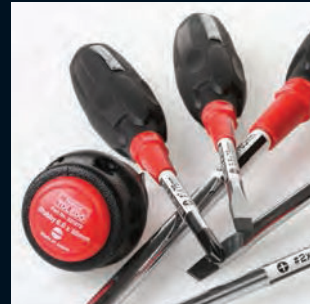
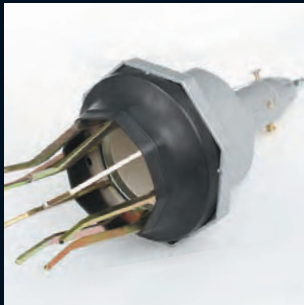


**FAMOUS
TOLEDO**
EXCELLENCE BY DESIGN



MASTER **TOOL CATALOGUE**



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AIR/PNEUMATIC



SPRAY CLEANING GUN
PNEUMATIC FLEXIBLE HEAD 1L



- Air operated cleaning gun for degreasing and cleaning parts
- Flexible head allows for deep cleaning in hard to reach areas and crevices
- Features handy hanging hook for storage
- Flexible delivery hose with adjustable spray pattern nozzle
- Simply connects to workshop air supply and is suitable for use with most automotive degreasers
- Ideal for detailing engine bays, cleaning transmission, differential and wheel hub components etc.
- Spares: Replacement flexible hose and nozzle (Part No. 305165A)



Part No.	Working Pressure	Air Inlet	Flexible Hose	Spares
305165	70 - 110 psi (5-8 bar)	1/4"	320mm	305165A



SANDBLASTING GUN
PNEUMATIC ADJUSTABLE HEAD 1L



- Effective way of removing contaminants on hard surfaces such as rust, paint and lacquer and smooth or rough surfaces
- Suitable for automotive and industrial applications
- Supplied with adjustable steel nozzle to control output flow rate
- Manufactured from heavy duty polyurethane with steel head
- Suitable for use with walnut shells, aluminium oxide or any appropriate abrasive media

Note: Toledo does not supply abrasive media

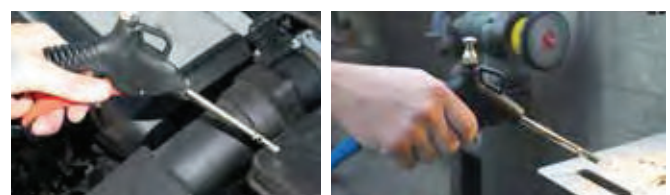


Part No.	Working Pressure	Air Inlet	Nozzle Length
305166	87 - 145 psi (6-8bar)	1/4"	88mm



AIR BLOW GUNS
TRIGGER STYLE

- Trade quality range provides maximum air output with minimal noise
- Ergonomic design for extended use without fatigue or discomfort for user
- Safety versions feature cut-outs in nozzle to eliminate danger if contact is made with user
- Adjustable air flow control (not 321103)
- All feature a 1/4" steel air inlet for heavy duty use
- Air flow: 1175L/M @ 150 psi



Part No.	Description	Nozzle (Length x Width)
321100	High flow safety	100 x 8mm
321101	High flow safety	355 x 8mm
321102	High flow	60 x 8mm
321103	High flow rubber tip	120 x 6 - 16mm

BRAKE CALIPER PISTON WIND BACK MASTER KIT
PNEUMATIC

- Professional trade kit suitable for both right and left handed applications
- Pneumatic operation allows for easy wind back to return brake caliper piston to the resting position during removal, installation or service repairs of the disc brake pads
- Air operated ram applies pressure to the caliper position while the handle is rotated by hand
- Non-impact force with variable trigger for controlled speed
- Magnetic pad securely holds adaptors in place
- Easy to use – works on standard workshop air supply
- Suitable for use on both wind back and push back pistons
- Solid cast aluminium body and chrome alloy steel parts for maximum durability



Part No.	Working Pressure	Air Inlet	Adaptors
310375	115 psi	1/4"	15

Item Ref.	Application (F = Front, R = Rear)	Item Ref.	Application (F = Front, R = Rear)	Item Ref.	Application (F = Front, R = Rear)
0	GM most 2-1/2" diameter pistons	6	Nissan Primera, Volkswagen Golf IV	E	Nissan Maxima, Ford
2	Citroen XM – Xantia (F&R), Honda	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), Renault, SAAB, Seat Volkswagen Golf Gti, Jetta Synchro, Jetta Gti 16v, Passat, Citroen, Fiat, Honda, Jaguar, Alfa Romeo	F(G)	Opel (R)
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)	8	GM most 1-7/8" diameter pistons	K	Ford Motors, Mini R68, Mazda 3
4	Ford Australia and NZ, Mazda (R), Saab 9000 (R), Toyota, Fiat, Alfa Romeo 164 2.0 (R), Honda Prelude, CRS 16i	9	GM most 2-1/8" diameter pistons	M	SAAB, Honda, Alfa Romeo, VAG
5	3/8" adaptor	A(Z)	Renault R21, Laguna (R)	N	Citroen

AIR GUN/POWER TOOL HOLDER
MAGNETIC

- Holds one tool and four sockets



Part No.	Magnets	Overall Length
301187	2 x Circular	370mm

COOLING SYSTEM VACUUM PURGE & REFILL KIT
PNEUMATIC

- This kit eliminates the need for bleeding and purging system to remove air pockets and allows quick refill of coolant into the system
- Includes flexible hose for easier work with hard to reach connections
- Gauge features pressure release valve and shock proof protective rubber casing



Part No.	Working Pressure	Air Consumption	Air Inlet
308552	90 psi	12 CF/M	1/4" BSP

AIR/PNEUMATIC



AIR PULSE PARTS CLEANER
PNEUMATIC LOCKABLE 20L

- Portable air pulse parts cleaner to attach to standard workshop airline
- Lockable lid with latches, side handgrips and a drain plug/stopper
- Air pulse agitates submerged part to loosen dirt and grime
- In-line valve fitted to control air flow
- Suitable for use with any water based degreasers
- Manufactured from high grade plastic to ensure maximum corrosion resistance and features extendable internal aluminium pallet

Note: Not for use with strong acid or alkali

Part No.	Working Pressure	Air Inlet	Dimensions (External)
305162	90 - 115 psi/6 - 8 bar	1/4"	600 x 450 x 270mm



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

Note: Not suitable for plastic type CV boots

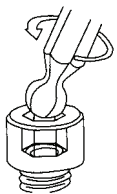


Part No.	CV Joint Diameter	Working Pressure	Air Inlet
311018	Ø25 - 110mm	72 - 113 psi (Max 125 psi)	1/4"

BITS & KEYS

HEX KEY SETS
BALL POINT

- Double ended tools featuring one standard hex end and one ball hex end
- Ball end improves access to application and up to 25° working angle for increased speed and ease of entry
- Manufactured from heat treated vanadium steel with industrial black finish
- Supplied on handy storage clip



HKM



HKMAF

Part No.	Description	Fastener Type	Size x Length	Pieces
HKM	Hex key set - Metric	⬢	2.5 x 90mm, 3.0 x 100mm, 4.0 x 110mm, 5.0 x 115mm, 6.0 x 140mm, 8.0 x 160mm, 10.0 x 180mm	7
HKAF	Hex key set - Imperial	⬢	3/32" x 90mm, 1/8" x 100mm, 5/32" x 110mm, 3/16" x 115mm, 1/4" x 140mm, 5/16" 160mm, 3/8" x 180mm	7

BIT SETS

- Various compact bit sets covering a wide range of fastener types and sizes
- Supplied in various storage styles
- Bits are manufactured from hardened and tempered vanadium steel



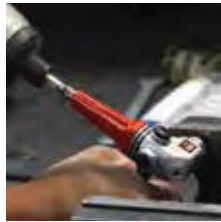
Part No.	Description	Fastener Type	Contents & Sizes	Pieces	Part No.	Description	Fastener Type	Contents & Sizes	Pieces
301667	Torx bit set		Torx bits (Hex 1/4"): T10, T15, T20, T25, T27, T30, T40, T45, T50	11	301934	Multi-bit set		Hex bits: 4mm, 5mm, 6mm, 8mm, 10mm, 12mm	37
301668	Tamper-proof torx bit set		Tamper-proof Torx bits (Hex 1/4"): T10, T15, T20, T25, T27, T30, T40	8				Spline bits: M4, M5, M6, M7, M8, M9, M10, M11, M12	
301318	Tamper-proof 5 point torx bit set		Tamper-proof Torx bits (Hex socket adaptor 1/4"): T10, T15, T20, T25, T27, T30, T40, T45, T50	11				Ribe bits: M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14	
301168	Ribe bit set		Torx bits: T10, T15, T20, T25, T27, T30, T40, T45, T50, T55, T60, T70	21				Bit holder: 3/8" & 1/2" Sq. Dr. Bit extension (90mm)	
301096	Multi-bit set	 	Ribe bit (Hex 10mm): Short (40mm) M5, M6, M7, M8 M9, M10, M11, M12, M13, Long (75mm) M5, M6, M7, M8, M9, M10, M11, M12, M13, M14	33	301447	Multi-bit set		Slotted bits: 4mm x 7, 6mm x 7	100
		 	Bit holder: 3/8" & 1/2" Sq. Dr.					Pozidriv bits: PZ1 x 7, PZ2 x 7, PZ3 x 7	
		 	Bit holder: 1/4" Hex extension magnetic (60mm)					Tamper-Proof Torx bits: TX10, TX15, TX20, TX25, TX27, TX30, TX40	
								Phillips bits: PH1 x 7, PH2 x 7, PH3 x 7	
								Torx bits: T10, T15, T20, T25, T27, T30, T40 (1 each)	
								Hex bits: H4 x 7, H5 x 7, H6 x 7	
								Bit holder: 1/4" Quick release (60mm) & extension magnetic (60mm)	

BITS & KEYS



SCREWDRIVER
RIGHT ANGLE DRILL ATTACHMENT

- Highest quality right angle drill attachment is compatible for use with both corded and cordless drills
- Angled 90° head provides easy access to tight and hard to reach applications
- Heavy duty aluminium construction with multi-positional stabilising handle which features an inbuilt storage compartment
- Made in Japan



Part No.	Fastener Type	Torque	Size
321921		49Nm	Phillips #1 & #2



SCREWDRIVER
STUBBY GEARLESS

- Unique gearless operation provides critically precise, accurate and acute adjustment
- Completely smooth and gearless operation
- Reversible operation with firm locking bit attachments and 1/4" square drive
- Made in Japan



Part No.	Fastener Type	Size
321920		Phillips #1, #2, #3
		Slotted 4.5, 6.0, 7.0mm



301987

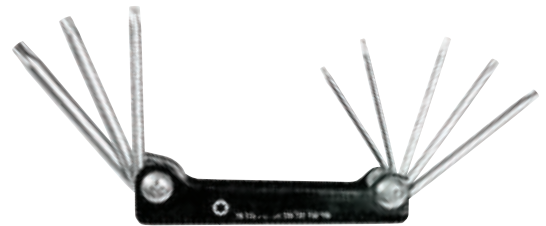


301988

T-HANDLE SETS
HEX & TORX

- T-handle design with unique sliding T-bar and three key points
- Manufactured from high quality chrome vanadium steel
- Supplied in handy storage wallets with identification markings

Part No.	Description	Fastener Type	Size	Pieces
301987	T-handle key set - Hex		2.0, 2.5, 3.0, 3.5 x 125mm, 4.0, 4.5, 5.0 x 180mm, 6.0 x 210mm	8
301988	T-handle key set - Torx		T10, T15, T20 x 125mm, T25, T27, T30 x 180mm, T40 x 210mm	7



TAMPER-PROOF TORX TOOL

- For the removal and installation of six point screws, bolts and fittings
- Compact tool design with tamper proof (six point) fittings on each end for quick and easy operation
- Manufactured from heat treated chrome vanadium steel

Part No.	Fastener Type	Size
301119		T9, T10, T15, T20, T25, T27, T30, T40



321044



301938



301937

EXTENSION BAR SETS
WOBBLE 15°

- Wobble extension bars enable up to 15° of movement/wobble at the male end
- Each bar features knurling for improved gripping and a spring loaded ball bearing to securely hold attachment
- Manufactured from drop forged chrome vanadium steel for maximum strength and longevity




Part No.	Square Drive	Lengths	Pieces
321044	1/4"	50, 75, 150, 250, 450mm	5
301938	3/8"	45, 75, 150, 250, 450mm	5
301937	1/2"	50, 125, 250, 500mm	4



E-STAR SOCKET SET
7 PIECE

- Sockets for use on E-Star fasteners commonly used in modern automotive applications, particularly European vehicle makes
- Manufactured from drop forged chrome vanadium steel for maximum strength and longevity
- Supplied on reusable and mountable socket rail

Part No.	Square Drive	Fastener Type	Size	Pieces
301666	1/4"		E6, E7, E8	9
	3/8"		E10, E11, E12, E14, E16, E18, E20	



301065

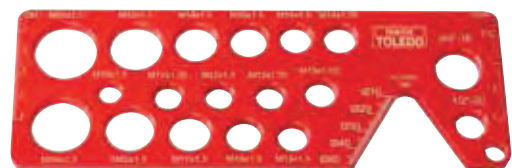


301066

THREAD FILES
INTERNAL & EXTERNAL

- For the restoration of damaged, worn and corroded threads
- Eight internal thread repairers (thread identifiers) and eight external thread files
- Manufactured from heat treated plated steel

Part No.	Thread Files	Pitch	Overall Length
301065	Metric	0.80, 1.00, 1.25, 1.50, 1.75, 2.00, 3.00 mm	230mm
301066	Imperial	10, 11, 12, 14, 16, 18, 20, 24 TPI	230mm



BOLT PITCH GAUGE
METRIC

- Quickly and easily identify bolt size and pitch
- Features 18 different pitch and thread size range, including two imperial sizes
- Includes 5cm (2") rule on edges and flange diameter gauge
- Magnetic rear backing and hang hole ensures safe and easy storage
- Easy to read markings
- Manufactured from ABS plastic for strength and durability

Part No.	Thread	Size	Overall Size
321108	Metric	M10x1.5, M12x1.75, M12x1.5, M12x1.25, M13x1.25, M13x1.5, M14x1.25, M14x1.5, M15x1.5, M16x1.5, M17x1.5, M18x1.5, M20x1.5, M22x1.5, M24x1.5, M26x1.5	195 x 70mm
	Imperial	3/4"-16, 1/2"-20	

THREAD RESTORING SETS

- For the restoration of damaged, worn and corroded threads
- Available in variable set options including Metric/Imperial only and a master set

Note: These tool kits are not suitable for use with hardened threads or for cutting new threads



THREAD FILE & PITCH GAUGE SET
METRIC & IMPERIAL 5 PIECE

Part No.	Thread Files	Size
301068	Metric	0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00 mm
	Imperial UNC	11, 12, 13, 14, 16, 18, 20, 24 TPI
	Imperial UNF	9, 10, 12, 16, 20, 27, 28, 32 TPI
	Pitch Gauges	Size
	Metric	0.40, 0.45, 0.50, 0.60, 0.70, 0.75, 0.80, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00, 3.50, 4.00, 4.50, 5.00, 5.50, 6.00 mm
Imperial UNC/UNF	4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 26, 27, 28, 32 TPI	

THREAD FILE, TAP & DIE SET
METRIC 15 PIECE

Part No.	Thread Files	Size
301450	Metric	0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00
	Taps & Dies	Size
	Metric Tap	M6 x 1.00, M8 x 1.25, M10 x 1.25, M10 x 1.50, M12 x 1.25, M12 x 1.50, M12 x 1.75
	Metric Dies	M6 x 1.00, M8 x 1.25, M10 x 1.25, M10 x 1.50, M12 x 1.25, M12 x 1.50, M12 x 1.75

THREAD FILE & DIE SET
IMPERIAL 18 PIECE

Part No.	Thread Files	Size
301500	Imperial UNC	11, 12, 13, 14, 16, 18, 20, 24 TPI
	Imperial UNF	9, 10, 12, 16, 20, 27, 28, 32 TPI
	Dies	Size
	Imperial UNC	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"
	Imperial UNF	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"

THREAD FILE, TAP & DIE MASTER SET
METRIC & IMPERIAL 51 PIECE

Part No.	Taps & Dies	Size
321010	UNC Taps	1/4 x 20, 5/16 x 18, 3/8 x 16, 7/16 x 14, 1/2 x 13, 9/16 x 12
	UNC Dies	1/4 x 20, 5/16 x 18, 3/8 x 16, 7/16 x 14, 1/2 x 13, 9/16 x 12, 5/8 x 11
	UNF Taps	1/4 x 28, 5/16 x 24, 3/8 x 24, 7/16 x 20, 1/2 x 20, 9/16 x 18
	UNF Dies	1/4 x 28, 5/16 x 24, 3/8 x 24, 7/16 x 20, 1/2 x 20, 9/16 x 18, 5/8 x 18
	Metric Taps	M6 x 1.00, M8 x 1.25, M8 x 1.50, M10 x 1.00, M10 x 1.25, M10 x 1.50, M11 x 1.50, M12 x 1.25, M12 x 1.50, M12 x 1.75, M14 x 1.50
	Metric Dies	M6 x 1.00, M8 x 1.25, M8 x 1.50, M10 x 1.00, M10 x 1.25, M10 x 1.50, M11 x 1.50, M12 x 1.25, M12 x 1.50, M12 x 1.75, M14 x 1.50
	Thread Restoring Files	Size
	No. 1 Metric	0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00mm
	No. 2 Imperial UNC	11, 12, 13, 14, 16, 18, 20, 24 TPI
	No. 12 Imperial UNF	8, 9, 10, 11½, 20, 27, 28, 32 TPI



THREAD RESTORING SETS

TAP & DIE RATCHET HANDLE

- For the restoration of damaged, worn and corroded threads
- Includes pitch gauge, taps, dies, tap holder, die holder and ratcheting handle
- Supplied in custom moulded plastic hard case with clip-lock



321048



321049



321050

Part No.	Description	Thread Pitch Gauge	Size	Pieces
321048	Metric set	0.5 - 1.75mm	Metric: M3 x 0.5, M3 x 0.6, M4 x 0.7, M4 x 0.75, M5 x 0.8, M5 x 0.9, M6 x 1.0, M7 x 1.0, M8 x 1.25, M9 x 1.0, M9 x 1.25, M10 x 1.25, M10 x 1.5, M11 x 1.5, M12 x 1.5, M12 x 1.75 BSP: 1/8" x 28 UNC: 4 x 40, 6 x 32, 8 x 32, 10 x 24, 12 x 24, 1/4 x 20, 5/16	40
321049	Imperial set	12 - 40TPI	UNC: 4 x 40, 6 x 32, 8 x 32, 10 x 24, 12 x 24, 1/4 x 20, 5/16 x 18, 3/8 x 16, 7/16 x 14, 1/2 x 13 UNF: 10 x 32, 1/4 x 28, 5/16 x 24, 3/8 x 24, 7/16 x 20, 1/2 x 20 NPT: 1/8" X 27	40
321050	Metric & Imperial set	0.5 - 1.75mm & 12 - 40TPI	Metric: M3 x 0.5, M3 x 0.6, M4 x 0.7, M4 x 0.75, M5 x 0.8, M5 x 0.9, M6 x 1.0, M7 x 1.0, M8 x 1.25, M9 x 1.0, M9 x 1.25, M10 x 1.25, M10 x 1.5, M11 x 1.5, M12 x 1.5, M12 x 1.75 BSP: 1/8" x 28 UNC: 4 x 40, 6 x 32, 8 x 32, 10 x 24, 12 x 24, 1/4 x 20, 5/16 x 18, 3/8 x 16, 7/16 x 14, 1/2 x 13 UNF: 10 x 32, 1/4 x 28, 5/16 x 24, 3/8 x 24, 7/16 x 20, 1/2 x 20 NPT: 1/8" X 27	75

TAP & DIE RATCHET HANDLE SET

HIGH SPEED STEEL (HSS)

- Manufactured from a high performance special steel which improves hardness and wear resistance
- This HSS kit is superior to standard high carbon steel kits and is designed for extra heavy duty enduring use



Part No.	Description	Thread Pitch Gauge	Size	Pieces
321075	Metric set - high speed steel	0.5 - 1.75mm	M3 X 0.5, M4 X 0.7, M5 X 0.8, M6 X 1.0, M8 X 1.25, M10 X 1.5, M12 X 1.75	20

BOLT & THREAD

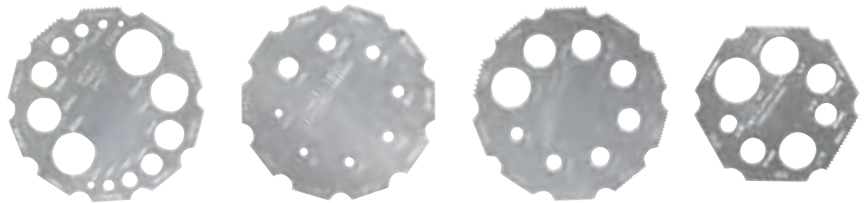


THREAD PITCH GAUGE SET
METRIC & IMPERIAL 2 PIECE

- Designed to easily identify thread pitch sizes including Metric and Imperial
- Twelve pitch blades per tool
- Manufactured from stainless steel for superior strength and durability
- Two piece set



Part No.	Thread	Pitch
301067	Metric	0.50, 0.60, 0.70, 0.75, 0.80, 0.90, 1.00, 1.25, 1.50, 1.75 mm
	Imperial	12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40 TPI



THREAD GAUGE SET
METRIC & IMPERIAL 4 PIECE

- For quick and easy identification of thread diameter and pitch sizes including Metric, SAE, UNF, UNC and BSP styles
- Holes in gauges allow easy identification of component sizes
- Ideal for identifying bolts, fittings, pipe and spark plug sizes
- Manufactured from soft aluminium alloy

Part No.	Thread	Size	Pitch
301064	Metric	2.5, 3, 4, 5, 6, 7, 8, 10, 12, 14, 16, 18, 20, 22mm	0.45, 0.50, 0.70, 0.80, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50mm
	Imperial UNC	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"	10, 11, 12, 13, 14, 16, 18, 20, 24, 28 TPI
	Imperial UNF	#5, #6, #8, #10, #12, 1/4", 5/16", 3/8"	16, 18, 20, 24, 28, 32, 36, 40, 44 TPI
	Pipe Thread NPT	1/16", 1/8", 1/4", 3/8", 1/2"	1.00, 1.50, 14, 18, 20, 27 TPI
	Spark Plug	10, 12, 14, 18mm	



THREAD CHASER SET
EXTERNAL

- Universal outside thread chaser specifically designed with precision dies to restore and repair damaged threads
- Six interchangeable precision dies to suit a wide selection of modern vehicle fastener threads and studs
- Use prior to disassembly can prevent long equipment down times and costly thread or stud repairs
- Working Capacity: 31 - 127mm (1 1/4" - 5") O.D.

Part No.	Thread	Pitch
301152	Metric	1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00 & 4.00 mm
	Imperial	4, 5, 6, 7, 7.5, 8, 9, 10, 11, 11.5, 12, 14, 16, 18, 20 & 24 TPI



301750



301285



301076

NUT SPLITTERS

- Designed for the removal of rusted, seized or stubborn nuts safely and without damage to the stud or bolt
- Flat round head design to allow operation in areas where working space is limited
- Hydraulic option includes the quality Toledo 10 tonne ram
- Manufactured from drop forged vanadium steel for superior strength and durability under impact
- Spares: Ram repair kit - Includes seals (small & large), hydraulic oil and installation guide (Part No. 265001)

Part No.	Description	Size Range	Forcing Screw/Ram	Spares
301076	Mechanical nut splitter set 2 Pc.	3 - 16 & 10 - 25mm	14, 19mm	-
301285	Mechanical nut splitter set 4 Pc.	9 - 12, 12 - 16, 16 - 22, 22 - 27mm	12, 14, 19, 21mm	-
301750	Hydraulic nut splitter set 10 Tonne	10 - 48mm	10 Tonne ram	265001



301550



301600

STUD REMOVER SETS

- Quickly and easily remove studs without excessive force
- Suitable for removing or setting head studs, exhaust manifold studs and broken bolt head studs etc
- Popular sizes to accommodate a wide range of automotive applications
- Unique concentric roller bearing design prevents damage to thread when in use
- Pass through design enables use on longer studs
- Manufactured from high quality chrome vanadium steel for superior strength and durability



Part No.	Description	Size	Square Drive	Overall Length	Pieces
301550	Stud remover set - Imperial	3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	3/8" & 1/2"	230mm	6
301600	Stud remover set - Metric	5, 6, 7, 8, 10, 12, 14mm	3/8" & 1/2"	230mm	7



STUD SETTER & EXTRACTOR

- Compact and versatile stud extractor ideal for removing broken or seized studs
- Eccentric rotating operation designed for maximum force with little effort



Part No.	Size Range	Square Drive
301910	6 - 19mm	1/2"

SCREW EXTRACTOR DRILL & GUIDE SET

25 PIECE

- Comprehensive extractor kit designed for the removal of stubborn broken studs and screws using a drill
- Removes studs with the highest allowable torque without expansion, breaking or jamming
- Fluted extractors provide a solid grip on broken studs or screws
- Ideal kit for automotive, building, engineering, plumbing and electrical trades

Part No.	Size Range	Pieces
301534	3/16" to 9/16" (4 - 14mm)	25

Ref.	Description	Size	Ref.	Description	Size
G1	Drill guide	9/32" (7.14mm)	N4	Extractor nut	5/16" (7.92mm)
G2	Drill guide	5/16" (7.94mm)	N5	Extractor nut	11/32" (8.73mm)
G3	Drill guide	11/32" (8.73mm)	1	Extractor Piece	1/4" (6.35mm)
G4	Drill guide	3/8" (9.35mm)	2	Extractor Piece	1/8" (3.175mm)
G5	Drill guide	13/32" (10.32mm)	3	Extractor Piece	11/32" (8.73mm)
G6	Drill guide	7/16" (11.11mm)	4	Extractor Piece	3/16" (4.76mm)
G7	Drill guide	15/32" (11.91mm)	5	Extractor Piece	5/16" (7.92mm)
G8	Drill guide	1/2" (12.70mm)	-	Drill Bit	1/8" (3.175mm)
G9	Drill guide	17/32" (13.49mm)	-	Drill Bit	3/16" (4.76mm)
G10	Drill guide	9/16" (14.29mm)	-	Drill Bit	1/4" (6.35mm)
N1	Extractor nut	1/8" (3.175mm)	-	Drill Bit	5/16" (7.92mm)
N2	Extractor nut	3/16" (4.76mm)	-	Drill Bit	11/32" (8.73mm)
N3	Extractor nut	1/4" (6.35mm)			





321067



301521



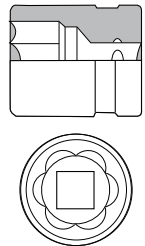
301544



301585

TWIST SOCKET SETS

- Twist sockets remove damaged or seized nuts, bolts, studs and nipples easily and efficiently
- Eliminates the need for chisels, hammers or pliers to remove stubborn and seized components
- Single twist sets: Single twist socket at one end and single hex at the other to maximise versatility
- Double twist sets: Single twist socket at one end and double twist socket for added grip and a larger bite at the other
- Manufactured for impact use and constructed from a tough, heat treated ductile alloy steel for superior strength and durability



Part No.	Description	Contents	Pieces
301544	Single twist socket set	Sockets: 17, 19, 21mm & 1/2" Sq. Dr. bit holder	4
301521	Single twist socket set	Sockets: 8, 10, 12, 13, 14, 15, 16, 17, 19, 21mm, Drift punch small 8mm, Drift punch large 8 - 12mm	12
321067	Single twist socket master set	Sockets 1/2" Sq. Dr./21mm Hex: 6 - 22, 24, 27mm, Drift punches 4.4 x 70mm & 5.9 x 80mm	21
301585	Double twist socket set	Sockets: 17, 19, 21mm & 1/2" Sq. Dr. bit holder	4

DOWEL PIN REMOVER KIT

METRIC 7 PIECE

- Remove worn or damaged dowels and alignment pins quickly and efficiently with this comprehensive collet kit
- Ideal for automotive applications such as engine blocks and cylinder heads, crankshafts and camshafts
- Hardened chrome vanadium steel slide hammer and six collets with sizes suited to modern passenger and light commercial vehicles
- Supplied in custom moulded plastic hard case
- Spares: Replacement collets available



Part No.	Description
301719	Dowel pin remover kit
	Contents
	Description
-	Slide hammer assembly (720g)
-	Collet socket
301722	Collet 6mm
301723	Collet 8mm
301724	Collet 10mm
301725	Collet 12mm
301726	Collet 14mm
301727	Collet 16mm





T404030



T404000

CHUCK KEYS

- High quality, precision chuck keys built to last
- Manufactured from chrome molybdenum for superior strength & durability
- Comprehensive range to cover almost all applications in Australia & New Zealand
- Range includes 6 specialty sized keys and one universal multi size unit with ratcheting function

Part No.	Description	Chuck Size	Pilot Size
T404003	Key No. 3	16mm	7.9mm
T404010	Key No. 10	10mm	6.0mm
T404030	Key No. 30	13mm	5.9mm
T404034	Key No. 34	10/13mm	6.0mm
T404036	Key No. 36	10mm	5.9mm
T404038	Key No. 38	13mm	6.3mm
T404000	Ratcheting chunk key 4 in 1 - Master	6mm (1/4"), 10mm (3/8"), 13mm (1/2")	-



SCREW EXTRACTOR SET

6 PIECE

- For removal of broken screws, bolts or studs
- Utilises left hand thread design to lock and remove broken component
- Ideal for automotive, industrial and hardware applications
- Manufactured from heat treated high grade steel for superior strength and durability
- Six piece set suitable for use on screw or bolts from 3 - 25mm

Part No.	Size Range	Pieces
301075	M3 (1/8") - M6 (1/4")	6
	M6 (1/4") - M8 (5/16")	
	M8 (5/16") - M11 (7/16")	
	M11 (7/16") - M14 (9/16")	
	M14 (9/16") - M18 (3/4")	
	M18 (3/4") - M25 (1")	

CLAMPING & FASTENING

ANCHOR BOLT TOOL

HOLLOW WALL

- Specialty tool used for setting anchor bolts
- Correctly activates wall bolt into position by flush mounting into position and locking rear on back of wall
- Suitable for use with Tridon anchor bolts Part No. TWB01



TWB01 (200Pc)



321000



Part No.	Description	Suits
321000	Anchor bolt tool	M4, M5, M6
TWB01	Tridon anchor bolts 200/Pcs	-



PUNCH TOOL
PREFORM BAND CLAMP



- Safely and quickly installs preform style clamp
- Tool has tension, punch and cut off function
- Spares: Replacement punch (Part No. 321002A)

Part No.	Sizes	Overall Length	Spares
321002	15, 16mm	300mm	321002A



301104



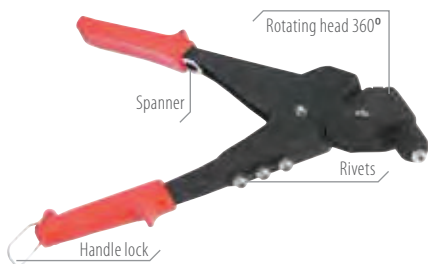
CT1

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)

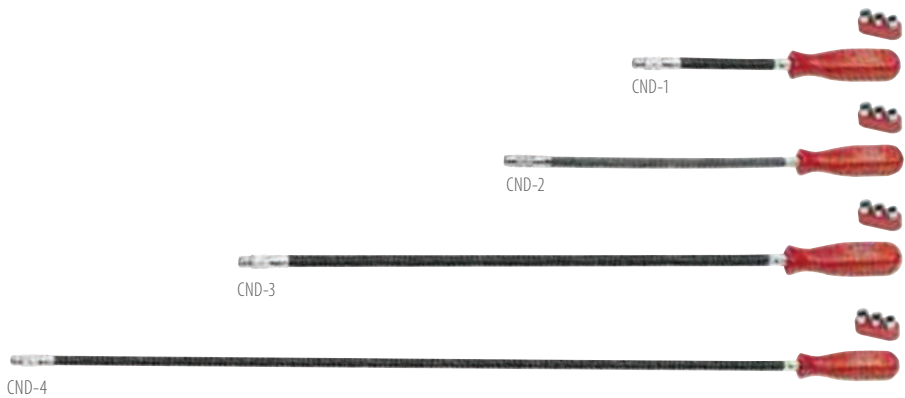
Part No.	Application	Capacity	Overall Length
301104	Band style clamps on CV boots	10mm (3/8")	230mm
CT1	Tridon uniband (UB) clamps & strapping	25mm (1")	420mm



HAND RIVET TOOL

- Spring loaded handle and rotating head to suit variable applications and maximise ease of use
- Interchangeable heads for each rivet size, with spanner included
- Powder coated main body with ergonomic plastic handles and locking latch

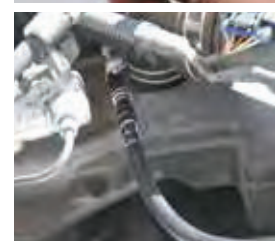
Part No.	Rivet Sizes	Overall Length
301809	2.4, 3.2, 4.0, 4.8mm	280mm



HOSE CLAMP NUT DRIVERS

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

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





CABLE TIE CUTTERS
PLASTIC & METAL

- Automatic tensioning and cut-off of cable ties to produce a safe, neat and professional finish
- Two options to cater for both plastic/nylon and metal cable ties



Part No.	Description	Cutting Capacity (Width x Thickness)	Overall Length x Width
CTC2065	Cable tie cutter - Metal (including S/S)	12 x 0.3mm	220 x 100mm
302500	Cable tie cutter - Plastic	5 x 2mm	160 x 20mm



SPRING CLAMPS

- Flexible jaw spring clamps manufactured from high strength plastic
- Lightweight, holds object without force concentration
- Designed to grip flat or odd shaped surfaces
- Ergonomic handles for comfort and ease of operation

Part No.	Description	Jaw Opening (Max)
301657	Spring clamp single	25mm
301659	Spring clamp single	50mm
301660	Spring clamp single	75mm
301656	Spring clamp set 10pc	4 x 25mm, 4 x 50mm, 2 x 75mm



BENCH VICES
STRAIGHT

- Robust bench vices designed and built for the professional workshop
- Manufactured from high quality grey iron castings with high compression strength along with excellent shock absorbing capabilities
- High quality precision machining delivers smooth operation and trouble free service life
- Fully enclosed spindle construction protects the threads from contaminants and damage
- Hardened jaws (45 +/- 5 HRC)
- Spares: Replacement pair of jaws available

Part No.	Jaw Width	Jaw Opening (Max)	Weight	Spare Jaw Set (2 Pc.)
301862	100mm	125mm	9.2kg	301865A
301863	150mm	175mm	21.4kg	301866A
301864	200mm	200mm	32.0kg	301867A



BENCH VICES
OFFSET

- Robust bench vices designed and built for the professional workshop
- High quality steel construction to withstand shocks from hammering, chipping and heavy duty applications
- Integrated anvil for shaping and beating, along with an extra heavy duty sliding jaw with large diameter
- Forged tommy bar and main screw to assist with effective pressure transmission
- Spares: Replacement pair of jaws available

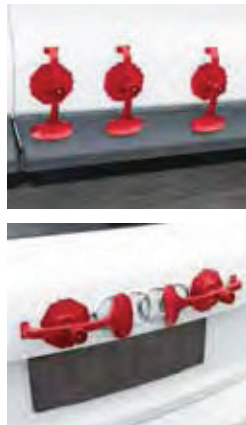
Part No.	Jaw Width	Jaw Opening (Max)	Weight	Spare Jaw Set (2 Pc.)
301868	100mm	120mm	7.5kg	301868A
301869	150mm	150mm	21.0kg	301869A
301870	200mm	200mm	43.0kg	301870A

CLAMPING & FASTENING



SUCTION PAD CLAMP SET
PLASTIC 6 PIECE

- Ideal for holding down trims, badges, windcreens, rain and light sensors on windcreens etc. during repair or whilst waiting for adhesives to set
- Adjustable suction clamps will not mark after being removed
- Manufactured from durable plastic with octagonal rubber suction pads
- Suitable on most non-porous surfaces such as metal or glass



Part No.	Pad Size (Octagonal)	Pieces
321106	80mm (flat to flat)	6



G-CLAMPS

- Suitable for metal work and woodwork applications
- Powder coated body and precision cut, black phosphate finished spindle screw for maximum durability and corrosion resistance
- Broad swivel pad allows for even distribution of pressure on angled or uneven surfaces
- Ideal for metal and wood work, industrial and construction applications
- Made from high grade ductile 60,000 psi S.G. iron castings

Part No.	Throat Opening (Max)	Throat Depth (Max)	Part No.	Throat Opening (Max)	Throat Depth (Max)
301876	75mm	44mm	301873	200mm	80mm
301871	100mm	59mm	301874	250mm	90mm
301872	150mm	75mm	301875	300mm	100mm



PANEL/SLAB CARRYING SET
PAIR

- Trade professional set ideal for carrying glass and windcreens
- Ergonomic handles with large rubber pads firmly secure glass
- Light weight and robust aluminium construction
- Also suitable for carrying stone slabs, counter tops and other sheet goods
- Supplied in heavy duty carry case

Part No.	Jaw Opening (Max)	Capacity	Pad Size (W x H)
321107	40mm	160kg	80 x 200mm





CLEANING BRUSH SETS

2 PIECE

- Sturdy, compact and simple tools for small cleaning jobs, particularly in hard to reach places and confined spaces
- Suitable for rust, scale, ingrained dirt removal
- Each set comes with one curved and one straight brush



Part No.	Description	Pieces
301001	Steel bristles - Curved x 1 (220mm) Straight x 1 (210mm)	2
301002	Nylon bristles - Curved x 1 (220mm) Straight x 1 (210mm)	2
301073	Brass bristles - Curved x 1 (220mm) Straight x 1 (210mm)	2
301074	Stainless Steel bristles - Curved x 1 (220mm) Straight x 1 (210mm)	2
301003	Cleaning brush set - nylon, brass, steel	3



WIRE BRUSH

WOODEN HANDLE

- Heavy duty steel bristles suitable for removing rust, corrosion, scale and ingrained dirt
- Bristles are hardened and tempered for strength and durability
- Oil resistant ergonomic wooden handle prevents slippage when in use
- Suitable for automotive and industrial applications



Part No.	Configuration	Overall Length
321077	5 x 14 row	235mm

CLEANING BRUSH

ALLOY WHEEL

- Non-scratching soft bristles specifically designed for cleaning alloy wheels
- Bends in order to access hard to reach, awkward and small crevices



Part No.	Handle	Overall Length
301909	Plastic	240mm

CLEANING BRUSH

PARTS

- Strong and durable brush with plastic handle and heavy duty flexible bristles
- Ideal for cleaning engine and transmission spares, brake parts and bearings
- Built in easy hanging hole



Part No.	Bristles/Head Diameter	Overall Length
301004	Ø 25mm	260mm

CLEANING



PNEUMATIC SPRAY CLEANING GUN
FLEXIBLE HEAD 1L

- Air operated cleaning gun for degreasing and cleaning parts
- Flexible head allows for deep cleaning in hard to reach areas and crevices
- Flexible delivery hose with adjustable spray pattern nozzle
- Features built-in handy hanging hook for easy storage
- Connection to workshop air supply and is suitable for use with most automotive degreasers
- Ideal for detailing engine bays, cleaning transmission, differential and wheel hub components etc.
- Spares: Replacement flexible hose and nozzle (Part No. 305165A)



Part No.	Working Pressure	Air Inlet	Spares
305165	70 - 110 psi	1/4"	305165A



305153

305154

PRESSURE SPRAY BOTTLES
VITON SEALS

- 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
- Heavy duty chemical resistant Viton* seals and carbon fibre components and handle
- Easy to use pump action mechanism with top mounted thumb trigger
- Environmentally safe way of disbursing liquids in a safe and controlled manner
- Nozzle can be adjusted from a fine spray to a direct jet
- Spares: Replacement seal kit (Part No. 305153A)



Part No.	Description	Working Pressure	Spares
305153	Spray bottle 1L	50 - 70 psi	305153A
305154	Spray bottle 2L	50 - 70 psi	305153A

*Viton is a registered trademark of DuPont Performance Elastomers L.L.C..

INSPECTION & PICK-UP

STETHOSCOPES

- Specialty sonic diagnostic units used to locate noises within machinery, engines, compressors, transmissions, drive trains etc.
- 301009: Aluminium probe with extension piece and plastic noise cancelling ear phones
- 301637: Electronic 9V battery operated (included), headset, adjustable microphone with volume control and flexible probe



301009



301637



301637



Part No.	Description	Probe Length	Cord Length
301009	Stethoscope standard	90mm (210mm extension)	-
301637	Stethoscope digital	200mm	700mm

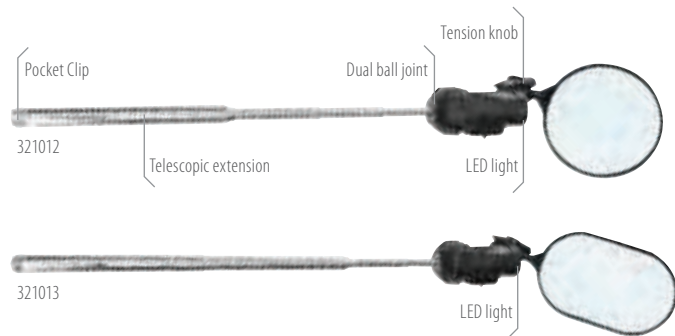


THERMOMETER
DIGITAL INFRARED

- Portable and easy to use infrared thermometer for point and shoot temperature taking
- Laser sighting for simple one hand operation, backlit LCD display, auto-hold function and auto power off
- Supplied with protective pouch, laser end cap and 9 volt battery included
- Ideal for automotive, engineering and industrial etc.



