastic hard case

Part No.	Operating Range	Overall Length
<b>311289</b>	± 3°	123mm



**POWER STEERING PUMP PULLEY KIT MASTER**

- For quick and easy removal and installation of power steering pump pulleys
- Includes pulley remover, pulley installer and quick disconnect coupler tool
- Reliable kit provides ongoing service without distorting pump or pulley
- Suitable for most Chrysler, Ford and GM power steering pulleys including Ford Falcon AU & FG, Ford C111, Saginaw, Thompson, C2 power steering pumps
- Also suitable for removing pulleys on GM belt driven vacuum pumps and pressed on water pump pulleys of GM V6 engines
- *For further information and more detailed specifications see the automotive pullers section page 272*

Part No.	Pulley Hub Diameter	Pieces
<b>245380</b>	Ø 28 - 35mm	7

Scan here for video





311284



311285



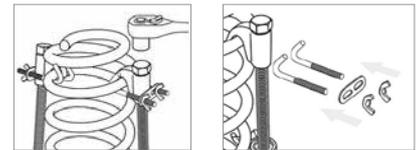
311286

### COIL SPRING COMPRESSORS

- Essential for all workshops these coil spring compressors are designed to ensure safe and effective compression of automotive coils springs
- Wrap around jaws clasp the coil spring firmly and ensure safe and effective repair and replacement of shock absorbers, struts and springs
- Features 1/2" square drive in hex head for use with suitable wrench
- Universal application units suitable for MacPherson struts and coil springs on passenger and light commercial vehicles
- Manufactured from drop forged carbon steel with heat treated lead screws for optimum durability and performance
- 311285: Supplied with safety hook assembly for additional safety and control
- 311286: Supplied in custom moulded plastic tray in metal storage case



Part No.	Jaw Width	Working Capacity	Overall Length
<b>311284</b>	85mm	260mm	300mm
<b>311285</b>	90mm	260mm	300mm
<b>311286</b>	85mm	300mm & 400mm	400mm



### TIE ROD END REMOVAL TOOL UNIVERSAL

- Used for simple and effective separation of tie rod ends
- Tool inserts between the tie rod end spindle and the tie rod
- When the forcing screw is tightened, pressure exerted on the spindle causes it to pull free of the tie rod
- May be used with tie rod ends in drag link and steering arm applications
- Suitable for use on most front wheel drive vehicle applications
- Body and bolt manufactured from durable drop forged steel to maximise service life



Part No.	Fork Opening	Reach	Hex Drive
<b>311278</b>	17mm	30mm	19mm



### COIL SPRING COMPRESSOR KIT HEAVY DUTY SHOE TYPE

- Essential tool kit for all workshops this heavy duty coil spring compressor is designed to ensure safe and effective compression of automotive coils springs
- Includes three interchangeable shoe sizes to support various coil spring diameters
- Features a heavy duty, shielded screw body for superior strength and safety
- Suitable for MacPherson struts and coil springs on standard passenger, utility and 4WD vehicles
- Supplied in heavy duty custom moulded plastic hard case



Part No.	Size Range	Overall Length
<b>311002</b>	65 - 215mm	450mm

### BEARING & BUSH/PRESS & PULL SLEEVE KIT

UNIVERSAL

- Essential professional workshop kit for extracting and installing silent bearings, hydraulic bearings, bearing bushes, ball bearings, shaft seals, rubber bearings etc.
- Universal application kit – suitable for passenger, light commercial and heavy goods vehicles
- Suitable for ON vehicle and OFF vehicle use
- Kit includes five threaded rods (M10, M12, M14, M16, M18) with thrust nuts and washers and twenty two press on sleeves
- Supplied in custom moulded plastic hard case