Part No.	Specifications			
321500	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)		



INSPECTION MIRRORS W/LIGHTS
LED

- Specially designed to enable maximum manoeuvrability with adjustable ball joint for variable tension and stiffness
- Long life LED bulbs and stainless steel components
- Telescopic extension with in-built pocket clip
- Premium options made in Japan
- Batteries included (3 x LR44 batteries)
- Made in Japan

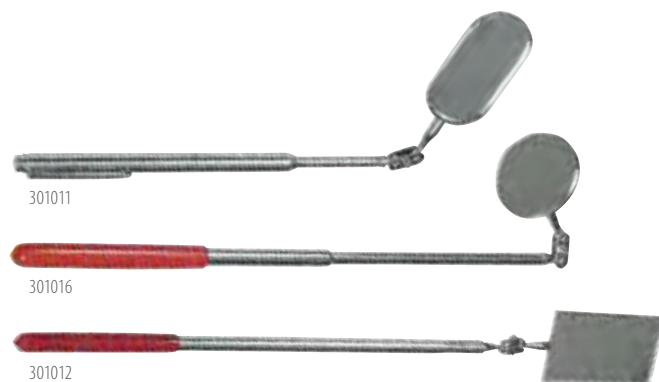
Part No.	Mirror Shape	Telescopic Range	Mirror Dimension	Handle
321012	Circle	100 - 530mm	Ø 60mm	Steel
321013	Oval	100 - 530mm	80 x 50mm	PVC Dipped



INSPECTION & PICK-UP MASTER KIT
CIRCLE MIRROR, MULTI-BULB LED, PICK UP TOOL

- Advanced inspection and pick-up kit for the professional workshop
- Innovative replaceable bulbs including one each of Blue, White and UV
- Magnetic pick up capability in head and base
- Robust and firm adjusting flexible cord with rubber moulding for extra strength and durability
- Spares: Replacement bulb set 3 Pc. (Part No. 301399A)

Part No.	Mirror Diameter	Magnet Capacity	Spares
301399	Ø 38mm	0.5 & 1.5Kg	301399A

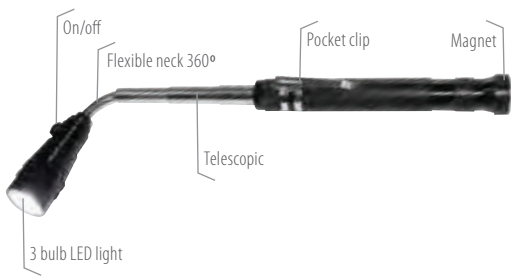


INSPECTION MIRRORS

- Professional range of inspection tools for visual access to otherwise inaccessible areas
- All feature a universal swivel joint head to enable complete 360° rotation and viewing

Part No.	Mirror Shape	Mirror Dimension	Telescopic Range	Handle
301011	Oval	25 x 50mm	200 - 520mm	Steel
301012	Square	50 x 88mm	215 - 490mm	PVC Dipped
301016	Circle	Ø 50mm	200 - 355mm	PVC Dipped

INSPECTION & PICK-UP



INSPECTION LIGHT
TELESCOPIC W/MAGNET

- Durable and reliable LED flash light with telescopic extension and 360° flex head
- Magnetic body and head with pick-up capability of 1kg each
- Pocket size for easy transportation and ease of use
- Durable aluminium casing with pocket clip
- Batteries included (4 x LT44 batteries)

Part No.	Telescopic Range	Magnet Capacity
321033	170 - 550mm	1kg



PICK-UP TOOL
FLEXIBLE SHAFT MAGNETIC

- Long and narrow flexible shaft/cord style pick up tool is essential for accessing confined and difficult to reach areas
- Stainless steel probe with ergonomic handle

Part No.	Shaft/Cord Diameter x Length	Magnet Capacity	Overall Length
301017	Ø 6.5 x 405mm	500g	510mm

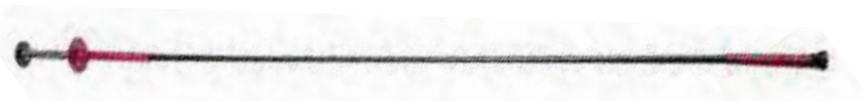


PICK-UP TOOLS
TELESCOPIC MAGNETIC

- Varying styles of pick-up tools with pocket clip and telescopic extension
- Strong magnetic force enables firm retrieval and pick-up of ferrous material
- All are manufactured from stainless steel



Part No.	Description	Handle	Telescopic Range	Magnet Diameter	Magnet Capacity
301014	Pick up tool w/scriber	Stainless steel	150 - 670mm	Ø 6mm	200g
301019	Pick up tool	PVC dipped	125 - 640mm	Ø 13mm	2.5kg
301298	Pick up tool	Rubber moulded	170 - 760mm	Ø 7mm	700g
301299	Pick up tool	Rubber moulded	170 - 760mm	Ø 13mm	3.6kg



PICK-UP TOOL
CLAW TYPE

- Flexible shaft with spring loaded extendable retrieval claw function
- Pressing the button downward extends the spring loaded claw, as the button returns to rest position the claw closes and secures object

Part No.	Diameter (Probe Head)	Claw Opening (Max)	Magnet Capacity	Overall Length
301697	7 x 15mm	25mm	1kg	700mm



PICK-UP TOOL
TELESCOPIC BROOM STYLE

- Designed as a heavy duty option for retrieving ferrous material from workshop floors and surrounding areas
- Broom style with telescopic handle is simple, efficient and easy to use
- Quick release function and in-built wheels to provide an easy way of manoeuvring the unit around the workshop or factory floor

Part No.	Telescopic Range	Head Width	Magnet Capacity	Overall Length
301189	650 - 960mm	385mm	9Kg	700mm





MALLETS
RUBBER

- Ideal for applications that require soft blows
- Will not damage the work piece on impact
- Black natural rubber head provides enough force without causing damage

Part No.	Weight	Face Diameter	Overall Length
321090	16Oz/0.45kg	Ø 62mm	310mm
321091	24Oz/0.68kg	Ø 70mm	310mm

HAMMERS
DEAD BLOW

- Hollowed cylindrical heads containing steel pellets to achieve a dead blow during striking
- Manufactured from oil resistant Styrene-Butadiene Rubber (SBR) with a moulded rubber handle for superior comfort and grip
- Shock-less, non-bouncing, non-marring, non-sparking



Part No.	Weight	Face Diameter	Head Length	Overall Length
301079	14 oz/0.4kg	Ø 35mm	90mm	280mm
301080	20 oz/0.6kg	Ø 45mm	90mm	300mm
301081	37 oz/1.0kg	Ø 55mm	110mm	350mm
301082	54 oz/1.5kg	Ø 65mm	130mm	375mm

HAMMER
SOFT FACE

- Ideal for fine bodywork adjustment or striking finely finished surfaces without causing damage
- Replaceable impact nylon and poly tips ensure damage free striking without the risk of chipping
- Made from durable zinc alloy steel with soft comfortable rubber grips
- Non-sparking and non-marring
- Spares: Replacement tip set 1 x Nylon & 1 x Poly (Part No. 321303A)

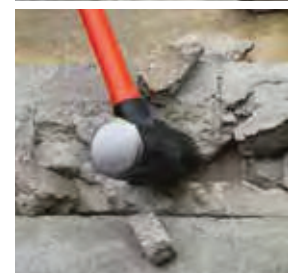
Part No.	Face Diameter	Overall Length	Spares
321303	Ø 35mm	300mm	321303A



HAMMERS

- Core range of premium essential hammers designed for the trade professional and commercial environment
- Made extra heavy duty to ensure maximum strength, durability and service life
- Ergonomically designed to ensure maximum comfort and grip
- Unique carbon fibre handles are lighter, more comfortable and result in 25% greater force concentration
- Fibreglass handles for the claw and sledge hammers are extra strong to cater for their rigorous applications

Part No.	Description	Handle	Weight	Overall Length
321051	Ball peen hammer - Alloy steel	Carbon fibre	16 oz/0.45 Kg	330mm
321052	Ball peen hammer - Alloy steel	Carbon fibre	24 oz/0.68 Kg	375mm
321053	Ball peen hammer - Alloy steel	Carbon fibre	32 oz/0.91 Kg	380mm
321054	Ball peen hammer - Alloy steel	Genuine hickory	16 oz/0.45 Kg	345mm
321055	Curved claw hammer - Alloy steel	Carbon fibre	20 oz/0.57 Kg	330mm
321056	Club hammer - Carbon steel	Fibreglass & rubber	3 Lb/1.36 Kg	265mm
321057	Sledge hammer - Carbon steel	Fibreglass & rubber	10 Lb/4.56 Kg	910mm

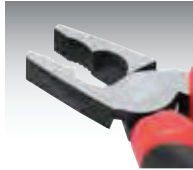


PLIERS



COMBINATION PLIERS

- Firm gripping combination pliers with heavy duty cutter
- Ergonomically designed dual component handles
- Serrated gripping zones for flat and round materials
- Suitable for cutting both soft and hard wire
- Manufactured from high grade chrome molybdenum with polished and black phosphate finish



DIAGONAL CUTTING PLIERS

- Heavy duty diagonal cutters for powerful, efficient and precise cutting
- Ergonomically designed dual component handles
- Suitable for cutting both soft and hard wire
- Manufactured from high grade chrome molybdenum with polished and black phosphate finish



Part No.	Description	Jaw Opening (Max)	Overall Length
301990	Combination Pliers	40mm	180mm
301991	Combination Pliers	45mm	210mm
301992	Combination Pliers	32mm	230mm

Part No.	Description	Jaw Opening (Max)	Overall Length
301993	Diagonal cutting plier	22mm	160mm
301994	Diagonal cutting plier	22mm	180mm
301995	Diagonal cutting plier	20mm	200mm



MULTI-GRIP PLIERS

- Firm gripping, holding and clamping
- Ergonomically designed dual component handles
- Deep hardened teeth with gripping zones suitable for flat, round and obscure objects
- Manufactured from high grade chrome molybdenum with polished and black phosphate finish
- 301998: Seven position box joint allows for adjustable jaw opening
- 301999: Push-lock button with thirty two position adjustable jaw opening



LONG NOSE PLIERS

- Firm gripping, manipulating and cutting most types of components and wires
- Excellent control and reach in confined spaces
- Suitable for cutting both soft and hard wire
- Ergonomically designed dual component handles
- Manufactured from high grade chrome molybdenum with polished and black phosphate finish

Part No.	Description	Jaw Opening (Max)	Overall Length
301998	Multi-grip plier 7 position	35mm	250mm
301999	Multi-grip plier 32 position	70mm	300mm

Part No.	Description	Jaw Opening (Max)	Overall Length
301996	Long nose plier - Straight tip	85mm	210mm
301997	Long nose plier - Angled tip 45°	75mm	210mm



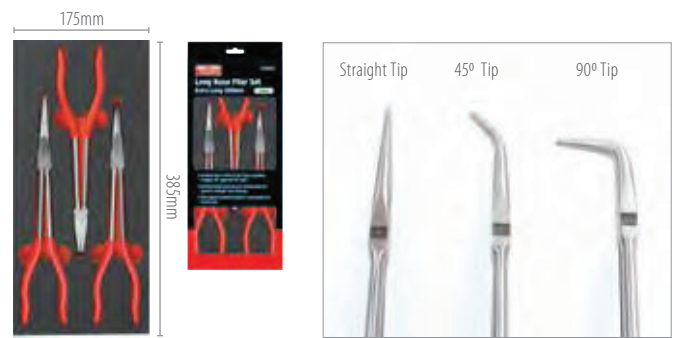
WORKSHOP PLIER SETS

4 PIECE

- Popular plier sets contain one each of the most common workshop pliers
- Available in either a reusable EVA storage tray or handy tool roll

Note: Replacement tool roll available (Part No. TPSA02RL) Can be used to store up to four pliers maximum 250mm long

Part No.	Description	Pieces	
TPSA01	Workshop plier set in EVA foam tray	4	
TPSA02	Workshop plier set in tool roll	4	
	Contents	Description	Qty
	301991	Combination plier 210mm	1
	301995	Diagonal cutter 200mm	1
	301996	Long nose plier 210mm	1
	310998	Multi-grip plier 250mm	1
TPSA02RL	Empty tool roll only		



EXTRA LONG NOSE PLIER SET

280MM 3 PIECE

- Three different tip styles including straight, 45° bent and 90° bent
- For firm gripping and manipulating of components and wires
- Extra-long for additional reach into otherwise inaccessible areas
- PVC dipped handles provide a comfortable and secure grip
- Serrated gripping zones grip firmly
- Thin profile jaws for improved access
- Manufactured from chrome molybdenum for superior strength and durability
- Supplied in EVA foam storage tray

Part No.	Description	Tip Style	Qty
TPSA03	Extra long nose plier	Straight Tip	1
	Extra long nose plier	45° Tip	1
	Extra long nose plier	90° Tip	1

MERCHANDISERS - WORKSHOP PLIERS

- In store wall mount merchandiser provides a compact point of sale solution for popular Toledo pliers



Part No.	Contents	Description	Qty
TPMA01	301991	Combination plier 210mm	3
	301995	Diagonal cutter 200mm	3
	301996	Long nose plier 210mm	3
	301997	Long nose plier - Bent tip 45° 210mm	3
	301998	Multi-grip plier 250mm	3



Part No.	Contents	Description	Qty
TPMA02	301990	Combination plier 180mm	3
	301992	Combination plier 230mm	3
	301993	Diagonal cutter 160mm	3
	301994	Diagonal cutter 180mm	3
	301999	Multi-grip plier 300mm	3

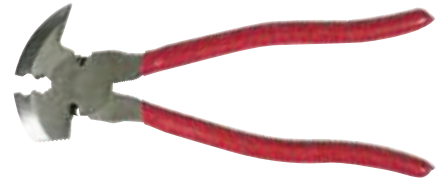
PLIERS



FP10



FP10H



FENCING PLIERS

COMBINATION

- For cutting, gripping and manipulating components and wires, commonly used in fencing and farming applications
- Combination pliers including three specially designed wire cutters
- Serrated gripping zones for flat and round material
- Manufactured from drop forged alloy steel for superior strength and durability
- PVC dipped handles

Part No.	Description	Jaw Opening (Max)	Jaw Width	Overall Length
FP10	Fencing plier 260mm	52mm	13mm	260mm
FP10H	Fencing plier 260mm w/holster	52mm	13mm	260mm
FP12	Fencing plier 300mm	60mm	14mm	300mm



FENCING PLIERS

PARROT BEAK

- Designed for cutting, crimping, swaging, hammering and gripping wire and staples commonly used in fencing and farming applications
- Features two specially designed wire cutters, parrot lever assembly, serrated hammer and gripping zone, swager and crimper
- Manufactured from drop forged alloy steel for superior strength and durability
- PVC dipped handles

Part No.	Jaw Opening (Max)	Jaw Width	Overall Length
HP10	32mm	14.5mm	270mm



FCP-1



SCP-1



PINCING PLIERS

- Specialty tools in either "Top" or "Side & Top" join styles designed for use with Tridon double ear hose clamps
- Precision cutting edges for cutting, twisting or crimping
- Manufactured from drop forged alloy steel for superior strength and durability
- PVC dipped handles

Part No.	Description	Jaw Width	Jaw Opening (Max)	Overall Length
FCP-1	Side & top jaw pincer	Top: 18mm Side: 8mm	Top: 23mm Side: 19mm	220mm
SCP-1	Top join pincer	24mm	25mm	250mm

NIPPING PLIERS

END CUTTING/CONCRETE

- Precision cutting edges for cutting and twisting steel fixing wire
- Suitable for most soft, medium and hard wires
- Manufactured from drop forged alloy steel for superior strength and durability
- PVC dipped handles

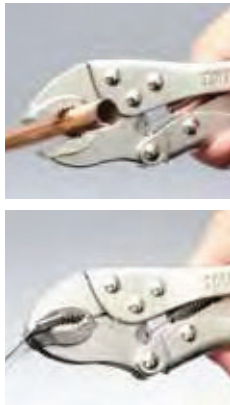


Part No.	Jaw Opening (Max)	Jaw Width	Overall Length
EN8	14mm	31mm	200mm



LOCK-GRIP PLIERS

- Curved jaws for better contact on bolt heads, nuts and round work
- Permits user to apply extra pressure across four points of contact on any style nut/bolt head
- Adjusting screw and self locking with release lever
- Manufactured from chrome molybdenum with nickel plating



Part No.	Jaw Opening (Max)	Jaw Width	Overall Length
VG180	38mm	12mm	180mm
VG250	45mm	12mm	250mm



LOCK-GRIP PLIERS SHEET METAL

- Powerful jaws grip firmly across front edge
- Adjusting screw and self locking with release lever
- Applications include bending, forming, clamping and crimping sheet metal
- Manufactured from chrome molybdenum with nickel plating



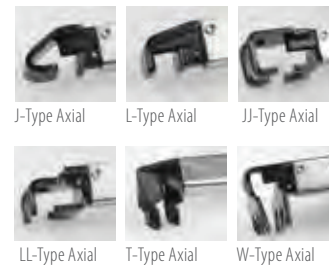
Part No.	Jaw Opening (Max)	Jaw Width	Overall Length
301980	55mm	100mm	250mm



LOCK-GRIP PLIERS SLIDING HAMMER

- Curved jaws for better contact on bolt heads, nuts and round work
- Permits user to apply extra pressure across four points of contact on any style nut/bolt head
- Slide hammer assembly allows for additional pulling force to remove extra stubborn items
- Ideal tool for the easy removal of rusty bolts, nails, staples, dowels and split pins
- Manufactured from chrome molybdenum with nickel plating

Part No.	Jaw Opening (Max)	Jaw Width	Slide Hammer	Plier Length	Overall Length
VG210LP	40mm	12mm	1Kg x 370mm	210mm	600mm



LOCK-GRIP PLIER SET SHEET METAL & MULTI-GRIP

- Comprehensive set of sheet metal gripping pliers designed for clamping all types of sheet metal for spot welding
- Contains six popular plier styles with quick release levers
- Manufactured from tempered steel body and chrome molybdenum head
- Supplied in custom moulded plastic hard case with jaw identification markings

Part No.	Style	Jaw Opening (Max)	Overall Length
301279	J-Type Axial	10mm	200mm
	L-Type Axial	15mm	200mm
	JJ-Type Axial	10mm	200mm
	LL-Type Axial	8mm	200mm
	T-Type Axial	15mm	200mm
	W-Type Axial	10mm	200mm

PLIERS



WIRE TWIST PLIERS

- For the twisting and installation of steel fixing wire using the inbuilt wire lock and twist return mechanism
- Serrated gripping zones firmly grab wire and robust cutter neatly cuts wire without distortion
- Manufactured from drop forged alloy steel for superior strength and durability



SNAP RING (LOCK RING) PLIERS

- Spreads snap lock-rings on brakes, transmissions, pedal shafts, clutch shafts and machine tools
- Externally serrated jaws to firmly grab the lock ring
- Black phosphate finished steel and PVC dipped handles
- Spares 301683: Replacement angled & straight tip set (Part No. 301683A)

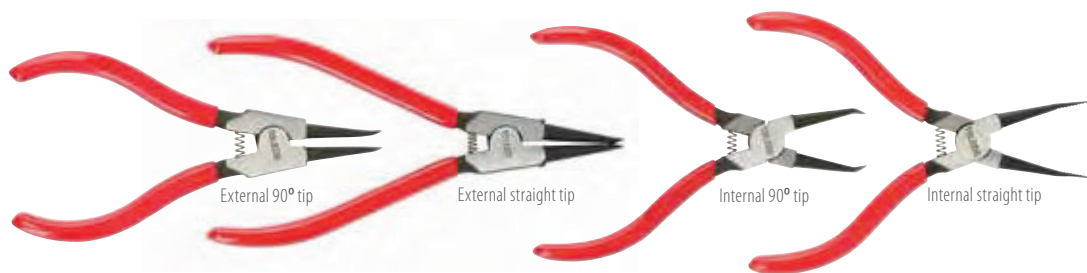


Part No.	Jaw Opening (Max)	Jaw Width	Overall Length
301103	21mm	10mm	170mm
301102	29mm	12mm	230mm

Part No.	Description	Jaw Opening	Jaw Width	Overall Length	Spares
301123	Angled tip	4-20mm	6.5mm	215mm	-
301124	Straight tip	4-20mm	6.5mm	215mm	-
301683	Angled & Straight tip	8-75mm	8mm	335mm	301683A

CIRCLIP PLIERS
PVC DIPPED HANDLES

- Comprehensive range of circlip pliers to cover all sizes and applications
- Manufactured from heat treated, drop forged steel with PVC dipped handles



Part No.	Description	Jaw Opening	Tip Diameter	Tip Length (A)	Tip Length (B)	Overall Length
301125	Internal straight tip	4 - 20mm	Ø 1.2mm	32mm	-	130mm /5"
301126	Internal 90° tip	4 - 20mm	Ø 1.0mm	22mm	10mm	130mm /5"
301127	External straight tip	4 - 20mm	Ø 1.2mm	32mm	-	130mm /5"
301128	External 90° tip	4 - 20mm	Ø 1.0mm	22mm	10mm	130mm /5"
301129	Internal straight tip	4 - 35mm	Ø 1.4mm	40mm	-	180mm/7"
301130	Internal 90° tip	4 - 35mm	Ø 1.3mm	30mm	10mm	180mm/7"
301131	External straight tip	4 - 35mm	Ø 1.4mm	40mm	-	180mm/7"
301132	External 90° tip	4 - 35mm	Ø 1.3mm	30mm	10mm	180mm/7"
301133	Internal straight tip	6 - 40mm	Ø 1.8mm	50mm	-	230mm/9"
301134	Internal 90° tip	6 - 40mm	Ø 2.0mm	35mm	10mm	230mm/9"
301135	External straight tip	6 - 40mm	Ø 1.8mm	50mm	-	230mm/9"
301136	External 90° tip	6 - 40mm	Ø 2.0mm	35mm	10mm	230mm/9"





CIRCLIP PLIER SET
PVC DIPPED HANDLES 4 PIECE

- Popular selection of circlip pliers supplied in Toledo tool roll with belt clip
- Four piece set contains straight tip pliers for internal and external circlip applications
- Replacement tool roll available (Part No. TPSA02RL)

Part No.	Description	Pieces	
TCPR01	Circlip plier set	4	
	Contents	Description Overall Length Qty	
	301125	Circlip Plier - Internal straight tip 130mm	1
	301127	Circlip Plier - External straight tip 130mm	1
	301133	Circlip Plier - Internal straight tip 230mm	1
301135	Circlip Plier - External straight tip 230mm	1	



CIRCLIP PLIER 160MM
QUICK CHANGE MULTI-TIP

- Universal set features various straight and angled tip sets to cover internal and external circlip applications
- Contains four tip sets which can be quickly interchanged on the head of the plier
- Manufactured from heavy gauge tempered steel with plastic moulded handles
- Spares: Replacement tip sets available

Part No.	Description	Jaw Opening (Max)	Overall Length
301141	Circlip plier set - Multi tip	19mm	160mm
	Contents	Description Tip Diameter Qty	
	301144	Tip set - straight (pair) Ø 1.2mm	1
	301145	Tip set - straight (pair) Ø 1.5mm	1
	301146	Tip set - angled 90° (pair) Ø 1.5mm	1
301147	Tip set - angled 45° (pair) Ø 1.5mm	1	



301800

301850

CIRCLIP PLIER SETS
HEAVY DUTY

- Heavy duty circlip plier sets to suit larger internal and external circlip applications
- Supplied with various straight and angled tips for universal applications
- Ratchet lock style mechanism to enable safe and easy removal and replacement of circlips
- Manufactured from heavy gauge tempered steel
- Supplied in custom moulded plastic hard case

Part No.	Description	Jaw Opening (Max)	Pieces	
301800	Heavy duty circlip plier set	75mm	18	
	Contents	Description Tip Diameter Qty		
	N/A	Heavy duty internal circlip plier 270mm	-	1
	N/A	Heavy duty external circlip plier 270mm	-	1
	301801	Straight tip set	Ø 2.75mm	1
	301802	Angled tip set 15° (Pair)	Ø 2.75mm	1
	301803	Angled tip set 45° (Pair)	Ø 2.75mm	1
	301804	Angled tip set 90° (Pair)	Ø 2.75mm	1
	301805	Straight tip set (Pair)	Ø 3.0mm	1
	301806	Angled tip set 15° (Pair)	Ø 3.0mm	1
	301807	Angled tip set 45° (Pair)	Ø 3.0mm	1
	301808	Angled tip set 90° (Pair)	Ø 3.0mm	1

Part No.	Description	Jaw Opening (Max)	Pieces	
301850	Heavy duty circlip plier set	85mm	14	
	Contents	Description Tip Diameter Qty		
	N/A	Heavy duty internal circlip plier 400mm	-	1
	N/A	Heavy duty external circlip plier 400mm	-	1
	301851	Straight tip set (Pair)	Ø 3.0mm	1
	301852	Angled tip set 45° (Pair)	Ø 3.0mm	1
	301853	Angled tip set 90° (Pair)	Ø 3.0mm	1

PLIERS

CIRCLIP PLIER SET

QUICK CONVERSION 10 PIECE

- Circlip pliers with quick conversion function to enable easy change over from internal to external circlip application
- Includes eight reversible circlip pliers and two pick tools
- Supplied in custom moulded plastic hard case

Part No.	Description	Pieces		
301939	Circlip plier set - Quick conversion	10		
	Description (N/A separately)	Tip Diameter	Overall Length	Qty
	Angled tip plier 90°	Ø 1.0mm	140mm	1
	Straight tip plier	Ø 1.0mm	150mm	1
	Angled tip plier 90°	Ø 1.2mm	140mm	1
	Straight tip plier	Ø 1.2mm	150mm	1
	Angled tip plier 90°	Ø 1.8mm	190mm	1
	Straight tip plier	Ø 1.8mm	200mm	1
	Angled tip plier 90°	Ø 2.3mm	215mm	1
	Straight tip plier	Ø 2.3mm	230mm	1
	Angled pick tool 90°	–	–	1
	Straight pick tool	–	–	1



321011

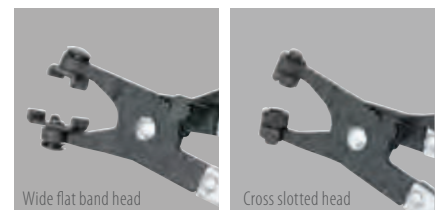


301030

301031



301171



Wide flat band head

Cross slotted head

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
321011	20mm	180mm

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
- Spring return for ease of use and operation
- Manufactured from chrome treated alloy steel with PVC dipped handles

Part No.	Jaw Style	Jaw Opening (Max)	Jaw Width	Overall Length
301030	Angles 45°	68mm	17mm	215mm
301031	Straight	45mm	11mm	215mm

HOSE CLAMP PLIER SET

CONSTANT TENSION 2 PIECE

- 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.	Jaw Opening (Max)	Jaw Width	Overall Length
301171	64mm	12mm	215mm



HOSE CLAMPING PLIER SET
ALUMINIUM 3 PIECE

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

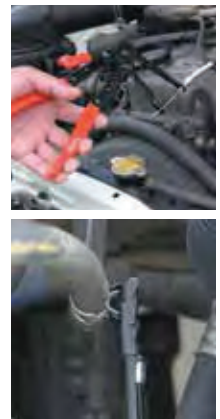


Part No.	Jaw Openings (Max)	Jaw Width	Overall Length
321105	16, 25, 64mm	9, 11, 12mm	150, 180, 250mm



HOSE CLAMP PLIERS
CONSTANT TENSION FLEXIBLE CORD

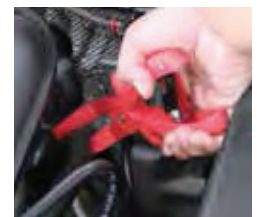
- For the installation and removal of constant tension style hose clamps
- Locking mechanism holds clamp in position and spring return ensures ease of operation
- Flexible cable offers extensive reach and access to difficult areas
- Black phosphate finished body and PVC dipped handles
- Manufactured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



Part No.	Body x Flexible Cord Length	Jaw Opening (Max)	Jaw Width
301172	210 x 630mm	53mm	21mm

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.



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

SCREWDRIVERS



SCREWDRIVER RANGE

- High quality range of professional screwdrivers
- Standard and Strike-Thru styles
- Maximum torquing and ergonomically designed
- 100% made in Japan

SPECIALTY MAGNETIC BLACK POINT TIPS

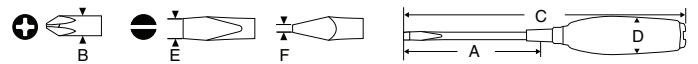
- Heavy duty, corrosion resistant long life tips
- Magnetic for easy fastener retention
- Precision fit for higher torque output
- Maintenance of fastener integrity

MATERIALS & WORKMANSHIP

- Premium Japanese chrome-molybdenum-vanadium steel
- Hardened and heat treated steel
- Polished chrome blade is corrosion resistant
- Japanese made and engineered
- Over 70 year history of screwdriver manufacturing

SCREWDRIVERS
ERGONOMIC

- Ergonomically designed dual component handles are comfortable and strong
- Finger dimpled handles for additional grip
- Hex shoulder enables additional force to be applied if necessary
- Magnetic black point tips extend life and provide a precision fit
- Non-roll handles for safety and convenience
- Ring screw applicator built in to base of handle
- Made in Japan



Part No.	Fastener Type	Description	A	B	C	D	E	F
321940	+	Phillips #1 x 75mm	75	5.5	175	25		
321941	+	Phillips #2 x 100mm	100	6.3	230	32		
321942	+	Phillips #2 x 150mm	150	6.3	280	32		
321943	+	Phillips #2 x 200mm	200	6.3	330	32		
321944	+	Phillips #3 x 150mm	150	8.0	280	32		
321945	-	Slotted 5.5 x 75mm	75	5.5	175	25	5.5	0.7
321946	-	Slotted 6.0 x 100mm	100	6.3	230	32	6.0	0.9
321947	-	Slotted 6.0 x 150mm	150	6.3	280	32	6.0	0.9
321948	-	Slotted 6.0 x 200mm	200	6.3	330	32	6.0	0.9
321949	-	Slotted 8.0 x 150mm	150	8.0	280	32	8.0	1.0

SCREWDRIVER SETS

ERGONOMIC



Part No.	Description	Pieces	
321980	Ergonomic screwdriver master set in removable foam trays & storage box	12	
Contents	Fastener Type	Description	Qty
321940	+	Phillips #1 x 75mm	1
321941	+	Phillips #2 x 100mm	1
321942	+	Phillips #2 x 150mm	1
321943	+	Phillips #2 x 200mm	1
321944	+	Phillips #3 x 150mm	1
321945	⊖	Slotted 5.5 x 75mm	1
321946	⊖	Slotted 6.0 x 100mm	1
321947	⊖	Slotted 6.0 x 150mm	1
321948	⊖	Slotted 6.0 x 200mm	1
321949	⊖	Slotted 8.0 x 150mm	1
321971	+	Phillips #2 x 30mm (stubby)	1
321972	⊖	Slotted 6.0 x 30mm (stubby)	1

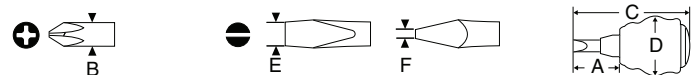
Part No.	Description	Pieces	
321982	Ergonomic screwdriver set in removable foam tray & storage box	8	
Contents	Fastener Type	Description	Qty
321940	+	Phillips #1 x 75mm	1
321941	+	Phillips #2 x 100mm	1
321944	+	Phillips #3 x 150mm	1
321945	⊖	Slotted 5.5 x 75mm	1
321946	⊖	Slotted 6.0 x 100mm	1
321949	⊖	Slotted 8.0 x 150mm	1
321971	+	Phillips #2 x 30mm (stubby)	1
321972	⊖	Slotted 6.0 x 30mm (stubby)	1

Part No.	Description	Pieces	
321983	Ergonomic screwdriver set with gearless stubby in foam tray	7	
Contents	Fastener Type	Description	Qty
321940	+	Phillips #1 x 75mm	1
321942	+	Phillips #2 x 150mm	1
321944	+	Phillips #3 x 150mm	1
321945	⊖	Slotted 5.5 x 75mm	1
321947	⊖	Slotted 6.0 x 150mm	1
321949	⊖	Slotted 8.0 x 150mm	1
321920	+	Gearless stubby w/bit set Phillips #1, #2, #3 Slotted 4.5, 6.0, 7.0mm	1

SCREWDRIVERS

STUBBY

- Range of stubby screwdrivers in differing style and design
- Essential for work in confined spaces and difficult access areas
- Made in Japan



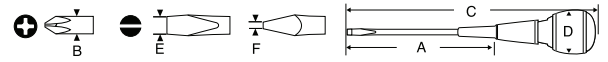
Part No.	Fastener Type	Description	A	B	C	D	E	F
321971	+	Stubby Phillips #2 x 30mm	30	6.3	76	38		
321972	⊖	Stubby Slotted 6.0 x 30mm	30	6.3	76	38	6.0	0.8
301163	+	Stubby Phillips #1 & #2 x 45mm, Stubby Slotted 5.0 & 6.0mm x 45mm (Acrylic handle 4 Pc.)						
321920	+	Stubby gearless screwdriver w/bit set Phillips #1, #2, #3x 45mm, Slotted 4.5, 6.0 & 7.0mm						

SCREWDRIVERS

SCREWDRIVERS

INSULATED 1000V

- Insulated screwdrivers for use on dangerous live electrical applications
- Ideal for all 240V applications in Australia and New Zealand and tested to 1000V
- Insulating blade sleeve and clear size markings on blade for easy identification
- High torqueing bulb handle generates greater torque output
- Made in Japan



Part No.	Fastener Type	Description	A	B	C	D	E	F
321960	⊕	Insulated Phillips #2 x 100mm	100	5.8	200	40		
321961	⊖	Insulated Slotted 5.0 x 100mm	100	5.8	200	40	5.0	0.8

SCREWDRIVERS

STRIKE-THRU HEAVY DUTY

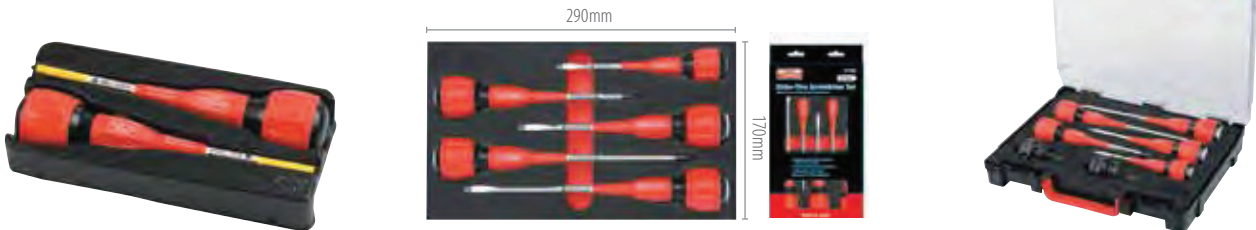
- Extra heavy duty, high torqueing range of strike thru screwdrivers
- The strongest strike-thru screwdrivers available featuring an extra large shatterproof striking face
- Specialty bulb style handles enhance grip and deliver increased torque output
- Magnetic black point tips extend life and provide a precision fit
- Dual component handle with single strike through blade
- Tried and tested extensively to withstand the most strenuous and rigorous work conditions
- Bulb handle also allows stabilising hand to be safely tucked in and protected from the impact zone
- Made in Japan



Part No.	Fastener Type	Description	A	B	C	D	E	F
321954	⊕	Strike-Thru Phillips #2 x 100mm	100	6.3	200	40	-	-
321955	⊕	Strike-Thru Phillips #2 x 150mm	150	6.3	240	40	-	-
321950	⊖	Strike-Thru Slotted 5.5 x 75mm	75	5.5	155	32	5.5	0.7
321951	⊖	Strike-Thru Slotted 6.0 x 100mm	100	6.3	200	40	6.0	0.8
321952	⊖	Strike-Thru Slotted 6.0 x 150mm	150	6.3	240	40	6.0	0.8

SCREWDRIVER SETS

STRIKE-THRU HEAVY DUTY & INSULATED 1000V



Part No.	Description	Pieces
321990	Insulated screwdriver set in plastic tray	2

Contents	Fastener Type	Description	Qty
321960	⊕	Insulated Phillips #2 x 100mm	1
321961	⊖	Insulated Slotted 5.0 x 100mm	1

Part No.	Description	Pieces
321985	Strike-thru screwdriver set in foam tray	5

Contents	Fastener Type	Description	Qty
321954	⊕	Strike-Thru Phillips #2 x 100mm	1
321955	⊕	Strike-Thru Phillips #2 x 150mm	1
321950	⊖	Strike-Thru Slotted 5.5 x 75mm	1
321951	⊖	Strike-Thru Slotted 6.0 x 100mm	1
321952	⊖	Strike-Thru Slotted 6.0 x 150mm	1

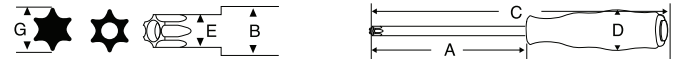
Part No.	Description	Pieces
321984	Strike-thru screwdriver set in removable foam tray & storage box	7

Contents	Fastener Type	Description	Qty
321954	⊕	Strike-Thru Phillips #2 x 100mm	1
321955	⊕	Strike-Thru Phillips #2 x 150mm	1
321950	⊖	Strike-Thru Slotted 5.5 x 75mm	1
321951	⊖	Strike-Thru Slotted 6.0 x 100mm	1
321952	⊖	Strike-Thru Slotted 6.0 x 150mm	1
321971	⊕	Stubby Phillips #2 x 30mm	1
321972	⊖	Stubby Slotted 6.0 x 30mm	1

SCREWDRIVERS

TAMPER-PROOF TORX

- Ergonomically designed range of tamperproof torx screwdrivers to suit six point torx fastener screws, common in late model vehicles
- Dimpled handles for comfort and grip with size markings on handle end for quick and easy identification
- Magnetic black point tips extend life and provide a precision fit
- Made in Japan

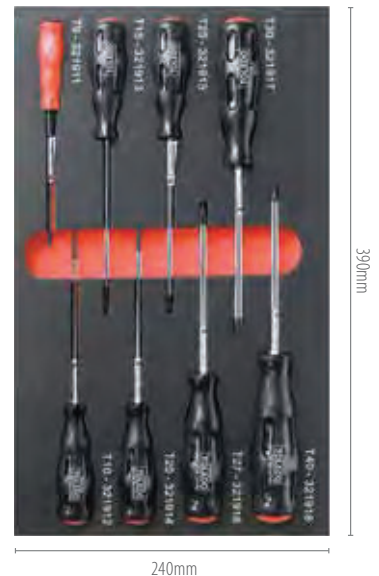
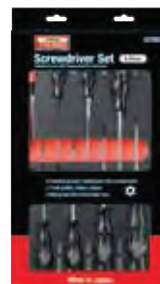


Part No.	Fastener Type	Description	A	B	C	D	E	G
321911		Tamperproof Torx T9 x 100mm	100	3.0	166	20	2.8	2.48
321912		Tamperproof Torx T10 x 125mm	125	4.0	213	30	3.0	2.72
321913		Tamperproof Torx T15 x 125mm	125	4.0	213	30	3.15	3.26
321914		Tamperproof Torx T20 x 125mm	125	5.0	213	30	4.0	3.84
321915		Tamperproof Torx T25 x 125mm	125	5.0	213	30	5.0	4.40
321916		Tamperproof Torx T27 x 125mm	125	6.3	234	34	5.5	4.96
321917		Tamperproof Torx T30 x 125mm	125	6.3	234	34	6.0	5.49
321918		Tamperproof Torx T40 x 125mm	125	7.0	249	38	7.0	6.60

SCREWDRIVER SET

TAMPER-PROOF TORX 8 PIECE

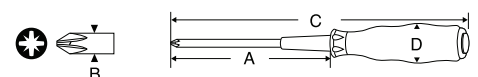
Part No.	Description	Pieces	
321987	Tamperproof torx master set in foam tray	8	
Part No.	Fastener Type	Description	Qty
321911		Tamperproof Torx T9 x 100mm	1
321912		Tamperproof Torx T10 x 125mm	1
321913		Tamperproof Torx T15 x 125mm	1
321914		Tamperproof Torx T20 x 125mm	1
321915		Tamperproof Torx T25 x 125mm	1
321916		Tamperproof Torx T27 x 125mm	1
321917		Tamperproof Torx T30 x 125mm	1
321918		Tamperproof Torx T40 x 125mm	1



SCREWDRIVERS

POZI-DRIVE

- Unique cross head tip provides a secure grip for Pozzi-drive type fasteners
- Dimpled handles for comfort and grip with size markings on handle end for quick and easy identification
- Made in Japan



Part No.	Fastener Type	Description	A	B	C	D
321919		Pozi-drive screwdriver PZ2 x 150mm	150	6.3	261	34

SCREWDRIVERS

MERCHANDISERS

- Complete modular merchandising system can be customised to suit store requirements
- Tiered design maximises wall space
- Robust and professional finish
- Width: 450mm



Part No.	Description	Pieces		
NTMS05	Essential screwdriver merchandiser single tier	24		
	Contents	Fastener Type	Description	Qty
	321940	⊕	Phillips #1 x 75	3
	321941	⊕	Phillips #2 x 100	3
	321944	⊕	Phillips #3 x 150	3
	321945	⊖	Slotted 5.5 x 75	3
	321946	⊖	Slotted 6.0 x 100	3
	321949	⊖	Slotted 8.0 x 150	3
	321971	⊕	Stubby Phillips #2 x 30	3
	321972	⊖	Stubby Slotted 6.0 x 30	3

Part No.	Description	Pieces		
NTMS06	Strike-Thru screwdriver merchandiser single tier	21		
	Contents	Fastener Type	Description	Qty
	321954	⊕	Strike-Thru Phillips #2 x 100	3
	321955	⊕	Strike-Thru Phillips #2 x 150	3
	321950	⊕	Strike-Thru Slotted 5.5 x 75	3
	321951	⊖	Strike-Thru Slotted 6.0 x 100	3
	321952	⊖	Strike-Thru Slotted 6.0 x 150	3
	321971	⊖	Stubby Phillips #2 x 30	3
	321972	⊖	Stubby Slotted 6.0 x 30	3

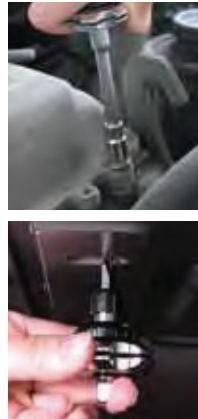
Part No.	Description	Pieces						
NTMS07	Master screwdriver merchandiser double tier	57						
	Contents	Fastener Type	Description	Qty	Contents	Fastener Type	Description	Qty
	321940	⊕	Phillips #1 x 75	3	321971	⊕	Stubby Phillips #2 x 30	3
	321941	⊕	Phillips #2 x 100	3	321972	⊖	Stubby Slotted 6.0 x 30	3
	321942	⊕	Phillips #2 x 150	3	321954	⊕	Strike-Thru Phillips #2 x 100	3
	321943	⊕	Phillips #2 x 200	3	321955	⊕	Strike-Thru Phillips #2 x 150	3
	321944	⊕	Phillips #3 x 150	3	321950	⊖	Strike-Thru Slotted 5.5 x 75	3
	321945	⊖	Slotted 5.5 x 75	3	321951	⊖	Strike-Thru Slotted 6.0 x 100	3
	321946	⊖	Slotted 6.0 x 100	3	321952	⊖	Strike-Thru Slotted 6.0 x 150	3
	321947	⊖	Slotted 6.0 x 150	3	321960	⊕	Insulated Phillips #2 x 100	3
	321948	⊖	Slotted 6.0 x 200	3	321961	⊖	Insulated Slotted 5.0 x 100	3
	321949	⊖	Slotted 8.0 x 150	3				



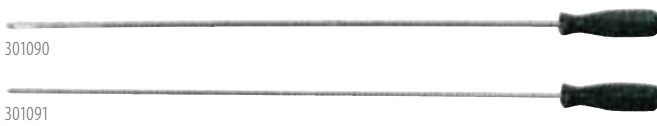


SCREWDRIVER
STUBBY GEARLESS

- Unique gearless operation provides critically precise, accurate and acute adjustment
- Completely smooth and gearless operation
- Reversible operation with firm locking bit attachments and 1/4" square drive
- Made in Japan



Part No.	Fastener Type	Bit Set (Clip-On)	Square Drive
321920	+	Phillips #1, #2, #3	1/4"
	-	Slotted 4.5, 6.0, 7.0mm	



SCREWDRIVERS
EXTRA LONG

- Extra long blade for extra reach into confined spaces and areas with restricted access
- Chrome vanadium blade and plastic comfort grip handles

Part No.	Fastener Type	Description
301090	-	Slotted 7.0 x 730mm
301091	+	Phillips #2 x 730mm

NUT DRIVER SETS
HEX 6-POINT 9 PIECE

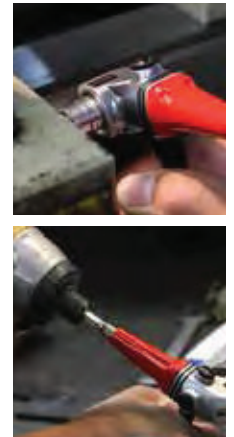
- For use on small nuts or bolts where quick installation or removal is required
- Ergonomic plastic handles with slip resistant inserts to produce greater torque
- Manufactured from chrome vanadium steel with chrome plated finish
- Supplied in custom moulded plastic storage tray

Part No.	Fastener Type	Description	Size	Pieces
321007	⊙	Metric	4, 5, 5.5, 7, 8, 9, 10, 11, 12mm	9
321008	⊙	Imperial	3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2"	9

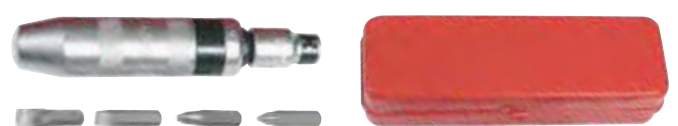


SCREWDRIVER
RIGHT ANGLE DRILL ATTACHMENT

- Highest quality right angle drill attachment is compatible for use with both corded and cordless drills
- Angled 90° head provides easy access to tight and hard to reach applications
- Heavy duty aluminium construction with multi-positional stabilising handle which features an inbuilt storage compartment
- Made in Japan



Part No.	Fastener Type	Bits	Torque
321921	+	Phillips #1 & #2	49Nm



IMPACT DRIVER SET

- Specialty tool converts the impact of the hammer into powerful torque output
- Includes heavy duty impact driver and four bit set
- Manufactured from heat treated, high grade chrome molybdenum steel with chrome plating
- Supplied in heavy duty metal storage case
- Spares: Replacement bit set 4 Pc. (Part No. 301095A)



Part No.	Fastener Type	Description	Spares
301095	+	Impact driver w/ bit set Phillips #2 & #3, Slotted 9.0 & 11.0mm	301095A



PRYING



PRY BAR SET
STANDARD ANGLED TIP 4 PIECE

- Popular four piece set of pry bars for all prying applications
- Plastic handles with black phosphate finished square shanks

Part No.	Handle	Overall Lengths	Pieces
301083	Plastic	200, 300, 450, 600mm	4



PRY BAR SET
STRIKE-THRU ANGLED TIP 4 PIECE

- Popular four piece set of strike-thru pry bars for all prying applications
- Dual component plastic and rubber handles for comfort, grip and strength
- Black phosphate finished square shanks

Part No.	Handle	Overall Lengths	Pieces
321027	Dual component plastic & rubber	200, 300, 450, 600mm	4



PRY BARS
STRIKE-THRU EXTRA LONG

- Extra long and heavy duty pry bars with strike-thru heads are the ultimate solution for larger, industrial applications
- Strike-thru shank is hardened and tempered to endure the rigours of heavy duty applications

Part No.	Description	Handle	Overall Length
301070	Straight tip	Plastic	800mm
321043	Angled tip	Plastic & rubber	900mm



PRY BAR
ADJUSTABLE W/PODGER END

- Heavy duty pry bar with telescopic locking podger bar end
- Solid chrome vanadium steel construction with podger end for easy bolt hold alignment work

Part No.	Length Range
301186	540 - 810mm



PRY BAR SET
ROLLED HEAD 4 PIECE

- Hardened and machined rolled head (hook) and pointed end (podger) design
- Rolled head enables high leverage operation and tapered end is ideal for alignment of bolt holes
- Manufactured from chrome vanadium steel for strength and durability

Part No.	Overall Lengths	Pieces
301673	150, 300, 400, 500mm	4



ROLLED HEAD PRY BAR SET
ADJUSTABLE 3 PIECE

- High leverage design with smooth curved head
- Adjustable head 180° permits prying and lifting in confined area
- Push lock function for ease of use
- High strength chrome vanadium steel with black phosphate finish to resist corrosion

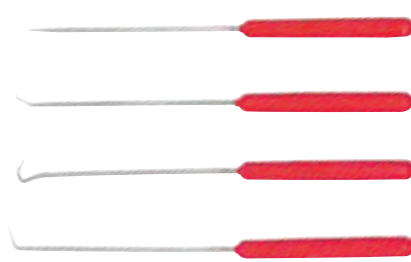
Part No.	Overall Lengths	Pieces
321076	200, 250, 330mm	3



301043

PICK & HOOK SETS
MINI & EXTRA LONG 4 PIECE

- Ideal deal for scraping, scribing, marking, picking and seal removal
- Heat treated alloy steel blades feature knurling for additional gripping
- Ergonomic plastic handles



301072



SCRAPER & HOOK SET
5 PIECE

- Multi-style set contains tools for scraping, scribing, marking, picking and seal removal
- Heat treated and black phosphate finished steel with ergonomic plastic handles



Part No.	Description	Pieces
301043	Mini pick & hook set	4
Description	Tip Style	Overall Length
Hook	Circular	130mm
Pick	Angled 45°	130mm
Pick	Angled 90°	130mm
Scratch awl	Straight	130mm

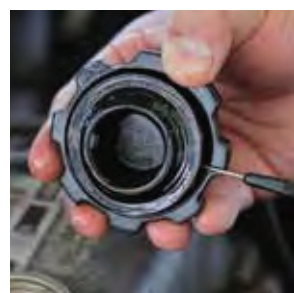
Part No.	Description	Pieces
301072	Extra long pick & hook set	4
Description	Tip Style	Overall Length
Hook	Round	270mm
Pick	Angled 45°	270mm
Pick	Angled 90°	270mm
Scratch awl	Straight	270mm

Part No.	Description	Pieces
301008	Scraper & hook set	5
Description	Tip Style	Overall Length
Cotter pin puller	Angled 90°	225mm
Scratch awl	Straight	200mm
Hose remover	Curved 90°	175mm
Scraper	Flat 20mm wide	210mm
Scraper	Flat 25mm wide	285mm



PICK SET
OIL SEAL 2 PIECE

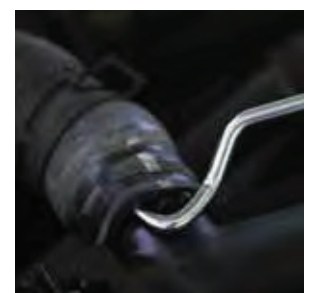
- Double ended two piece set designed for simple and efficient removal of oil seals and O-rings
- Stainless steel shaft with plastic knurled grip handles



Part No.	Tip Styles	Overall Length	Pieces
301297	45°, 90° angled hook, full hook and 90° elbow	410mm	2

HOSE REMOVAL SET
2 PIECE

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



Part No.	Overall Length	Pieces
301151	200mm	2

SCRAPING

SCRAPERS

RAZOR BLADE

- Professional scrapers with stainless steel blades
- Replacement blades suit 301162 and 301247



WSCR



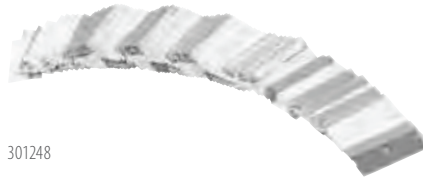
301162



301247



301250



301248



301249

Part No.	Description	Blades	Blade Width	Overall Length
WSCR	Fixed body disposable scraper	1 x Stainless Steel	55mm	150mm
301162	Swivel body scraper	1 x Stainless Steel	40mm	200mm (open)
301247	Long reach scraper w/storage chamber	3 x Stainless Steel, 3 x Plastic	40mm	280mm
301250	Stainless steel blades	12 x Stainless Steel	40mm	–
301248	Stainless steel blades	100 x Stainless Steel	40mm	–
301249	Plastic safety blades	100 x Plastic	40mm	–



301007



301278



SCRAPERS

GASKET

- For the removal of old gaskets, silicone sealants, gasket residue, carbon, ingrained dirt etc.
- Ideal tool for scraping cylinder heads, blocks, transmission cases, diff housings and metal surfaces
- Hardened and tempered carbon steel with satin chrome finish and plastic comfort grip handles

Part No.	Description	Blade Width	Overall Length
301007	Gasket scraper single	25mm	280mm
301278	Gasket scraper set 3 Pc.	20, 25, 40mm	280mm

SCRAPER SET

STRIKE-THRU STAINLESS STEEL 3 PIECE

- General purpose stainless steel blade scrapers
- Heavy duty design with robust handle design and striking head
- Hang hole for easy storage

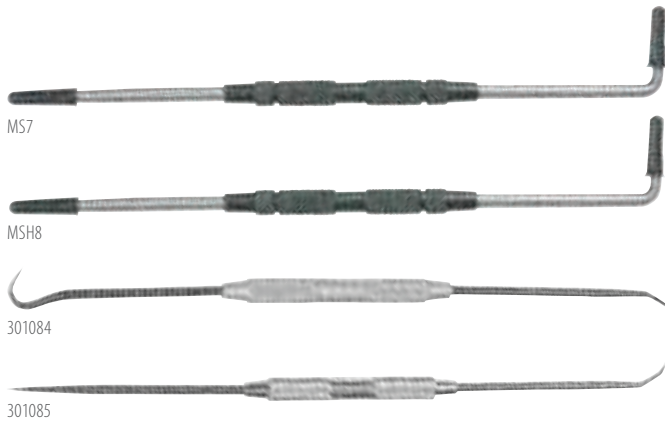
Part No.	Style	Blade Width	Overall Length
301651	Bent	30mm	220mm
	Straight	30mm	220mm
	Straight	50mm	220mm

SCRAPER SET

NYLON GENERAL PURPOSE 4 PIECE

- General purpose nylon scrapers useful for delicate tasks such as removing badges, mouldings, decals, silicone gaskets, plastic parts, alloy wheel balancing weights etc.
- Manufactured from reinforced nylon for maximum strength and durability

Part No.	Style	Blade Width	Overall Length
321031	Straight flat	48mm	230mm
	Straight split	14 x 20 x 14mm	230mm
	Angled 45° flat	48mm	230mm
	Angled 45° split	14 x 20 x 14mm	230mm



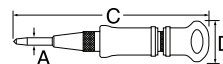
SCRIBERS

- Durable long lasting tools used for scribing and marking on common materials
- Suitable for use on metal, glass, plastic, O-rings and ceramics
- Solid metal construction with knurled centre grip handles
- Hardened tips perform better and last longer

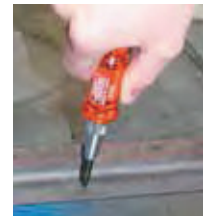
Part No.	Description	Tip 1	Tip 2	Overall Length
MS7	Machinist's scribe	Straight	Angled 90°	190mm
MSH8	Machinist's scribe	Straight	Angled 90°	230mm
301084	Double point scribe	Hook	Angled 45°	220mm
301085	Engineer's scribe	Straight	Angled 45°	235mm

CENTRE PUNCH
AUTOMATIC 6MM

- Highest quality centre punch for setting and marking screw or nail holes
- Adjustable spring loaded design for variable impact strength
- No hammer required for operation
- Extra heavy duty hardened tip for long lasting and superior performance
- Simple one hand operation; adjust handle to desired spring tension, press firmly against work piece until punch is achieved
- Made in Japan



Part No.	A: Tip Size	D: Handle	C: Overall Length
321040	6mm	34mm	160mm



PROFILE GAUGES

- Sliding plastic fingers provide a solid contour around an object to provide a profile of the desired shape
- Quick and easy way to copy profiles with graduated main body and magnets on reverse side for ease of use
- Connect units together to achieve greater length

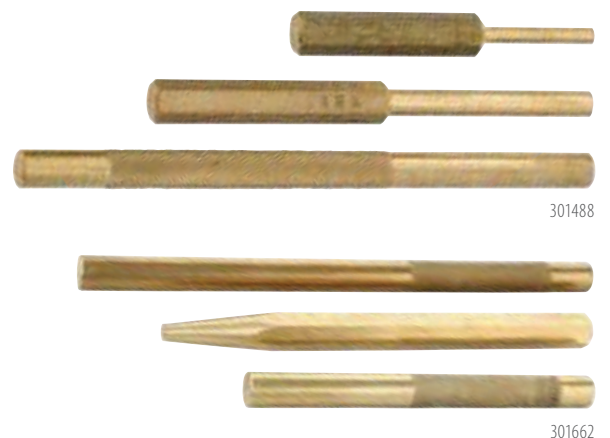


Part No.	Finger Dimensions	Overall Length	Magnets
301890	127 x 100 x 20 x 1.4mm	150mm	2
301891	257 x 100 x 20 x 1.4mm	280mm	4

PIN & DRIFT PUNCH SETS
BRASS

- Non-sparking and non-marring brass is ideal for preventing damage to surface materials
- Feature either a hexagonal or knurled round shaft

Part No.	Description	Pin Size	Overall Length	Pieces
301488	Pin punch	1/4"	100mm	3
	Pin punch	3/8"	150mm	
	Drift punch	1/2"	200mm	
301662	Drift punch	3/4"	200mm	3
	Drift punch	3/4"	300mm	
	Starter punch	11/32"	250mm	



PIN PUNCH SETS

- Durable pin punch sets are manufactured from chrome molybdenum and feature either a black phosphate or polished chrome finish
- 301181, 301182 and 301183 are supplied in reusable tool rolls with easy mounting holes
- 301608 and 301620 supplied in storage magazine



Part No.	Pin Diameter	Pin Length	Overall Length	Pieces
301181	Ø 1.5mm (1/16")	20mm	100mm	7
	Ø 2.5mm (3/32")	20mm	106mm	
	Ø 3.0mm (1/8")	23mm	120mm	
	Ø 4.0mm (5/32")	25mm	125mm	
	Ø 5.0mm (3/16")	30mm	133mm	
	Ø 6.0mm (1/4")	30mm	146mm	
	Ø 8.0mm (5/16")	35mm	150mm	



Part No.	Pin Diameter	Pin Length	Overall Length	Pieces
301182	Ø 3.0mm (1/8")	90mm	200mm	5
	Ø 5.0mm (3/16")	90mm	200mm	
	Ø 6.0mm (1/4")	90mm	200mm	
	Ø 8.0mm (5/16")	90mm	200mm	
	Ø 10.0mm (3/8")	90mm	200mm	



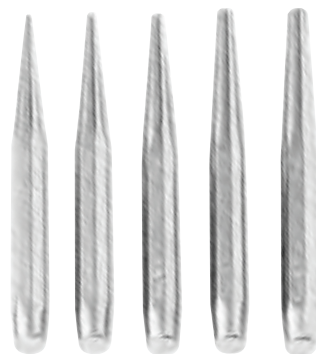
Part No.	Pin Diameter	Pin Length	Overall Length	Pieces
301608	Ø 2.0mm (1/13")	25mm	115mm	6
	Ø 3.0mm (1/8")	35mm	125mm	
	Ø 4.0mm (5/32")	40mm	150mm	
	Ø 5.0mm (3/16")	45mm	165mm	
	Ø 6.0mm (1/4")	50mm	180mm	
	Ø 8.0mm (5/16")	55mm	180mm	



CHISEL SET

- Six piece set of chisels for heavy duty industrial work
- Manufactured from hardened chrome molybdenum steel with black phosphate finish

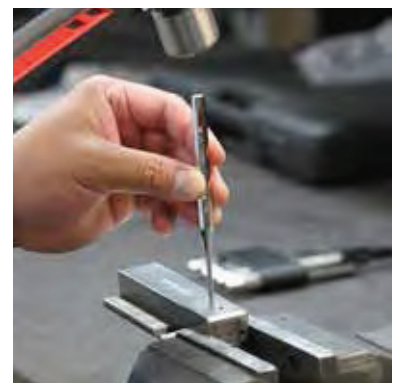
Part No.	Size	Overall Length	Pieces
301183	6.0mm (1/4")	125mm	6
	8.0mm (5/16")	125mm	
	10.0mm (3/8")	140mm	
	13.0mm (1/2")	150mm	
	16.0mm (5/8")	165mm	
	19.0mm (3/4")	200mm	



TAPER PUNCH SET

- Durable taper punch set manufactured from chrome molybdenum with polished chrome finish

Part No.	Pin Diameter	Overall Length	Pieces
301620	Ø 2.0mm (1/13")	120mm	5
	Ø 3.0mm (1/8")	120mm	
	Ø 4.0mm (5/32")	120mm	
	Ø 5.0mm (3/16")	120mm	
	Ø 6.0mm (1/4")	120mm	



CHISEL & PUNCH SET

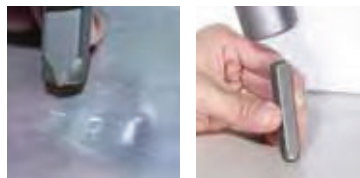
- Spring loaded handle locks in chisel or punch attachment
- Safety striking handle features protective moulding to neatly tuck away and protect hand from the impact area
- Various chisel and punch attachments to serve as a comprehensive all in one kit
- Supplied in custom moulded plastic hard case

Part No.	Description	Size	Attachments
301149	Cape chisel	6mm	14
	Cold chisel (axe head)	40mm	
	Flat chisel	14, 17, 20, 23, 26, 60mm	
	Pin punch	5, 6mm	
	Tapered drift	3, 6mm	
	Tapered punch	3, 5mm	
	Safety handle	-	



LETTER & NUMBER PUNCH SETS

- Letter and number punch sets in a range of sizes
- Compact sets supplied in plastic storage cases
- Manufactured from hardened chrome vanadium steel with special sand blasting finish to improve performance and longevity



Part No.	Description	Size	Contents	Pieces
301626	Letter punch set	3.0mm (1/8")	Letters "A to Z" and "&" symbol	27
301627	Letter punch set	5.0mm (3/16")	Letters "A to Z" and "&" symbol	27
301628	Letter punch set	6.0mm (1/4")	Letters "A to Z" and "&" symbol	27
301629	Letter punch set	8.0mm (5/16")	Letters "A to Z" and "&" symbol	27
301630	Letter punch set	10.0mm (3/8")	Letters "A to Z" and "&" symbol	27
301615	Number punch set	3.0mm (1/8")	Numbers "0-9" (6/9 reversible)	9
301616	Number punch set	5.0mm (3/16")	Numbers "0-9" (6/9 reversible)	9
301617	Number punch set	6.0mm (1/4")	Numbers "0-9" (6/9 reversible)	9
301618	Number punch set	8.0mm (5/16")	Numbers "0-9" (6/9 reversible)	9
301619	Number punch set	10.0mm (3/8")	Numbers "0-9" (6/9 reversible)	9

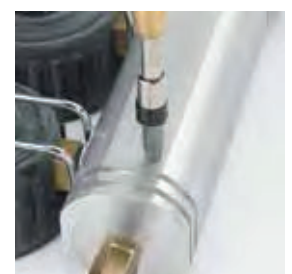


LETTER & NUMBER PUNCH SET

AUTOMATIC PUNCH

- Adjustable spring loaded design for variable impact strength and hardened punches for long service life
- Simple one handed operation; adjust to desired spring tension, press firmly against work piece for automatic punch
- Punch tool made of brass with knurled body for extra grip
- Excellent for marking hand tools, equipment, workshop tools etc.
- Hammer not required for operation

Part No.	Description	Size	Pieces
301943	Automatic Punch Tool	3.0mm (1/8")	38
	Numbers "0-9" (6 / 9 Reversible)		
	& (Symbol)		
	" (Symbol)		
	Upper Case Letters "A-Z"		



STRIKING

HOLLOW WAD PUNCHES

- Precisely ground induction hardened and tempered cutting edges
- Uniquely designed tips prevent jamming of material inside the punch
- Manufactured from hardened chrome molybdenum steel with black phosphate finish



Part No.	Punch Diameter	Overall Length	Part No.	Punch Diameter	Overall Length
321205	Ø 5mm	100mm	321213	Ø 13mm	115mm
321206	Ø 6mm	100mm	321214	Ø 14mm	115mm
321208	Ø 8mm	105mm	321216	Ø 16mm	120mm
321209	Ø 9mm	105mm	321219	Ø 19mm	120mm
321210	Ø 10mm	105mm	321220	Ø 20mm	120mm
321211	Ø 11mm	115mm	321225	Ø 25mm	120mm
321212	Ø 12mm	115mm			

Part No.	Description	Pieces
321200	Hollow wad punch set	6
	Contents	Punch Diameter
	321205	Ø 5mm
	321206	Ø 6mm
	321208	Ø 8mm
	321210	Ø 10mm
	321211	Ø 11mm
	321212	Ø 12mm



301631



301337A

BRICKLAYER'S LINE PINS

- Hardened and ground alloy steel brick layer pins with chrome finish suitable for use with hardened mortar
- Used in conjunction with builder's lines for marking out positions or aligning brickwork etc.

Part No.	Overall Length	Qty
301631	150mm	2
301632	150mm	10

POWERBAR IMPACT WRENCH

1/2" SQUARE DRIVE

- Extra heavy duty impact wrench is designed specifically to loosen high torque and tight bolts using shock impact
- Amazing shock impact is very effective and generates up to 600 foot pounds of force from one blow
- Suitable for use on pulleys, fly wheels, couplings, flanges, lawn mower base plates
- Ideal for removal of harmonic balancer pulleys without the need for radiator removal
- Spares: Replacement bolt assembly (Part No. 301337A)

Part No.	Force	Overall Length	Spares
301337	600 Ft/lbs	560mm	301337A



TORQUE WRENCHES

REVERSIBLE CLICK-STOP

- Robust torque wrenches with reversible 24 tooth ratchet and security locking handle mechanism
- Click-stop design to alert user once the required torque has been achieved
- Slim style design with nickel chrome plated alloy finish
- Dual scale Ft/lb and Nm engravings on handle
- Each torque wrench is checked and calibrated before leaving the factory and is supplied with individual calibration certificate
- Suitable for use in difficult work conditions including dark, noisy, vibrating applications
- Individually supplied in custom moulded plastic hard case and hang sell packaging



301097



301098



301099

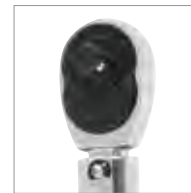


301349

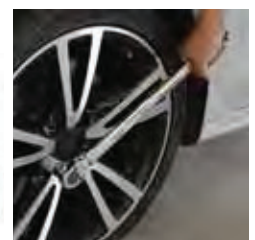
Part No.	Square Drive	Range (Dual Scale)	Overall Length
301097	1/4"	2 - 24Nm & 17 - 212 in. lbs.	280mm
301098	3/8"	7 - 108Nm & 5 - 80 ft. lbs.	370mm
301099	1/2"	14 - 203Nm & 10 - 150 ft. lbs.	470mm
301349	3/4"	68 - 406Nm & 50 - 300 ft / lbs.	675mm



Supplied with Calibration Certificate



Scan here for video



TORQUE SCREWDRIVER

MICRO 5Nm

- Torque metered 1/4" square drive screwdriver ideal for screws, bolts and hose clamps where a specific torque is required
- Ergonomic handle includes inbuilt torque meter viewing window to set, lock or adjust the torque unit
- Includes socket attachments: 6, 7 and 8mm
- Suitable for use on all Tridon worm drive hose clamps
- Supplied in custom moulded plastic hard case

Part No.	Square Drive	Range	Increments
CTD-2	1/4"	0 - 5Nm	0.5Nm



TORQUE SETTING ANGLE GAUGE

- Designed to measure the angle of rotation following pre-torque adjustment, where a torque angle adjustment is specified
- Full circle - measurement range of 0 - 360° in 2° increments and intervals of 10° and 30°
- Rotating housing used to zero the gauge and adjustable rod to secure gauge in position while in use
- Supplied with hex key

Part No.	Square Drive	Range	Increments/Graduation
301101	1/2"	360°	2°



309029



309030

TYRE VALVE CORE TORQUE TOOLS

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

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

TORQUE

BREAKER BARS STANDARD & RATCHET HEAD



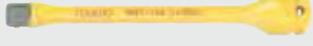
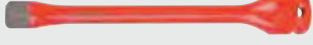
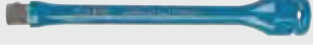
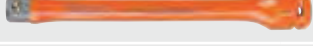
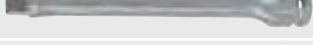
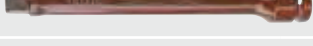
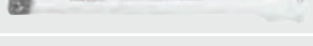
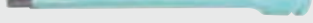
- Premium range of professional breaker bars in various styles
- Heavy duty design and built to withstand the rigours of a commercial work environment
- Spring loaded ball bearing in square drive securely locks and holds the socket and tool
- Ratcheting versions: Feature a heavy duty 24 tooth mechanism and a three position switch for easy locking and direction change
- Manufactured from heat treated, drop forged chrome vanadium steel with polished chrome finish and black phosphate heads for added corrosion resistance
- *Spare: Replacement heads available*

Part No.	Description	Square Drive	Overall Length	Spare Head
301599	Standard head breaker bar	3/8"	610mm (24")	301599A
301245	Standard head breaker bar	1/2"	610mm (24")	301293
301246	Standard head breaker bar	3/4"	610mm (24")	301292
301822	Standard head breaker bar extra HD	3/4"	1000mm (40")	301822A
301831	Ratcheting head breaker bar	3/8"	450mm (18")	301831A
301935	Ratcheting head breaker bar	1/2"	610mm (24")	301935A
301936	Ratcheting head breaker bar	3/4"	610mm (24")	301936A
321250	Ratcheting head adjustable length breaker bar	1/2"	420 - 610mm (16.5"-24")	321250A
321251	Ratcheting head adjustable length breaker bar	3/4"	610 - 915mm (24"-36")	321251A



TORQUE EXTENSION BARS

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

Part No.	Description				Pieces
309500	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

TORQUE MULTIPLIER NUT CRACKING SET

3200NM

- Heavy duty tool for removing stubborn wheel nuts on heavy vehicles, light commercial trucks, buses and vans
- Uses reduction gears to create a multiplication force
- Created progressive force instead of shock impact
- Ergonomic rotation handle provides ease of use and stability
- Manufactured from heavy duty chrome molybdenum for strength and durability
- Includes 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
- Available separately 41mm socket (Part No. 30903741)

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



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



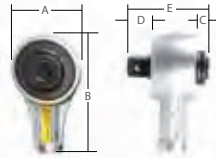
Part No.	Square Drive	Overall Length
321032	1/2"	410mm

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
- Manufactured from chrome molybdenum alloy steel



Part No.	Specifications		
321009	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 (1100 Ft.lbs)	
	Accuracy	+/- 4%	
	Dimensions		A: 73mm
			B: 127mm
			C: 10mm
			D: 25mm
		E: 83mm	
Weight	1.60kg		

SPANNERS & WRENCHES



ADJUSTABLE WRENCHES

SHIFTERS

- Precision machined adjustable wrenches are manufactured to strict standards to ensure superior performance
- Four knurl jaws are precision made to ensure smooth operation
- Manufactured from drop forged chrome vanadium steel with nickel chrome plating to ensure corrosion resistance

Part No.	Overall Length	Jaw Opening (Max)	Jaw Width	Weight
88100	100mm (4")	15mm	5mm	53g
88150	150mm (6")	20mm	6mm	125g
88200	200mm (8")	25mm	8mm	240g
88250	250mm (10")	30mm	9mm	390g
88300	300mm (12")	35mm	11mm	587g
88375	375mm (15")	45mm	13mm	1164g
88450	450mm (18")	55mm	13mm	1775g
88600	600mm (24")	70mm	11mm	3000g



ADJUSTABLE WRENCHES

SHIFTERS

- Budget range of adjustable wrenches provide an economical option for DIY users
- Manufactured from drop forged carbon steel with chrome plating



Part No.	Overall Length	Jaw Opening (Max)	Jaw Width	Weight
89150	150mm (6")	20mm	7mm	125g
89200	200mm (8")	25mm	8mm	240g
89250	250mm (10")	30mm	9mm	390g
89300	300mm (12")	35mm	11mm	587g
89375	375mm (15")	45mm	14mm	1164g
89450	450mm (18")	55mm	15mm	1775g



MERCHANDISER

ADJUSTABLE WRENCHES

- In store wall mount merchandiser provides a compact point of sale solution
- Size: 450W x 755H (mm)

Part No.	Contents	Size	Qty	Contents	Size	Qty
NTMW01	88100	100mm (4")	2	88300	300mm (12")	3
	88150	150mm (6")	2	88375	375mm (15")	2
	88200	200mm (8")	2	88450	450mm (18")	1
	88250	250mm (10")	3	88600	600mm (24")	1



C-HOOK WRENCHES

PIN & HOOK STYLE

- Used to tighten, loosen or hold machinery components such as retaining rings, couplings, or any notched or multi-faced tool
- Range includes both **pin** and **hook** style
- Hinged jaws enable wrench to fit to parts within a specific size range
- Manufactured from drop forged chrome vanadium steel for longevity and durability
- Spares: Replacement pins available (each)

Part No.	Description	Size Range (Max)	Pin Size	Spare Pin
315150	Hook style	Ø 19 - 51mm (¾" - 2")	-	-
315151	Hook style	Ø 32 - 76mm (1 ¼" - 3")	-	-
315152	Hook style	Ø 51 - 121mm (2" - 4 ¾")	-	-
315153	Hook style	Ø 112 - 158mm (4 ½" - 6 ¼")	-	-
315154	Pin style	Ø 19 - 51mm (¾" - 2")	4mm	315154A (each)
315155	Pin style	Ø 32 - 76mm (1 ¼" - 3")	5mm	315155A (each)
315156	Pin style	Ø 51 - 121mm (2" - 4 ¾")	6mm	315156A (each)
315157	Pin style	Ø 112 - 158mm (4 ½" - 6 ¼")	8mm	315157A (each)

C-HOOK WRENCH SET

PIN & HOOK STYLE INTERCHANGEABLE HEAD

- Professional workshop set to cater for an extended range of size requirements in both pin and hook style
- Interchangeable heads allow the wrench to be used on both hook and pin type applications
- Ideal kit for a variety of industries including automotive, industrial, plumbing and agriculture
- Manufactured from drop forged chrome vanadium steel for longevity and durability
- Spares: Replacement pins available (each). Refer to individual c-hook wrench spare part numbers

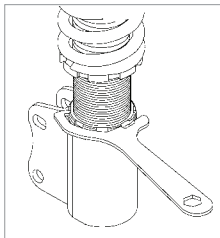


Part No.	Size Range	Pin Sizes
315160	35 - 60, 60 - 90, 90 - 120mm	5, 6, 8mm

C-HOOK WRENCH SET RATCHETING

PIN & HOOK STYLE INTERCHANGEABLE HEAD

- Ratcheting feature allows for improved use in confined spaces
- Interchangeable heads allow the wrench to be used on both hook and pin type applications
- Manufactured from drop forged vanadium steel for longevity and durability
- Spares: Replacement two piece sets include both pin and hook style jaws



Part No.	Description	Spares	Image	Spares	Image	
315161	C-hook wrench set: 4 Jaw sizes, 4 Pin sizes	315161A		315161C		
	Description					Image
	Handle		Ø 19 - 51mm Hook Type		Ø 19 - 51mm Hook Type	
	Adaptor		Ø 19 - 51mm Pin Type (Ø 3mm)		Ø 19 - 51mm Pin Type (Ø 3mm)	
Adaptor		315161B		315161D		
Description	Image					Description
		Ø 31 - 77mm Hook Type		Ø 31 - 77mm Hook Type		
		Ø 31 - 77mm Pin Type (Ø 4.5mm)		Ø 31 - 77mm Pin Type (Ø 4.5mm)		

SPANNERS & WRENCHES



FLARE NUT WRENCH SETS

3 PIECE

- Double ended flare nut wrench sets are particularly useful in automotive, hydraulic and refrigerant applications
- Manufactured from thick, drop forged vanadium steel to provide the strength and rigidity required to remove tight and stubborn pipe and flare nut applications



Part No.	Description	Size	Overall Length	Pieces
301039	Metric flare nut wrench set	10 x 12mm 13 x 14 mm 15 x 17mm	155mm 175mm 200mm	3
301040	Imperial flare nut wrench set	3/8" x 7/16" 1/2" x 9/16" 5/8" x 11/16"	155mm 175mm 200mm	3



WRENCH/SPANNER EXTENDERS

- Provides additional leverage and increased force for stubborn and tight nuts
- Increases length for access to otherwise unreachable and awkward areas
- Suitable for use with spanners/wrenches, Allen keys, ratchets, torque wrenches, multi grips
- Features 1/2" square drive socket for additional applications
- German engineered and manufactured from high quality drop forged and hardened, chrome vanadium steel
- Made in Germany

Scan here for video



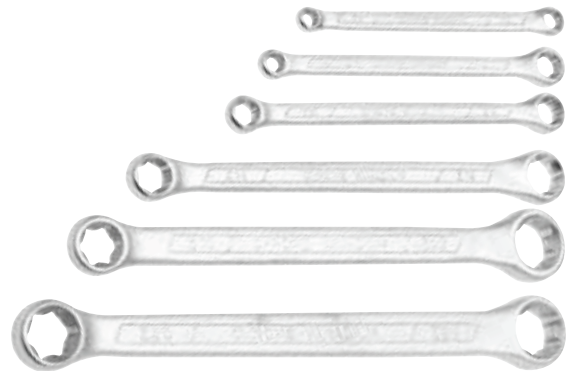
Part No.	Suits Spanner Width (Max)	Overall Length
321045	26mm	340mm
321047	46mm	600mm



PIPE WRENCHES

- Serrated adjustable locking jaw design to enable quick and secure operation once force is applied
- Ideal for use on pipes or bolts where additional strength is required
- Manufactured from carbon steel with drop forged jaws for strength and durability

Part No.	Overall Length	Pipe Size (Max)
301217	250mm	38mm
301218	300mm	38mm
301219	350mm	51mm
301220	450mm	63mm



E-STAR SPANNER SET

- Double ended 'ring' style spanner set designed for the removal and installation of six point fasteners
- Ideal for late model automotive applications
- Manufactured from drop forged vanadium steel for superior strength and durability

Part No.	Size	Length
301166	E6 x E8	110mm
	E7 x E11	125mm
	E10 x E12	140mm
	E14 x E18	180mm
	E16 x E22	200mm
	E20 x E24	225mm



CROWFOOT WRENCHES

STRAIGHT JAW & FLARED JAW

- Manufactured from high grade industrial drop forged, heat treated chrome molybdenum steel
- Available individually or as a set



CROWFOOT WRENCHES

STRAIGHT JAW

Part No.	Jaw Style	Square Drive	Size
301432	Straight jaw	3/8"	10mm
301433	Straight jaw	3/8"	11mm
301434	Straight jaw	3/8"	12mm
301435	Straight jaw	3/8"	13mm
301436	Straight jaw	3/8"	14mm
301437	Straight jaw	3/8"	15mm
301438	Straight jaw	3/8"	16mm
301439	Straight jaw	3/8"	17mm
301440	Straight jaw	3/8"	18mm
301441	Straight jaw	3/8"	19mm
301442	Straight jaw	3/8"	21mm
301443	Straight jaw	3/8"	22mm
301444	Straight jaw	3/8"	23mm
301445	Straight jaw	3/8"	24mm
301446	Straight jaw	3/8"	26mm
301466	Straight jaw	1/2"	27mm
301467	Straight jaw	1/2"	29mm
301468	Straight jaw	1/2"	30mm

Part No.	Jaw Style	Square Drive	Size
301469	Straight jaw	1/2"	32mm
301470	Straight jaw	1/2"	33mm
301471	Straight jaw	1/2"	34mm
301472	Straight jaw	1/2"	35mm
301473	Straight jaw	1/2"	36mm
301474	Straight jaw	1/2"	38mm
301475	Straight jaw	1/2"	41mm
301476	Straight jaw	1/2"	43mm
301477	Straight jaw	1/2"	46mm
301478	Straight jaw	1/2"	48mm
301479	Straight jaw	1/2"	50mm
301421	Straight jaw	3/8"	3/8"
301422	Straight jaw	3/8"	7/16"
301423	Straight jaw	3/8"	1/2"
301424	Straight jaw	3/8"	9/16"
301425	Straight jaw	3/8"	5/8"
301426	Straight jaw	3/8"	11/16"
301427	Straight jaw	3/8"	3/4"

Part No.	Jaw Style	Square Drive	Size
301428	Straight jaw	3/8"	13/16"
301429	Straight jaw	3/8"	7/8"
301430	Straight jaw	3/8"	15/16"
301431	Straight jaw	3/8"	1"
321001A	Straight jaw	1/2"	1 ¹ / ₁₆ "
321001B	Straight jaw	1/2"	1 ¹ / ₈ "
321001C	Straight jaw	1/2"	1 ³ / ₁₆ "
321001D	Straight jaw	1/2"	1 ¹ / ₄ "
321001E	Straight jaw	1/2"	1 ⁵ / ₁₆ "
321001F	Straight jaw	1/2"	1 ³ / ₈ "
321001G	Straight jaw	1/2"	1 ⁷ / ₁₆ "
321001H	Straight jaw	1/2"	1 ¹ / ₂ "
321001I	Straight jaw	1/2"	1 ⁵ / ₈ "
321001J	Straight jaw	1/2"	1 ¹¹ / ₁₆ "
321001K	Straight jaw	1/2"	1 ³ / ₄ "
321001L	Straight jaw	1/2"	1 ¹³ / ₁₆ "
321001M	Straight jaw	1/2"	1 ⁷ / ₈ "
321001N	Straight jaw	1/2"	2"



301191



301465



301420



321001

CROWFOOT WRENCH SETS

STRAIGHT JAW

Part No.	Description	Size	Pieces
301191	Metric straight jaw crowfoot wrench set 3/8" Sq. Dr.	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26mm	15
301465	Metric straight jaw crowfoot wrench set 1/2" Sq. Dr.	27, 29, 30, 32, 33, 34, 35, 36, 38, 41, 43, 46, 48, 48, 50mm	14
301420	Imperial straight jaw crowfoot wrench set 3/8" Sq. Dr.	3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	11
321001	Imperial straight jaw crowfoot wrench set 1/2" Sq. Dr.	1 ¹ / ₁₆ ", 1 ¹ / ₈ ", 1 ³ / ₁₆ ", 1 ¹ / ₄ ", 1 ⁵ / ₁₆ ", 1 ³ / ₈ ", 1 ⁷ / ₁₆ ", 1 ¹ / ₂ ", 1 ⁵ / ₈ ", 1 ¹¹ / ₁₆ ", 1 ³ / ₄ ", 1 ¹³ / ₁₆ ", 1 ⁷ / ₈ ", 2"	14

SPANNERS & WRENCHES

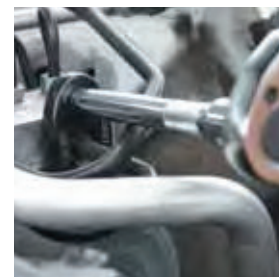
CROWFOOT WRENCHES

FLARED JAW

- Manufactured from high grade industrial drop forged, heat treated chrome molybdenum steel
- Available individually or as a set



301669



Part No.	Jaw Style	Square Drive	Size	Part No.	Jaw Style	Square Drive	Size	Part No.	Jaw Style	Square Drive	Size
301383	Flared jaw	3/8"	8mm	301392	Flared jaw	3/8"	17mm	301373	Flared jaw	3/8"	1/2"
301384	Flared jaw	3/8"	9mm	301393	Flared jaw	3/8"	18mm	301374	Flared jaw	3/8"	9/16"
301385	Flared jaw	3/8"	10mm	301394	Flared jaw	3/8"	19mm	301375	Flared jaw	3/8"	5/8"
301386	Flared jaw	3/8"	11mm	301395	Flared jaw	1/2"	21mm	301376	Flared jaw	3/8"	11/16"
301387	Flared jaw	3/8"	12mm	301396	Flared jaw	1/2"	22mm	301377	Flared jaw	3/8"	3/4"
301388	Flared jaw	3/8"	13mm	301397	Flared jaw	1/2"	24mm	301378	Flared jaw	1/2"	13/16"
301389	Flared jaw	3/8"	14mm	301370	Flared jaw	3/8"	5/16"	301379	Flared jaw	1/2"	7/8"
301390	Flared jaw	3/8"	15mm	301371	Flared jaw	3/8"	3/8"	301380	Flared jaw	1/2"	15/16"
301391	Flared jaw	3/8"	16mm	301372	Flared jaw	3/8"	7/16"	301381	Flared jaw	1/2"	1"

CROWFOOT WRENCH SETS

FLARED JAW

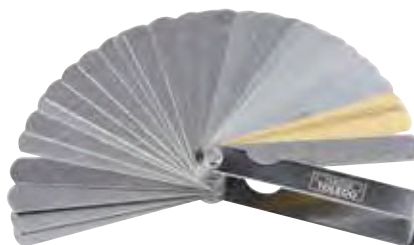
Part No.	Description	Size	Pieces
301574	Metric flared jaw crowfoot wrench set 3/8" Sq. Dr.	10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	10
321086	Metric flared jaw crowfoot wrench & extension bar set 1/2" & 3/4" Sq. Dr. (Satin Chrome)	33, 36, 38, 41, 46, 50mm Extensions: 1/2" x 125mm, 3/4" x 100mm	8
301669	Imperial flared jaw crowfoot wrench set 3/8" & 1/2" Sq. Dr.	3/8", 7/16", 1/4", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16"	10



WORKSHOP GENERAL

FEELER GAUGES

- Ideal for precisely measuring clearances
- Easy to read etching on blades enables efficient referencing
- Manufactured from high quality steel for strength, durability and accuracy
- Suitable for automotive and engineering applications
- Extra long blade version available (Part No. 321669)



SUMMARY TABLE

SEE PAGE 53 - 54 FOR MORE INFORMATION

Part No.	Description	Size Range	Blade Length	Overall Length
301155	Feeler gauge straight 38 blade - metric & imperial	0.038mm (0.0015") - 0.889mm (0.035")	80mm	90mm
301156	Feeler gauge straight 22 blade dual step - metric & imperial	0.102mm (0.004") - 0.686mm (0.027")	80mm	90mm
301157	Feeler gauge straight cranked 26 blade - metric & imperial	0.127mm (0.005") - 0.762mm (0.030")	80mm	190mm
301158	Feeler gauge tapered 10 blade - imperial	0.0015" - 0.025"	100mm	105mm
301159	Feeler gauge tapered 10 blade - metric	0.04 - 0.63mm	100mm	105mm
301160	Feeler gauge tapered 16 blade - metric & imperial	0.05 (0.002") - 0.38mm (0.015")	100mm	105mm
321669	Feeler gauge straight (extra long) 25 blade - metric & imperial	0.038mm (0.0015") - 1.0mm (0.040")	300mm	305mm



FEELER GAUGE STRAIGHT
METRIC/IMPERIAL 38 BLADE

Part No.	Blade Size: Metric (Imperial)			
301155	0.038 (0.0015)	0.254 (0.010) *B	0.457 (0.018)	0.711 (0.028)
	0.051 (0.002)	0.254 (0.010)	0.483 (0.019)	0.737 (0.029)
	0.076 (0.003)	0.279 (0.011)	0.508 (0.020)	0.762 (0.030)
	0.102 (0.004)	0.305 (0.012) *B	0.533 (0.021)	0.787 (0.031)
	0.127 (0.005)	0.305 (0.012)	0.559 (0.022)	0.813 (0.032)
	0.152 (0.006)	0.330 (0.013)	0.584 (0.023)	0.838 (0.033)
	0.178 (0.007)	0.356 (0.014)	0.610 (0.024)	0.864 (0.034)
	0.203 (0.008) *B	0.381 (0.015)	0.635 (0.025)	0.889 (0.035)
	0.203 (0.008)	0.406 (0.016)	0.660 (0.026)	
	0.229 (0.009)	0.432 (0.017)	0.686 (0.027)	

*B = Brass



FEELER GAUGE STRAIGHT
METRIC/IMPERIAL 22 BLADE DUAL STEP

Part No.	Blade Size: Metric (Imperial)		Blade Size: Metric (Imperial)	
301156	0.102 (0.004)	0.152 (0.006)	0.381 (0.015)	0.432 (0.017)
	0.127 (0.005)	0.178 (0.007)	0.406 (0.016)	0.457 (0.018)
	0.152 (0.006)	0.203 (0.008)	0.432 (0.017)	0.483 (0.019)
	0.178 (0.007)	0.229 (0.009)	0.457 (0.018)	0.508 (0.020)
	0.203 (0.008)	0.254 (0.010)	0.483 (0.019)	0.533 (0.021)
	0.229 (0.009)	0.279 (0.011)	0.508 (0.020)	0.559 (0.022)
	0.254 (0.010)	0.305 (0.012)	0.533 (0.021)	0.584 (0.023)
	0.279 (0.011)	0.330 (0.013)	0.559 (0.022)	0.610 (0.024)
	0.305 (0.012)	0.356 (0.014)	0.584 (0.023)	0.635 (0.025)
	0.330 (0.013)	0.381 (0.015)	0.610 (0.024)	0.660 (0.026)
	0.356 (0.014)	0.406 (0.016)	0.635 (0.025)	0.686 (0.027)



FEELER GAUGE STRAIGHT CRANKED
METRIC/IMPERIAL 26 BLADE

Part No.	Blade Size: Metric (Imperial)			
301157	0.127 (0.005)	0.305 (0.012)	0.483 (0.019)	0.660 (0.026)
	0.152 (0.006)	0.330 (0.013)	0.508 (0.020)	0.686 (0.027)
	0.178 (0.007)	0.356 (0.014)	0.533 (0.021)	0.711 (0.028)
	0.203 (0.008)	0.381 (0.015)	0.559 (0.022)	0.737 (0.029)
	0.229 (0.009)	0.406 (0.016)	0.584 (0.023)	0.762 (0.030)
	0.254 (0.010)	0.432 (0.017)	0.610 (0.024)	
	0.279 (0.011)	0.457 (0.018)	0.635 (0.025)	



FEELER GAUGE TAPERED
METRIC/IMPERIAL 16 BLADE

Part No.	Blade Size: Metric		Blade Size: Imperial	
301160	0.05	0.20	0.002	0.008
	0.08	0.25	0.003	0.010
	0.10	0.30	0.004	0.012
	0.15	0.38	0.006	0.015



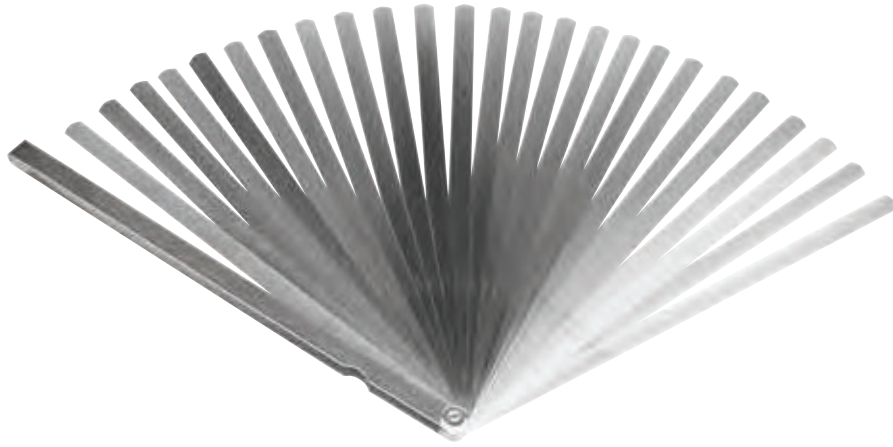
FEELER GAUGE TAPERED
IMPERIAL 10 BLADE

Part No.	Blade Size: Imperial				
301158	0.0015	0.003	0.006	0.01	0.015
	0.002	0.004	0.008	0.012	0.025