Part No.	Contents	Description	Inside/Outside Diameter	Contents	Description	Inside/Outside Diameter	Contents	Description	Inside/Outside Diameter
<b>311020</b>	311020A	Sleeve	Ø 33/44mm	311020K	Sleeve	Ø 52/62mm	311020U	Sleeve	Ø 70/80mm
	311020B	Sleeve	Ø 36/46mm	311020L	Sleeve	Ø 54/64mm	311020V	Sleeve	Ø 72/82mm
	311020C	Sleeve	Ø 38/48mm	311020M	Sleeve	Ø 56/66mm	311020W	Sleeve	Ø 75/85mm
	311020D	Sleeve	Ø 40/50mm	311020N	Sleeve	Ø 58/68mm	311020X	Sleeve	Ø 80/90mm
	311020E	Sleeve	Ø 42/52mm	311020P	Sleeve	Ø 60/70mm	311020AA	Threaded rod	M10
	311020F	Sleeve	Ø 44/54mm	311020Q	Sleeve	Ø 62/72mm	311020BB	Threaded rod	M12
	311020G	Sleeve	Ø 46/56mm	311020R	Sleeve	Ø 64/74mm	311020CC	Threaded rod	M14
	311020H	Sleeve	Ø 48/58mm	311020S	Sleeve	Ø 66/76mm	311020DD	Threaded rod	M16
	311020J	Sleeve	Ø 50/60mm	311020T	Sleeve	Ø 68/78mm	311020EE	Threaded rod	M18

### BEARING & BUSH/PRESS & PULL SLEEVE MASTER KIT

UNIVERSAL W/PRESS FRAME

- Master workshop kit for extracting and installing: silent bearings, hydraulic bearings, bearing bushes, ball bearings, shaft seals, rubber bearings etc.
- Includes press frame to enable complete portability
- Ten tonne hydraulic ram provides enough force to remove the most stubborn bushes or ball joints
- Contains 22 press sleeves that are suitable for most passenger, 4WD and light commercial vehicles
- Supplied in custom moulded heavy duty storage case with castor roller wheels and safety locking clips



Part No.	Contents	Description	Specifications	Qty
<b>311022</b>	265015A	Hydraulic Ram	10 Tonne	1
	311022A	Threaded rod	M10 x 1.5	1
	311022B	Threaded rod	M12 x 7.75	1
	311022C	Threaded rod	M14 x 2.0	1
	311022D	Threaded rod	M16 x 2.0	1
	–	Fixing spindle	M10 x 1.5, M12 x 7.75, M14 x 2.0, M16 x 2.0	4
	–	Pointed sleeve	28mm & 95mm	2
	–	Sleeve (Ø Inside/Outside)	26 x 18mm, 28 x 20mm, 30 x 32mm, 32 x 34mm, 34 x 26mm, 36 x 28mm, 38 x 30mm, 40 x 32mm, 42 x 34mm, 44 x 36mm, 46 x 38mm, 48 x 40mm, 50 x 42mm, 52 x 44mm, 54 x 46mm, 56 x 48mm, 58 x 50mm, 60 x 52mm, 62 x 54mm, 64 x 56mm, 66 x 58mm, 68 x 60mm	22



309040



309033



309034



309035

### TYRE LEVERS

- For removal and installation of tyres on rims
- Heavy duty tyre levers manufactured from hardened and tempered drop forged chrome vanadium steel



Part No.	Overall Length
<b>309040</b>	300mm
<b>309033</b>	400mm
<b>309034</b>	500mm
<b>309035</b>	600mm



### DIGITAL TYRE PRESSURE GAUGE

- Simple and accurate gauge gives a digital read out of tyre pressure
- Backlit LCD screen enables easy read out and illuminating light on bottom of unit for work in the dark
- Auto shut off function (25 seconds)
- Dual powered via solar panel and 3V lithium coin cell battery
- Multiple units of measurement: psi, bar, kPa, kg/c



Part No.	Range	Resolution	Accuracy
<b>309101</b>	5 - 150psi	0.1psi, 0.01bar, 1 kPa/0.01kg, cm <sup>2</sup>	5 - 100psi (+/-1psi), 101 - 150psi (+/-2psi)



### NUT CRACKER BAR

- For seized and stubborn nuts
- High leverage 180° rotating "Strike-thru" head
- Unique design creates an additional twist force after impact to assist cracking the nut
- Heavy duty construction for ongoing shock impact applications
- Ergonomic rubber handle provides comfort and firm grip

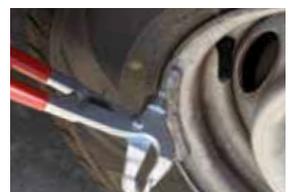


Part No.	Square Drive	Overall Length
<b>321032</b>	1/2"	410mm



### WHEEL WEIGHT PLIERS

- For the quick installation, removal, trim and tightening of wheel weights
- Balanced well enough to suit any operator but also heavy duty design and construction to be used as a hammer
- Makes wheel balance weight work simple and quick
- Manufactured from drop forged, heat treated steel with PVC dipped handles