TAPERED FEELER GAUGE
METRIC 10 BLADE

Part No.	Blade Size: Metric				
301159	0.04	0.08	0.15	0.30	0.50
	0.06	0.10	0.20	0.40	0.63



FEELER GAUGE STRAIGHT - EXTRA LONG
METRIC/IMPERIAL 25 BLADE

Part No.	Blade Size: Metric (Imperial)					
321669	0.038 (0.0015)	0.152 (0.005)	0.254 (0.009)	0.356 (0.013)	0.457 (0.017)	0.635 (0.025)
	0.051 (0.002)	0.178 (0.006)	0.279 (0.010)	0.381 (0.014)	0.438 (0.019)	0.686 (0.027)
	0.076 (0.003)	0.203 (0.007)	0.305 (0.011)	0.406 (0.015)	0.508 (0.020)	0.762 (0.030)
	0.102 (0.004)	0.229 (0.008)	0.330 (0.012)	0.432 (0.016)	0.533 (0.021)	1.016 (0.040)



321261



321262



301907



301908

SECURITY SPRING HOOKS/SAFETY LANYARDS

- Safely and securely keeps tools attached and prevents loss of tools especially when working at heights
- Effective protection against accidents caused by falling tools
- Reduce downtime retrieving fallen tools
- Nickel plated carabiner and ring end, includes additional tool belt loop for additional tethering versatility (Part No. 321261/321262)

Part No.	Description	Capacity	Rest Length	Extended Length
321261	Security spring hook S/S coil PU coated	1kg	230mm	1400mm
321262	Security spring hook S/S coil PU coated	3kg	460mm	1600mm
301907	Security spring hook Nylon bungee style	5kg	800mm	1500mm
301908	Security spring hook Nylon bungee style	10kg	800mm	1500mm





301295



321058



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)



TUBE BENDERS

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

Part No.	Description	Blade	Tube Size	Tube Diameter	Spares
301295	Deburring tool 150mm - universal	8mm	-	-	301295A (each)
321058	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	

Part No.	Tube Capacity	Overall Length
301034	6, 8, 10mm	260mm
301036	4, 6, 8, 10mm	320mm



301941



301942

GUARD COVERS

MAGNETIC

- Specifically designed to protect paint work and working area during maintenance and repairs
- Conforms to the shape of the vehicle and remains in place by fixing securely with magnets
- Inner skin is a soft, non-scratching PVC sponge leather. Outer skin is made from strong and durable non-scratching vinyl



Part No.	Size
301941	800 x 600mm
301942	1050 x 580mm

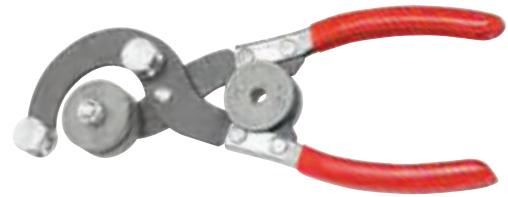


WINDSCREEN WASHER NEEDLE
JET CLEANING

- Double ended windscreen washer cleaning and adjustment tool
- For cleaning and adjustment of windscreen washer nozzle jets
- Enables adjustment to the washer spray direction by using the needle
- Features dual tip with protective caps and handy pocket clip
- Manufactured from steel with knurled body



Part No.	Overall Length
301164	95mm



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

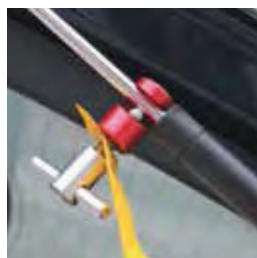


Part No.	Tube Capacity	Overall Length
301698	3/16", 1/4", 5/16", 3/8"	260mm



GAS STRUT SUPPORT TOOL
PLASTIC TIPPED

- Supports and locks onto gas strut shafts to enable worn gas strut to be fixed in the extended position during service
- Features unique plastic moulded end cap to eliminate damage of the strut shaft during use
- Suitable for all gas struts on bonnets, boots or hatchbacks by clamping and locking to the shaft of the strut
- Manufactured with alloy body and brass screw



Part No.	Description
301276	Gas strut tool with safety tag



WIPER ARM REMOVAL TOOL

- Universal tool suitable for most light vehicles and commercial vehicles etc
- For the removal of windscreen wiper arms from both tapered and splined spigots
- Compact tool allows easy access in confined spaces
- Eliminates damage to surrounding paintwork and glass
- Prevents damage to wiper arm and spigot



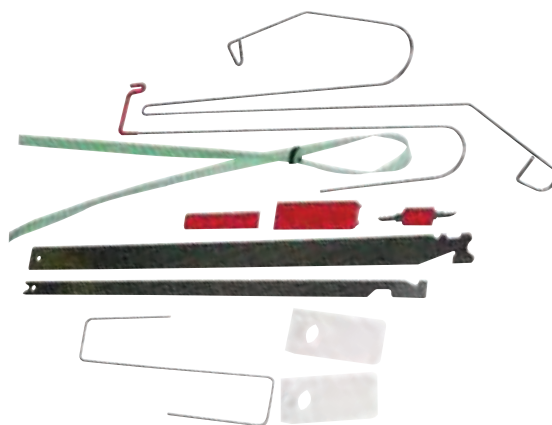
Part No.	Working Height	Jaw Opening	Jaw Depth
301071	26mm	16mm	24mm



LEATHER PUNCH PLIER

- For effortless hole punching of leather, plastic and fabrics
- Revolving head with 6 different punch sizes
- Spring loaded design for ease of use and ergonomically designed handles
- Locking latch for safe and easy storage

Part No.	Punch Sizes	Overall Length
321104	2, 2.5, 3, 3.5, 4, 4.5mm	235mm



VEHICLE LOCK OUT KIT UNIVERSAL

- Suitable for opening a wide range of vehicle makes
- Consult vehicle service, workshop repair instructions prior to use
- Comprehensive professional tool kit of specialty automotive lock out tools
- Supplied in vinyl carry wallet

Part No.	Pieces
301161	12



TWEEZER SET

- Set of six stainless steel tweezers varying in style, shape and size
- Suitable for all miscellaneous jobs and tasks around the workshop and in DIY applications



Part No.	Pieces
301678	6



CAULKING GUN

- Dispenses sealant, silicone and other popular cartridges in standard size
- Solid steel construction with heavy duty follower spring
- Comfortable grip skeleton style

Part No.	Cartridge Length	Overall Length
301655	Standard size - 232mm	350mm

TOOL STORAGE



301006



301398



301188

STORAGE TRAYS

MAGNETIC

- Magnetic storage trays are essential for all workshops and easily attach to hoists, scissor lifts, steel workbenches etc.
- Ideal for storing and holding small parts, nuts, bolts and screws neatly and securely during dismantle and reassembly

Part No.	Shape	Size	Tray Depth	Magnets
301006	Circle	Ø 150 mm	38mm	1 x Ø 80mm
301398	Rectangle	240 x 140mm	30mm	2 x Ø 80mm
301188	Rectangle	330 x 255mm	30mm	4 x Ø 80mm



301598



301597



301596

SOCKET RAILS

16 PIECE

- Suitable for holding up to 16 standard or deep sockets
- Manufactured from anodized aluminium for rust resistance and durability

Part No.	Socket Square Drive	Overall Length
301598	1/4"	410mm
301597	3/8"	410mm
301596	1/2"	410mm



301167



301108

SPANNER RACK ORGANISERS

- For neat and organised storage of open end, ring or combination spanners
- Built in eyelet mounting holes ideal for wall mounting, shadow boards or tool chest applications
- Manufactured from high impact plastic for superior strength and durability

Part No.	Spanner Capacity	Size
301167	12 Piece	230mm
301108	15 Pieces	300mm



RUBBER MATTING

- Durable non slip rubber mat ideal for lining tool chest drawers or for protection between top chest and roller cabinet
- Prevents tools from moving and causing damage to tools and tool chest surfaces
- Also ideal for applying under mats and rugs to stop any movement

Part No.	Size
301169	1950 x 600mm



MECHANICAL SERVICE

AIR CONDITIONING & COOLING SYSTEM	60
BRAKE	68
BEARING	76
DRIVELINE & TRANSMISSION	78
ENGINE	82
EXHAUST	92
FUEL	93
LUBRICATION	101
STEERING & SUSPENSION	110
TYRE & WHEEL	115



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
304047	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

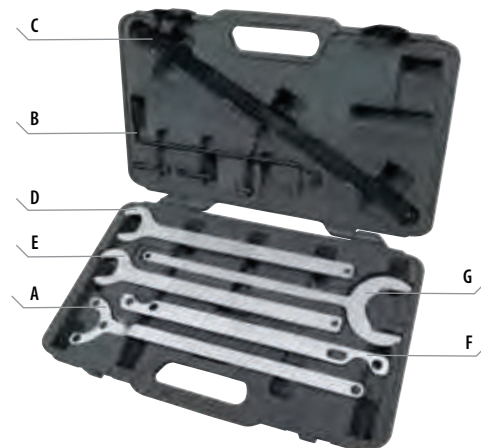
- Removes stubborn, hard to reach welch plugs
- Eliminates having to remove head or manifolds
- Includes ball-type installing swivel tool for easy positioning
- Supplied in custom moulded plastic hard case



Part No.	Adaptor Sizes	Swivel Head Bar
308010	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
308008	Master fan clutch spanner set	10

Ref. code	Description	Application	Size	Overall Length
A	Hub securing bar (Mercedes OEM Part no. 113-0040)	Mercedes-Benz Engines: M111, M112, M113, M119	Ø 65mm	410mm
B	Fan removing tool Hex 8mm (Mercedes OEM Part no. 104 589 00 01 00)	Mercedes-Benz: 300E (1985 - 1992), 260E (1987 - 1990), 300CE (1988 - 1989), 300TE (1988 - 1991), 300E 2.6 (1990 - 1992), 300E 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)	Mercedes-Benz Engines: M130, M104, M111, M119, M120, OM602, OM603, OM605, OM606	6, 8, 10mm	490mm
D	Open end wrench 32mm	BMW Engines: M10, M10, M20, M40, M41, M42, M50, M60, M62, FORD: 6 Cylinder	Ø 32mm	375mm
E	Open end wrench 36mm	GM, FORD: 8 Cylinder	Ø 36mm	375mm
F	Water pump holding tool	BMW Engines: 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
304015	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)	

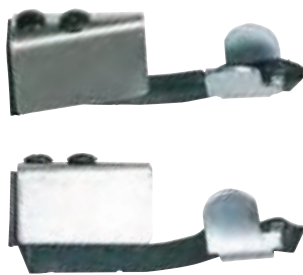


STRETCH BELT TOOL KITS
UNIVERSAL

- 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
304775	Refer page 186
304776	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
301111	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
308235	Ford 6 cylinder	32mm	375mm
308236	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
304013	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
308001	-40 to 71°C / -40 to 160°F	Ø 45mm	140mm
308002	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
308004	Holden 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.

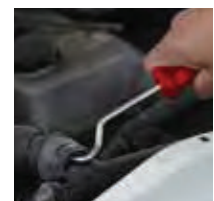


Part No.	Specifications		Specifications	
321500	Display	LCD	Weight	157g
	Auto power off	10 seconds	Laser	<1mW, Class 2 laser
	Battery	9v (NEDA 1604, IEC 6F22006p)	Range	-30°C to 550°C
	Battery life	9 hours (continuous use)	Accuracy	±2°C on -30°C to 100°C, ±2% on -101°C to 550°C
	Dimensions	148H x 105W 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
301151	200mm	2

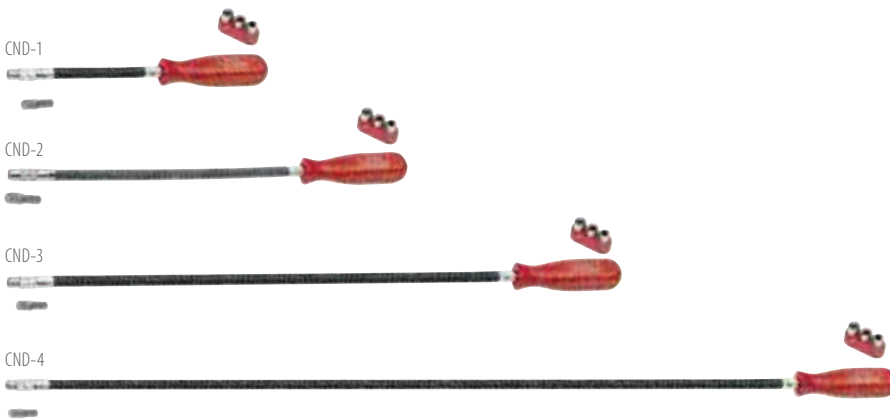


HOSE/PIPE CUTTERS

- 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)



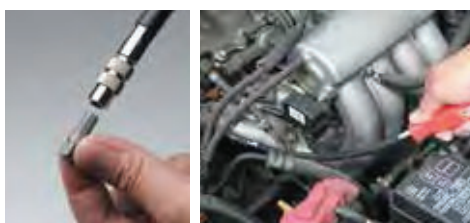
Part No.	Description	Body	Jaw Opening (Max)	Overall Length	Spares
321026	Precision angled cutter w/protractor & 3 blades	Plastic & steel	20mm	240mm	321026A
308011	Mini hose cutter E.g. A/C hose	Plastic	14mm	150mm	–
301923	Hose/pipe cutter	Plastic	25mm	150mm	–
301028	Hose/pipe cutter, ratcheting heavy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



HOSE CLAMP NUT DRIVERS

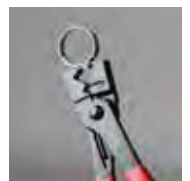
- Designed for trouble free installation and removal of most modern hose clamps
- Flexible shaft enables access to hard to reach hose clamps
- Ergonomic handle offers comfort and a superior grip
- Includes socket attachments: 6, 7 and 8mm
- Suitable for use on all Tridon worm drive hose clamps

Part No.	Overall Length
CND-1	150mm
CND-2	300mm
CND-3	600mm
CND-4	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



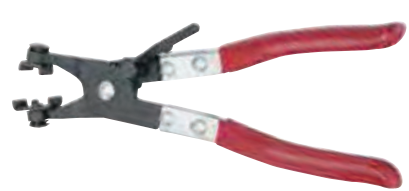
Part No.	Jaw Opening (Max)	Overall Length
321011	20mm	180mm



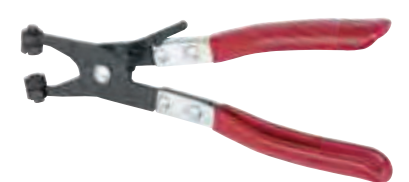
301030



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
301030	Angled 45° (cups)	68mm	17mm	215mm
301031	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
301171	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
301172	210 x 630mm	53mm	21mm	215mm

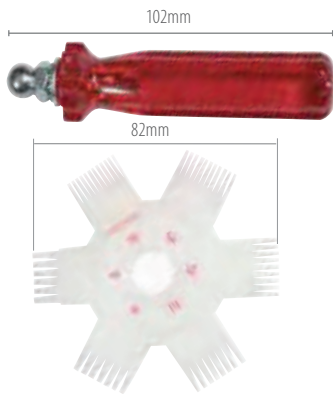


COOLING SYSTEM VACUUM PURGE KIT

- 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
308552	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)
308240	8, 9, 10, 12, 14, 15

Part No.	Contents	Description	Applications
308350	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
308390	308553	Gauge & Pump 35psi/2.5bar	
		Hose with quick connect fittings	
308393	Ref. 3	Bayonet connector cap, Ø 38.5mm	
308394	Ref. 4	Fine threaded cap, Ø 43 mm	
308395	Ref. 5	Threaded cap, Ø 49 mm	
308396	Ref. 6	Coarse threaded cap, Ø 43 mm	
308397	Ref.7	Threaded cap, Ø 69 mm	
308398	Ref. 8	Threaded cap, Ø 39 mm	
308399	Ref. 9	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	
308380	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
308237	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
308500	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 & R124 (Black)</p>	<p>I.D. No. 2 308555</p>  <p>Radiator cap tester R123 & 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
310378	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
310265	100 x 40 x 4mm	40mm	110mm	150mm



BRAKE CALIPER PISTON WIND BACK KIT MECHANICAL

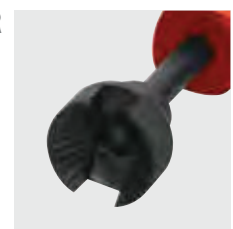
- Comprehensive kit for returning the brake piston to the resting position during removal, installation or carrying out service
- Large T-bar handle for high torque low effort operation
- Kit includes adaptors, forcing plate and forcing screw body
- Suits most popular modern vehicles including Ford,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

Part No.	Description	Application
310350	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
310256	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)
310376	Head	25 - 35mm	150mm	40mm
	Adaptor A	35 - 45mm		
	Adaptor B	45 - 55mm		



**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)



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



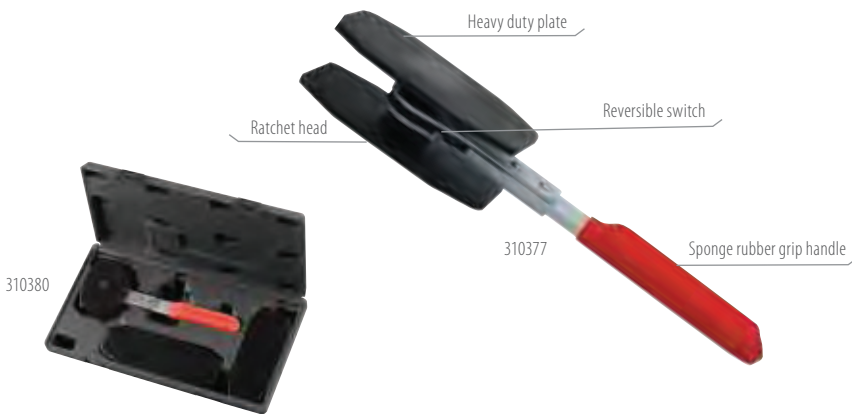
**BRAKE CALIPER
PISTON WIND BACK KIT
PNEUMATIC**

- 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
310375	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

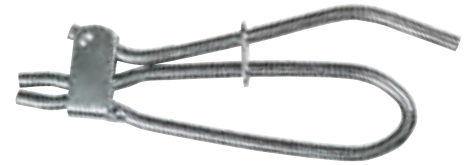


BRAKE CALIPER SPREADER & RETRACTOR RATCHETING

- 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
310377	Individual spreader	40 - 65mm	115 x 60mm	270mm
310380	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
301026	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)
310269	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
310266	Standard	8.5mm	132mm
310255	Heavy duty	14mm	185mm

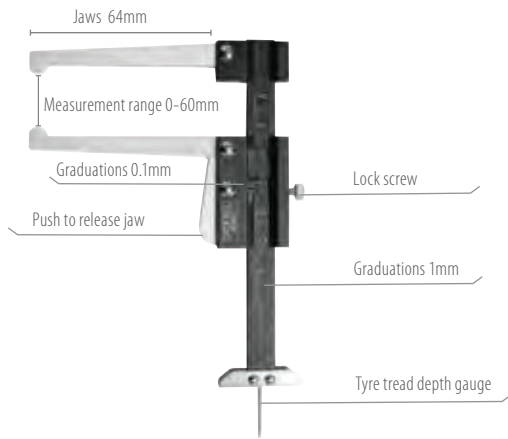


HOSE PINCHERS ANVIL STYLE

- 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
301027	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
310020	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
321105	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



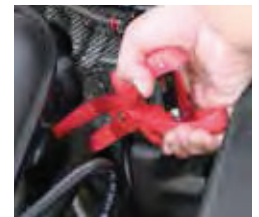
301023



321028



321029



Part No.	Description	Jaw Opening Max	Jaw Width	Overall Length	Pieces
301022	Hose clamping plier	20mm	10mm	150mm	1
301023	Hose clamping plier	33mm	12mm	185mm	1
301024	Hose clamping plier	65mm	12mm	255mm	1
321028	Hose clamping plier w/quick release spring lock	40mm	12mm	220mm	1
321029	Hose clamping plier set - Angled tip 90° (n/a individually)	18, 22, 40mm	9, 12, 13mm	155, 165, 225mm	3
301025A	Hose clamping plier set - 4 x 301022	20mm	10mm	150mm	4
301025	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
321034	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
310005	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
305093	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
310261	60ml	2 x 160mm & 1 x 500mm

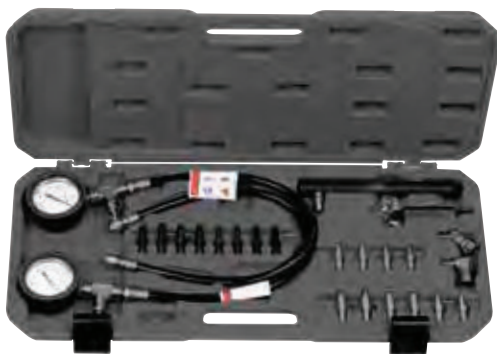


BRAKE BLEEDER PUMP KIT
VACUUM

- 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
310012	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	∅ 5mm & ∅ 7mm	1
	Bleed nipple adaptors	∅ 6mm & ∅ 8mm	3
	Hose pack	80mm	2
		95mm	2
	Connector pack content	∅ 10mm x ∅ 6mm	1
		∅ 8mm x ∅ 6mm	1
		∅ 7mm x ∅ 7mm	1
		∅ 7mm x ∅ 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
310400	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



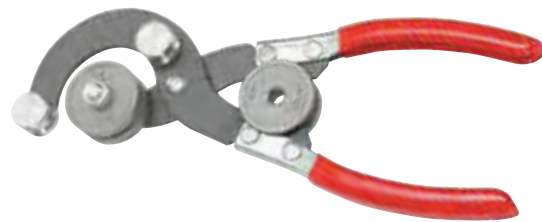
BRAKE BLEEDER WRENCH SET

- 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
310007		7, 8, 9, 10, 11mm	120mm	1.2m

BRAKE



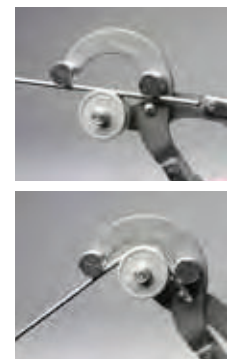
TUBE BENDERS

- 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



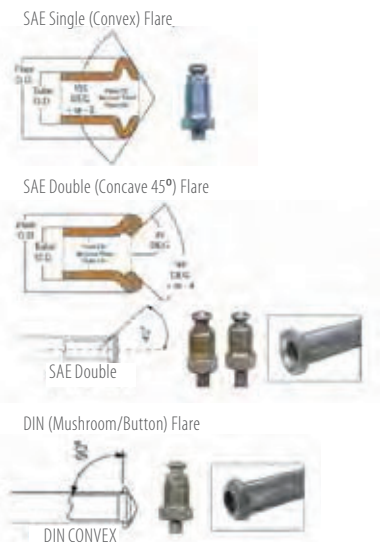
**TUBE BENDER
PLIER STYLE**

- 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
301034	6, 8, 10mm	260mm
301036	4, 6, 8, 10mm	300mm

Part No.	Tube Capacity	Overall Length
301698	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
310006	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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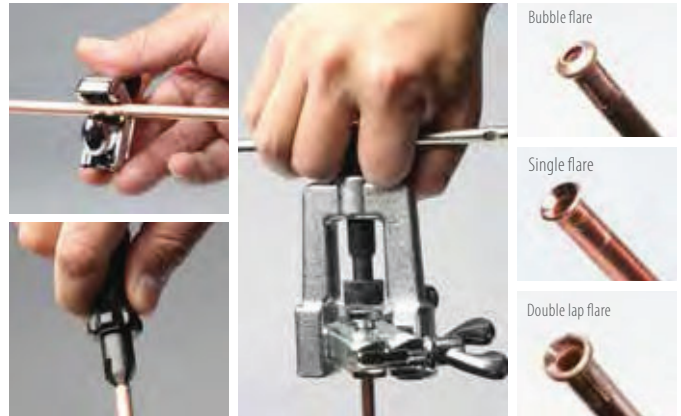
310008



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
301701	Flaring tool kit - Metric	3 - 16mm (1/8" - 5/8")	4.75, 5, 6, 8, 10mm
310008	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
301300	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
301032	Mini tube cutters	3 - 15mm (1/8" - 9/16")	301142
301033	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
301295	Deburring tool 150mm - Universal	8mm	-	-	301295A (each)
321058	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

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

STEP 1



STEP 2



STEP 3



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
301042	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
301350	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
301041	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)
305150	Portable bearing packer	10mm (25/64")	95mm (3 47/64")	50mm (1 31/32")
305230	Threaded centre bearing packer	12mm (15/32")	125mm (4 59/64")	50mm (1 31/32")
305161	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

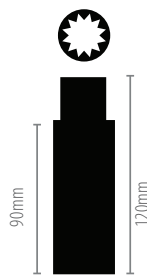
Part No.	Size Range	Pieces
301260	55.5 - 90mm	13

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
311017	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)
311014	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
306219	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
306218	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 dismounting 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
306002	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
306100	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
311288	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



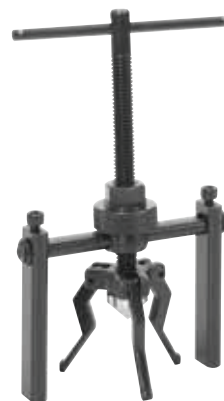
Part No.	Jaw Opening (Max)	Jaw Width	Overall Length
311009	12mm	11mm	240mm



OIL SEAL PLUG SET
UNIVERSAL 5PC

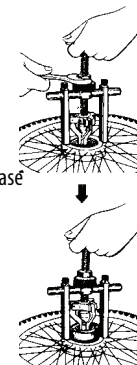
- Stops loss of transmission and transaxle fluids during service or repair
- Five stepped design to retain a positive seal
- HOLLOWED internal section plugs enable excess fluid to be captured and avoid spillage
- Manufactured from high quality plastic for strength and durability
- Includes side gear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

Part No.	Description		
312000	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



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

Scan here for video





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
301104	Band style clamps on CV boots	10mm (3/8")	230mm
CT1	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
306217	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)
311018	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
270000	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
245300	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
269013	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
245440	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
304181	Valve spring compressor - Adjustable jaw	75 - 145mm	25 - 42mm	165mm
304182	Valve spring compressor - Straight & offset jaw	75 - 185mm	25mm	250mm
304183	Valve spring compressor - Dual size collet adaptors	25 - 120mm	25 & 30mm	250mm
304184	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
304185	Valve spring compressor - Side valve type	5 - 20mm	20mm	230mm
304186	Valve spring compressor - Puller type	100mm	60mm	130mm
304187	Valve spring compressor - Puller type	100mm	110mm	230mm
304039	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
301486	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

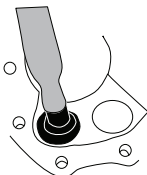


Part No.	Description	Collet / Retainer Size	Application
304050	Valve spring compressor kit	21, 24, 25, 28, 32, 34, 35, 42mm	1 - 12 cylinder engines



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



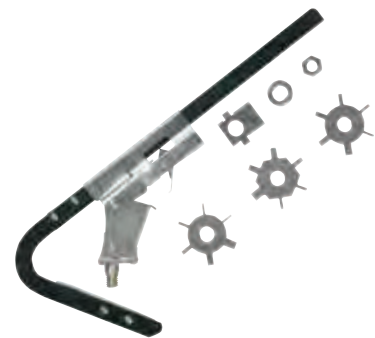
Part No.	Cup Sizes	Overall Length	Pieces
304192	16 x 21, 28 x 35mm	200mm	2



VALVE LIFTER PULLER

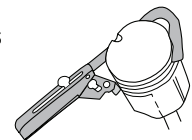
- For use in the removal of hydraulic valve lifters from the lifter bed
- Shaft diameter of 7.5mm to be inserted into the push rod cavity
- Design allows the tip to expand within the lifter and clamp strongly on tappet walls for safe and easy removal

Part No.	Size Range	Overall Length
304188	13 - 19mm	280mm



PISTON RING GROOVE CLEANER

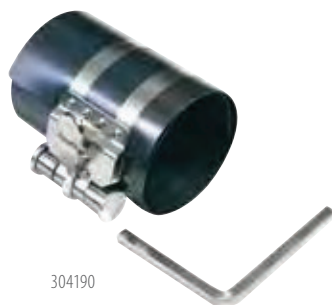
- For cleaning accumulated carbon and material build up inside the piston ring groove
- Three six-sided cutters suitable for both metric and SAE pistons
- Suitable for use on pistons 51 - 127mm (2" - 5")



Part No.	Piston Size	
304193	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
304189	Small piston ring compressor	53 - 125mm (2" - 5")	75mm
304190	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
304044	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

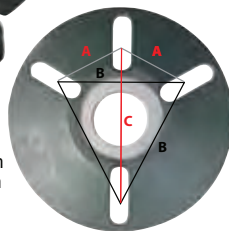
Part No.	Glow Plug Test Range	Battery
304046	4.0 - 24.0V	9V (not included)

Part No.	Jaw Opening	Overall Length
304038	10 - 95mm	235mm



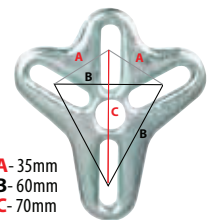
245400

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



254230

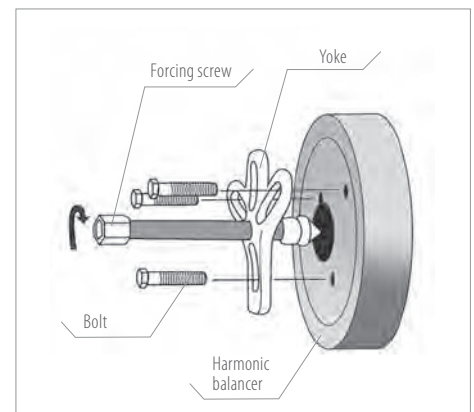
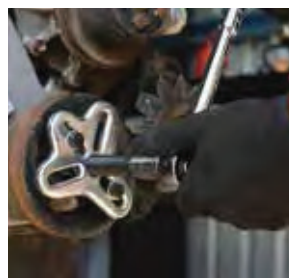
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- A** - 35mm
- B** - 60mm
- C** - 70mm

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
245400	Harmonic balancer puller & installer set	24
254230	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*

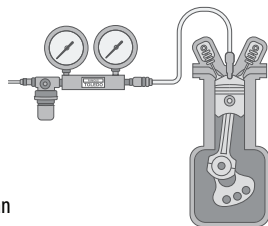


Part No.	Bore Capacity (I.D.)	Legs	Hone Stone Length	Overall Length	Spares - Fine (C#400)	Spares - Medium (C#220)	Spares - Coarse (C#100)
301048	19 - 50mm	3	28mm	210mm	-	301055	-
301046	19 - 64mm	3	50mm	225mm	301052	301053	301054
301049	20 - 64mm	2	28mm	210mm	301056	301057	301058
301045	32 - 85mm	3	50mm	225mm	-	301051	-
301047	32 - 89mm	3	28mm	210mm	-	301055	-
301044	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	
304012	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
304000	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
304400				
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

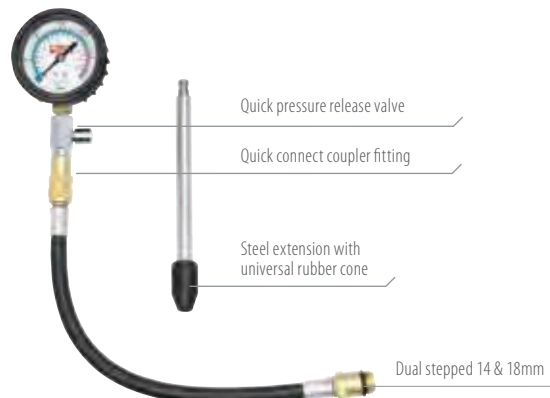


301093



PETROL COMPRESSION TESTER KIT
DUAL SCALE 300PSI & 21KG/CM²

- Petrol compression tester for diagnosis of compression related problems on petrol engines
- Gauge: Dual scale 0-300 psi (0-21kg/cm²) 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
301092	25mm (1") & 27mm (1 1/16")	3/8"	60mm
301093	30mm (1 3/16")	1/2"	88mm

Part No.	Description	Specifications
304198	Gauge	Dual scale 300psi / 21kg/cm ² 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/CM²

- 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/cm²) 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
304010	Gauge & hose assembly	Digital dual scale 300psi/21kg/cm ² 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/CM²

- 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/cm²) with pressure release valve
- Supplied in custom moulded plastic hard case



Calibrated dual graduated



PETROL COMPRESSION TESTER KIT
DUAL SCAL 300PSI & 21KG/CM²

- 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/cm²) with pressure release valve
- Supplied in custom moulded EVA foam tray in plastic hard case



Part No.	Description	Specifications	Image
304009	Gauge	Dual scale 300psi/21kg/cm ² 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	

Part No.	Description	Specifications	Image
304175	Gauge	Dual scale 300psi / 21kg/cm ² 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
304180	Gauge & hose assembly	Digital dual scale 300psi / 21kg/cm ² 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
304600	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: 39mm M10x1.25P
304600-11 Glow Plug No 11	L: 35mm M10x1.0P
304600-12 Glow Plug No 12	L: 59mm 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: 51mm M8x1.0P
304600-16 Glow Plug No 16	L: 85mm M10x1.25P
304600-17 Glow Plug No 17	L: 90mm 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 M8x1.0P
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
312295	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
312291	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
301094	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
321003	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
312287	Small expander	Ø 30 - 44mm
312289	Medium expander	Ø 38 - 64mm
312288	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
301148	Vacuum switch O ₂ sensor socket 3/8" Sq. Dr.	7/8" (22mm)	80mm	
	Vacuum switch O ₂ sensor socket offset 3/8" Sq. Dr.	7/8" (22mm)	30mm	
	Offset deep O ₂ 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 ₂ sensor socket 3/8" Sq. Dr.	7/8" (22mm)	90mm	
	Vacuum switch O ₂ 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
307223	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
307005	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
301173	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
307002	Black 1/4", Red 5/16", Blue 3/8"



A/C & FUEL LINE DISCONNECT SET

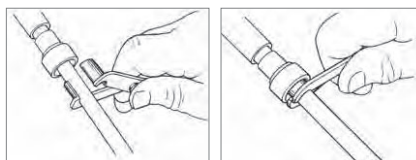
- Essential set of hose removal tools designed specifically for the removal of spring lock coupling type hose fittings
- Ideal for fuel lines and air conditioning system pipes found on Chrysler, Ford and GM applications
- Manufactured from moulded nylon ensuring flexibility and strength to withstand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

Part No.	Size
301060	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
307221	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

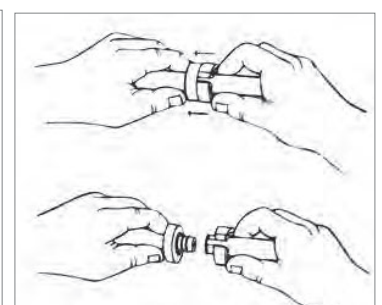
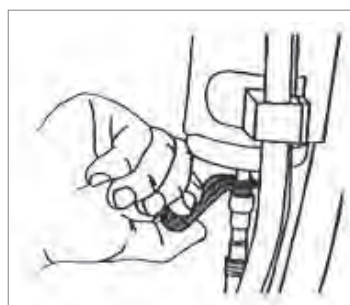
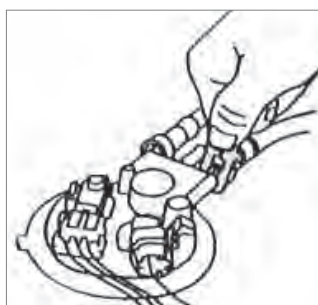
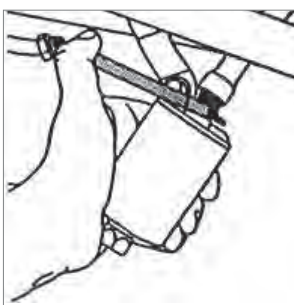
Part No.	Description
307222	A/C & fuel line spring lock coupling tool
	Fuel line disconnect tool - Chrysler, Ford, GM
	Fuel line coupling tool - Ford
	Quick disconnect coupler tool - Ford, GM



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
307010	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
307226	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
307233	Gauge	Ø 90mm 0 - 30Hg (0 - 70cmHg) 0 - 14.7 psi (0 - 1.1kg/cm ²)	
	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
321011	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
307001	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
304048	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
305156	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
307007	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
307003	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
307004	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
304042	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
304042A	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
307350	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
307300	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
305229	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
305227	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
305214	1 litre/1 quart	60° C	500ml	305264A
305264	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
305152	200ml	400mm	305152A
305151	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
305153	1 litre	50 - 70 psi	305153A
304154	2 litre	50 - 70 psi	305153A



305090 & 305091



305382



305053



305089

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
305090	Universal drain pan & can	10L	580L x 330W x 140H (mm)
305091	Universal drain pan & can	17L	700L x 400W x 140H (mm)
305382	Universal drain pan	14L	Ø 450 x 150H (mm)
305053	Transmission & gearbox drain pan	17.3L	Ø 200 x 820L x 545W (mm)
305089	Low profile drain pan	20L	Ø 125 x 850L x 600W (mm)



Mess free pour

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
305095	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
305092	31, 35, 40, 42, 45mm & universal tapered cone	305092A



Plier lock latch
Strainer to filter media
Threaded cone for stability
Unique auto locking

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
305080	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
305388	Funnel	1.7L	Ø 205mm	170mm
305389	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
305094	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
305300	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	
305003	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	
305216	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"



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
305052	60 - 90mm	230mm
305074	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
305208	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
305203	Small	Ø 60 - 73mm	25mm
305204	Medium	Ø 73 - 85mm	25mm
305205	Large	Ø 85 - 95mm	25mm
305206	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
305022	Ø 60 - 80mm	3/8"
305002	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
305211	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
305073	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
305025	Leather strap oil filter remover - Small	Ø 25 - 160mm	19mm
305026	Leather strap oil filter remover - Large	Ø 40 - 240mm	25mm
305044	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
305021	Oil filter remover - 3 jaw triangle body	Ø 60 - 125mm
305209	Oil filter remover - 3 leg round body	Ø 75 - 120mm
305210	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

Note: Dual stepped cups feature two sizes in one

Scan for application list



305103



305104 with
oil filter housing



305104



305056

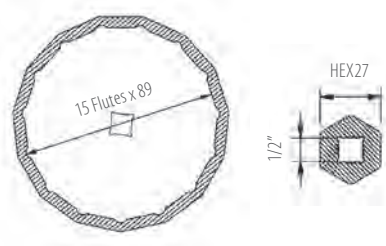
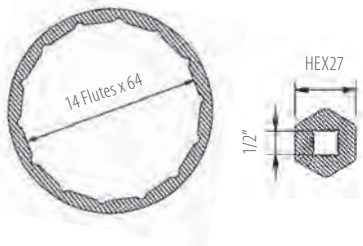
Part No.	Size	Flutes	Square Drive	Material
305103	24mm	6	1/2"	Aluminium - Anodized Blue
305104	27mm	6	3/8"	Aluminium - Chrome
305105	30mm	6	3/8"	Alloy steel - Black
305801	32.5mm	6	1/2"	Aluminium - Chrome
305106	32mm	6	3/8"	Aluminium - Chrome
305107	36mm	6	1/2"	Aluminium - Chrome
305108	38mm	6	3/8"	Alloy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

Part No.	Size	Flutes	Square Drive	Material
305903-2	74mm	8	1/2"	Aluminium - Chrome
305903-3	74mm	15	1/2"	Aluminium - Chrome
305057	Dual step 74 & 76mm	15	3/8"	Alloy steel - Black
305135	74.2mm	14	3/8"	Aluminium - Chrome
305061	Dual step 75 & 77mm	15	3/8"	Alloy steel - Black
305903-1	75mm	15	1/2"	Aluminium - Chrome
305114	75.6mm	14	3/8"	Alloy steel - Black
305058	76mm	14	3/8"	Alloy steel - Black
305059	76mm	30	3/8"	Alloy steel - Black
305115	76mm	12	3/8"	Alloy steel - Black
305117	76mm	8	3/8"	Alloy steel - Black
305911	76mm	12	1/2"	Aluminium - Chrome
305118	76.5mm	14	3/8"	Alloy steel - Black
305119	78mm	15	3/8"	Alloy steel - Black
305904	79mm	15	1/2"	Aluminium - Chrome
305063	Dual step 80 & 82mm	15	3/8"	Alloy steel - Black
305138	84mm	14	1/2"	Aluminium - Chrome
305906	84mm	18	1/2"	Aluminium - Chrome
305912	86mm	14	1/2"	Aluminium - Chrome
305120	86mm	18	3/8"	Alloy steel - Black
305121	86mm	16	3/8"	Alloy steel - Black
305136	86.6mm	16	3/8"	Aluminium - Chrome
305800-915	87mm	16	1/2"	Aluminium - Chrome
305123	88.5mm	15	3/8"	Alloy steel - Black
305134	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
305004	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
305800	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
305900	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
305072	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
305990	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
305400	Funnel for AdBlue® - Straight neck	1.1L
305401	Funnel for AdBlue® - Angled neck	1.1L
305402	Syringe for AdBlue®	1.5L
305158	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
311271	Fork type	17mm	200mm
311273	Fork type	24mm	300mm
311272	Fork type	18mm	400mm
311282	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
311274	19mm	38mm	15- 48mm	135mm
311275	22mm	44mm	0 - 56mm	160mm
311276	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

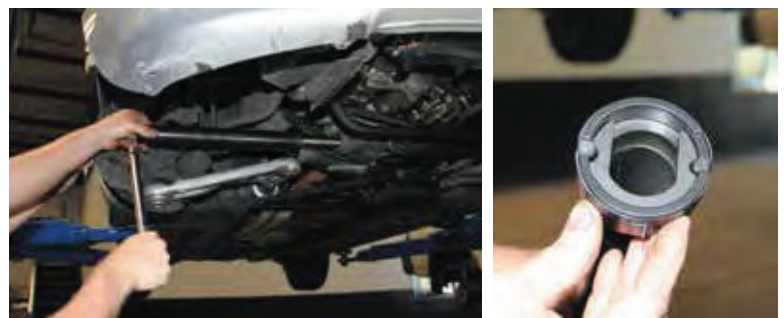
Part No.	Jaw Opening (Max)	Jaw Depth (Max)	Square Drive/Hex	Overall Length
311279	33mm	60mm	3/8"/19mm	105mm
311281	27mm	44mm	3/8"/19mm	115mm
311280	65mm	85mm	19mm Hex	150mm

Part No.	Spread	Reach
250250	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
311290	Inner tie rod tool - Universal	33 - 42mm	1 5/16" - 1 21/32"	-
311287	Inner tie rod tool set - 7pc	14, 17, 33.6mm	1 3/16", 1 1/4", 1 5/16", 1 7/16"	311287A
311295	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
245370	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
311021	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
311289	± 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
245380	Ø 28 - 35mm	7

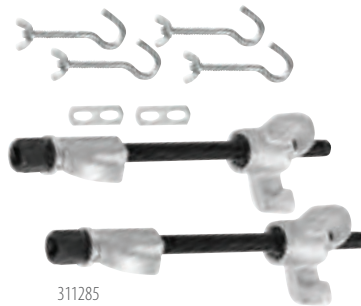
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311284

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311285

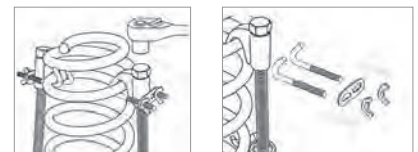


311286

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
311284	85mm	260mm	300mm
311285	90mm	260mm	300mm
311286	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
311278	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
311002	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
311020	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
311022	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
309040	300mm
309033	400mm
309034	500mm
309035	600mm

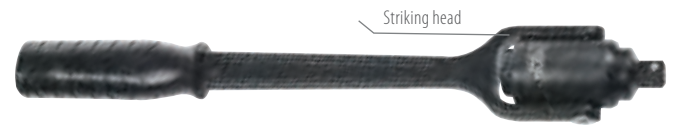


DIGITAL TYRE PRESSURE GAUGE

- 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
309101	5 - 150psi	0.1psi, 0.01bar, 1 kPa/0.01kg, cm ²	5 - 100psi (+/-1psi), 101 - 150psi (+/-2psi)



Striking head

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

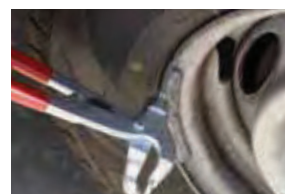


Part No.	Square Drive	Overall Length
321032	1/2"	410mm



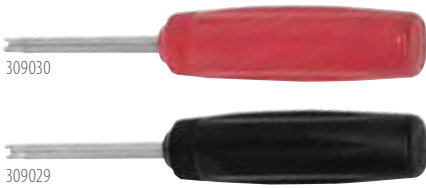
WHEEL WEIGHT PLIERS

- 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
309243	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
309030	25Ncm (2in. lbs.)	120mm
309029	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
309246	110mm/155mm	2

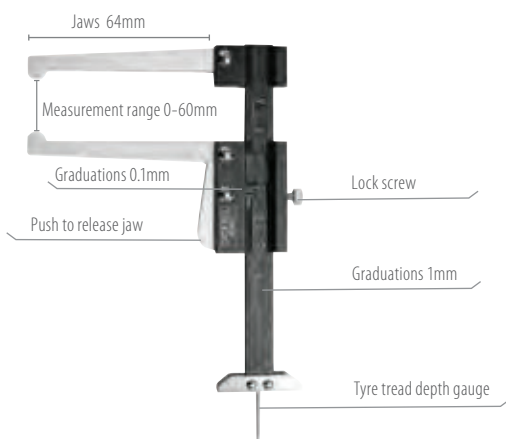


TYRE VALVE REMOVER & INSTALLER 180° HEAD

- 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
309000	5/16" x 32T	370mm

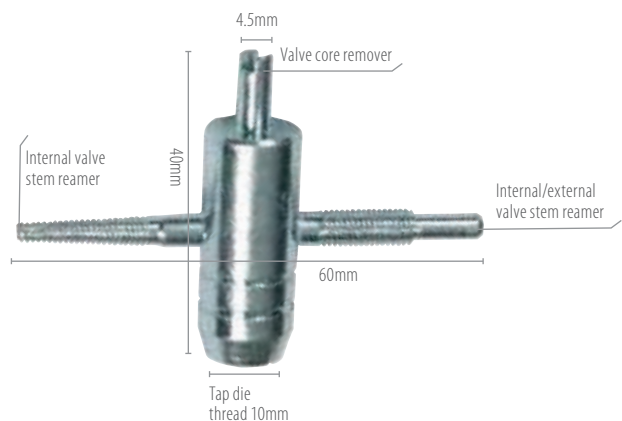


TYRE DEPTH & DISC BRAKE GAUGE

- 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

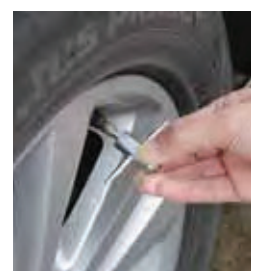


Part No.	Measuring Range	Graduated Body	Graduated Sliding Bar
310020	0 - 60mm	1mm	0.1mm



TYRE VALVE REMOVER 4 WAY



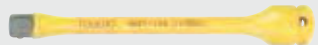
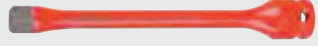
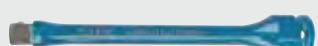



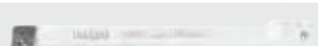

- For the removal and installation of tyre valves and valve cores on both tubed and tubeless tyres
- Tapped ends repair both inner and outer valve threads
- High grade tempered steel construction
- Suitable for standard valves



Part No.	Size (Length x Width x Thickness)
309245	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
309500	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
309001	Hexagon 6 point	2 3/32"
309014	Hexagon 6 point	2 1/4"
309006	Hexagon 6 point	2 3/8"
309023	Octagon 8 point	2 3/8"
309015	Hexagon 6 point	2 1/2"
309002	Hexagon 6 point	2 9/16"
309021	Hexagon Rounded 6 point	2 9/16"
309016	Hexagon 6 point	2 5/8"
309017	Hexagon 6 point	2 3/4"

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

Part No.	Socket Type	Size
309020	Hexagon 6 point	3 7/8"
309022	Octagon 8 point	3 7/8"
309008	Hexagon 6 point	4"
309009	Hexagon 6 point	4 1/8"
309010	Hexagon 6 point	4 3/8"
309011	Octagon 8 point	4 3/8"
309038	Octagon 8 point	4 13/16"
309012	Hexagon 6 point	4 7/8"
309013	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
309110	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
309300	Metric set	17, 19, 21mm	3
309032	Metric set - Extra Long 150mm	17, 19, 21mm	3
309036	Metric set	15, 17, 19, 21, 22mm	5
309350	Metric set	17, 19, 21, 22, 23, 24, 27mm	7
309400	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
309055	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



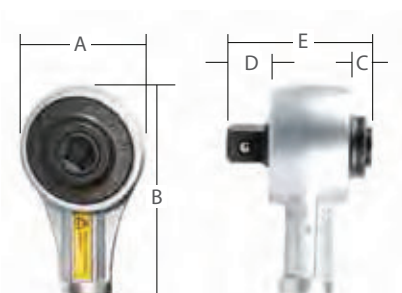
TORQUE MULTIPLIER

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
321009	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)
311014	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)
309041	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

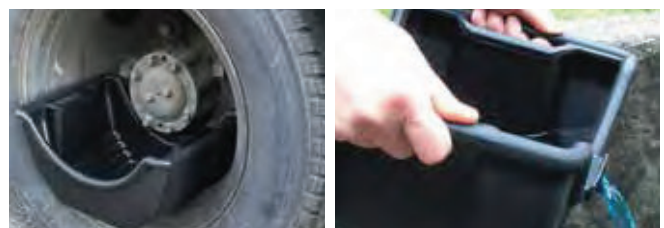


Part No.	Socket Sizes	Telescopic Extension
309248	17, 19, 21, 23mm	340 - 530mm

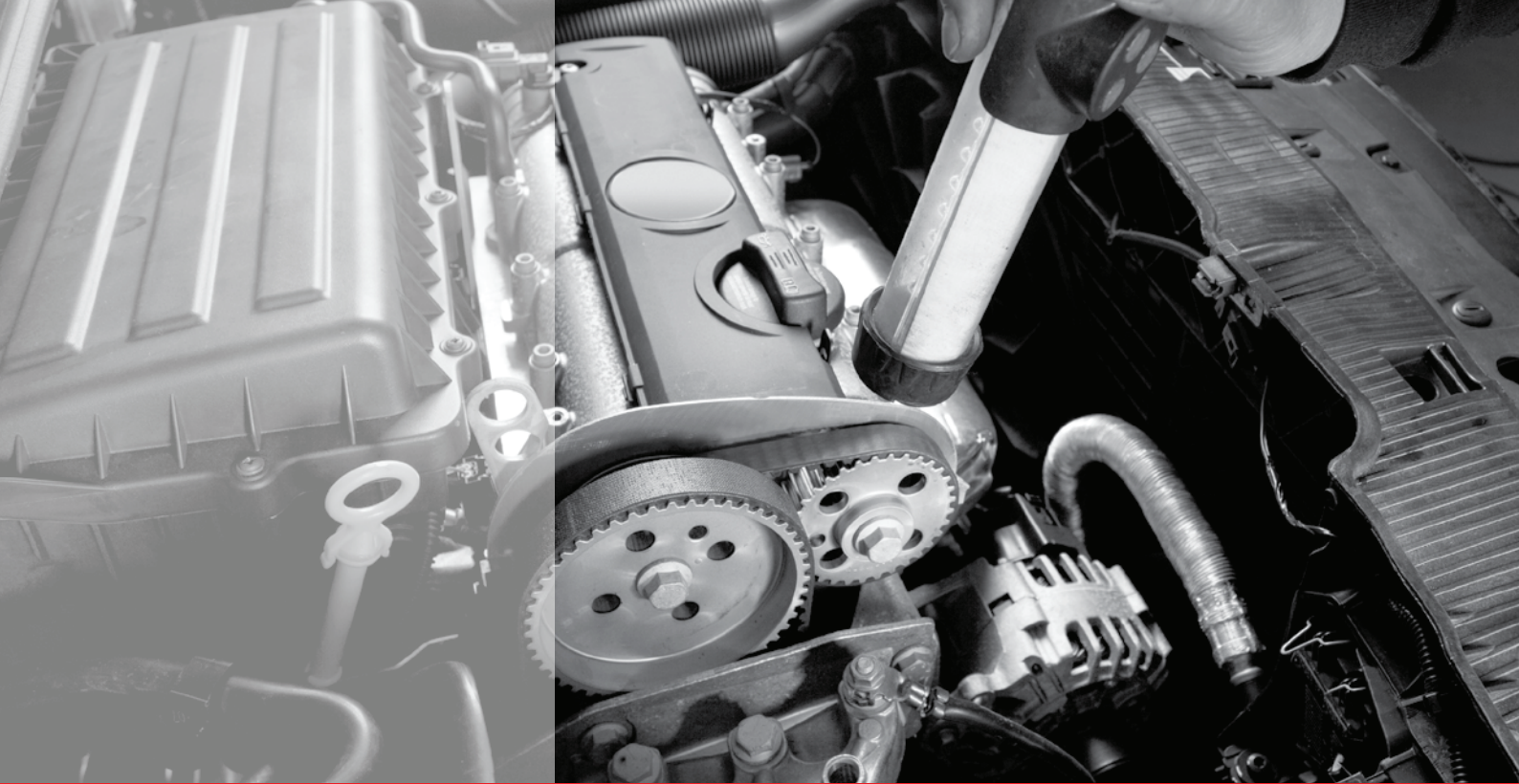


TRUCK & TRAILER WHEEL PAN

- 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
309039	3L	Ø 350mm



TIMING TOOLS

ALFA ROMEO	122	MINI	167
AUDI	124	MITSUBISHI	168
BMW	134	NISSAN	170
CHRYSLER/DODGE	142	PEUGEOT	171
CITROEN	142	PORSCHE	174
FIAT	142	RANGE ROVER	174
FORD	143	RENAULT	174
HOLDEN	153	SAAB	176
HONDA	159	SKODA	176
HYUNDAI	159	SSANGYONG	177
JAGUAR	162	SUBARU	178
JEEP	161	TOYOTA	180
KIA	160	UNIVERSAL	184
LAND ROVER	161	VOLKSWAGEN	181
MAZDA	159, 163	VOLVO	183
MERCEDES	164		

TIMING TOOLS

INTRODUCTION

- The Toledo Timing Tool range consists of uniquely designed engine timing and locking tool kits required for the servicing and repairs of modern passenger vehicle engines for the Australian and New Zealand vehicle car parc.
- Each kit has been designed to provide maximum market coverage for petrol and/or diesel vehicle applications in the servicing of timing belts, timing chain, gears and other engine repairs. Kits are available in master, popular and universal applications.
- The range has been developed for use within original manufacturer's service specifications. As the timing tool kit must be compatible with the vehicle application, always refer to manufacturer's service notes or bulletins to ensure correct servicing instructions. Each kit features an OEM tool identification guide to enable correct tool selection.
- Each kit is individually supplied in custom moulded EVA foam and strong metal storage box

NOTE: Incorrect tool use during repairs can lead to serious engine damage. Toledo recommends that repairs be carried out by a trained professional.

ALFA ROMEO

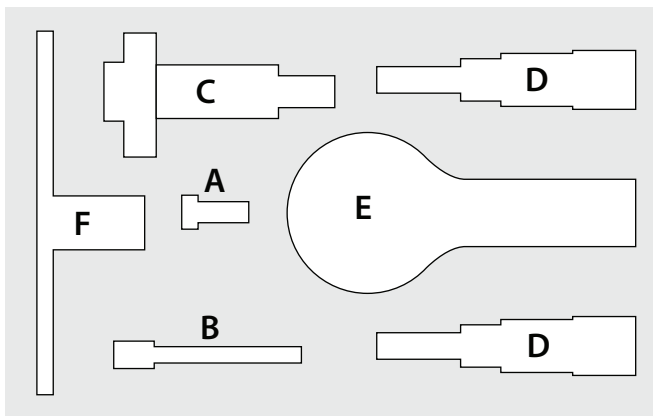
TIMING TOOL KIT

- Suitable for popular 1.9L – 2.4L diesel engine applications
- For the locking and alignment of the camshafts, crankshaft and injection pump during the removal and installation of the engine timing belt and other engine servicing and repairs

APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304720	Alfa Romeo		
	147	1.9L	2006 - 2009
	159	1.9L, 2.4L	2006 - 2012
	Giulietta (2.0 JTD-M)	2.0L	2012 - 2015
	Fiat		
	Bravo	1.9L	2007 - 2008
	Doblo (Maxi)	2.0L	2014 - 2018
	Freemont (Urban)	2.0L	2013 - 2017
	Multipla	1.9L	2000 - 2010
	Punto	1.9L	2006 - 2009
	Ritmo	1.9L	2008 - 2010
	SAAB		
	9-3 (1.9 TiD)	1.9L	2007 - 2012
	9-5 (2.0 TiD)	2.0L	2011 - 2012

TOOL REFERENCE



CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0067		Bolt
B	A0109	1 860 965 000	Injection Pump Timing Pin
C	A0181	1 860 846 001	Flywheel Locking Tool
D	A0184	1 870 896 900	Camshaft Locking Tools
E	A0333	1 860 905 000, 1 860 905 010, 2 000 003 000	Crankshaft Alignment Tool
F	A0422	1 860 898 000	Flywheel Locking Tool

Also suitable: Part No. 304712 TIMING TOOL MASTER KIT



- Suitable for popular Alfa 147, 159 & Giulietta, 1.9L - 2.4L (DOHC) diesel engine applications
- For full kit contents refer to page 154



Scan here for link to part finder

TIMING & ALIGNMENT TOOL MASTER KIT



- Suitable for popular 1.2L – 2.0L DOHC 16V petrol and 1.6L - 1.9L diesel engine applications
- For the locking and alignment of the camshaft and crankshaft during the removal and installation of the engine timing belt and other engine servicing and repairs



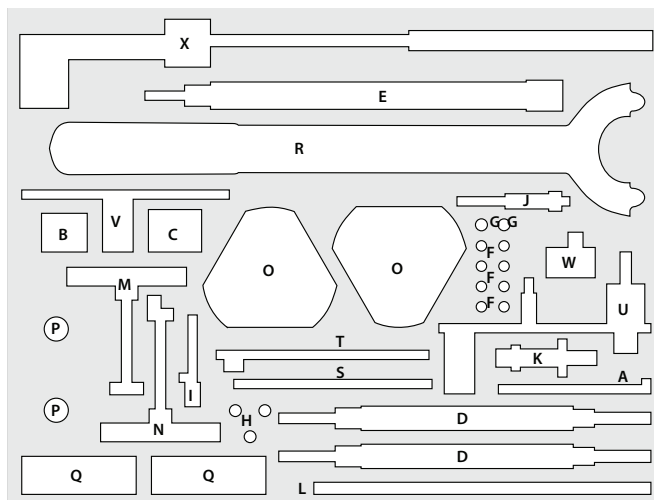
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304705	Abarth		
	500	1.4L (312A)	2011 - 2014
	595	1.4L (312A)	2014 - 2018
	695	1.4L (312A)	2011 - 2016
	Alfa Romeo		
	147, 156	2.0L (AR32310)	1999 - 2009
	Giulietta (1.4)	1.4L (198A4)	2013 - 2015
	GTV (2.0)	2.0L (AR32301)	1998 - 2003
	Mito	1.4L (198A4 / 8)	2009 - 2011
	Spider	2.0L (AR32301)	1998 - 2002
	Spider (Velcoe)	2.0L (AR32310)	2002 - 2003
	Fiat		
	500	1.4L (169A3)	2008 - 2012
	Punto	1.4L (198A4)	2008 - 2010
	Punto	1.9L	2006 - 2009
	Ritmo	1.4L	2008 - 2010
	Ritmo	1.9L	2008 - 2010

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0014	1 860 987 000	Tensioner Tool
B	A0031	1 867 030 000	Flywheel Locking Tool
C	A0033	1 860 680 000, 1 860 771 000	Flywheel Locking Tool
D	A0040	1 860 992 000	Piston Position Tools
E	A0041	1 860 895 000	Adaptor-Tdc Indicator
F	A0056		Bolt
G	A0061		Bolt
H	A0067		Bolt
I	A0081	1 860 965 000	Injection Pump Timing Pin
J	A0175	6MM	Crankshaft Locking Tool and Bolt
K	A0183	1 860 876 000	Tensioning Tool
L	A0230	7004-TG	Camshaft Timing Pin
M	A0235	1.822.154.000	Balance Shaft Tension Tool
N	A0236	1.822.149.000	Tensioning Tool
O	A0251	1 860 874 000	Camshaft Locking Tools
P	A0287	1 860 985 000	Camshaft Locking Tools
Q	A0295	1.825.041.000	Camshaft Locking Caps
R	A0313	1 860 831 000	Camshaft Adjusting Wrench
S	A0333	1 860 905 000, 1 860 905 010, 2 000 003 000, 2 000 003 000	Crankshaft Alignment Tool
T	A0336	2 000 004 500	Crankshaft Locking Tool
U	A0347	1 860 876 000	Tensioning Tool
V	A0422	1 860 898 000	Flywheel Locking Tool
W	A0609	2 000 015 800	Camshaft Sprocket Locking Tool
X	A0614	1.822.146.000, 1.822.156.000, 1 860 831 000, 1 860 831 001	Camshaft Holding Tool

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 1.6L – 2.0L petrol engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



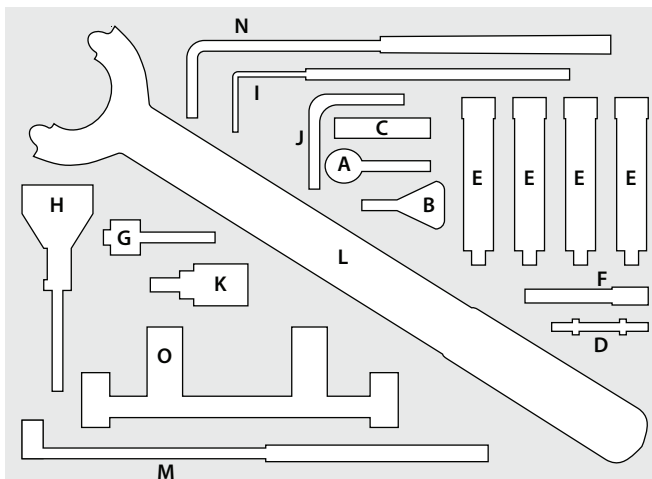
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304714	Audi		
	A3 (8L, 8P)	1.6L - 2.0L	1997 - 2011
	A4 (B5, B6, B7)	1.8L, 2.0L	1995 - 2009
	A6 (C6)	2.0L (BPF)	2006 - 2008
	TT	1.8L, 2.0L	1999 - 2015
	Skoda		
	Octavia (1Z)	2.0L	2005 - 2009
	Volkswagen		
	Beetle	1.6L - 2.0L	2000 - 2011
	Bora (1J)	2.0L	1999 - 2005
	Caddy (2K)	1.6L	2004 - 2010
	EOS (1F)	2.0L (BWA)	2007 - 2008
	Golf	1.6L - 2.0L	1995 - 2013
	Jetta (1K)	2.0L	2005 - 2009
	Passat (3B, 3C)	1.8L, 2.0L	1997 - 2008
	Polo (9N)	1.8L (BJX)	2005 - 2010
	Scirocco (1S)	2.0L (CDLC)	2010 - 2017

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0002	T40011	Tensioner Bolt / Locking Pin
B	A0011	T10115	Chain Tensioner Locking Pin
C	A0013	T10008	Tensioner Locking Tool
D	A0043	M5 X 55mm	Stud & Nut
E	A0058	3369	Support Guides
F	A0083		Auxiliary Drive Belt Tensioner Locking Tool
G	A0163	T10092	Bolt & Nut (M5)
H	A0176	3366	Camshaft Sprocket Holding Tool
I	A0198	T40098	Auxiliary Drive Belt Tensioner Locking Pin
J	A0210	3204, T10060, T10060A	Auxiliary Drive Belt Tensioner Locking Pin
K	A0255	40080, T20079, T40080	Camshaft Adjuster Socket
L	A0313	3036	Camshaft Adjusting Wrench
M	A0317	T10020, U-30009, V159	Tensioner Pulley Adjusting Tool
N	A0318	3387, T10020, V159	Tensioner Pulley Adjusting Tool
O	A0350	T10252	Camshaft Alignment Tool

TOOL REFERENCE



TIMING TOOL MASTER KIT

- Suitable for various 1.4L – 2.0L petrol and diesel engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



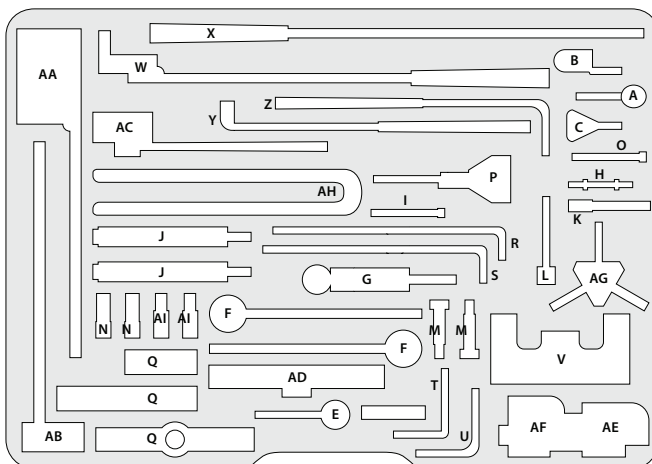
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304715	Audi		
	A1, A3, A4, A6	1.6L - 2.0L	1995 - 2015
	A3, A4, A5, A6 (Diesel)	1.6L - 2.0L	2004 - 2015
	Q3	2.0L (CULB)	2015 - 2018
	Q3 (Diesel)	2.0L	2012 - 2018
	TT	1.8L, 2.0L	1999 - 2015
	Skoda		
	Fabia	1.4L (CGGB)	2013 - 2014
	Octavia, Roomster, Superb, Yeti (Diesel)	1.6L - 2.0L	2006 - 2018
	Volkswagen		
	Amarok (Diesel)	2.0L	2011 - 2018
	Beetle, Caddy, EOS, Golf, Jetta, Passat, Polo, Scirocco	1.4L - 2.0L	1995 - 2017
	Beetle, Caddy, EOS, Golf, Jetta, Passat, Polo, Tiguan (Diesel)	1.6L - 2.0L	1995 - 2016
	Multivan, Transporter (Diesel)	1.9L, 2.0L	2004 - 2018
	Transporter	2.0L (AXA)	2004 - 2010

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0002	T40011	Tensioner Bolt/Locking Pin
B	A0010		Locking Pin
C	A0011	T10115	Chain Tensioner Locking Pin
D	A0013	T10008	Tensioner Locking Tool
E	A0022	3359, MP1-301	Camshaft Locking Tool
F	A0023	3411	Support Guides
G	A0025	T10016, T10074	Camshaft Locking Tool
H	A0043	M5 X 55MM	Stud & Nut
I	A0044		Set Screw (M5 X 60mm)
J	A0059	3369	Support Guides
K	A0083		Auxiliary Drive Belt Tensioner Locking Tool
L	A0111		Timing Pin
M	A0116	3418, T10098	Camshaft Setting Bar
N	A0143	T10172-4	Camshaft Sprocket Holding Tool Pins
O	A0163	T10092	Bolt & Nut (M5)
P	A0176	3366	Camshaft Sprocket Holding Tool
Q	A0189	T40001	Camshaft Sprocket Puller
R	A0197	T10264	Tensioner Pulley Adjusting Tool
S	A0198	T10265	Auxiliary Drive Belt Tensioner Locking Pin
T	A0209	3204, T10060, T10060A	Auxiliary Drive Belt Tensioner Locking Pin
U	A0210	3204, T10060, T10060A	Auxiliary Drive Belt Tensioner Locking Pin
V	A0272	3418, T10098	Camshaft Setting Bar
W	A0313	3036	Camshaft Adjusting Wrench
X	A0314	T10172	Universal Flange Holding Wrench
Y	A0317	3387, 10020, T10004, T10020, U-30009, V159	Tensioner Pulley Adjusting Tool
Z	A0318	3387, 10020, T10004, T10020, U-30009, V159	Tensioner Pulley Adjusting Tool
AA	A0322	T10028	Crankshaft Pulley Holding Tool
AB	A0323	3415, T30004	Crankshaft Pulley Holding Tool
AC	A0325	3387, 10020, T10004, T10020, U-30009, V159	Tensioner Pulley Adjusting Tool
AD	A0351	3418, T10098	Camshaft Setting Bar
AE	A0380	T10050, T10100	Crankshaft Sprocket Locking Tool
AF	A0381	T10050, T10100	Crankshaft Sprocket Locking Tool
AG	A0408		Tensioner Adjusting Tool
AH	A0453	3212	Pulley Holding Tool
AI	A0454	T10172-2, T10172-4	Camshaft Sprocket Holding Tool Pins

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 1.4L – 1.6L DOHC 16V petrol engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



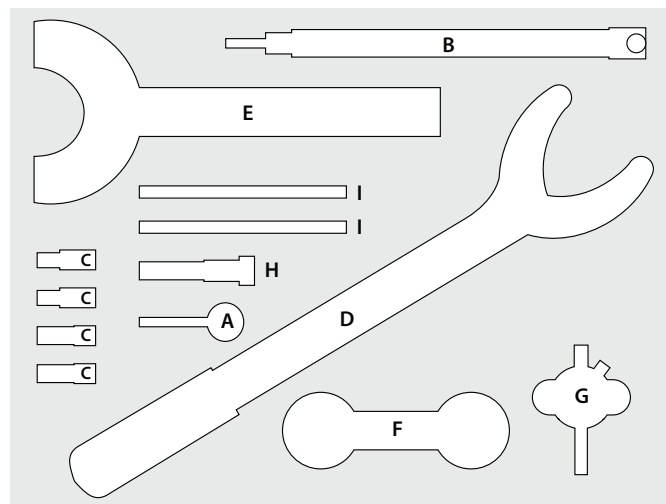
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304716	Audi		
	A1	1.4L	2010 - 2015
	A3	1.4L	2008 - 2013
	Skoda		
	Fabia	1.4L	2010 - 2015
	Octavia	1.4L	2010 - 2013
	Rapid	1.4L (CAXA)	2013 - 2015
	Roomster	1.6L (BTS)	2007 - 2015
	Yeti	1.4L (CAXA)	2014 - 2018
	Volkswagen		
	Beetle	1.4L (CTHD)	2013 - 2018
	Golf	1.4L, 1.6L	2004 - 2014
	Jetta	1.4L	2004 - 2017
	Polo	1.4L, 1.6L	2006 - 2014
	Scirocco	1.4L	2009 - 2010
	Tiguan	1.4L	2011 - 2016

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0001	T40011	Tensioner Locking Pin
B	A0041	T10170	Adaptor - TDC Indicator
C	A0143	T10172-4	Camshaft Sprocket Holding Tool Pins
D	A0314	T10172	Universal Flange Holding Wrench
E	A0323	3415, T30004	Crankshaft Pulley Holding Tool
F	A0398	T10171, T10171A	Camshaft Alignment Tool
G	A0409	6079	Dial Gauge
H	A0631	T10340	Crankshaft Locking Tool
I	A0632	T10341	Tools - Guide Pins (2)

TOOL REFERENCE



TIMING TOOL KIT  

- Suitable for popular 1.4L – 2.0L petrol and diesel engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



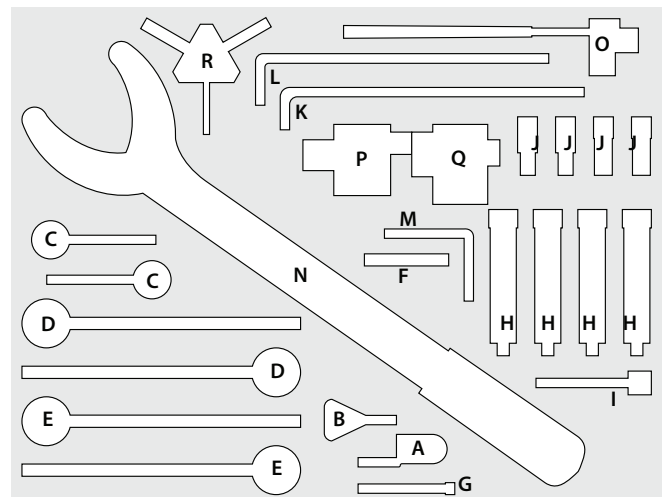
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304725	Audi		
	A3, A4, A6	1.8L, 2.0L	1997 - 2009
	A3, A4, A5, A6 (Diesel)	2.0L	2004 - 2018
	Q3	2.0L	2015 - 2018
	Q3, Q5 (Diesel)	2.0L	2009 - 2018
	TT	2.0L	2006 - 2015
	Skoda		
	Octavia (Diesel)	1.6L - 2.0L	2006 - 2014
	Roomster (Diesel)	1.9L	2007 - 2010
	Superb (Diesel)	2.0L	2008 - 2018
	Yeti (Diesel)	2.0L	2010 - 2017
	Volkswagen		
	Amarok (Diesel)	2.0L	2011 - 2018
	Beetle, EOS, Golf, Jetta, Passat, Polo	1.6L - 2.0L	1997 - 2013
	Beetle, EOS, Golf, Passat, Polo, Tiguan (Diesel)	1.6L - 2.0L	1995 - 2016
	Caddy, Citivan	1.6L, 2.0L	2006 - 2010
	Caddy, Citivan (Diesel)	1.6L - 2.0L	2004 - 2015
	Multivan, Transporter (Diesel)	2.0L	2004 - 2018
	Scirocco	2.0L	2010 - 2017
	Multivan	2.0L	2004 - 2010

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0010		Locking Pin
B	A0011	T10115	Chain Tensioner Locking Pin
C	A0022	3359, MP 1-301	Camshaft Locking Tool
D	A0023	3411	Support Guides
E	A0024	T10093	Support Guides
F	A0043	M5 x 55mm	Stud and Nut
G	A0044		Set Screw M5 x 60mm
H	A0058	3369	Support Guides
I	A0111		Timing Pin
J	A0143	T10172-4	Camshaft Sprocket Holding Tool Pins
K	A0197	T10264	Tensioner Pulley Adjusting Tool
L	A0198	T10265, T40098	Auxiliary Drive Belt Tensioner Locking Pin
M	A0209	3204, T10060, T10060A	Auxiliary Drive Belt Tensioner Locking Pin
N	A0314	T10172	Universal Flange Holding Wrench
O	A0326	3387, 10020, T10004, T10020, U-30009, V159	Tensioner Pulley Adjusting Tool
P	A0380	T10100	Crankshaft Sprocket Locking Tool
Q	A0381	T10050	Crankshaft Sprocket Locking Tool
R	A0408		Tensioner Adjusting Tool

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for various 1.4L – 2.0L petrol engine models
- For the locking and alignment of the camshaft and crankshaft during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



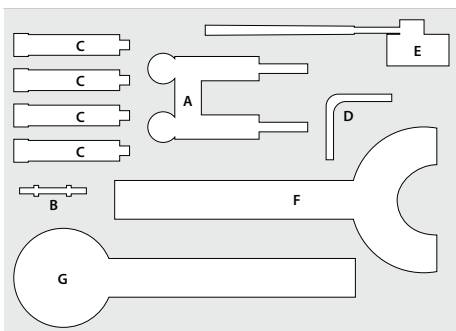
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304728	Audi		
	A2	1.4L, 1.6L	2001 - 2004
	A4	1.8L - 2.0L	1995 - 2008
	Volkswagen		
	Beetle	1.6L	2001 - 2011
	Caddy	1.6L	2004 - 2010
	Citivan	2.0L	2006 - 2010
	Golf	1.6L	1995 - 2009
	Passat	1.8L - 2.0L	1997 - 2005
	Polo	1.4L - 1.8L	2000 - 2014
	Transporter	2.0L	2004 - 2010

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0025	T10016, T10074	Camshaft Locking Tool
B	A0043	M5 X 55MM	Stud and Nut
C	A0058	3369	Support Guides
D	A0210	3204, T10060, T10060A	Auxiliary Drive Belt Tensioner Locking Pin
E	A0322	T10028	Crankshaft Pulley Holding Tool
F	A0323	3415	Crankshaft Pulley Holding Tool
G	A0325	T10020	Two-Pin Wrench

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 2.7L & 3.0L (V6), 4.1L & 4.2L (V8) DOHC diesel engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs



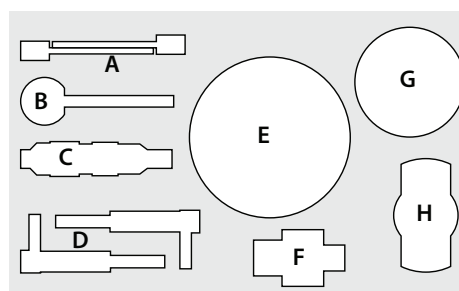
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304735	Audi		
	A4	2.7L, 3.0L (TDI)	2005 - 2014
	A5	3.0L (TDI)	2008 - 2017
	A6	2.7L, 3.0L (TDI)	2004 - 2018
	A7	3.0L (TDI)	2011 - 2018
	A8	3.0L, 4.1L, 4.2L (TDI)	2006 - 2018
	Q5	3.0L (TDI)	2009 - 2016
	Q7	3.0L, 4.1L, 4.2L (TDI)	2006 - 2015
	SQ5	3.0L (TDI)	2013 - 2016
	Porsche		
	Cayenne	3.0L (TDI)	2010 - 2014
	Volkswagen		
	Touareg	3.0L, 4.2L (TDI)	2006 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0644	40071	Tensioner Locking Pin (2 X 3.3mm)
B	A0022	3359	Camshaft Locking Tool
C	A0639	3242	Crankshaft TDC Locking Screw
D	A0212	T40060	Camshaft Locking Pin
E	A0641	T40049	Crankshaft Turning Tool
F	A0640	T40058	Crankshaft Pulley Bolt Adaptor
G	A0642	T40061	Camshaft Alignment Locking Tool
H	A0643	T40062	Camshaft Sprocket Holding Tool

TOOL REFERENCE



TIMING TOOL KIT  Petrol

- Suitable for various 1.8L and 2.0L DOHC 16V TFSi & 2.0L turbo petrol engine models
- For the locking and alignment of the camshaft, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs



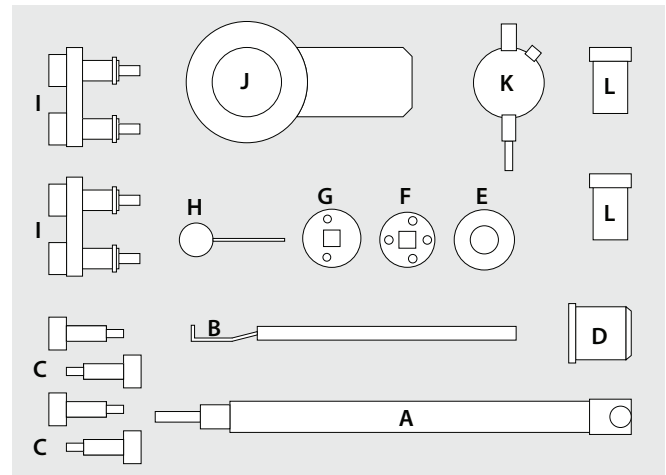
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304750	Audi		
	A3, A4, A5, A6	1.8L - 2.0L	2007 - 2018
	Q3, Q5	2.0L	2009 - 2016
	TT	1.8L - 2.0L	2009 - 2018
	Skoda		
	Octavia	1.8L - 2.0L	2013 - 2018
	Volkswagen		
	Amarok	2.0L	2011 - 2016
	EOS	2.0L	2008 - 2016
	Golf	2.0L	2009 - 2018
	Jetta	2.0L	2009 - 2016
	Passat	1.8L - 2.0L	2008 - 2018
	Tiguan	2.0L	2008 - 2016

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0041	T10170/A/1	Dial Gauge Adapter
B	A0667	T40265	Oil Pump Tensioner Locking Tool
C	A0666	T40196	Drifts For Camshaft Slide
D	A0675	T40266	Camshaft Adjuster Holding/Turning Tool
E	A0668	T10368	Crankshaft Pulley Bolt Spacer
F	A0660	T10352/1	Camshaft Adjuster Control Valve Removal Tool
G	A0751	T10352/2	Camshaft Adjuster Control Valve Removal Tool
H	A0002	T40011	Tensioner Locking Tool
I	A0662	T40271/1/2	Camshaft Locking Tool
I	A0663	T40271/1/2	Camshaft Locking Tool
J	A0665	T10355	Crankshaft Pulley Holding Tool
K	A0409	VAS 6079	Dial Gauge
L	A0664	T40267	Tensioner Locking Tool

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 2.3L – 6.0L DOHC V5, V6, W8, W12 petrol engine applications
- For the locking and alignment of the camshafts, crankshaft and fuel pump during the removal and installation of the engine timing chain and other engine servicing and repairs



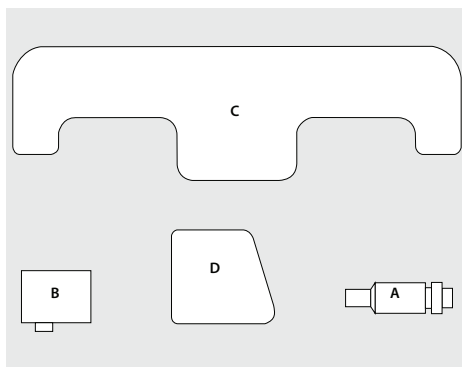
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304756	Audi		
	A3 (8P)	3.2L	2004 - 2009
	Q7 (4L)	3.6L (BHK)	2006 - 2010
	TT	3.2L	2004 - 2010
	Porsche		
	Cayenne	3.6L (M55)	2007 - 2014
	Volkswagen		
	Bora (V5, V6)	2.3L - 2.8L	1999 - 2006
	Caravelle (V)	2.8L (AMV)	2002 - 2005
	Golf (IV)	2.8L - 3.2L	2001 - 2004
	Golf (V)	3.2L (BUB)	2006 - 2010
	Multivan (V)	3.2L (BKK)	2005 - 2008
	Passat (3B)	4.0L (BDN)	2002 - 2004
	Transporter (V)	3.2L (BKK)	2005 - 2008

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0639	3242	Crankshaft TDC Locking Screw
B	A0732	T10332	High-Pressure Fuel Pump Sprocket Locking Tool
C	A0733	T10068 A	Camshaft Alignment Tool
D	A0734	T10363	High-Pressure Fuel Pump Sprocket Locking Tool

TOOL REFERENCE



CAMSHAFT ALIGNMENT TOOL KIT

- Suits 3.0L V6, DOHC 30V petrol engines
- For the locking and alignment of the camshafts, crankshaft and tensioner during engine servicing and repairs



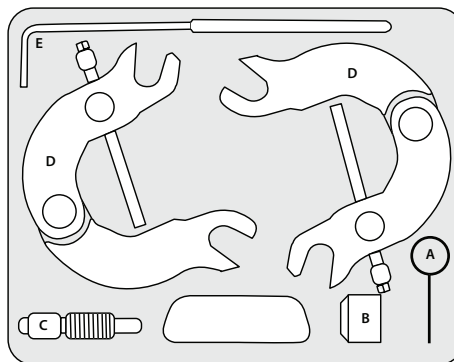
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304036	Audi		
	A4 (V6)	3.0L (ASN)	2001 - 2004
	A4 (V6)	3.0L (BBJ)	2001 - 2005
	A6 (V6)	3.0L (ASN)	2001 - 2004
	A6 (V6)	3.0L (BBJ)	2002 - 2005

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0001	T40011	Tensioner Locking Pin
B	A0152	T40028	Camshaft Sprocket Adjusting Tool
C	A0173	T40026	Crankshaft Locking Tool
D	A0289	T40030	Camshaft Locking Tools
E	A0318	3387	Tensioner Pulley Adjusting Tool

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for popular VAG 1.0L, 1.2L and 1.4L petrol engine applications
- For the locking and alignment of the camshafts and crankshaft during the removal and installation of the engine timing belt and other engine servicing and repairs



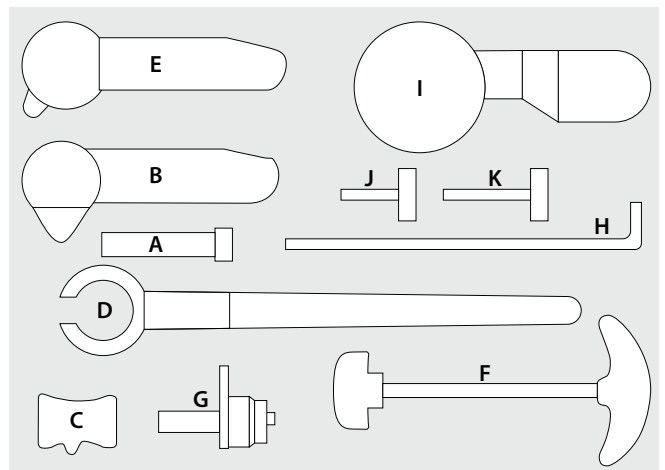
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304757	Audi		
	A1	1.2L - 1.4L	2012 - 2018
	A3	1.4L (DOHC)	2013 - 2016
	Q3	1.4L (CHP, CZE)	2014 - 2018
	Skoda		
	Fabia	1.2L	2010 - 2018
	Octavia	1.4L (CHP)	2013 - 2015
	Yeti	1.2L (CBZB)	2011 - 2018
	Volkswagen		
	Caddy	1.2L (CBZ)	2010 - 2015
	Golf (VI)	1.2L (SOHC)	2010 - 2015
	Golf (VII)	1.4L (DOHC)	2013 - 2018
	Polo (6R)	1.2L	2010 - 2018
	UP!	1.0L (CHY)	2012 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0631	T10340	Crankshaft Locking Bolt
B	A0691	T10477	Camshaft Setting Plate
C	A0692	T10476	Camshaft Sprocket Locking Tool
D	A0693	T10499	Tensioner Adjusting Wrench
E	A0694	T10494	Camshaft Setting Plate
F	A0695	T10487	Assembly Tool
G	A0669	T10414	Camshaft Alignment Tool
H	A0197	T10264	Tensioner Pulley Adjusting Tool
I	A0696	T10504	Camshaft Timing Tool
J	A0697	T10504/1	Camshaft Timing Tool Locking Pin
K	A0698	T10504/2	Camshaft Timing Check Pin

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular VAG 1.6L and 2.0L DOHC 16V diesel engine applications
- For the locking and alignment of the camshafts, crankshaft and fuel pump during the removal and installation of the engine timing belt and other engine servicing and repairs



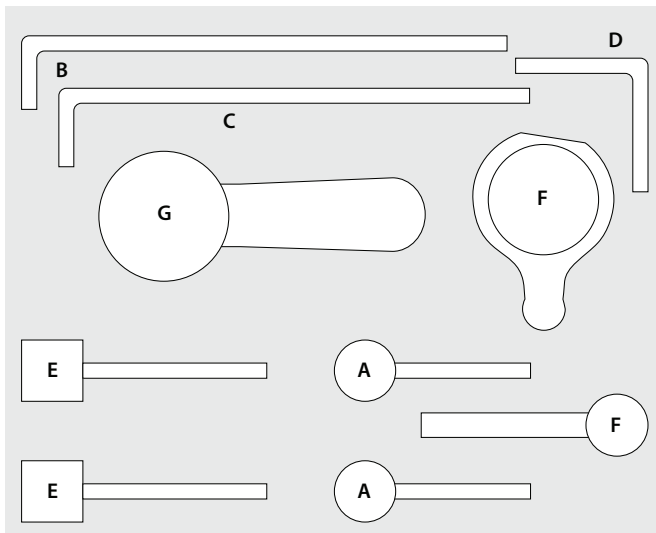
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304765	Audi		
	A3 (8V)	1.6L (CLH)	2013 - 2014
	A3 (8V)	2.0L (CRBC)	2013 - 2016
	A3 (8V)	2.0L (CRLB)	2013 - 2016
	A4 (8K)	2.0L (CNH)	2014 - 2016
	Skoda		
	Octavia (NE)	1.6L (CLH)	2013 - 2018
	Octavia (NE)	2.0L (CKF)	2013 - 2018
	Octavia (NE)	2.0L (CUN)	2014 - 2018
	Octavia (NE)	2.0L (CUP)	2013 - 2018
	Volkswagen		
	Golf (VII)	1.6L (CLH)	2013 - 2018
Golf (VII)	2.0L (CRBC)	2013 - 2018	

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0022	3359	Camshaft Locking Tools
B	A0197	T10264, T10409	Tensioner Pulley Adjusting Tool
C	A0198	T10265, T40098	Auxiliary Drive Belt Tensioner Locking Pin
D	A0210	T10060A	Auxiliary Drive Belt Tensioner Locking Pin
E	A0207	T10492	Injection Pump Timing Pins
F	A0704	T10490	Crankshaft Sprocket Locking Tool
G	A0705	T10051	High-Pressure Fuel Pump Sprocket Holding Tool

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for popular 2.5L – 5.2L DOHC 5, V6, V8, V10 petrol engine applications
- For the locking and alignment of the camshafts, crankshaft and fuel pump during the removal and installation of the engine timing chain and other engine servicing and repairs