Part No.	Jaw Opening (Max)	Jaw Length	Cutting Jaw	Face	Overall Length
<b>309243</b>	30mm	40mm	12mm	Ø 20mm	240mm

## TYRE & WHEEL



### TYRE VALVE CORE TORQUE TOOLS

- Specifically designed to torque the tyre valve core to the correct specification as required in the tyre pressure monitoring systems (TPMS)
- Moulded handle allows for a secure grip
- Accuracy: +/- 6%

Part No.	Torque Setting	Overall Length
<b>309030</b>	25Ncm (2in. lbs.)	120mm
<b>309029</b>	45Ncm (4in. lbs.)	120mm

### TYRE VALVE REMOVER SET

- For the removal and installation of tyre valve cores
- Moulded plastic handles allow for a secure grip
- Regular reach unit for passenger vehicles and motorcycles
- Long reach unit ideal for trucks with deep dish wheels



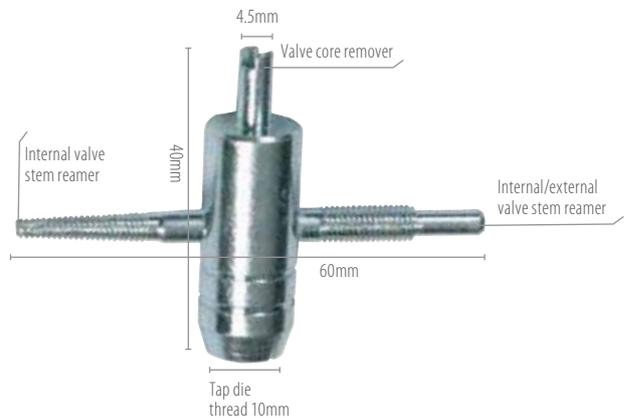
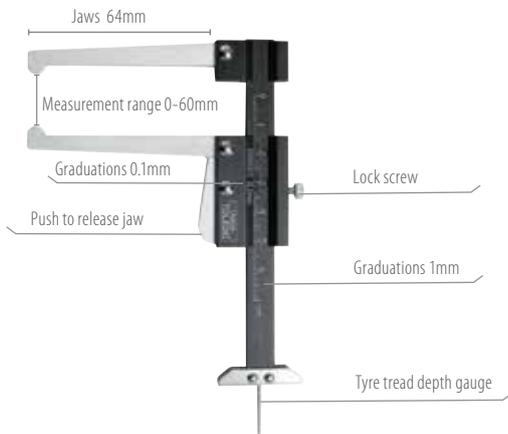
Part No.	Overall Length	Pieces
<b>309246</b>	110mm/155mm	2

### TYRE VALVE REMOVER & INSTALLER 180° HEAD

- Rubber bumper slides up and down the tool shaft in order to protect wheel rims from possible damage during valve removal or installation
- Ideal for use on tyres with snap-in valves



Part No.	Size	Overall Length
<b>309000</b>	5/16" x 32T	370mm



### TYRE DEPTH & DISC BRAKE GAUGE

- Floating jaw assembly enables easy removal of caliper from disc while retaining the gauge reading
- Simple and easy to use tool used to attain measurements of disc brake thickness and tyre tread depth
- Graduated main body and graduated sliding bar with locking screw
- Durable aluminium construction



Part No.	Measuring Range	Graduated Body	Graduated Sliding Bar
<b>310020</b>	0 - 60mm	1mm	0.1mm

### TYRE VALVE REMOVER 4 WAY

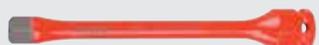
- For the removal and installation of tyre valves and valve cores on both tubed and tubeless tyres
- Tapped ends repair both inner and outer valve threads
- High grade tempered steel construction
- Suitable for standard valves



Part No.	Size (Length x Width x Thickness)
<b>309245</b>	34 x 49 x 15mm

### TORQUE EXTENSION BARS

- Designed to torque wheel nuts and bolts to the correct tension as specified by the vehicle manufacturer
- Colour coded extension bars for quick reference to size, designed with pre-tension torque rating
- Both ends feature a 1/2" square drive
- Overall length per bar: 195mm
- Available individually or part of a set
- Kit supplied in custom moulded plastic hard case