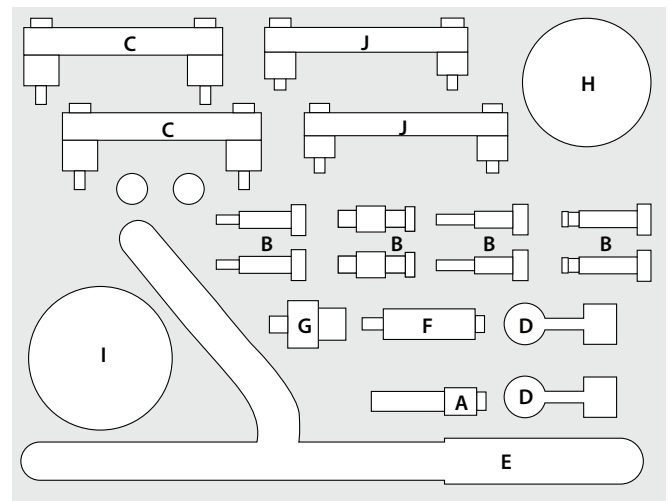
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304767	Audi		
	A4 (B7)	3.1L (AUK)	2005 - 2009
	A4 (B8)	3.2L (CALA)	2008 - 2012
	A5 (8T)	3.2L (CALA)	2007 - 2012
	A6 (C6)	2.8L - 3.1L	2005 - 2011
	A8 (D3)	4.2L	2005 - 2013
	Q5 (8R)	3.2L (CALB)	2009 - 2012
	Q7 (4L)	4.2L (BAR)	2006 - 2010
	R8 (4.2 FSI Quattro)	4.2L (BYH)	2007 - 2018
	R8	5.2L	2009 - 2018
	RS Q3 (8U)	2.5L (CTSA)	2014 - 2015
	RS4 (B7)	4.2L (BNS)	2006 - 2008
	RS5 (8F)	4.2L (CFS)	2010 - 2018
	TT RS (8J)	2.5L (CEPA)	2009 - 2013

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0172	T40069	Crankshaft Locking Pin
B	A0454	T10172/2	Camshaft Sprocket Holding Tool Pins
C	A0455	T40070	Camshaft Locking Tools
D	A0456	T40071	Timing Chain Tensioner Locking Pins
E	A0618	T10172	Camshaft Sprocket Holding Tool
F	A0639	3242	Crankshaft TDC Locking Screw
G	A0640	T40058	Crankshaft Pulley Bolt Adaptor
H	A0641	T40049	Crankshaft Turning Tool
I	A0741	T40079	Camshaft Adjuster Holding Tool
J	A0742	T40133	Camshaft Locking Tools

TOOL REFERENCE



CAMSHAFT LOCKING KIT

- Suitable for popular 2.5L (N52) & 3.0L (N54 & N55) DOHC 24V engine applications with timing chains
- For the locking and alignment of the camshaft and crankshaft during the removal and installation of the engine timing chain and other engine servicing and repairs
- Required for dismantling, assembly and timing of the Vanos unit



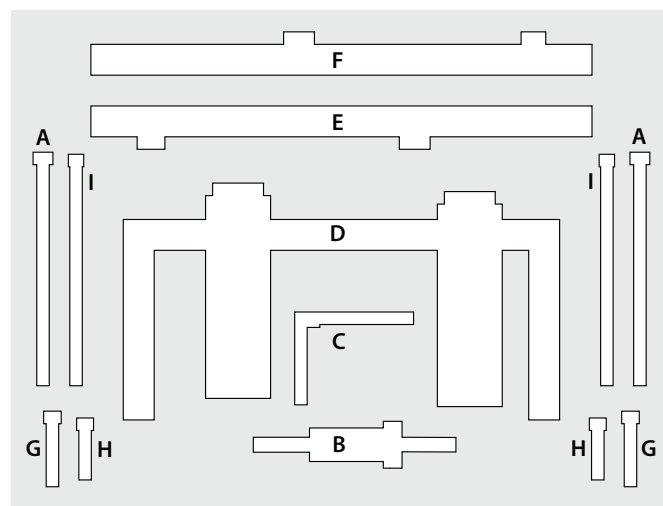
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304700	BMW		
	1 Series (E82 - E88)	3.0L (N52, N54)	2005 - 2015
	3 Series (E90 - E93)	2.5L (N52B25)	2005 - 2014
	3 Series (E90 - E93)	3.0L (N52, N54, N55)	2005 - 2018
	435i (F32, F36)	3.0L (N55B30A)	2013 - 2016
	5 Series (E60 - E61)	2.5L, 3.0L (N52)	2004 - 2011
	5 Series (F07 - F11)	3.0L (N52, N55)	2010 - 2018
	M135i, M235i	3.0L (N55B30A)	2012 - 2018
	X1, X3, X5	3.0L (N52B30)	2006 - 2012
	X4, X5, X6	3.0L (N54, N55)	2008 - 2018
	Z4 (E85, E89)	2.5L, 3.0L (N52, N54)	2006 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0054	Bolts	Camshaft Alignment Tool Bolts
B	A0170	11 9 340	Timing Chain Pre-Tensioning Tool
C	A0232	11 0 300	Flywheel Timing Pin
D	A0266	11 4 281, 11 4 282, 11 4 283	Camshaft Alignment Tool
E	A0399	11 4 290	Camshaft Position (CMP) Sensor Disc Setting Tool
F	A0634	11 8 520	Camshaft Position (CMP) Sensor Disc Setting Tool
G		Bolts	Camshaft Alignment Tool Bolts
H		Bolts	Camshaft Alignment Tool Bolts
I		Bolts	Camshaft Alignment Tool Bolts

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for engine codes M42, M43, M44, M50, M52 & M54
- For the locking and alignment of the camshaft and crankshaft during the removal and installation of the engine timing chain and other engine servicing and repairs
- Required for dismantling, assembly and timing of the Vanos unit



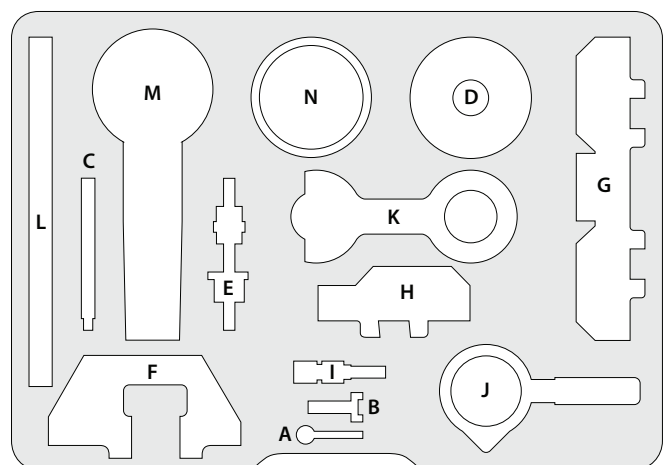
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304701	BMW		
	3 Series (E36)	1.6L - 2.8L (M42, M43, M44, M50, M52)	1991 - 2001
	3 Series (E46)	1.9L - 3.0L (M43, M44, M52, M54)	1998 - 2007
	5 Series (E34)	2.0L, 2.5L (M50)	1990 - 1996
	5 Series (E39)	2.2L - 3.0L (M52, M54)	1996 - 2003
	5 Series (E60)	2.5L - 3.0L (M52, M54)	2003 - 2005
	7 Series (E38)	2.8L (M52B28)	1995 - 2001
	7 Series (E65)	3.0L (N52B30)	2002 - 2005

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0003	11 3 290, 11 3 292	Tensioner Locking Tool
B	A0009	11 3 310	Secondary Tensioner Locking Tool
C	A0042	11 2 300	Crankshaft Locking Pin
D	A0161	11 8 210	Crankshaft Pulley Hub Puller
E	A0167	11 3 390, 11 4 220	Timing Chain Pre-Tensioning Tool
F	A0267	11 3 190	Camshaft Alignment Tool
G	A0275	11 3 240, 11 3 244	Camshaft Alignment Tool
H	A0280	11 9 110	Camshaft Locking Fixture Add-On
I	A0334	11 3 450	Vanos Unit Checking Tool
J	A0337	11 5 490	Exhaust Camshaft Sprocket Tool
K	A0400	11 6 180	Camshaft Sprockets Alignment Tool
L	A0426	11 6 150	Camshaft Timing Setting Tool
M	A0603	11 8 190	Vibration Damper Holder
N	A0604	11 8 200	Vibration Damper Puller Head

TOOL REFERENCE



TIMING & ALIGNMENT TOOL KIT

- Suitable for popular 1.8L and 2.0L DOHC 16V N42 and N46 petrol engine applications
- For the locking and alignment of the camshaft and crankshaft during the removal and installation of the engine timing chain and other engine servicing and repairs
- Required for dismantling, assembly and timing of the Vanos unit



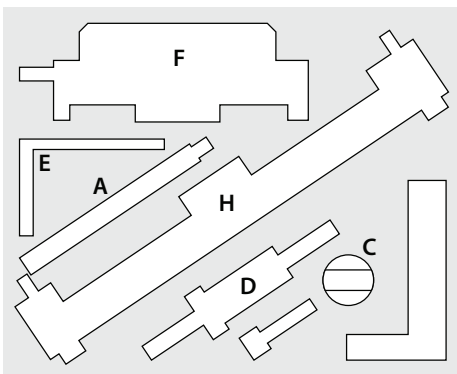
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304702	BMW		
	1 Series (E87)	2.0L (N46B20)	2004 - 2011
	3 Series (E46)	1.8L (N42B18)	2001 - 2005
	3 Series (E46)	2.0L (N42B20)	2001 - 2005
	3 Series (E46)	2.0L (N46B20)	2001 - 2005
	3 Series (E90)	2.0L (N42B20)	2005 - 2007
	3 Series (E90 - E93)	2.0L (N46B20)	2005 - 2012

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0042	11 5 120	Crankshaft Locking Pin
B	A0115	11 9 293	Camshaft Alignment Tool Bolt (M8 X 25mm)
C	A0150	11 9 270	Inlet Camshaft Turning Tool
D	A0170	11 9 340	Timing Chain Pre-Tensioning Tool
E	A0214	11 5 120, 11 9 190	Flywheel Timing Pin
F	A0281	11 9 291	Camshaft Alignment Tool - Exhaust
G	A0354	11 9 292	Camshaft Alignment Tool - Inlet
H	A0424	11 9 350	Sensor Gear Alignment Tool

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 2.0L (N47 & N57) DOHC 16V diesel engine applications
- For the locking and alignment of the camshafts, crankshaft, tensioner and injection pump during the removal and installation



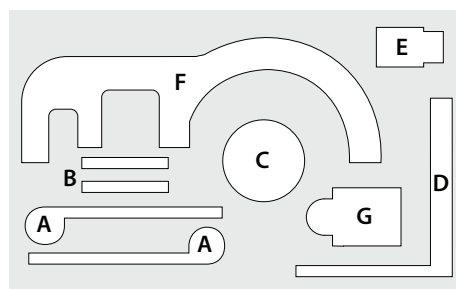
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304719	BMW		
	118d, 120d, 123d	2.0L (N47)	2007 - 2015
	220d (F22)	2.0L (B47, N47)	2014 - 2018
	318d, 320d	2.0L (N47D)	2007 - 2017
	330d	3.0L (N57D30)	2009 - 2018
	420d	2.0L (N47D20C)	2013 - 2016
	520d	2.0L (N47)	2007 - 2018
	530d, 535d	3.0L (N57D30)	2009 - 2017
	640d, 730d	3.0L (N57D30)	2009 - 2018
	X1, X3, X5	2.0L (N47D20)	2007 - 2015
	X3, X4, X5, X6	3.0L (N57D30)	2010 - 2018
	MINI		
	Cooper (D)	1.6L, 2.0L (N47)	2010 - 2018
Countryman (D)	1.6L, 2.0L (N47)	2011 - 2018	

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0004	11 3 340	Chain Tensioner Lock Pin
B	A0053	11 3 340	Timing Chain Tensioner Locking Pin
C	A0457	11 6 480	Crankshaft Alignment Tool
D	A0458	11 5 320	Flywheel/Drive Plate Timing Pin
E	A0459	11 6 480	Socket
F	A0460	11 8 760	Camshaft Alignment Tool
G	A0612	11 8 740	High-Pressure Fuel Pump Sprocket Removal Tool

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for popular 2.0L (N43B20) DOHC 16V engine applications with timing chains.
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs
- Required for dismantling, assembly and timing of the Vanos unit



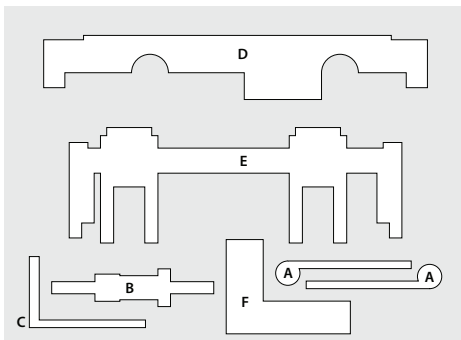
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304740	BMW		
	118i (E87)	2.0L (N43B20)	2008 - 2010
	120i (E82)	2.0L (N43B20)	2011 - 2014
	120i (E87)	2.0L (N43B20)	2007 - 2011
	120i (E88)	2.0L (N43B20)	2007 - 2015

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0004	11 3 340	Chain Tensioner Lock Pin
B	A0170	11 9 340	Timing Chain Pre-Tensioning Tool
C	A0214	11 5 120	Flywheel Timing Pin
D	A0527	11 8 711, 11 8 712	Camshaft Position (CMP) Sensor Disc Setting Tool
E	A0528	11 8 690, 11 8 691, 11 8 962, 11 8 693	Camshaft Alignment Tool
F	A0529	11 8 700	Balancer Shaft Alignment Tool

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for popular BMW and Mini 1.6L DOHC 16V (N13 / N18) petrol engine applications
- For the locking and alignment of the camshafts and crankshaft during the removal and installation of the engine timing chain and other engine servicing and repairs



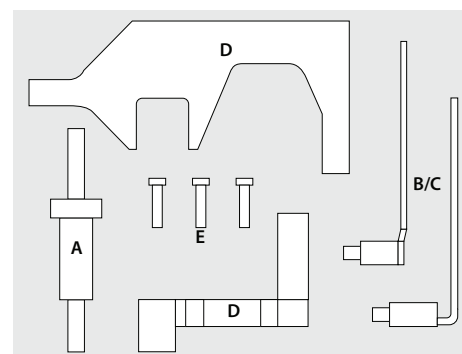
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304758	BMW		
	116i, 118i, 120i (F20)	1.6L (N13)	2011 - 2018
	316i (F30)	1.6L (N13B)	2013 - 2018
	MINI		
	Cooper (JCW, S)	1.6L (N18B16A)	2012 - 2018
	Countryman (JCW, S)	1.6L (N18B16A)	2011 - 2017

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0170	11 9 340	Timing Chain Pre-Tensioning Tool
B	A0208	11 9 590, 0 496 709	Crankshaft Timing Pin
C	A0699	2 299 362	Crankshaft Timing Pin
D	A0700	11 7 440	Camshaft Alignment Tool
E			Bolts

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 3.6L – 4.8L (V8) DOHC 32V and 6.0L (V12) DOHC 48V petrol engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs



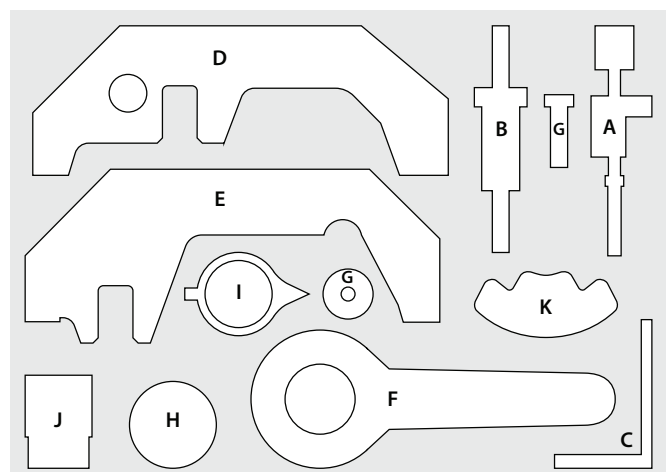
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304724	BMW		
	540i (E60)	4.0L (N62B40)	2005 - 2008
	545i (E60)	4.4L (N62B44)	2003 - 2006
	550i (E60, E61)	4.8L (N62B48)	2005 - 2010
	645Ci (E63, E64)	4.4L (N62B44)	2004 - 2005
	650i (E63, E64)	4.8L (N62B48)	2005 - 2012
	735i, Li (E65, E66)	3.6L (N62B36)	2002 - 2005
	740i, Li (E65, E66)	4.0L (N62B40)	2005 - 2009
	745i, Li (E65, E66)	4.4L (N62B44)	2002 - 2005
	750i, Li (E65, E66)	4.8L (N62B48)	2005 - 2009

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0165	11 9 463	Camshaft Locking Tool
B	A0170	11 9 340, 11 9 341	Timing Chain Pre-Tensioning Tool
C	A0214	11 9 190	Flywheel Timing Pin
D	A0264	11 9 461	Inlet Camshaft Alignment Tool
E	A0265	11 9 462	Exhaust Camshaft Alignment Tool
F	A0605	11 9 451	Crankshaft Locking Tool
G	A0606	11 9 452	Crankshaft Locking Tool
H	A0635		Head Cylinder Socket
I	A0636		Angle Indicator
J	A0637		Socket (27mm)
K	A0638		Angle Gauge

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for popular 2.0L (M47) DOHC 16V and 3.0L (M57) DOHC 24V diesel engine applications
- For the locking and alignment of the camshafts, crankshaft, tensioner and injection pump during the removal and installation of the engine timing chain and other engine servicing and repairs



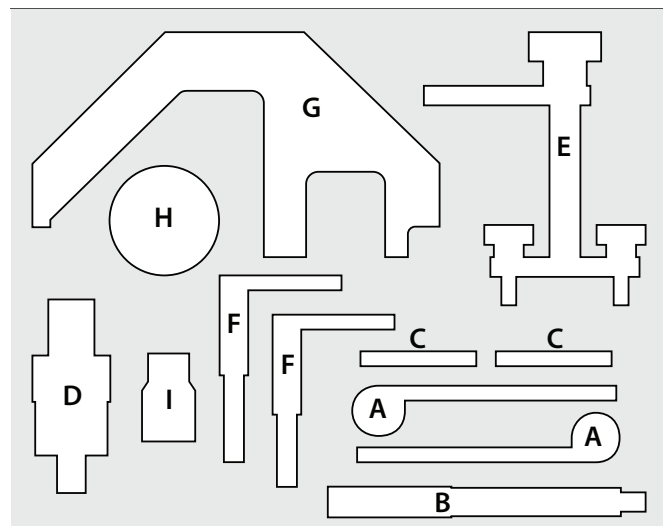
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304741	BMW		
	120d (E87)	2.0L (M47TUD20)	2006 - 2007
	320d (E46, E90 - E91)	2.0L (M47D20)	1999 - 2008
	330d (E46, E90 - E91)	3.0L (M57D30)	2000 - 2008
	335d (E90 - E92)	3.0L (M57D30)	2007 - 2010
	525d (E60, E61)	3.0L (M57D30)	2007 - 2010
	530d (E39)	3.0L (M57D30)	2000 - 2003
	530d (E60)	3.0L (M57D30)	2008 - 2010
	530d (E60, E61)	3.0L (M57TUD30)	2003 - 2008
	535d (E60, E61)	3.0L (M57D30)	2004 - 2010
	X3 (E83)	2.0L (M47TUD20)	2005 - 2007
	X3 (E83)	3.0L (M57TUD30)	2005 - 2011
	X5 (E53)	3.0L (M57D30)	2001 - 2003
	X5 (E70)	3.0L (M57TU2D30)	2004 - 2010
	X6 (E71)	3.0L (M57TU2D30)	2008 - 2010

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0004	11 3 340	Chain Tensioner Lock Pin
B	A0042	11 2 300	Crankshaft Locking Pin
C	A0053	11 3 340	Timing Chain Tensioner Locking Pin
D	A0154	13 5 190, 13 5 191	High-Pressure Fuel Pump Sprocket Puller
E	A0177	11 6 320, 11 6 321	Camshaft Alignment Tool
F	A0212	11 5 180, 11 6 080	Camshaft Locking Pin
G	A0269	11 6 321, 11 6 322	Camshaft Alignment Tool
H	A0457	11 6 480	Crankshaft Alignment Tool
I	A0459	11 6 480	Socket

TOOL REFERENCE



CAMSHAFT LOCKING KIT

- Suitable for popular 2.0L (N20B20) DOHC 16V petrol engine applications with timing chains
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs



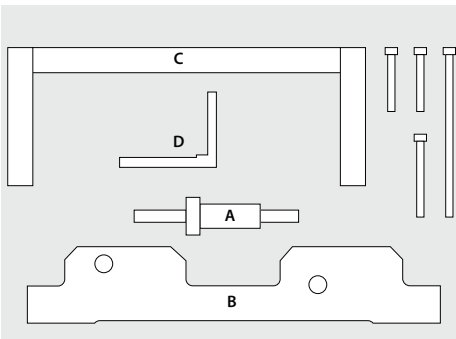
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304759	BMW		
	125i (F20)	2.0L (N20B20A)	2012 - 2015
	220i, 228i (F22, F23)	2.0L (N20B20A)	2014 - 2018
	320i, 328i (F30, F31, F34)	2.0L (N20B20)	2012 - 2018
	420i, 428i (F32, F33, F36)	2.0L (N20B20B)	2013 - 2016
	520i (F10, F11)	2.0L (N20B20B)	2011 - 2017
	X1, X3, X4	2.0L (N20B20A)	2011 - 2018
	Z4 (E89)	2.0L (N20B20)	2011 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0170	11 9 340	Timing Chain Pre-Tensioning Tool
B	A0701	2 212 830	Sensor Gear Alignment Tool
C	A0702	2 212 831	Camshaft Alignment Tool
D	A0703	2 219 548	Flywheel/Drive Plate Timing Pin

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular BMW & MINI 1.2L, 1.5L (B38) & 2.0L (B48) engine applications
- For the locking of the camshafts and crankshaft during the removal and installation of the engine timing chain and other engine servicing and repairs



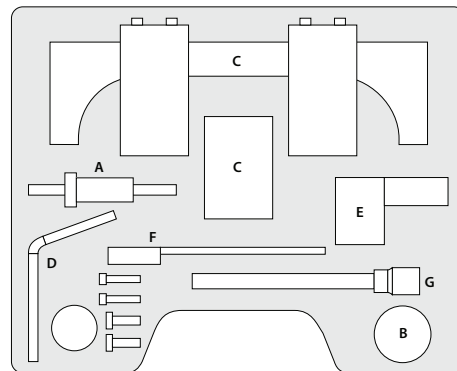
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304763	BMW		
	218i (F45)	1.5L (B38A15M)	2014 - 2018
	i8 (I12)	1.5L (B38K15A)	2014 - 2018
	MINI		
	Cooper	1.5L (B38A15M)	2014 - 2018
	Cooper S	2.0L (B48A20A)	2014 - 2018
	One	1.2L (B38A12U)	2014 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0170	11 9 340	Timing Chain Pre-Tensioning Tool
B	A0457	11 6 480	Crankshaft Alignment Tool
C	A0739	2 358 122	Camshaft Alignment Tool
D	A0740	2 288 380	Flywheel/Drive Plate Timing Pin
E	A0750	2 365 488	Drive Plate Timing Pin Adapter
F	A0759	2 360 895	Pin Wrench
G	A0760	11 8 580	Socket Wrench T60

TOOL REFERENCE



FLYWHEEL LOCKING TOOL

- Suitable for popular late model BMW applications
- For the locking the flywheel (crankshaft) during the removal and installation of the engine timing belt or other engine servicing and repairs



APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304774	BMW		
	1 Series (E87)	1.6L (N45B16)	2005 - 2008
	1 Series (E87)	2.0L (M47, N46)	2004 - 2012
	1 Series (E82, E87)	3.0L (N52, N54)	2008 - 2012
	3 Series (E46, E90 - E93)	2.0L (N46)	2001 - 2012
	3 Series (E46, E90 - E93)	2.5L (N52)	2006 - 2012
	3 Series (E90 - E93)	3.0L (N52, N54)	2005 - 2012
	5 Series (E60)	2.5L (N52)	2005 - 2010
	5 Series (E60, E61, F10)	3.0L (M57, N52)	2003 - 2012
	7 Series (E65, F01 - F02)	3.0L (N52, N54)	2002 - 2012
	X1 (E84)	3.0L (N52B30)	2010 - 2012
	X3 (E83)	2.0L (M47TUD20)	2005 - 2007
	X3 (E83, F25)	2.5L, 3.0L (M57, N52B, N53B)	2005 - 2012
	X5 (E70)	3.0L (M57, N52)	2007 - 2010
	X6 (E71)	3.0L (N54B30)	2008 - 2012
	Z4 (E85, E89)	2.5L, 3.0L (N52B, N54B)	2006 - 2012

FLYWHEEL LOCKING TOOL

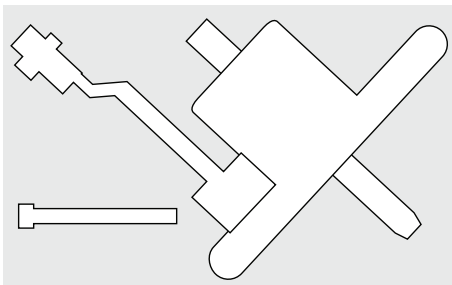
- Suitable for popular late model BMW applications including, 1 to 6 Series models, as well various X Series applications 2007 – on
- For the locking the flywheel (crankshaft) during the removal and installation of the engine timing belt, chain and other engine servicing and repairs
- OEM reference No. 11 9 260



APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304785	BMW		
	118d, 120d, 123d	2.0L (N47)	2007 - 2015
	318d, 320d	2.0L (N47)	2008 - 2015
	330d	3.0L (N57D30)	2009 - 2018
	420d, 520 d	2.0L (N47)	2007 - 2018
	X1, X3, X5	2.0L (N47)	2007 - 2015
	X3	2.0L (B47D40A)	2011 - 2018
	X3, X4, X5, X6	3.0L (N57)	2010 - 2018

TOOL REFERENCE



TIMING TOOLS

CHRYSLER/DODGE

Also suitable: Part No. 304749

TIMING TOOL KIT



- Suitable for Chrysler Grand Voyager (RT) & Dodge Nitro (KA) 2.8L diesel engine applications
- For full kit contents refer to page 157



CITROËN

Also suitable: Part No. 304704

TIMING TOOL KIT



- Suitable for popular Citroën 1.4L – 2.2L petrol and 1.5L – 2.2L diesel engine applications
- For full kit contents refer to page 171



Also suitable: Part No. 304718

TIMING TOOL KIT



- Suitable for popular Citroën C3, C4 and DS3, 1.4L – 1.6L (DOHC) petrol engine applications
- For full kit contents refer to page 173



Also suitable: Part No. 304721

TIMING TOOL KIT



- Suitable for popular Citroën C4, C5, Dispatch & Xsara 2.0L & 2.2L diesel engine applications
- For full kit contents refer to page 172



Also suitable: Part No. 304726

TIMING TOOL KIT



- Suitable for popular Citroën Berlingo, C2, C3 and C4 petrol engine applications
- For full kit contents refer to page 173



FIAT

Also suitable: Part No. 304705

TIMING & ALIGNMENT TOOL MASTER KIT



- Suitable for popular Fiat 500, Punto, Ritmo applications
- For full kit contents refer to page 123



Also suitable: Part No. 304712

TIMING TOOL MASTER KIT



- Suitable for popular Fiat Bravo, Doblo, Freemont & Ritma diesel engine applications
- For full kit contents refer to page 154



Also suitable: Part No. 304720

TIMING TOOL KIT



- Suitable for popular Fiat Bravo, Doblo, Freemont, Multipla, Punto & Ritma diesel engine applications
- For full kit contents refer to page 122



Scan here for link to part finder

TIMING TOOL KIT



- Suitable for popular 1.4L – 2.5L DOHC petrol and 1.6L – 2.0L diesel engine applications
- For the locking of the camshaft, crankshaft and tensioners during the removal and installation of the engine timing belt or chain along with other engine servicing and repairs



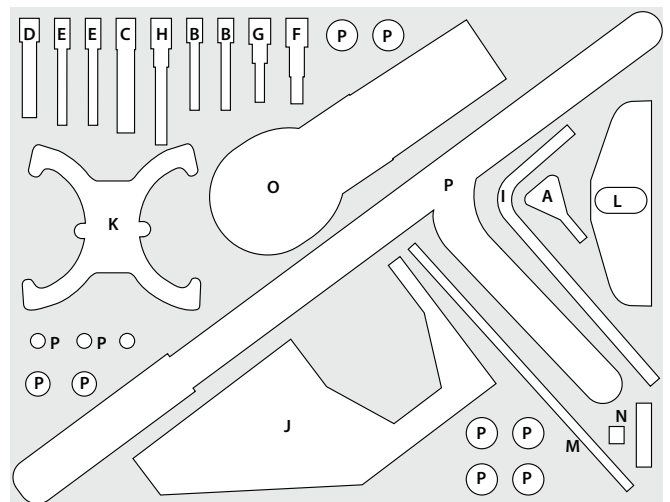
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304706	Ford		
	Escape (ZB - ZD)	2.3L (L3)	2004 - 2012
	Escape (WS - WZ)	1.4L - 2.0L	2004 - 2014
	Focus (LR - LW)	1.6L - 2.0L	2000 - 2015
	Kuga (TF)	2.0L (TXMA)	2013 - 2016
	Mondeo (MA - MD)	2.0L, 2.3L	2007 - 2018
	Ranger (PX)	2.5L (DPAT)	2011 - 2015
	Mazda		
	CX-7 (ER)	2.3L, 2.5L	2006 - 2012
	Mazda 3 (BK - BL)	2.0L - 2.5L	2004 - 2014
	Mazda 6 (GG - GY)	2.0L - 2.5L	2002 - 2012
	MX5	2.0L (MZR)	2005 - 2015
	Tribute	2.0L, 2.3L	2001 - 2008

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0011	303-1054	Chain Tensioner Locking Pin
B	A0081		Locking Pin
C	A0089	21-262, 303-734, 999 7121	Crankshaft Locking Pin
D	A0092	21-263, 303-735, 999 7122	Camshaft Locking Pin
E	A0107	07744-0010400, 21-2160, 303-732, 999 7169, 999 7233	Camshaft Timing Pins
F	A0121	303-748	Crankshaft Alignment Pin
G	A0122	21-210, 303-507, 49 JE01 061	Camshaft Timing Pin
H	A0124	21-163, 303-620	Crankshaft Timing Pin
I	A0216	303-1059, 999 7121	Flywheel Timing Pin
J	A0257	303-1061, 49 UN30 310610	Camshaft Alignment Tool
K	A0361	303-1097	Camshaft Sprocket Locking Tool
L	A0406	303-393, 999 7119	Flywheel Locking Tool
M	A0418	21-162, 303-376, 49 JE01 054	Camshaft Setting Bar
N	A0435	303-393-01, 303-393-02, 999 7120	Flywheel Locking Tool Adaptors
O	A0608	49 B011 105	Crankshaft Pulley Holding Tool
P	A0618		Universal Sprocket Holding Tool

TOOL REFERENCE



TIMING TOOL KIT



- Suitable for popular 1.4L – 2.5L DOHC petrol and 1.6L – 3.2L diesel engine applications
- For the locking of the camshaft, crankshaft and tensioners during the removal and installation of the engine timing belt or chain along with other engine servicing and repairs



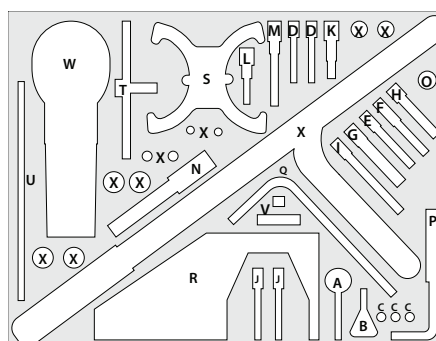
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304708	Ford		
	Ecosport (BK)	1.5L (1.5)	2013 - 2017
	Escape (ZB - ZD)	2.3L (L3)	2004 - 2012
	Fiesta (WP - WZ)	1.5L - 2.0L	2004 - 2014
	Fiesta (WS - WT)	1.6L (Diesel)	2009 - 2013
	Focus (LR)	1.6L, 1.8L	2000 - 2005
	Focus (LR - LV)	2.0L	2000 - 2011
	Focus (LT - LV)	2.0L (D4204T)	2007 - 2011
	Focus (LW)	2.0L - 1.6L	2011 - 2015
	Kuga (TF)	2.0L (TXMA)	2013 - 2016
	Mondeo (HA - HE)	2.0L	1995 - 2000
	Mondeo (MA - MC)	2.3L	2007 - 2015
	Mondeo (MA - MD)	2.0L Diesel	2007 - 2018
	Ranger (PJ, PK)	2.5L (WL-AT)	2007 - 2011
	Ranger (PJ, PK)	3.0L (WE-AT)	2007 - 2011
	Ranger (PX)	2.2L (P4AT)	2011 - 2016
	Ranger (PX)	3.2L (P5AT)	2015 - 2018
	Transit (Diesel)	2.4L, 2.5L	1994 - 2012
	Mazda		
	BT50 (UN)	2.5L (WL-AT)	2006 - 2011
	BT50 (UN)	3.0L (WEAT)	2006 - 2011
	BT50 (UP, UR)	2.2L (P4AT)	2011 - 2016
	BT50 (UP, UR)	3.2L (P5AT)	2011 - 2018
	CX-7 (ER)	2.3L (MZR DISI / L3)	2006 - 2012
	CX-7 (ER)	2.5L (L5)	2009 - 2012
	Mazda 3 (BK - BL)	2.0L - 2.3L	2004 - 2014
	Mazda 3 (BL)	2.5L (L5)	2009 - 2014
	Mazda 6 (GG - GY)	2.3L (MZR/L3)	2002 - 2008
	Mazda 6 (GH)	2.5L (L5)	2008 - 2012
	MX5 (NC)	2.0L (MZR)	2005 - 2015
	Tribute (YU)	2.0L (YF)	2000 - 2004
	Tribute	2.3L (L3)	2004 - 2008

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0001		Tensioner Locking Pin
B	A0011	303-1054	Chain Tensioner Locking Pin
C	A0049		Locking Pins
D	A0081		Injection Pump Locking Pin
E	A0083	21-263, 303-735, 999 7122	Camshaft Locking Pin
F	A0084	21-263, 303-735, 999 7122	Camshaft Locking Pin
G	A0089	21-262, 303-734, 999 7121	Crankshaft Locking Pin
H	A0092	21-263, 303-735, 999 7122	Camshaft Locking Pin
I	A0103		Locking Pin
J	A0107	07744-0010400, 21-260, 303-732, 999 7169, 999 7233	Camshaft Timing Pins
K	A0121	303-748	Flywheel Locking Tool Adaptors
L	A0122	21-210, 303-507, 49 JE01 061	Crankshaft Timing Pin
M	A0124	21-163, 303-620	Crankshaft Timing Pin
N	A0132		Locking Pin
O	A0147		
P	A0193	21-234, 21-251, 303-675, 303-698	Flywheel Locking Pin
Q	A0216	303-1059, 999 7121	Flywheel Timing Pin
R	A0257	303-1061, 49 UN30 310610	Camshaft Alignment Tool
S	A0361	303-1097	Camshaft Sprocket Locking Tool
T	A0406	303-393, 999 7119	Flywheel Locking Tool
U	A0418	21-162, 303-376, 49 JE01 054	Camshaft Setting Bar
V	A0435	303-393-01, 303-393-02, 999 7120	Flywheel Locking Tool Adaptors
W	A0608	49 B011 105	Crankshaft Pulley Holding Tool
X	A0618		Flywheel Locking Tool Adaptors

TOOL REFERENCE



TIMING CHAIN KIT  Petrol

- Suitable for popular Falcon 6 cylinder applications
- For use during the removal and installation of the timing chain, cylinder head and other engine servicing and repairs



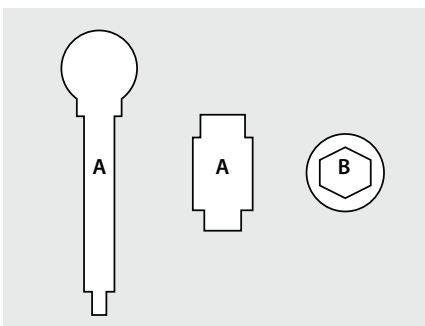
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304707	Ford		
	Fairlane (NA - AU)	3.9L, 4.0L	1988 - 2002
	Falcon (EA - AU)	3.2L, 3.9L, 4.0L	1988 - 2002
	LTD (DA - AU)	3.9L, 4.0L	1988 - 2002

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0027	E9338, E9338A	Tensioner Locking Tools
B	A0615		Timing Chain Adjusting Tool

TOOL REFERENCE



TIMING TOOL KIT  Diesel

- Suitable for popular 1.6L DOHC 16V TDCi diesel engine applications
- For the locking of the camshafts and crankshaft during the removal and installation of engine timing belt



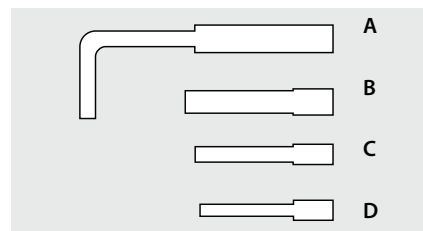
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304729	Ford		
	Fiesta (WS)	1.6L (TDCi)	2009 - 2010
	Fiesta (WT)	1.6L (TDCi)	2010 - 2012
	Volvo		
	C30	1.6L (Diesel)	2009 - 2012

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0193	21-234, 21-251, 303-675, 303-698	Flywheel Locking Pin
B	A0083	21-263, 303-735, 999 7122	Camshaft Locking Pin
C	A0089	21-262, 303-734, 999 7121	Crankshaft Locking Pin
D	A0108	07744-0010400, 21-2160, 303-732, 999 7169, 999 7233	Camshaft Timing Pin

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 1.8L – 2.5L DOHC 16V petrol engine applications
- For the locking of the camshaft and crankshaft during the removal and installation of the engine timing belt or chain

NOTE: Not suitable for Turbo engine applications



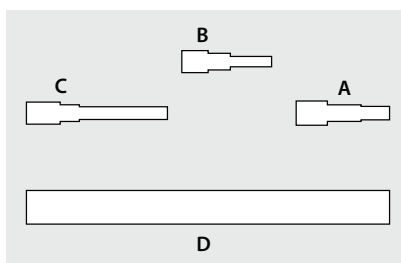
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304730	Ford		
	Fiesta (WP - WQ)	1.6L - 2.0L	2004 - 2009
	Focus (LR - LV)	1.6L - 2.0L	2000 - 2011
	Mondeo (MA - MC)	2.3L	2007 - 2015
	Mazda		
	CX-7 (ER)	2.5L (L5)	2009 - 2012
	Mazda 3 (BK - BL)	2.0L, 2.5L	2004 - 2014
	Mazda 6 (GG - GY)	2.0L, 2.3L, 2.5L	2002 - 2012
	Tribute (YU)	2.0L (YF)	2001 - 2004
	Tribute	2.3L (L3)	2004 - 2008

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0121	21-259, 303-748, 49 JE02 061	Crankshaft Locking Pin
B	A0122	21-210, 303-507, 49 JE01 061	Crankshaft Locking Pin
C	A0124	21-163, 303-620	Crankshaft Timing Pin
D	A0418	21-162, 303-376, 49 JE01 054	Camshaft Setting Bar

TOOL REFERENCE



CAMSHAFT LOCKING KIT

- Suitable for popular Explorer 4.6L V8 SOHC 16V petrol engine applications
- For the locking and alignment of camshafts during engine servicing and repairs



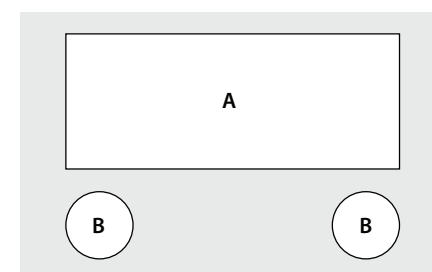
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304736	Ford		
	Explorer (UT)	4.6L (V8)	2001 - 2003
	Explorer (UX)	4.6L (V8)	2003 - 2003
	Explorer (UZ)	4.6L (V8)	2003 - 2008

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0518	303-380 (T91P-6256-A)	Camshaft Alignment Tool
B	A0519	303-413 (T92P-6256-A)	Camshaft Alignment Tool - Adaptor

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for popular 4, 5 and 6 cylinder DOHC petrol engine applications
- For the locking of camshafts during the removal and installation of the engine timing belt and other engine servicing and repairs

Note: Applications may require additional tools to complete repairs



APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304737	Ford		
	Focus XR5 Turbo (LS - LV)	2.5L (B5254T)	2006 - 2012
	Kuga (TE)	2.5L (Duratec)	2012 - 2013
	Mondeo XR5 Turbo (MA - MB)	2.5L (B5254T)	2007 - 2014
	Volvo		
	850, 850(T)	2.3L, 2.4L (B52)	1992 - 1997
	960	2.9L (B630)	1991 - 1997
	C30, C30(T)	2.4L, 2.5L (B52)	2007 - 2013
	C70, C70(T)	2.3L - 2.5L (B52)	1999 - 2015
	S40, S40(T)	1.9L - 2.5L (B41, B42, B52)	1997 - 2013
	S60, S60(T)	2.0L - 2.5L (B52)	2000 - 2009
	S70, S70(T)	2.3L, 2.4L (B52)	1997 - 2003
	S80, S80(T)	2.0L - 2.9L (B52, B62, B63)	1998 - 2006
	V40, V40(T)	1.8L, 2.0L (B41, B42)	1997 - 2004
	V50, V50(T)	2.4L, 2.5L (B52)	2004 - 2015
	V70, V70(T)	2.0L - 2.5L (B52)	1997 - 2008
	XC70, XC70(T)	2.3L - 2.5L (B52)	2000 - 2007
	XC90, XC90(T)	2.5L - 2.9L (B52, B62)	2003 - 2006

BELT INSTALLATION KIT  

- Suitable for popular 1.9L – 2.5L DOHC petrol and 2.5L DOHC diesel engine applications
- For locking the crankshaft during engine repairs, servicing and timing belt replacement

Note: Applications may require additional tools to complete repairs



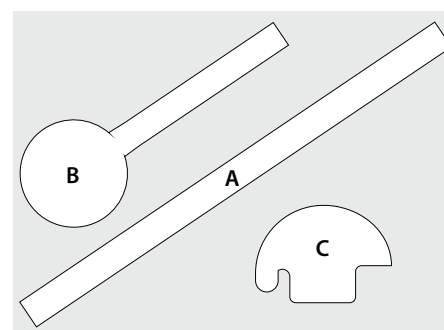
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304738	Ford		
	Focus XR5 Turbo (LS - LV)	2.5L (B5254T)	2006 - 2012
	Kuga (TE)	2.5L (Duratec)	2012 - 2013
	Mondeo XR5 Turbo (MA - MB)	2.5L (B5254T)	2007 - 2014
	Volvo		
	850	2.5L (B5252S)	1993 - 1996
	C30, S70, V70	2.0L - 2.5L (B52, D52)	1997 - 2015
	S40, V40	1.8L - 2.5L (B41, B42, B52)	1997 - 2018
	S60, S60	2.0L - 2.5L (B52, D52)	2000 - 2018
	V50	2.4L, 2.5L (B52, D52)	2004 - 2015
	S80, S80(T)	2.0L - 2.8L (B52, B62 D52)	1998 - 2010
	XC60, XC70, XC90	2.0L - 2.5L (B52, D52)	2000 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0645	999 7109	Auxiliary Drive Belt Tensioner Tool
B	A0646	999 5433	Crankshaft Pulley Holding Tool
C	A0647	303-1179	Auxiliary Drive Belt Installer

TOOL REFERENCE



TIMING TOOL KIT

- Ford Falcon, Focus & Mondeo 2.0L DOHC 16V Ecoboost petrol engines
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs



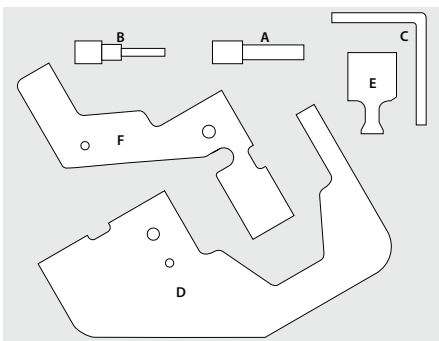
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304753	Ford		
	Falcon (FG)	2.0L (Ecoboost)	2012 - 2016
	Focus (LW - LZ)	2.0L (Ecoboost)	2011 - 2018
	Mondeo (MC - MD)	2.0L (Ecoboost)	2011 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0121	303-748	Crankshaft Timing Pin
B	A0122	303-507	Crankshaft Timing Pin
C	A0717	303-1054	Tensioner Pin 3mm
D	A0718	303-1504	Camshaft Alignment Plate
E	A0719	303-1521	Crankshaft Alignment Pin
F	A0720	303-1565	Camshaft Alignment Tool