Part No.	Description				Pieces
<b>309500</b>	Torque extension bar set				10
Contents	Description	Nm	Overall Length	Image	
309501	Torque extension bar - Green	90Nm	195mm		
309502	Torque extension bar - Black	100Nm	195mm		
309503	Torque extension bar - Yellow	110Nm	195mm		
309504	Torque extension bar - Red	120Nm	195mm		
309505	Torque extension bar - Dark Blue	135Nm	195mm		
309506	Torque extension bar - Orange	150Nm	195mm		
309507	Torque extension bar - Grey	160Nm	195mm		
309508	Torque extension bar - Brown	175Nm	195mm		
309509	Torque extension bar - White	190Nm	195mm		
309510	Torque extension bar - Light Blue	200Nm	195mm		



309500

### WHEEL BEARING LOCK NUT SOCKETS

- Heavy duty wheel bearing lock nut sockets for the removal and installation of wheel bearing locking nuts
- Extra deep clearance and thin wall design to suit most applications
- Manufactured from high strength steel tube
- 3/4" square drive



309003

309004

309008

Part No.	Socket Type	Size
<b>309001</b>	Hexagon 6 point	2 3/32"
<b>309014</b>	Hexagon 6 point	2 1/4"
<b>309006</b>	Hexagon 6 point	2 3/8"
<b>309023</b>	Octagon 8 point	2 3/8"
<b>309015</b>	Hexagon 6 point	2 1/2"
<b>309002</b>	Hexagon 6 point	2 9/16"
<b>309021</b>	Hexagon Rounded 6 point	2 9/16"
<b>309016</b>	Hexagon 6 point	2 5/8"
<b>309017</b>	Hexagon 6 point	2 3/4"

Part No.	Socket Type	Size
<b>309018</b>	Octagon Rounded 8 point	2 3/4"
<b>309025</b>	Hexagon 6 point	2 7/8"
<b>309024</b>	Hexagon 6 point	3"
<b>309003</b>	Hexagon 6 point	3 1/4"
<b>309026</b>	Octagon 8 point	3 1/4"
<b>309004</b>	Hexagon 6 point	3 1/2"
<b>309005</b>	Octagon 8 point	3 1/2"
<b>309019</b>	Octagon 8 point	3 3/4"
<b>309027</b>	Octagon 8 point	3 13/16"

Part No.	Socket Type	Size
<b>309020</b>	Hexagon 6 point	3 7/8"
<b>309022</b>	Octagon 8 point	3 7/8"
<b>309008</b>	Hexagon 6 point	4"
<b>309009</b>	Hexagon 6 point	4 1/8"
<b>309010</b>	Hexagon 6 point	4 3/8"
<b>309011</b>	Octagon 8 point	4 3/8"
<b>309038</b>	Octagon 8 point	4 13/16"
<b>309012</b>	Hexagon 6 point	4 7/8"
<b>309013</b>	Octagon 8 point	4 7/8"

### WHEEL HANGER PIN SET

UNIVERSAL

- Ideal for fitting and removing heavy SUV and 4x4 wheels including wheels with spacers
- Reduces the chance of cross threading when tightening
- Includes one wheel hanger sleeve for wheel stud style
- Aligns brake disc and hub when fitting wheels
- Suitable for most European applications
- Manufactured from hardened steel for strength and durability
- Supplied in nylon storage wallet



Part No.	Description	Size	Application	Image
<b>309110</b>	Male	M12 x 1.5	Audi, Alfa Romeo, BMW, MB, Mini, Porsche, Volvo and VW	
	Male	M14 x 1.5	Audi, BMW, Citroen, Chrysler, Ferrari, Fiat, Ford, GM, Hyundai, Land Rover, Lamborghini, MB, Peugeot, Porsche, Renault, Saab, Seat, Skoda, Volvo and VW	
	Male	M14 x 1.25	Mini Cooper and BMW	
	Male	M16 x 1.5	Fiat, Land Rover and Peugeot	
	Female	M12 x 1.5	Lexus, Toyota and Volvo	



### WHEEL NUT SOCKETS

IMPACT NARROW THIN WALL

- Heavy duty impact sockets specifically designed for use on alloy and performance wheels, but also suitable for standard wheels
- Removable protective plastic shell protects the alloy wheel from damage
- Extra heavy duty and built to endure the rigours of a professional workshop
- All sockets are deep and feature a 1/2" square drive (except 19mm which is 3/4")
- Supplied in custom moulded plastic hard case



Part No.	Description	Size	Pieces
<b>309300</b>	Metric set	17, 19, 21mm	3
<b>309032</b>	Metric set - Extra Long 150mm	17, 19, 21mm	3
<b>309036</b>	Metric set	15, 17, 19, 21, 22mm	5
<b>309350</b>	Metric set	17, 19, 21, 22, 23, 24, 27mm	7
<b>309400</b>	Imperial set	3/4", 13/16", 7/8", 1", 1 1/16"	5

### INDIVIDUAL SIZES AVAILABLE SEPARATELY

Part No.	Size	Part No.	Sizes
309301	17mm	309305	23mm
309302	19mm	309306	24mm
309303	21mm	309307	27mm
309304	22mm		

### TORQUE MULTIPLIER NUT CRACKING SET

3200NM

- Heavy duty kit for removing stubborn wheel nuts on heavy vehicles, light commercial trucks, buses and vans
- Uses reduction gears to create a multiplication force
- Provides progressive build of force instead of shock impact
- Ergonomic rotation handle provides comfort and stability
- Manufactured from heavy duty chrome molybdenum for strength and durability
- Features seven deep 75mm six point 1" square drive impact sockets, rotation handle and 200mm male extension bar
- Supplied in custom moulded plastic hard case with clip-lockable lid

Part No.	Description	Specifications/Sizes
<b>309055</b>	Multiplication ratio	56 : 1
	Square drive	1" Sq. Dr.
	Socket sizes 1" Sq. Dr. Hex	24, 27, 30, 32, 33, 36 & 38mm
	Output force (Max)	3200Nm / 2360 ft. lbs.



### INDIVIDUAL SOCKETS AVAILABLE SEPARATELY (1" SQ. DR. X 6PT)

Part No.	Size	Part No.	Size
30903724	24mm	30903735*	35mm
30903727	27mm	30903736	36mm
30903730	30mm	30903738	38mm
30903732	32mm	30903741*	41mm
30903733	33mm		

\*Not included in 309055 kit



### TORQUE MULTIPLIER

1500NM

- Heavy duty unit designed for use in applications where a higher than otherwise achievable torque rating is required
- Multiplication ratio of 3 to 1 with planetary gear design
- Ideal for breaking difficult or frozen fastener applications
- Head assembly features 1/2" square drive (female) for use with torque wrench, ratchet, breaker bar or power drive etc. and 3/4" square drive (male) for use with sockets
- Extension bar and stabiliser also included



Part No.	Description	Specifications
<b>321009</b>	Multiplication ratio	3 : 1
	Input drive	1/2" Sq. Dr. female
	Input force (Max)	500Nm / 365 ft. lbs.
	Output drive	3/4" Sq. Dr. male
	Output force (Max)	1500Nm
	Accuracy	+/- 4%
	Dimensions	A: 73mm, B: 127mm, C: 10mm, D: 25mm, E: 83mm
	Weight	1.60Kgs





**WHEEL BEARING LOCK NUT WRENCH SET**  
ADJUSTABLE

- Adjustable wrench tool kit for the removal of wheel bearing lock nuts
- Adjustable jaws to suit both 6 and 8 point wheel bearing lock nuts
- Locking mechanism ensures jaws are rigid to prevent slipping on narrow lock nuts
- Includes three pairs of pins for use on pin type locknuts
- Ideal for 4WD applications

Part No.	Size Range	Pin Diameter	Torque (Max)
<b>311014</b>	45 - 145mm	Ø 6 x 43mm (2 Pc.), 8 x 43mm (2 Pc.), 10 x 43mm (2 Pc.)	677nm (500ft. lb)



**WHEEL CHOCK/PARKING STOPPER**

- Extra heavy duty wheel chock prevents car slide while acting as an additional safety measure
- Manufactured from polypropylene



Part No.	Size (Length x Width x Height)
<b>309041</b>	240 x 135 x 120mm



**WHEEL WRENCH**  
TELESCOPIC

- Innovative and versatile telescopic wrench used for the removal and installation of wheel nuts
- Telescopic extension provides generous leverage for removal of stubborn or rusted wheel nuts and bolts



Part No.	Socket Sizes	Telescopic Extension
<b>309248</b>	17, 19, 21, 23mm	340 - 530mm



**TRUCK & TRAILER WHEEL PAN**

- Specifically designed for use during truck and trailer wheel repair
- Used to catch oil from wheel hubs after removing cap
- Easy pour evacuation mouth and ergonomic handles with storage capability for hub nuts
- Manufactured from polypropylene, non warping and durable



Part No.	Capacity	Rim Diameter Capacity
<b>309039</b>	3L	Ø 350mm