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 1.5L – 2.5L DOHC 16V (including turbo) petrol engine applications.
- For the locking of the camshafts and crankshaft during the removal and installation of the engine timing belt or chain



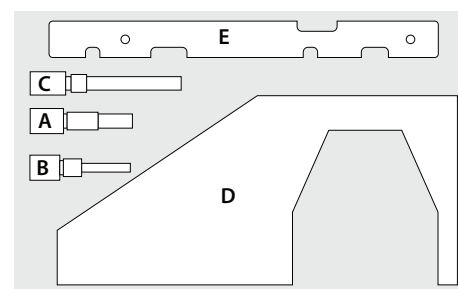
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304754	Ford		
	Escape (ZB - ZD)	2.3L (L3)	2004 - 2012
	Fiesta (WP, WQ)	1.6L - 2.0L	2004 - 2008
	Focus (LR - LV)	1.6L - 2.0L	2000 - 2011
	Mondeo (MA - MC)	2.3L	2007 - 2015
	Ranger (PX)	2.5L (DPAT)	2011 - 2015
	Mazda		
	CX-3	2.0L	2015 - 2018
	CX-5, CX-7	2.0L - 2.5L	2006 - 2018
	Mazda2 (DE - DJ)	1.5L	2010 - 2017
	Mazda3 (BK - BM)	2.0L, 2.3L, 2.5L	2004 - 2017
	Mazda6 (GG - GJ)	2.0L, 2.3L, 2.5L	2002 - 2017
	Tribute	2.0L - 2.3L	2000 - 2008

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0121	21-259, 303-748, 49 JE02 061	Crankshaft Locking Pin
B	A0122	21-210, 303-507, 49 JE01 061	Crankshaft Locking Pin
C	A0124	21-163, 303-620	Crankshaft Timing Pin
D	A0257	303-1061, 49 UN30 310610	Camshaft Alignment Tool
E	A0418	21-162, 303-376, 49 JE01 054	Camshaft Setting Bar

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for popular Ford and FPV, Falcon and Territory 4.0L (6 Cyl incl Turbo) and 5.4L V8 DOHC 32V (BOSS 260 - 315) petrol engine applications only
- For the locking of the camshafts and crankshaft during the removal and installation of the engine timing chain and other engine servicing and repairs

Note: Kit not suitable for Barra 5.4L V8 (24V) engine applications



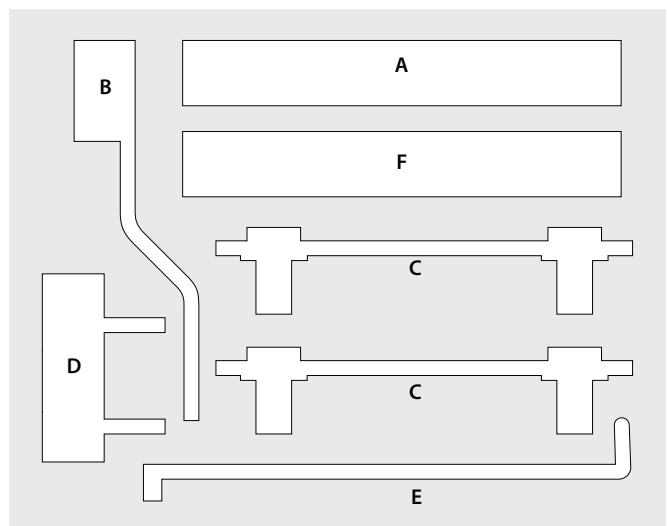
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304755	Ford		
	Falcon (BA - FG)	4.0L (BARRA 182, 190, 195)	2002 - 2016
	Falcon (BA - FG) Turbo	4.0L (BARRA 240T, 270T)	2002 - 2016
	Falcon (BA - FG)	5.4L (BOSS 260, 290)	2003 - 2011
	Territory (SX - SZ)	4.0L (BARRA 182, 190, 195)	2004 - 2016
	Territory (SY) Turbo	4.0L (BARRA 245T)	2006 - 2010
	FPV		
	Falcon (BA - FG)	5.4L (BOSS 290, 302, 315)	2003 - 2010
	Falcon (BF) Turbo	4.0L (BARRA 240T, 270T)	2005 - 2008
	Territory (SY) Turbo	4.0L (BARRA 270T)	2008 - 2009

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0649	303-446 (T93P-6256-AHR)	Camshaft Holding Tool (8 Cyl)
B	A0650	303-448 (T93P-6303-A)	Crankshaft Alignment Tool
C	A0651	303-445 (T93P-6256-A)	Camshaft Alignment Tool
D	A0652	303-447 (T93P-6256-BH)	Timing Belt Tensioner
E	A0676	303-777	Timing Chain Tensioner Release Tool
F	A0677	303-778	Camshaft Holding Tool (6 Cyl)

TOOL REFERENCE



Also suitable: Part No. 304739

TIMING TOOL KIT



- Suitable for popular Falcon 5.4L V8 DOHC 32V (BOSS 260 and BOSS 290) petrol engine applications only



TIMING TOOL KIT

- Suitable for popular Ford Volvo 1.3L - 1.6L DOHC 16V petrol engine models
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs



TIMING TOOL KIT

- Suitable for popular Ford Ranger and Transit, Landrover Defender and Mazda BT50 2.2L and 2.4L (4cyl) and 3.2L (5cyl) turbo diesel engine applications
- For the locking of the camshafts and crankshaft during the removal and installation of the engine timing chain and other engine servicing and repairs



APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304762	Ford		
	Ecosport (BK)	1.5L	2013 - 2017
	Fiesta (WS - WZ)	1.6L	2009 - 2014
	Fiesta (WZ)	1.5L	2013 - 2014
	Focus (LW)	1.6L	2011 - 2015
	KA	1.3L	2002 - 2008
	Kuga (TF)	1.6L	2013 - 2015
	Volvo		
	S60, V60 (T4)	1.6L (B4164T)	2011 - 2017

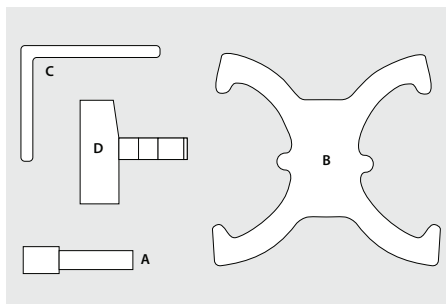
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304769	Ford		
	Ranger (PX)	2.2L (P4AT)	2011 - 2018
	Ranger (PX)	3.2L (P5AT)	2014 - 2018
	Transit (VH)	2.4L	2001 - 2006
	Transit (VM)	2.2L (Duratorq)	2006 - 2012
	Transit (VM)	2.4L	2006 - 2012
	Transit (VN)	2.2L (2.2DT)	2013 - 2018
	Land Rover		
	Defender (90, 110, 130)	2.2L (DT244)	2012 - 2018
	Defender (90, 110, 130)	2.4L (244DT)	2007 - 2012
	Mazda		
	BT50 (UP)	2.2L (P4AT)	2011 - 2015
BT50 (UP)	3.2L (P5AT)	2011 - 2015	
BT50 (UR)	2.2L (P4AT)	2015 - 2018	
BT50 (UR)	3.2L (P5AT)	2015 - 2018	

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0121	303-748, 999 7406	Camshaft Alignment Pin
B	A0361	303-1097, 999 7429	Camshaft Sprocket Locking Tool
C	A0717	303-1054	Chain Tensioner Locking Pin
D	A0722	303-1550, 999 7431	Crankshaft Pulley Alignment Tool

TOOL REFERENCE



TIMING TOOL & SEAL INSTALLATION KIT

- Suitable for popular Ford Ranger and Transit, Landrover Defender and Mazda BT50 2.2L and 2.4L (4cyl) and 3.2L (5cyl) turbo diesel engine applications
- For the locking of the camshafts and crankshaft during the removal and installation of the engine timing chain, crankshaft oil seal replacement and other engine servicing and repairs



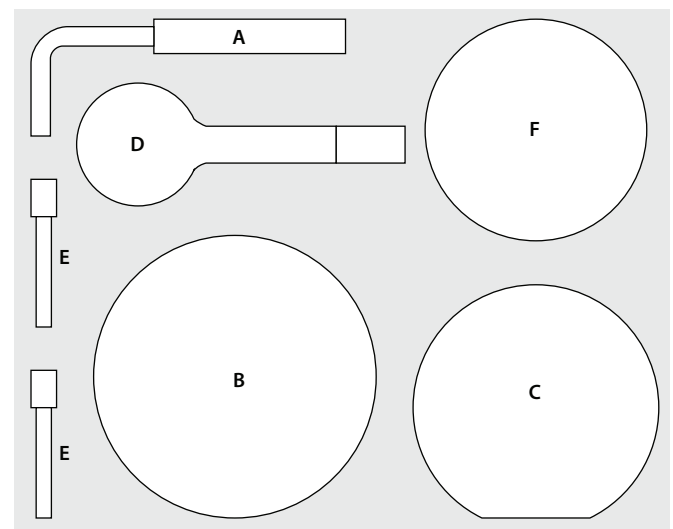
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304764	Ford		
	Ranger (PX)	2.2L (P4AT)	2011 - 2018
	Ranger (PX)	3.2L (P5AT)	2014 - 2018
	Transit (VH)	2.4L	2001 - 2006
	Transit (VM)	2.2L (Duratorq)	2006 - 2012
	Transit (VM)	2.4L	2006 - 2012
	Transit (VN)	2.2L (2.2DT)	2013 - 2018
	Land Rover		
	Defender (90, 110, 130)	2.2L (DT244)	2012 - 2018
	Defender (90, 110, 130)	2.4L (244DT)	2007 - 2012
	Mazda		
	BT50 (UP)	2.2L (P4AT)	2011 - 2015
	BT50 (UP)	3.2L (P5AT)	2011 - 2015
	BT50 (UR)	2.2L (P4AT)	2015 - 2018
BT50 (UR)	3.2L (P5AT)	2015 - 2018	

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0192	303-675 303-698 22-251	Flywheel Locking Pin
B	A0383	303-1151	Fuel Injection Pump Locking Tool
C	A0384	303-679A	Crankshaft Oil Seal Removal/Installation Tool
D	A0753	303-1587	Crankshaft Sprocket Locking Tool
E	A0754	6mm x 2	2 x Camshaft Timing Pins (6mm)
F	A0755	303-682	Timing Cover Aligning Tool

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular Ford Territory 2.7L TDI diesel engine applications
- For locking and alignment of the camshafts, crankshaft and tensioner during removal and installation of the engine timing belt and other engine servicing and repairs



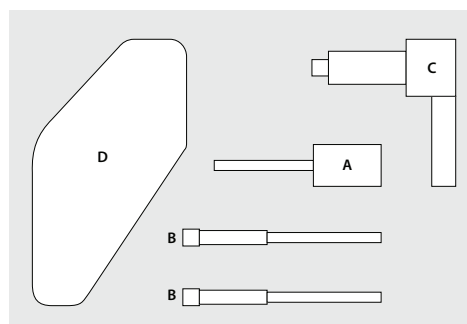
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304786	Ford		
	Territory (SZ)	2.7L (276DT)	2011 - 2016

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0100	303-1132	Camshaft Sprocket Aligning Tool
B	A0101	303-1126	Camshaft Sprocket Alignment Pin
C	A0756	303-1585	Flywheel Locking Tool
D	A0757	303-1586	Flywheel Locking Tool

TOOL REFERENCE



Also suitable: Part No. 304739

TIMING TOOL KIT



- Suitable for popular FPV 5.4L V8 DOHC 32V (BOSS 260 - 315) engines



Also suitable: Part No. 304755

TIMING TOOL KIT



- Suitable for popular Ford and FPV, Falcon and Territory 4.0L (6 Cyl incl Turbo) and 5.4L V8 DOHC 32V (BOSS 260 - 315)
- For full kit contents refer to page 149



TIMING TOOL KIT 

- Suitable for 1.8L Z18XER & F18D DOHC 16V petrol applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt and other engine servicing and repairs



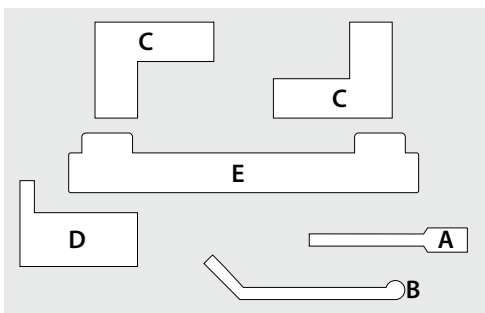
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304710	Holden		
	Astra (AH)	1.8L (Z18XER)	2007 - 2010
	Barina (TM)	1.6L (F16D4)	2011 - 2018
	Cruze (JG - JH)	1.8L (F18D4)	2009 - 2018
	Cruze (JH)	1.6L (A16LET)	2013 - 2018
	Opel		
	Astra (1.6i)	1.6L (A16LET)	2012 - 2013
Corsa (OPC)	1.6L (A16LET)	2013 - 2013	

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0113	KM-6349	Auxiliary Drive Belt Tensioner Locking Tool
B	A0217	KM-6333	Cam Belt Tension Lock Pin
C	A0379	KM-6340	Camshaft Lock Tool
D	A0610	KM-6625	Flywheel Locking Tool
E	304710A	KM-6628(A)	Camshaft Setting Bar

TOOL REFERENCE



Also suitable: Part No. 304710A CAMSHAFT SETTING BAR



- Suitable for Holden Astra (AH) 1.8L Z18XER DOHC 16V petrol application
- Used in addition with 304710, 304710A to reset camshafts only



TIMING TOOL KIT 

- Suitable for popular 2.2L (Z22SE / Z22YH) DOHC 16V petrol engine applications
- For the locking and alignment of the camshaft, crankshaft, tensioner and water pump during the removal and installation of the engine timing chain and other engine servicing and repairs



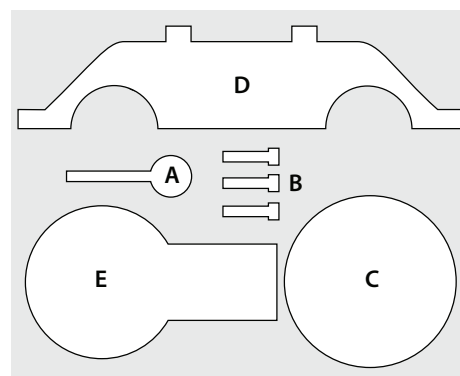
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304711	Holden		
	Astra (TS)	2.2L (Z22SE)	2001 - 2007
	Astra (AH)	2.2L (Z22YH)	2006 - 2010
	Vectra (ZC)	2.2L (Z22SE)	2003 - 2006
	Zafira (TT)	2.2L (Z22SE)	2001 - 2006

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0001	KM-6077	Tensioner Locking Pin
B	A0064		Bolts
C	A0385	KM-J-43651	Water Pump Holding Tool
D	A0397	KM-6148	Camshaft Locking Tool
E	A0613	KM-956-1, KM-J-38122-A	Crankshaft Pulley Holder

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 1.2L – 2.2L petrol and 1.9L diesel engine applications
- For the locking and alignment of the camshafts, crankshaft, tensioner and water pump during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



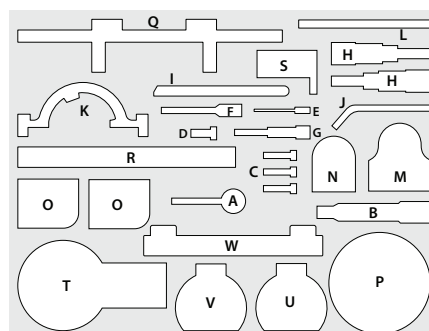
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304712	Alfa Romeo		
	147, 159	1.9L (Diesel)	2006 - 2012
	159 (JTD)	2.4L (Diesel)	2006 - 2012
	Giulietta	2.0L (Diesel)	2012 - 2015
	Fiat		
	Bravo, Ritma	1.9L (Diesel)	2007 - 2009
	Doblo, Freemont	2.0L (Diesel)	2013 - 2018
	Holden		
	Astra (TS - AH)	1.8L (X18, Z18)	1998 - 2010
	Astra (TS - AH) Turbo	2.0L (Z20LER,T)	2003 - 2010
	Astra (TS - AH)	2.2L (Z22)	2001 - 2010
	Astra (AH) Diesel	1.9L (Z19DT)	2006 - 2010
	Barina, Combo (SB)	1.2L, 1.4L (C12, C14)	1994 - 2002
	Barina, Combo (XC)	1.4L - 1.8L (Z14, Z16, Z18)	2001 - 2013
	Barina (TM)	1.6L (F16D4)	2011 - 2018
	Cruze (JG - JH)	1.8L (F18D4)	2009 - 2018
	Cruze (JH)	1.6L (A16LET)	2013 - 2018
	Tigra (XC)	1.8L (Z18XE)	2005 - 2007
	Vectra (JR - JS)	2.0L, 2.2L (C20, C22SEL)	1998 - 2006
	Zafira (TT)	2.2L (Z22SE)	2001 - 2006
	HSV		
	VXR (AH)	2.0L (Z20LEH)	2006 - 2009
	Opel		
	Astra (1.6i)	1.6L (A16LET)	2012 - 2013
	Corsa (OPC)	1.6L (A16LET)	2013 - 2013
	Zafira (TGF75)	1.8L (X18XE)	2001 - 2004
	Saab		
	9-3 (1.9 TiD)	1.9L (Z19DTR)	2007 - 2012
	9-5 (1.9 TiD)	1.9L (Z19DTH)	2008 - 2009
	9-5 (2.0 TiD)	2.0L (A20DTH)	2011 - 2012

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0001	KM-6077	Tensioner Locking Pin
B	A0038	KM-952	Crankshaft Locking Pin
C	A0064		Bolts
D	A0067		Bolt
E	A0106	KM-955-1	Timing Chain Tensioner Locking Pin
F	A0113	KM-6130, KM-6349	Auxiliary Drive Belt Tensioner Locking Tool
G	A0175	EN-46788	Crankshaft Locking Tool And Bolt
H	A0184	1.870.986.900, EN-46789	Camshaft Locking Tools
I	A0196	KM-911	Flywheel Locking Tool
J	A0217	KM-6333	Cam Belt Tension Lock Pin
K	A0283	KM-954	Camshaft Position (CMP) Sensor Disc Setting Tool
L	A0333	1.860.905.000, 1.860.905.010	Crankshaft Alignment Tool
M	A0370	KM-853	Camshaft Locking Tool
N	A0371	KM-852	Camshaft Locking Tool
O	A0379	KM-6340	Camshaft Locking Tool
P	A0385	KM-J-43651	Water Pump Holding Tool
Q	A0397	KM-6148	Camshaft Locking Tool
R	A0418	21-162, 303-376, 49 JE01 054	Camshaft Setting Bar
S	A0610	KM-6625	Flywheel Locking Tool
T	A0613	KM-956-1, KM-J-38122-A	Crankshaft Pulley Holder
U	A0616	KM-421-A, KM-6283	Water Pump Wrench (41mm)
V	A0617	KM-421-B, KM-6283	Water Pump Wrench (46mm)
W	304710A	KM-6628(A)	Camshaft Setting Bar

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for popular 2.5L – 3.2L DOHC 24V petrol engine applications
- For the locking and alignment of the camshafts and crankshaft during the removal and installation of the engine timing belt and other engine servicing and repairs



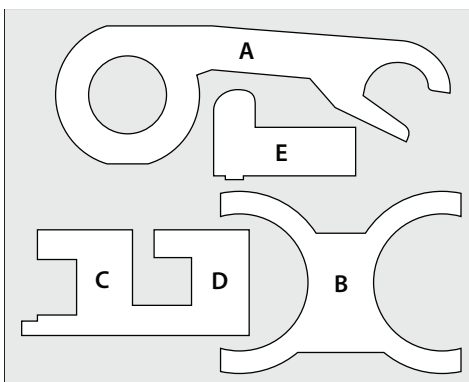
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304713	Holden		
	Calibra	2.5L (C25XE)	1995 - 1998
	Vectra (JR - JS)	2.5L (X25XE)	1997 - 2000
	Vectra (JS)	2.6L (Y26SE)	2000 - 2001
	Vectra (ZC)	3.2L (Z32SE)	2003 - 2006

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0308	KM-800-10	Crankshaft Locking Tool
B	A0359	KM-800-20	Camshaft Timing Gauge
C	A0366	KM-800-1	Camshaft Lock Tool (RED)
D	A0367	KM-800-2	Camshaft Lock Tool (GREEN)
E	A0434	KM-800-30	Belt Holding Tool

TOOL REFERENCE



Also suitable: Part No. 304712A
WATER PUMP WRENCH



- 41mm
- Suitable for Barina TK 1.6L applications



TIMING TOOL KIT 

- Suitable for 2.0L (Z20S1) SOHC 16V turbo diesel models
- For the locking of the camshaft and crankshaft during the removal and installation of the engine timing belt



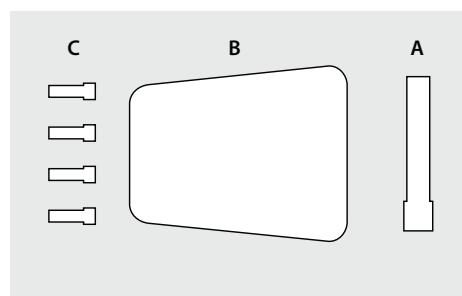
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304723	Holden		
	Captiva (CG)	2.0L (Z20S1)	2007 - 2011
	Cruze (JG)	2.0L (Z20S1)	2009 - 2011
	Epica (EP)	2.0L (Z20S1)	2008 - 2011

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0089	EN-48246	Crankshaft Locking Pin
B	A0633	EN-48245	Camshaft Locking Tool
C			Bolts

TOOL REFERENCE



Also suitable: Part No. 304712B
WATER PUMP WRENCH



- 46 mm
- Suitable for popular Holden 4 cylinder applications



TIMING TOOL KIT

- Suitable for 3.6L (V6) DOHC 24V petrol engine applications
- For the locking of the camshafts during engine servicing and repairs

NOTE: Not suitable for SIDI engine applications



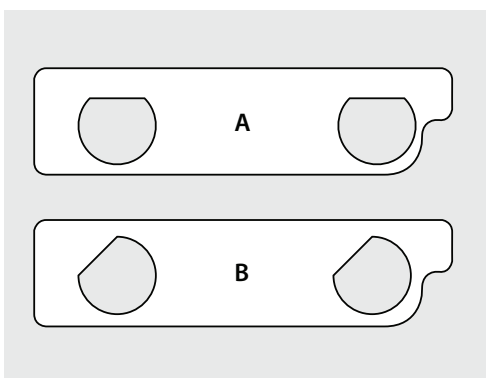
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304732	Holden		
	Captiva (CG)	3.2L (LU1)	2006 - 2011
	Commodore (VZ)	3.6L (LE0, LY7)	2004 - 2006
	Commodore (VE)	3.6L (LE0, LY7)	2006 - 2009
	Rodeo (RA)	3.6L	2005 - 2008
	Statesman (WL)	3.6L (LY7)	2004 - 2006
	Statesman (WM)	3.6L (LY7)	2006 - 2009

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0624	EN-46105-1	Camshaft Alignment Tool 1 (RH Cam)
B	A0625	EN-46105-2	Camshaft Alignment Tool 2 (LH Cam)

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 1.4L, 1.8L, 2.0L and 2.2L DOHC 16V petrol applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt and other engine servicing and repairs



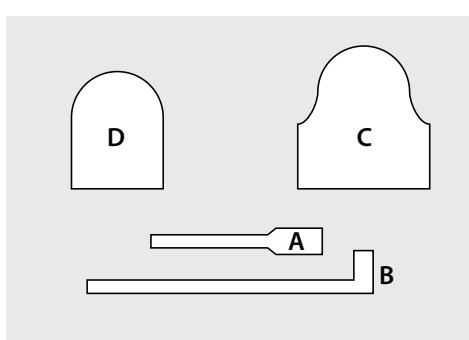
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304742	Holden		
	Astra (TS)	1.8L (X18XE)	1998 - 2000
	Astra (TS)	1.8L (Z18XE)	2001 - 2004
	Astra (TS Ser. II)	2.0L (Z20LET)	2003 - 2004
	Astra (AH)	1.8L (Z18XE)	2004 - 2007
	Astra (AH)	2.0L (Z20LER)	2006 - 2010
	Barina (XC)	1.4L (Z14XE)	2001 - 2004
	Barina (XC)	1.8L (Z18XE)	2001 - 2005
	Tigra (XC)	1.8L (Z18XE)	2005 - 2007
	Vectra (JR, JS)	2.0L (C20SEL)	1997 - 2000
	Vectra (JS)	2.2L (C22SEL)	1998 - 2002

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0113	KM-6130	Auxiliary Drive Belt Tensioner Locking Tool
B	A0196	KM-911	Flywheel Locking Tool
C	A0370	KM-853	Camshaft Locking Tool
D	A0371	KM-852	Camshaft Locking Tool

TOOL REFERENCE



TIMING TOOL KIT



- Suitable for 2.8L, 3.0L and 3.6L (V6) DOHC 24V SIDI petrol engine applications only
- For the locking of the camshafts during engine servicing and repairs



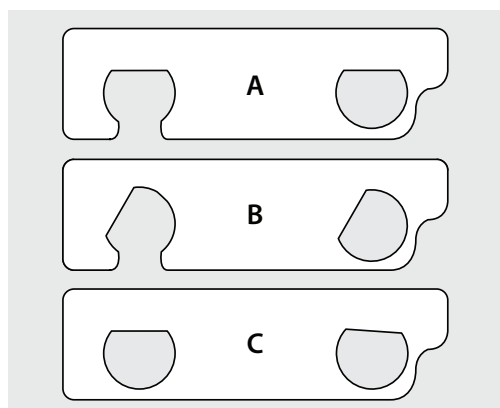
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304743	Holden		
	Captiva (CG)	3.0L (LF1/LFW)	2011 - 2018
	Colorado (RC)	3.6L (H9)	2008 - 2012
	Commodore (VE - VF)	3.0L (SIDI LF)	2009 - 2017
	Commodore (VE - VF)	3.6L	2009 - 2017
	Insignia (GA)	2.8L (A28NER)	2015 - 2018
	Opel		
	Insignia (OPC)	2.8L (A28NER)	2013 - 2013
	SAAB		
	9-3 (Aero)	2.8L (B284)	2006 - 2010

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0654	EN-48383-1	Camshaft Alignment Tool 1 (LH Cam, Stage 1)
B	A0655	EN-48383-2	Camshaft Alignment Tool 2 (LH Cam, Stage 2)
C	A0656	EN-48383-3	Camshaft Alignment Tool 3 (RH Cam, Stage 2)

TOOL REFERENCE



TIMING TOOL KIT



- Suitable for popular Holden and Jeep 2.8L CRD Turbo Diesel engine applications
- Contains camshaft locking tools used in both early LWH (132kW) and later LWN (147kW) Colorado applications
- For the locking and alignment of the camshafts and crankshaft during the removal and installation of the engine timing belt and other engine servicing and repairs



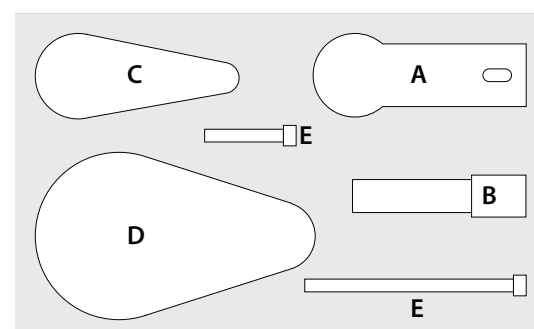
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304749	Chrysler		
	Grand Voyager (RT)	2.8L (R428)	2008 - 2018
	Dodge		
	Nitro (KA)	2.8L (ENO)	2007 - 2010
	Holden		
	Colorado (RG)	2.4L (LVN)	2012 - 2018
	Colorado (RG - 132kW)	2.8L (LWH)	2012 - 2013
	Colorado (RG - 147kW)	2.8L (LWN)	2013 - 2018
	Jeep		
	Cherokee (KK)	2.8L (ENO/ENS)	2008 - 2013
	Wrangler (JK)	2.8L (ENS)	2007 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0658	EN-50029, VM.9991	Exhaust Camshaft Locking Tool
B	A0659	EN-50030, VM.9992	Crankshaft Locking Tool
C	A0661	EN-51025	Exhaust Camshaft Locking Tool
D	A0690	EN-51104	Fuel Pump Sprocket Locking Tool
E			Bolts

TOOL REFERENCE



TIMING TOOLS

HOLDEN

TIMING TOOL KIT

- Suitable for popular GM 1.4L DOHC 16V (A14) petrol engine models
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs



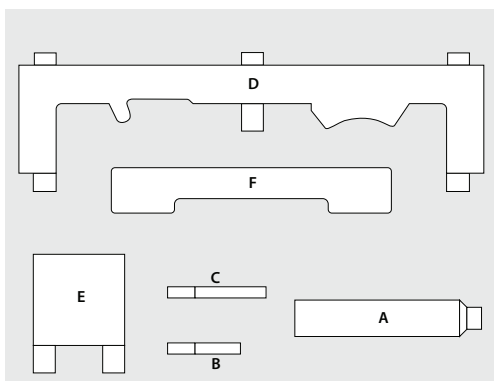
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304752	Holden		
	Barina (TM)	1.4L (A14NET)	2013 - 2014
	Cruze (JH)	1.4L (A14NET)	2011 - 2015
	Trax (TJ)	1.4L (A14NET)	2014 - 2018
	Volt (EV)	1.4L (LUU)	2012 - 2018
	Opel		
	Astra	1.4L (A14NET)	2012 - 2013
Corsa	1.4L (A14XER)	2012 - 2013	

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0038	EN-952, KM-952	Crankshaft Locking Pin
B	A0106	EN-955-10, KM-955-2	Timing Chain Tensioner Locking Pin 4.0mm
C	A0108	KM-955-1	Timing Chain Tensioner Locking Pin 2.5mm
D	A0681	EN-49977-100	Camshaft Sensor Disc Setting Tool
E	A0682	EN-49977-200	Inlet Camshaft Adjuster Tool
F	A0715	EN-953-A, KM-953-A	Camshaft Lock Tool

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular GM 2.0L (20NFT) and 2.4L (LE5/LE9) DOHC 16V turbo petrol engine models
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs



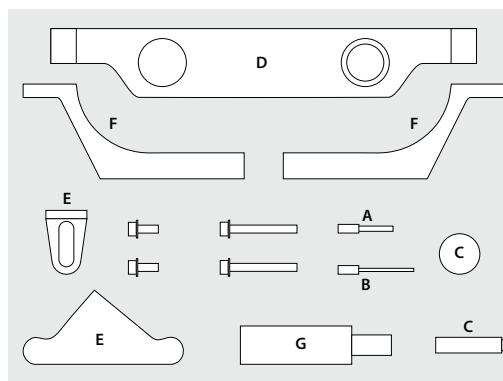
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304760	Holden		
	Astra (PJ)	2.0L (A20NFT)	2015 - 2018
	Captiva (CG)	2.4L (LE5/LE9)	2011 - 2018
	Malibu (EM)	2.4L (LE9)	2013 - 2017
	OPEL		
	Astra (OPC)	2.0L (A20NFT)	2012 - 2013
	Insignia (2.0i)	2.0L (A20NFT)	2012 - 2013
	SAAB		
	9-5 (2.0T)	2.0L (A20NFT)	2011 - 2012

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0106	EN-955-20	Timing Chain Tensioner Locking Pin 4.0mm
B	A0108	EN-955-10	Timing Chain Tensioner Locking Pin 2.5mm
C	A0623	EN-45027	Tensioner Plunger Resetting Tool
D	A0706	EN-48953	Camshaft Adjuster Holding Tool
E	A0707	EN-43653	Flywheel/Drive Plate Holding Tool
F	A0728	EN-49212-1/2	Camshaft Adjuster Alignment Tool
F	A0729	EN-49212-1/2	Camshaft Adjuster Alignment Tool
G	A0730	EN-48585	Crankshaft Pulley Alignment Tool

TOOL REFERENCE



Scan here for link to part finder

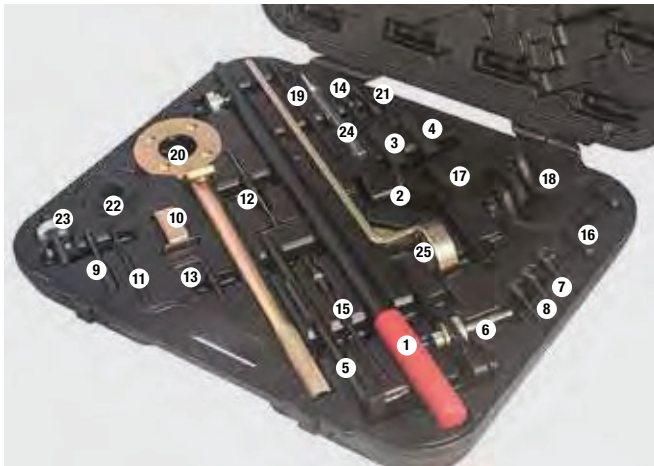
TIMING TOOL KIT



- Universal timing tool kit contains a comprehensive range of pulley holding and pulling tools suitable for popular Australian, Japanese and Korean applications
- For the locking and alignment of the camshafts, crankshaft, tensioner during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



TOOL REFERENCE



Part No.	Description
304734	Timing tool kit

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
1	07-JAB-001020B	Honda	Handle Holder Crank Pulley
2	07-MAB-PY-30100	Honda	Holder Attachment Crank Pulley
3	JAA0010100V17	Honda	17mm Socket
4	JAA0010100V19	Honda	19mm Socket
5	18G1521	Honda	Camshaft Holder Tool
6	JAB-0010100	Honda	Tool Holder
7	18G1523	Honda	Flywheel Fixed Pin
8	18G1717A	Honda	Injection Pump Pin
9	07 LAG-PT 20100	Honda	Balance Shaft Fixed Pin
10	14540-P13-003	Honda	Clamp
11	07744-0010400	Honda	Driver Pin (5.0mm)
12	18G1719	Honda	Fixed Bolt
13	09244-28100	Hyundai / Mitsubishi	Locking Pin 3 x 112mm
14	09244-28100	Hyundai / Mitsubishi	Connecting Pin 14 x 55mm
15	09244-28000	Hyundai	Belt Spanner
16	KM 42 A	Daewoo / Holden	Water Pump Wrench (SW41)
17	MKM 472	Daewoo / Holden	Water Pump Wrench (SW46)
18	J 42492	Daewoo / Holden	Water Pump Wrench (SW40)
19	49 JE 01064	Mazda	Camshaft Holder Tool
20	499977000	Subaru	Crankshaft Pulley Holder
21	49 JE 01061	Mazda	OT Fixed Pin
22	49 JE 01002	Mazda	Pulley Holder
23	49 JE 01062	Mazda	Crankshaft Pulley Tool
24	49 JE 01050	Mazda	Crankshaft Pin
25	49 DO 11102	Mazda	Crankshaft Holder Tool

CAMSHAFT BELT TENSIONER LOCKING TOOLS

- Suitable for popular 1.6L – 3.8L petrol engine applications
- For the locking and alignment of the automatic tensioner during removal and installation of the engine timing belt



APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304748	Hyundai		
	Lantra (J1 - J3)	1.6L - 1.8L (G4)	1991 - 2000
	Kia		
	Sorento (BL)	3.5L (G6CU)	2003 - 2009
	Mitsubishi		
	380 (DB)	3.8L (6G75)	2005 - 2008
	Express / Starwagon	2.0L - 3.0L	1994 - 2006
	Lancer (CG - CJ)	2.0L	2002 - 2015
	Magna (TS - TW)	3.0L - 3.5L	1994 - 2005
	Outlander (ZE - ZH)	2.4L	2003 - 2012
	Pajero (NL - NP)	3.5L - 3.8L	1997 - 2006
	Triton (MK - ML)	2.4L - 3.5L	1996 - 2011

FUEL PUMP SPROCKET REMOVING TOOL

- Suitable for popular Hyundai and Kia 1.4L, 1.5L, 1.6L and 1.7L common rail diesel (CRD) engine applications
- For locking the high pressure fuel pump and removal of the pump sprocket required for removal and installation of the engine timing chain and other engine servicing and repairs
- Contains high pressure fuel pump sprocket holder and puller, mounting plate and forcing screw
- OEM reference No. 09331-2A000



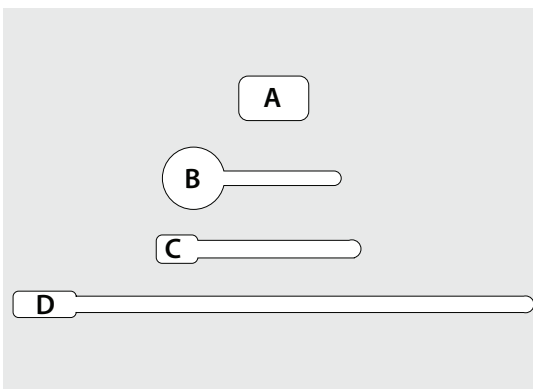
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304782	Hyundai		
	Accent (RB)	1.6L (D4FB)	2012 - 2013
	Getz (TB)	1.5L (D4FA)	2006 - 2011
	i30 (FD, GD)	1.6L (D4FB)	2007 - 2017
	i40 (VF)	1.7L (D4FD)	2011 - 2017
	Kia		
	Cerato (AF, EF)	1.6L (D4FB)	2006 - 2009
	Rio (JB)	1.5L (D4FA)	2010 - 2011
	Rio (UB)	1.4L (D4FC)	2012 - 2017
	Rondo (RP)	1.7L (D4FD)	2013 - 2017
	Soul (AJ)	1.6L (D4FB)	2009 - 2014

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0555	MD998752, MB998767, 09241-28100	Tensioner Pulley Holding Tool
B	A0001		Tensioner Locking Pin
C	A0470		Locking Pin
D	A0556	MD998738, 09244-28000	Automatic Tensioner Tool Holding Screw

TOOL REFERENCE



Also suitable: Part No. 304709
TIMING TOOL KIT



- Suitable for popular Jeep Grand Cherokee 2.7L diesel engine applications
- For full kit contents refer to page 164



Also suitable: Part No. 304749
TIMING TOOL KIT



- Suitable for popular Jeep Cherokee & Wrangler 2.8L diesel engine applications
- For full kit contents refer to page 157



CAMSHAFT LOCKING TOOL

- Suitable for Land Rover 2.5L TD5 Diesel models
- For the locking of the camshafts and flywheel/drive plate during engine servicing and repairs



APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304744	Land Rover		
	Defender (90, 110, 130)	2.5L (10P, 15P)	2011 - 2018
	Discovery II (TD5)	2.5L (10P, 16P)	1999 - 2005

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0533	LRT-12-058	Camshaft Timing Pin
B	A0534	LRT-12-158	Flywheel/Drive Plate Locking Tool

TIMING TOOL KIT

- Suitable for popular 2.7L & 3.0L TDI diesel engine applications
- For locking and alignment of the camshafts, crankshaft and tensioner during removal and installation of the engine timing belt and other engine servicing and repairs



APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304746	Jaguar		
	S Type (2.7 D)	2.7L (AJD27)	2006 - 2008
	XF (Luxury)	2.7L (AJD27)	2008 - 2009
	XF (X250)	3.0L (AJV6D)	2009 - 2018
	XJ6 (X350)	2.7L (ELD11)	2007 - 2010
	XJ (X351)	3.0L (306DT)	2010 - 2018
	Land Rover		
	Discovery III, IV	2.7L (276DT)	2005 - 2012
	Discovery IV	3.0L (306DT)	2009 - 2014
	Range Rover		
	Range Rover (LG, LW)	3.0L (306DT)	2013 - 2018
	Sport	2.7L (ELD11)	2005 - 2009
	Sport	3.0L (306DT)	2009 - 2013

FUEL PUMP LOCKING TOOL

- High pressure fuel pump locking tool
- Suitable for popular 2.7L – 3.0L DOHC V6 diesel engine applications including XF, XJ, Discovery, Range Rover Sport*
- Allows the high pressure fuel pump to be locked in the timed position during belt removal and installation and other engine servicing and repairs
- OEM reference No. 310-212



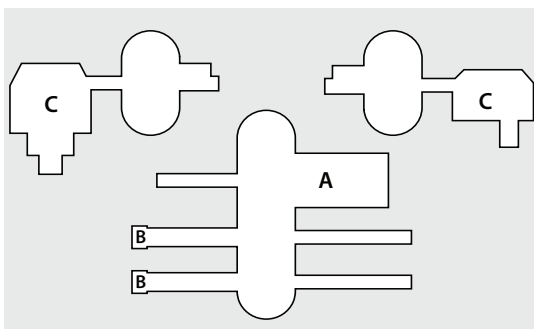
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304784	Jaguar		
	XF (Luxury)	3.0L (AJV6D)	2008 - 2011
	XF (X250)	3.0L (AJV6D)	2009 - 2011
	XJ (X351)	3.0L (306DT)	2010 - 2016
	Land Rover		
	Discovery III (2.7 TDV6)	2.7L (276DT)	2005 - 2009
	Discovery III (2.7 TDV6)	2.7L (276DT)	2009 - 2012
	Discovery III (SDV6,TDV6)	3.0L (306DT)	2009 - 2014
	Range Rover		
	Range Rover (LG - LW)	3.0L (306DT)	2013 - 2018
	Sport	2.7L (ELD11)	2005 - 2009
	Sport	3.0L (306DT)	2009 - 2013

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0100	303-1132	Camshaft Sprocket Aligning Tool
B	A0101	303-1126	Camshaft Sprocket Timing Pins
C	A0288	303-1116, 303-1117	Flywheel Locking Tool

TOOL REFERENCE



Also suitable: Part No. 304706

TIMING TOOL KIT



- Suitable for popular Mazda CX-7, Mazda 3, Mazda 6 and Tribute petrol engine applications
- **For full kit contents refer to page 143**



Also suitable: Part No. 304708

TIMING TOOL KIT



- Suitable for popular Mazda CX-7, Mazda 3, Mazda 6 and Tribute petrol engine applications
- **For full kit contents refer to page 144**



Also suitable: Part No. 304730

TIMING TOOL KIT



- Suitable for popular 1.8L – 2.5L DOHC 16V petrol engine applications
- For the locking of the camshaft and crankshaft during the removal and installation of the engine timing belt or chain
- Not suitable for Turbo models
- **For full kit contents refer to page 146**



Also suitable: Part No. 304754

TIMING TOOL KIT



- Suitable for popular Mazda CX-3, CX-5, Mazda 2, Mazda 3, Mazda 6 and Tribute petrol engine applications
- **For full kit contents refer to page 148**



Also suitable: Part No. 304764

TIMING TOOL KIT



- Suitable for popular Mazda BT50 diesel engine applications
- **For full kit contents refer to page 151**



TIMING TOOL KIT



- Suitable for popular 1.4L – 6.0L (4, 6, V6, V8 & V12) petrol and 2.1L – 3.2L (4, 5, 6 & V6) diesel engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs



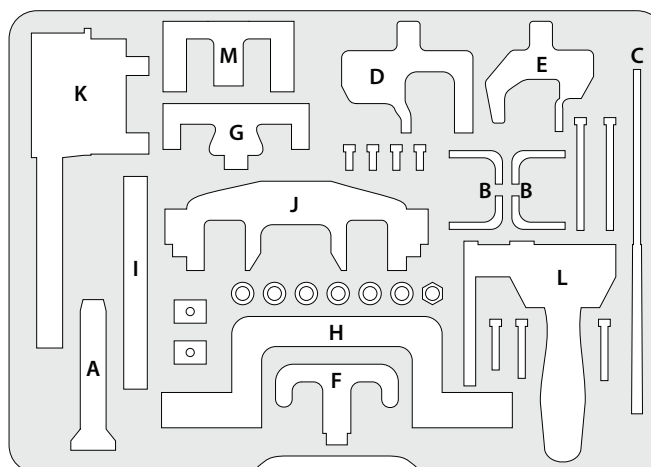
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304709	Mercedes		
	A Class (A140 - A200)	1.4L - 2.0L	1998 - 2010
	B Series (B180 - B200)	1.7L - 2.0L	2005 - 2012
	C Class (C, CL, CLC, CLK, CLS)	1.8L - 6.0L	1994 - 2018
	E Class (E200 - E500)	1.8L - 5.5L	1993 - 2018
	G-Class (G, GL)	3.0L, 5.5L	2006 - 2018
	ML Class (ML270 - ML500)	2.7L - 5.5L	2000 - 2015
	R Class (R280 - R500)	3.5L - 5.5L	2006 - 2012
	S Class (S, SL, SLK)	1.8L - 6.0L	1993 - 2018
	Sprinter	2.1L - 3.0L	2000 - 2018
	Viano	2.1L - 3.0L	2005 - 2018
	Vito	2.1L - 3.0L	1998 - 2015
	Ssangyong		
	Actyon	2.0L, 2.3L	2007 - 2013
	Kyron	2.0L - 2.7L	2006 - 2012
	Rexton	2.7L (OM665)	2004 - 2013
	Stavic	2.7L (OM665)	2005 - 2008

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0104	271589001500	Chain Tensioner Drift
B	A0231	111589031500	Camshaft Locking Pin
C	A0248	112589000100	Camshaft Spanner
D	A0249	112589013200	LH Camshaft Locking Tool
E	A0250	112589003200	RH Camshaft Locking Tool
F	A0259	601589024000	Flywheel Locking Tool
G	A0260	602589004000	Flywheel Plate Locking Tool
H	A0270	271589014000	Timing Chain to Camshaft Sprocket Holder
I	A0271	271589003100	Tensioner Rail Wedge
J	A0282	271589006100	Camshaft Holding Tool
K	A0341	271589004000	Crankshaft Holding Tool
L	A0619		Balancer Shaft Chain Link Installer Die Kit
M	A0648	112589034000	Flywheel Locking Tool

TOOL REFERENCE



CAMSHAFT LOCKING KIT 

- Suitable for 6.2L (M156) V8 DOHC 32V engine applications with timing chains
- For the locking and alignment of the camshafts and CMP unit during the removal and installation of the engine timing chain and other engine servicing and repairs



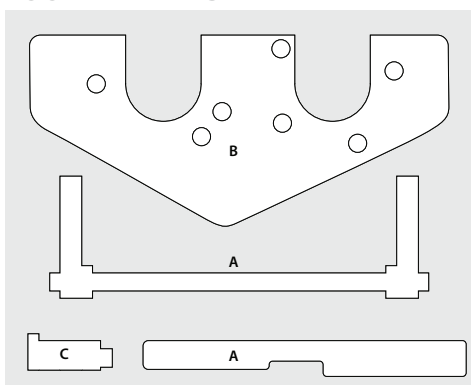
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304751	Mercedes		
	C63 AMG	6.2L (M156)	2008 - 2015
	E63 AMG	6.2L (M156)	2006 - 2012
	ML63 AMG	6.2L (M156)	2006 - 2012
	S63 AMG	6.2L (M156)	2007 - 2011

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0678	156 589 00 61 00	Camshaft Holding & Alignment Tool
B	A0679	156 589 00 32 00	CMP Sensor Setting Tool
C	A0680	156 589 01 63 00	Camshaft Clamping Tool

TOOL REFERENCE

CAMSHAFT LOCKING KIT 

- Suitable for popular 1.6L & 2.0L (M133, M270 & M274) DOHC 16V direct injection petrol engine applications
- For the locking and alignment of the camshafts during the removal and installation of the engine timing chain and other engine servicing and repairs



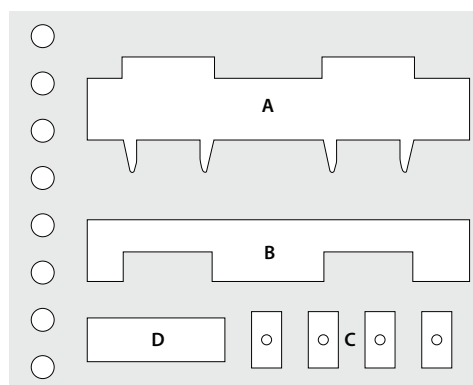
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304761	Mercedes		
	A180, A200, A250	1.6L - 2.0L (M270)	2013 - 2018
	A45 AMG	2.0L (M133)	2013 - 2016
	B180, B200, B250	1.6L - 2.0L (M270)	2012 - 2018
	C180, C200, C250	1.6L - 2.0L (M274)	2013 - 2018
	CLA200, CLA250	1.6L - 2.0L (M270)	2013 - 2018
	CLA45 AMG	2.0L (M133)	2013 - 2016
	E200, E250	2.0L (M274.920)	2013 - 2018
	GLA180, GLA250	1.6L - 2.0L (M270)	2014 - 2018
	GLA45 AMG	2.0L (M133)	2014 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0712	270 589 01 61 00	Camshaft Holding /Alignment Tool A
B	A0713	270 589 01 61 00	Camshaft Holding /Alignment Tool B
C	A0714	270 589 01 61 00	Camshaft Blocks x 4 (Small)
D			Security Bit Socket

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for Mercedes 1.8L - 2.1L (OM651) diesel engine applications
- For the locking and alignment of the camshafts during the removal and installation of the engine timing chain and other engine servicing and repairs



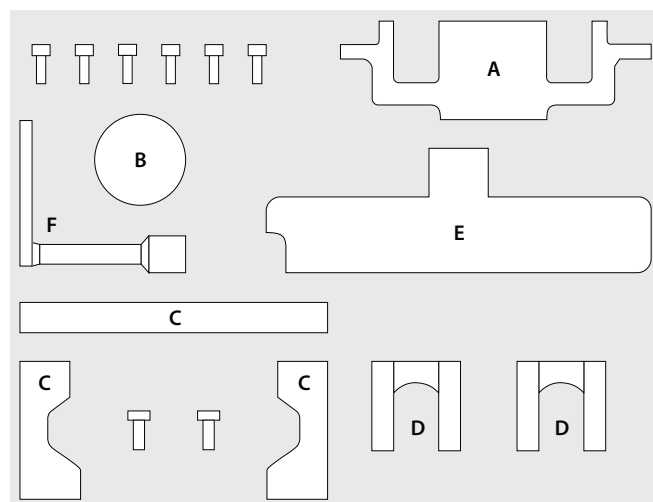
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304768	Mercedes		
	A-Class (A200 CDI)	1.8L (OM651)	2013 - 2016
	B-Class (B200 CDI)	1.8L (OM651.901)	2012 - 2015
	C-Class (C200 CDI)	2.1L (OM651.913)	2011 - 2014
	C-Class (C250D)	2.1L (OM651)	2011 - 2018
	C-Class (C300H)	2.1L (OM651.921)	2014 - 2018
	CLA-Class (CLA200 CDI)	1.8L (OM651.901)	2014 - 2016
	CLS-Class (CLS250 CDI)	2.1L (OM651.924)	2012 - 2016
	E-Class (E220 CDI)	2.1L (OM651.924)	2009 - 2012
	E-Class (E250 CDI)	2.1L (OM651.924)	2009 - 2018
	E-Class (E300)	2.1L (OM651.924)	2013 - 2018
	GLA-Class (GLA200 CDI)	2.1L (OM651.930)	2014 - 2016
	ML-Class (ML250 CDI BLUETEC)	2.1L (OM651.960)	2012 - 2015
	Sprinter (313 - 516 CDI)	2.1L (OM651)	2010 - 2018
	Vito (110 - 116 CDI)	2.1L (OM651.940)	2011 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0745	651589094000	Camshaft Alignment Tools
B	A0746	651589004000	Crankshaft Holding / Turning Tool
C	A0747	651589026300	Balancer Shaft Alignment Tool
D	A0748	651589014000	Camshaft Alignment Tools
E	A0749	651589034000	Timing Chain To Camshaft Sprocket Holder
F	A0758	651589104000	Crankshaft Holding / Turning Tool

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for popular 1.6L SOHC 16V (W10 & W11) petrol engine applications
- For the locking of the camshaft during the removal and installation of the engine timing chain and other engine servicing and repairs



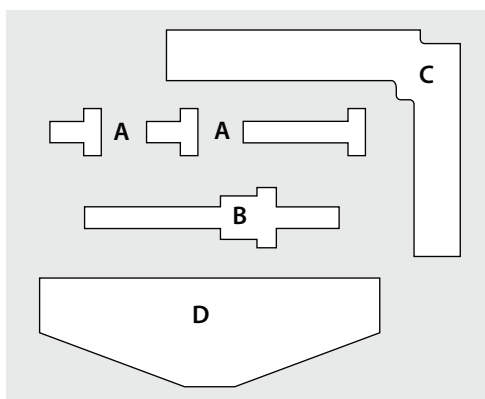
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304703	MINI		
	Cooper (R50)	1.6L (W10 B16A)	2002 - 2007
	Cooper S (R50 - R53)	1.6L (W11 B16)	2002 - 2009
	One (R50)	1.6L (W10 B16A)	2001 - 2006

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0068		Engine Support Bracket Bolts
B	A0164	11 8 240	Tensioner Assembly Tool
C	A0195	11 8 370	Engine Support Bracket
D	A0261	11 8 250	Camshaft Sprocket Holding Tool

TOOL REFERENCE



Also suitable: Part No. 304718
TIMING TOOL KIT



- Suitable for popular MINI 1.6L N12, N14 & N16 petrol engine applications
- **For full kit contents refer to page 173**



Also suitable: Part No. 304719
TIMING TOOL KIT



- Suitable for popular 2.0L (N47 & N57) DOHC 16V diesel engine applications
- For the locking and alignment of the camshafts, crankshaft, tensioner and injection pump during the removal and installation
- **For full kit contents refer to page 136**



Also suitable: Part No. 304758
TIMING TOOL KIT



- Suitable for popular Mini Cooper and Countryman, 1.6L petrol engine applications
- **For full kit contents refer to page 137**



Also suitable: Part No. 304763
TIMING TOOL KIT



- Suitable for popular Mini Cooper S and One, 1.2L - 2.0L petrol engine applications
- **For full kit contents refer to page 140**



Also suitable: Part No. 304785
TIMING TOOL KIT



- Suitable for popular Mini Cooper S and One, 1.2L - 1.5L engine applications
- **For full kit contents refer to page 141**



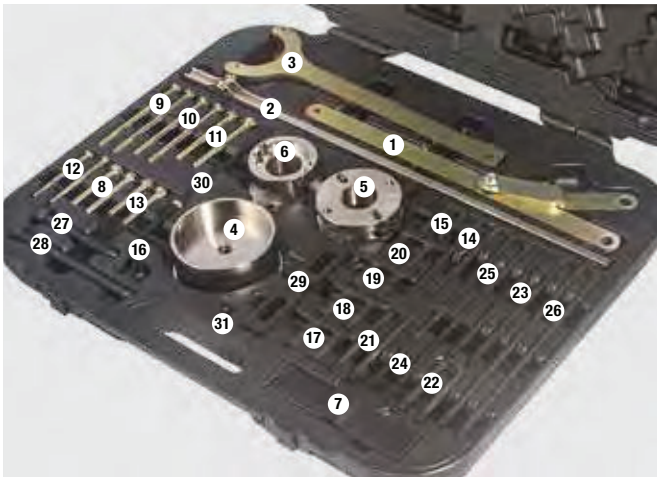
TIMING TOOL KIT



- Universal timing tool kit contains a comprehensive range of pulley holding and pulling tools suitable for popular Mitsubishi and Toyota applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



TOOL REFERENCE



Part No.	Description
304733	Timing tool kit

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
1	XB 990757	Mitsubishi	Crankshaft Pulley Holder Tool
2	09330-0021	Toyota	Companion Flange Holding Tool
3	09278-54012	Toyota	Variable Pin Wrench
4	09223-15030	Toyota	Crankshaft Rear Oil Seal Replacer
5	09213-54015	Toyota	Crankshaft Pulley Holding Tool
6	09213-14010	Toyota	Camshaft Pulley Holding Tool
7	09951-05010	Toyota	Hanger 150

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
7, 14-29	09951-50013	Toyota	SST Pullers
8			Bolts - M8 x 65 (x2)
9			Bolts - M8 x 116 (x2)
10			Bolts - M8 x 106 (x2)
11			Bolts - M8 x 88 (x2)
12			Bolts - M8 x 80 (x2)
13			Bolts - M8 x 55 (x2)
14	09954-05561	Toyota	Bolts - M6 x 100 (x2)
15	09954-05551	Toyota	Bolts - M6 x 30 (x2)
16	09957-04010	Toyota	Attachment
17	09555-05010	Toyota	Adapter Screw M10 x 1.25 (x2)
18	09555-05020	Toyota	Adapter Screw M10 x 1.5 (x2)
19	09555-05030	Toyota	Adapter Screw M12 x 1.25 (x2)
20	09555-05040	Toyota	Adapter Screw M12 x 1.5 (x2)
21	09954-05070	Toyota	Bolts - M8 x 75 (x2)
22	09954-05521	Toyota	Bolts - M8 x 50 (x2)
23	09954-05541	Toyota	Bolts - M8 x 150 (x2)
24	09954-05011	Toyota	Bolts - M5 x 100 (x2)
25	09954-05531	Toyota	Bolts - M8 x 100 (x2)
26	09954-05080	Toyota	Bolts - M8 x 225 (x2)
27	09953-05010	Toyota	Centre Bolt 100mm
28	09953-05020	Toyota	Centre Bolt 150mm
29	09952-05010	Toyota	Slide Arm
30	XD 998738	Mitsubishi	Spanner Tool Belt Adjustment Screw
31	XD 998767	Mitsubishi	Camshaft Pulley Holder Tool



CAMSHAFT BELT TENSIONER LOCKING TOOLS 

- Suitable for popular 1.6L – 3.8L petrol engine applications
- For the locking and alignment of the automatic tensioner during removal and installation of the engine timing belt



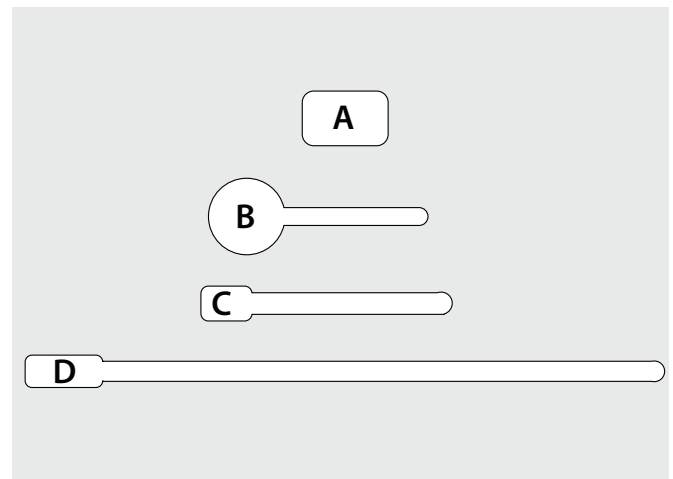
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304748	Hyundai		
	Lantra (J1 - J3)	1.6L - 1.8L (G4)	1991 - 2000
	Kia		
	Sorento (BL)	3.5L (G6CU)	2003 - 2009
	Mitsubishi		
	380 (DB)	3.8L (6G75)	2005 - 2008
	Express / Starwagon	2.0L - 3.0L	1994 - 2006
	Lancer (CG - CJ)	2.0L	2002 - 2015
	Magna (TS - TW)	3.0L - 3.5L	1994 - 2005
	Outlander (ZE - ZH)	2.4L	2003 - 2012
	Pajero (NL - NP)	3.5L - 3.8L	1997 - 2006
	Triton (MK - ML)	2.4L - 3.5L	1996 - 2011

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0555	MD998752, MB998767, 09241-28100	Tensioner Pulley Holding Tool
B	A0001		Tensioner Locking Pin
C	A0470		Locking Pin
D	A0556	MD998738, 09244-28000	Automatic Tensioner Tool Holding Screw

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 2.0L (M9R) and 2.3L (YS23) diesel engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation



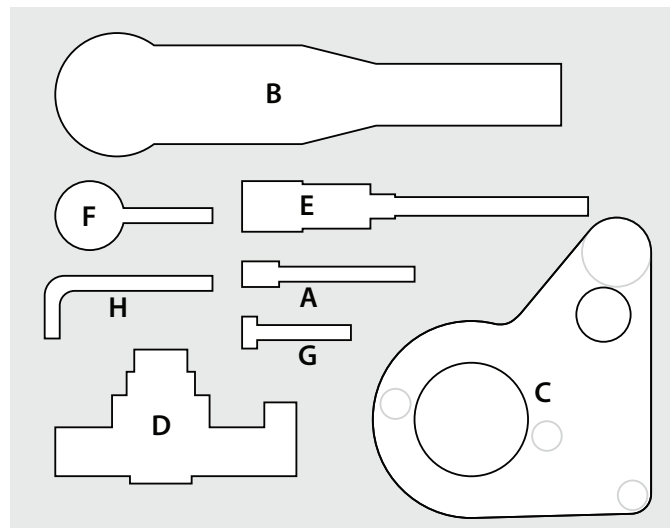
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304745	Nissan		
	Navara (D23, NP300)	2.3L (YS23DDT)	2015 - 2018
	Navara (D23, NP300)	2.3L (YS23DDTT)	2015 - 2018
	X-Trail (T31)	2.0L (M9R)	2008 - 2014
	Renault		
	Koleos (H45)	2.0L (M9R)	2008 - 2016
	Koleos (H45)	2.5L (2TR 70)	2008 - 2016
	Laguna	2.0L (M9R)	2008 - 2011
	Latitude (X43)	2.0L (M9RM)	2011 - 2016
	Master (X62)	2.3L (M9T)	2011 - 2018
	Megane (Sport dCi)	2.0L (M9RC)	2007 - 2015

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0109	-	Auxiliary Belt Tensioner Locking Pin
B	A0535	MOT1770/EN48334	Crankshaft Pulley Holding Tool
C	A0536	MOT1769/EN48332	Camshaft Setting Tool
D	A0537	MOT1773/EN48331	Camshaft Gear Alignment Bracket
E	A0538	MOT1766/EN48330	Crankshaft Locking Pin
F	A0539	-	Tensioner Locking Pin
G	A0540	-	Bolt
H	A0541	-	Hex Key

TOOL REFERENCE



TIMING TOOL KIT

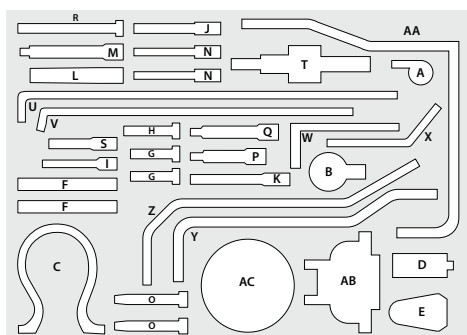
- Suitable for popular 1.4L – 2.2L petrol and 1.5L – 2.2L diesel engine applications
- For the locking of the camshafts and crankshaft during the removal and installation of the engine timing belt and other engine servicing and repairs



APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304704	Citroen		
	Berlingo, C2, C3, C4	1.6L (TU5JP4)	2003 - 2014
	C4, C5, Xsara	2.0L (EW10)	2001 - 2010
	C4, C5	2.0L (DW10BTED4)	2005 - 2012
	C5 (2.0 HDI 110)	2.0L (DW10ATED)	2001 - 2005
	C5 (2.2 HDI)	2.2L (DW12BTED4)	2007 - 2008
	Dispatch (G9C)	2.0L (DW10UTED4)	2008 - 2011
	Xsara	1.6L (TU5JP4)	2001 - 2005
	Peugeot		
	206 (XR)	1.4L (TU3JP)	1999 - 2007
	206, 307	1.6L (TU5JP)	1999 - 2008
	206 GTi, 307	2.0L (EW10J4,S)	1999 - 2009
	207 (XR)	1.4L (ET3J4)	2007 - 2010
	306 (NS)	1.8L (XU7JP)	1997 - 2001
	306, 406	2.0L (XU10J4)	1996 - 2004
	307 (XS HDi)	1.6L (DV6TED4)	2005 - 2008
	307 (NS)	2.0L (DW10TD)	2001 - 2005
	307, 308, 407, Expert	2.0L (DW10BTED4)	2004 - 2014
	308, 407, 5008, Expert, RCZ	2.0L (DW10CTED4)	2008 - 2018
	3008 (2.0 HDi)	2.0L (DW10CTED4)	2010 - 2018
	406 (D9)	2.0L (DW10ATED)	1999 - 2004
	407 (ST)	2.2L (EW12J4)	2004 - 2009
	4007 (ST, SV)	2.2L (DW12MTED4)	2009 - 2014
	508 (GT HDi)	2.2L (DW12)	2011 - 2015
	Partner	1.6L (TU5JP4B)	2008 - 2018

TOOL REFERENCE



CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0007	4200-TH	Tensioner Pulley Locking Pin
B	A0008	0188-AH	Crankshaft Sprocket Centralizing Tool
C	A0019	0189-K, 4533-TAD	Timing Belt Retaining Clip
D	A0029	0134-Q	Flywheel Locking Tool
E	A0031	0153-A, 6012-T, 9765 54, D86	Flywheel Locking Tool
F	A0050	0132-R, 0153-AB, 0153-G, 4507-TB	Camshaft & Flywheel Timing Pins
G	A0070	M8 x 1.25 x 30mm	Bolt
H	A0071	M8 x 1.25 x 40mm	Bolt
I	A0081	0132-AJ1, 0178-C, 0188-H, 0195C, 4533-TAC1	Camshaft Timing Pin
J	A0083	0194-B, 21-263, 303-735, 999 7122	Camshaft Sprocket Locking Pin
K	A0087	4533-TAC1, 4533-TAC2	Camshaft Locking Pin
L	A0089	21-262, 303-734, 999 7121	Crankshaft Locking Pin
M	A0090	0189-L, 0189-AZ	Camshaft Timing Pin
N	A0107	0132-AB, 0194-A, 07744-0010400, 21-260, 303-732, 999 7169, 999 7233	Crankshaft Locking Pins
O	A0117	0178-C, 0178-D	Injection Pump Timing Pins
P	A0119	0189-A	Camshaft Timing Pin
Q	A0120	0189-AZ	Camshaft Timing Pin
R	A0126	M8 x 1.25	Bolt
S	A0135	0132-RZ	Camshaft Timing Pin
T	A0182	0189-R	Flywheel Locking Tool
U	A0199	0189-S2	Tensioner Pulley Locking Tool
V	A0200	0189-S2	Tensioner Pulley Locking Tool
W	A0202	0132-X, 4507-TJ	Auxiliary Belt Tensioner Setting Tool
X	A0224	0132-Q, 4507-TA	Crankshaft Timing Pin
Y	A0227	0153-N, 7004-TG, 7014-TJ, 7017-TR, 9767 34	Crankshaft Timing Pin
Z	A0228	7017-TR	Flywheel Timing Pin
AA	A0229	0153-N, 7099-TM, 7017-TR, 9767 34	Flywheel Timing Pin
AB	A0256	7015-T (0174)	Crankshaft Pulley Puller
AC	A0386	0189-S1	Tensioner Pulley Adjusting Tool

TIMING TOOL KIT

- Suitable for popular 2.0L (DW10) diesel engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



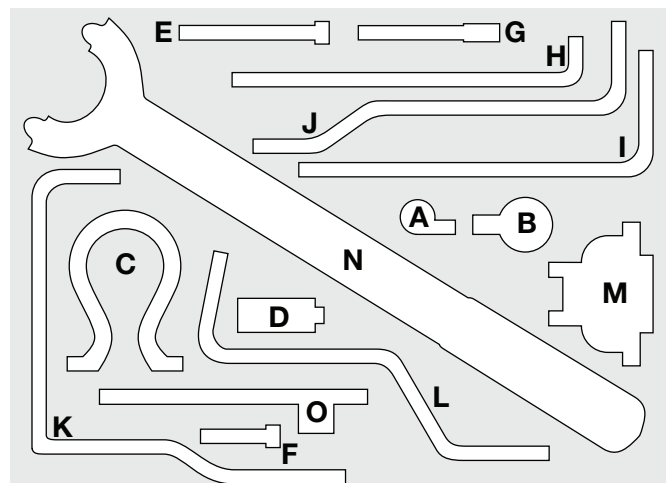
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304721	Citroen		
	C4, C4 Picasso, C5 (2.0 HDi)	2.0L (DW10)	2001 - 2018
	C5 (2.2 HDi)	2.2L (DW12)	2005 - 2018
	Dispatch (G9C)	2.0L (DW10UTED4)	2008 - 2011
	DS5 (Dsport HDi)	2.0L (DW10CTED4)	2013 - 2015
	Xsara	2.0L (DW10TD)	2000 - 2005
	Peugeot		
	307, 308, 3008 (2.0 HDi)	2.0L (DW10)	2001 - 2018
	406, 407 (2.0 HDi)	2.0L (DW10)	1999 - 2011
	4007 (2.2 HDi)	2.2L (DW12MTED4)	2009 - 2014
	508 (2.0 HDi)	2.0L (DW10CTED4)	2011 - 2018
	508 (2.2 HDi)	2.2L (DW12)	2011 - 2015
	RCZ (2.0 HDi)	2.0L (DW10CTED4)	2010 - 2015
	4007 (HDi)	2.2L (DW12MTED4)	2009 - 2012
	RCZ (HDi)	2.0L (DW10CTED4)	2010 - 2012

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0007	0153-AL	Tensioner Pulley Locking Pin
B	A0008	0188-AH	Crankshaft Sprocket Centralizing Tool
C	A0019	0188-K	Timing Belt Retaining Clip
D	A0029	0188-F	Crankshaft Locking Tool
E	A0047	M8 x 1.25	M8 x 70mm Set screw
F	A0071	M8 x 1.25 x 40mm	Bolt
G	A0087	0188-M	Camshaft Locking Pin
H	A0201	0188-Q1, 0188-Q2, 0188-Z	Cambelt Tensioner
I	A0215	0188-X	Crankshaft Timing Pin
J	A0227	0188-Y	Flywheel Timing Pin
K	A0229	0153-N, 0188-D, 0288-D, 7099-TM	Flywheel Timing Pin
L	A0230	7004-TG	Camshaft Timing Pin
M	A0256	0188-P	Crankshaft Pulley Puller
N	A0313	0132-AA, 6016-T	Camshaft Adjusting Wrench
O	A0345	0188-J2	Tensioning Tool

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for 1.6L (EP6, N12 & N14) DOHC 16V petrol engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs



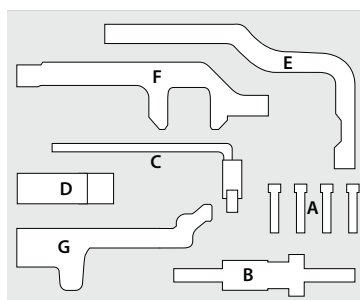
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304718	Citroen		
	C3, DS3	1.4L, 1.6L (EP3, EP6)	2010 - 2015
	C4, DS4, C5, DS5	1.6L (EP6)	2009 - 2018
	MINI		
	Cooper	1.6L (N12, N16)	2007 - 2018
	Cooper (S, JCW)	1.6L (N14)	2007 - 2018
	Countryman	1.6L	2011 - 2017
	Peugeot		
	207, 308	1.4L (EP3)	2010 - 2013
	207, 208, 2008, 308	1.6L (EP6)	2007 - 2017
	207 (GT), 207CC, 308, 3008, 508	1.6L (EP6DT)	2007 - 2018
	508 (ACTIVE)	1.6L (EP6FDT)	2015 - 2018
	5008 (1.6T)	1.6L (EP6CDT)	2013 - 2015
	RCZ	1.6L (EP6CDT)	2010 - 2015

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0072		Camshaft Alignment Kit (Bolts)
B	A0170	11 9 340	Timing Chain Pre-Tensioning Tool
C	A0208	0197-B, 11 9 590	Crankshaft Timing Pin
D	A0429	11 9 552	Camshaft Alignment Kit
E	A0450	0197-A3, 11 9 540	Camshaft Alignment Tool
F	A0451	0197-A2, 0197-A3, 11 9 550	Camshaft Alignment Tool
G	A0452	0197-A1, 11 9 540, 11 9 550	Camshaft Alignment Tool

TOOL REFERENCE



TIMING TOOL KIT 

- Suitable for popular 1.4L – 2.0L SOHC 8V and DOHC 16V petrol engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt and other engine servicing and repairs



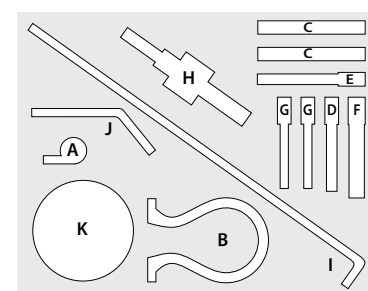
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304726	Citroen		
	Berlingo, C2, C3, C4	1.4L - 2.0L	2003 - 2010
	Ford		
	Fiesta	1.6L (TDCi)	2009 - 2012
	Peugeot		
	307, 307CC	2.0L (EW10A)	2005 - 2009
	Volvo		
	C30	1.6L (Diesel)	2009 - 2012

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0007	4200-TH	Tensioner Pulley Locking Pin
B	A0019	0189-K, 4533-TAD	Timing Belt Retaining Clip
C	A0050	0132-R, 0153-AB, 0153-G, 4507-TB	Camshaft Timing Pin
D	A0083	0194-B, 21-263, 303-735, 999 7122	Camshaft Timing Pin
E	A0087	4533-TAC1, 4533-TAC2	Camshaft Timing Pin
F	A0089	21-262, 303-734, 999 7121	Flywheel Locking Tool
G	A0107	0132-AB, 0194-A, 07744-0010400, 21-260, 303-732, 999 7169, 999 7233	Camshaft Timing Pins
H	A0182	0189-R	Flywheel Locking Tool
I	A0199	0189-S2	Tensioner Pulley Locking Tool
J	A0224	0132-Q, 4507-TA	Flywheel Locking Tool
K	A0386	0189-S1	Tensioner Pulley Adjusting Tool

TOOL REFERENCE



TIMING TOOLS

PORSCHE

Also suitable: Part No. 304735

TIMING TOOL KIT



- Suitable for popular Porsche Cayenne 3.0L diesel engine applications
- For full kit contents refer to page 128



Also suitable: Part No. 304756

TIMING TOOL KIT



- Suitable for popular Porsche Cayenne 3.6L (M55) petrol engine applications
- For full kit contents refer to page 130



RANGE ROVER

Also suitable: Part No. 304746

TIMING TOOL KIT



- Suitable for popular Range Rover, Sport 2.7L & 3.0L diesel engine applications
- For full kit contents refer to page 162



Also suitable: Part No. 304784

FUEL PUMP LOCKING TOOL



- Suitable for popular Range Rover, Sport 2.7L & 3.0L diesel engine applications
- For full kit contents refer to page 162



RENAULT

Also suitable: Part No. 304745

TIMING TOOL KIT



- Suitable for popular 2.0L (M9R) and 2.3L (YS23) diesel engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation
- For full kit contents refer to page 170



Scan here for link to part finder

TIMING TOOL MASTER KIT

- Suitable for popular 1.4L – 2.0L DOHC 16V petrol engine applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt and other engine servicing and repairs



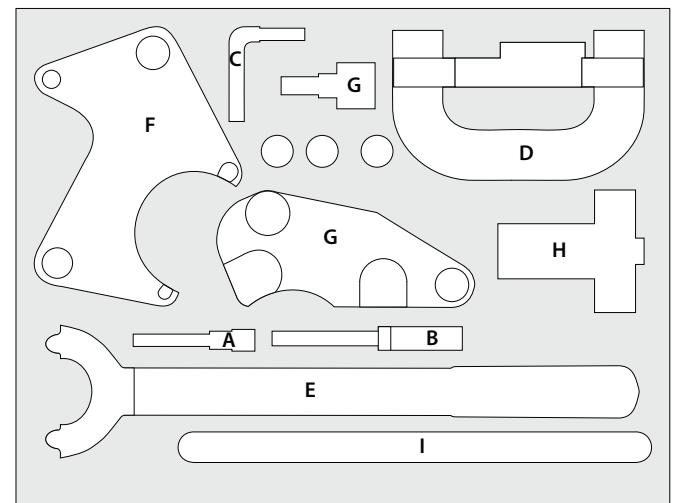
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304727	Renault		
	Clio	1.4L (K4J)	2000 - 2008
	Clio	1.6L (K4M)	2002 - 2008
	Clio	2.0L (F4R)	2000 - 2018
	Grand Scenic	2.0L (F4R)	2005 - 2010
	Kangoo	1.6L (K4M)	2004 - 2018
	Laguna	2.0L (F4R)	2002 - 2011
	Megane	1.6L (K4M)	1999 - 2007
	Megane	2.0L (F4R)	2003 - 2018
	Scenic	1.6L (K4M)	2001 - 2002
	Scenic	2.0L (F4R)	2001 - 2007

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0095	MOT 1054	Crankshaft Locking Pin
B	A0136	MOT 1489	Crankshaft Timing Pin
C	A0191		Guide Pin
D	A0243	MOT 1496, MOT 1750	Camshaft Setting Bar
E	A0313	MOT 799-01	Camshaft Adjusting Wrench
F	A0360	MOT 1490-01	Camshaft Sprocket Locking Tool
G	A0437	MOT 1509-01, MOT 1801	Camshaft Locking Tool
H	A0607	1 895 751 000, 1 895 751 023, A 95751, MOT 1273, MOT 1505, MOT 1638, MOT 1715	Auxiliary Drive Belt Tension Gauge
I	A0620	MOT 1368	Guide Pulley Wrench

TOOL REFERENCE



CAMSHAFT LOCKING KIT

- Suitable for SAAB 2.0L turbo engine applications
- For the locking and alignment of the camshafts and crankshaft during the removal and installation of the engine timing chain and other engine servicing and repairs



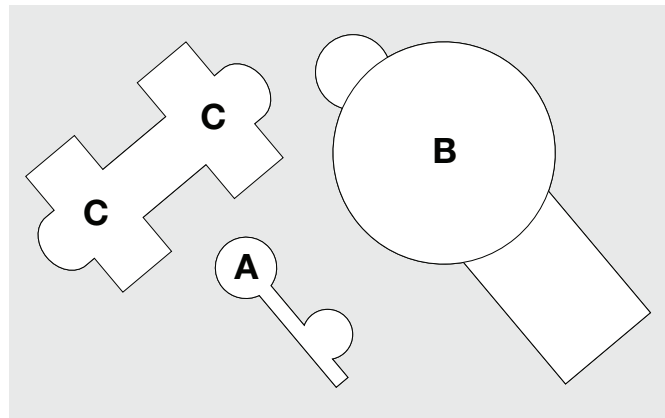
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304766	SAAB		
	9-3 (2.0)	2.0L (B207)	2004 - 2005
	9-3 (2.0T)	2.0L (B207E)	2005 - 2007
	9-3 (2.0T)	2.0L (B207L)	2002 - 2010
	9-3 (Bio Power)	2.0L (B207L)	2007 - 2010
	9-3 (Linear Sport)	2.0L (B207E)	2008 - 2009
	9-3 (Linear, Arc, Vector)	2.0L (B207)	2002 - 2007

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0001	83 96 392	Tensioner Locking Pin
B	A0613	83 96 210	Crankshaft Pulley Holder
C	A0752	83 96 046, EN-48366	Camshaft Lock Tools

TOOL REFERENCE



Also suitable: Part No. 304714
TIMING TOOL KIT



- Suitable for popular Skoda Octavia 2.0 petrol engine applications
- For full kit contents refer to page 124



Also suitable: Part No. 304715
TIMING TOOL KIT



- Suitable for popular Skoda Octavia, Roomster, Superb, Yeti applications
- For full kit contents refer to page 125



Also suitable: Part No. 304716**TIMING TOOL KIT**

- Suitable for popular Skoda Fabia, Octavia, Rapid, Roomster & Yeti applications
- For full kit contents refer to page 126

**Also suitable: Part No. 304725****TIMING TOOL KIT**

- Suitable for popular Skoda Octavia, Roomster, Superb & Yeti diesel engine applications
- For full kit contents refer to page 127

**Also suitable: Part No. 304728****TIMING TOOL KIT**

- Suitable for popular Skoda Fabia & Octavia applications
- For full kit contents refer to page 128

**Also suitable: Part No. 304750****TIMING TOOL KIT**

- Suitable for popular Skoda Octavia 1.8L & 2.0 petrol engine applications
- For full kit contents refer to page 129

**Also suitable: Part No. 304757****TIMING TOOL KIT**

- Suitable for popular Skoda Octavia, Roomster, Superb & Yeti petrol engine applications
- For full kit contents refer to page 131

**Also suitable: Part No. 304765****TIMING TOOL KIT**

- Suitable for popular Skoda Octavia 1.6L & 2.0 diesel engine applications
- For full kit contents refer to page 132

**Also suitable: Part No. 304709****TIMING TOOL KIT**

- Suitable for popular Actyon, Kyron, Rexton & Stavic applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing chain and other engine servicing and repairs
- For full kit contents refer to page 164

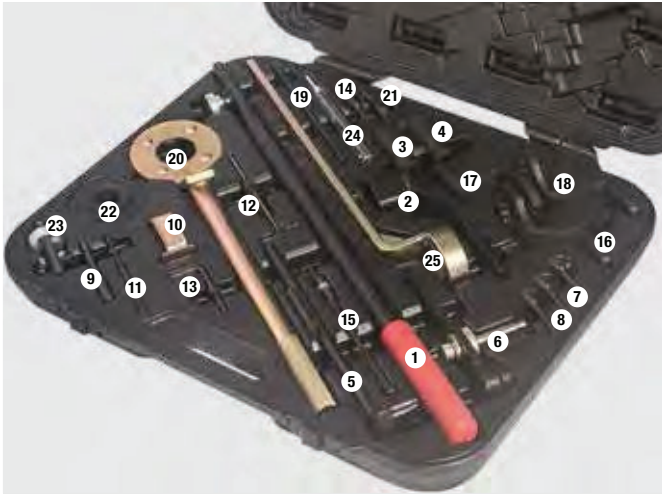


TIMING TOOL KIT

- Universal timing tool kit contains a comprehensive range pulley holding and pulling tools suitable for popular Australian, Japanese and Korean applications
- For the locking and alignment of the camshafts, crankshaft, tensioner during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



TOOL REFERENCE



Part No.	Description
304734	Timing tool kit

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
1	07-JAB-001020B	Honda	Handle Holder Crank Pulley
2	07-MAB-PY-30100	Honda	Holder Attachment Crank Pulley
3	JAA0010100V17	Honda	17mm Socket
4	JAA0010100V19	Honda	19mm Socket
5	18G1521	Honda	Camshaft Holder Tool
6	JAB-0010100	Honda	Tool Holder
7	18G1523	Honda	Flywheel Fixed Pin
8	18G1717A	Honda	Injection Pump Pin
9	07 LAG-PT 20100	Honda	Balance Shaft Fixed Pin
10	14540-P13-003	Honda	Clamp
11	07744-0010400	Honda	Driver Pin (5.0mm)
12	18G1719	Honda	Fixed Bolt
13	09244-28100	Hyundai / Mitsubishi	Locking Pin 3 x 112mm
14	09244-28100	Hyundai / Mitsubishi	Connecting Pin 14 x 55mm
15	09244-28000	Hyundai	Belt Spanner
16	KM 42 A	Daewoo / Holden	Water Pump Wrench (SW41)
17	MKM 472	Daewoo / Holden	Water Pump Wrench (SW46)
18	J 42492	Daewoo / Holden	Water Pump Wrench (SW40)
19	49 JE 01064	Mazda	Camshaft Holder Tool
20	499977000	Subaru	Crankshaft Pulley Holder
21	49 JE 01061	Mazda	OT Fixed Pin
22	49 JE 01002	Mazda	Pulley Holder
23	49 JE 01062	Mazda	Crankshaft Pulley Tool
24	49 JE 01050	Mazda	Crankshaft Pin
25	49 DO 11102	Mazda	Crankshaft Holder Tool



CAMSHAFT LOCKING TOOL

- Suitable for popular Subaru 2.0L & 2.5L petrol engine applications
- For locking the camshafts during the removal and installation of the engine timing belt and other engine servicing and repairs
- Manufactured from high quality aluminium
- OEM reference No. 499207300 (12 point hex)



Part No.	Description
304780	Camshaft Locking Tool

CAMSHAFT LOCKING TOOL

- Suitable for popular Subaru 2.0L and 2.5L DOHC Turbo petrol engine applications
- For locking the camshafts during the removal and installation of the engine timing belt and other engine servicing and repairs



Part No.	Description
304781	Camshaft Locking Tool

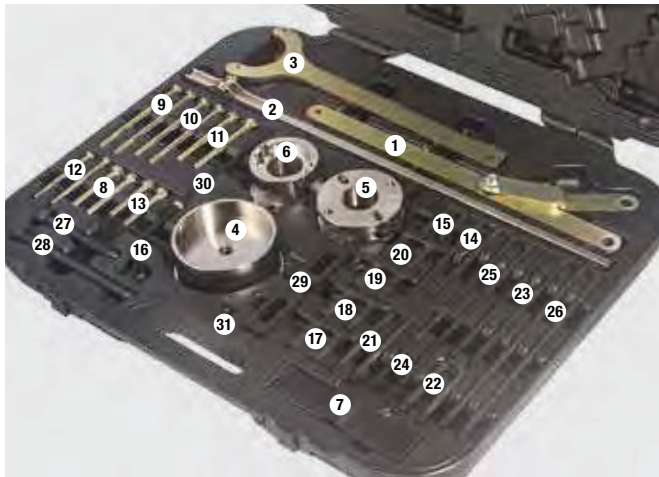
TIMING TOOL KIT



- Universal timing tool kit contains a comprehensive range of pulley holding and pulling tools suitable for popular Mitsubishi and Toyota applications
- For the locking and alignment of the camshafts, crankshaft and tensioner during the removal and installation of the engine timing belt, chain and other engine servicing and repairs



TOOL REFERENCE



Part No.	Description
304733	Timing tool kit

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
1	XB 990757	Mitsubishi	Crankshaft Pulley Holder Tool
2	09330-0021	Toyota	Companion Flange Holding Tool
3	09278-54012	Toyota	Variable Pin Wrench
4	09223-15030	Toyota	Crankshaft Rear Oil Seal Replacer
5	09213-54015	Toyota	Crankshaft Pulley Holding Tool
6	09213-14010	Toyota	Camshaft Pulley Holding Tool
7	09951-05010	Toyota	Hanger 150

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
7, 14-29	09951-50013	Toyota	SST Pullers
8			Bolts - M8 x 65 (x2)
9			Bolts - M8 x 116 (x2)
10			Bolts - M8 x 106 (x2)
11			Bolts - M8 x 88 (x2)
12			Bolts - M8 x 80 (x2)
13			Bolts - M8 x 55 (x2)
14	09954-05561	Toyota	Bolts - M6 x 100 (x2)
15	09954-05551	Toyota	Bolts - M6 x 30 (x2)
16	09957-04010	Toyota	Attachment
17	09555-05010	Toyota	Adapter Screw M10 x 1.25 (x2)
18	09555-05020	Toyota	Adapter Screw M10 x 1.5 (x2)
19	09555-05030	Toyota	Adapter Screw M12 x 1.25 (x2)
20	09555-05040	Toyota	Adapter Screw M12 x 1.5 (x2)
21	09954-05070	Toyota	Bolts - M8 x 75 (x2)
22	09954-05521	Toyota	Bolts - M8 x 50 (x2)
23	09954-05541	Toyota	Bolts - M8 x 150 (x2)
24	09954-05011	Toyota	Bolts - M5 x 100 (x2)
25	09954-05531	Toyota	Bolts - M8 x 100 (x2)
26	09954-05080	Toyota	Bolts - M8 x 225 (x2)
27	09953-05010	Toyota	Centre Bolt 100mm
28	09953-05020	Toyota	Centre Bolt 150mm
29	09952-05010	Toyota	Slide Arm
30	XD 998738	Mitsubishi	Spanner Tool Belt Adjustment Screw
31	XD 998767	Mitsubishi	Camshaft Pulley Holder Tool



Also suitable: Part No. 304714

TIMING TOOL KIT



- Suitable for popular Volkswagen Beetle, Bora, Caddy, EOS, Golf, Jetta, Passat, Scirocco Transporter petrol engine applications

■ For full kit contents refer to page 124



Also suitable: Part No. 304715

TIMING TOOL KIT



- Suitable for popular Volkswagen Amarok, Beetle, Bora, Caddy, EOS, Golf, Jetta, Passat, Polo & Transporter applications

■ For full kit contents refer to page 125



Also suitable: Part No. 304716

TIMING TOOL KIT



- Suitable for popular Volkswagen Beetle, Golf, Jetta, Polo & Tiguan 1.4L & 1.6L petrol engine applications

■ For full kit contents refer to page 126



Also suitable: Part No. 304725

TIMING TOOL KIT



- Suitable for popular Volkswagen Amarok, Beetle, Caddy, EOS, Golf, Jetta, Passat, Polo, Scirocco & Transporter applications

■ For full kit contents refer to page 127



Also suitable: Part No. 304728

TIMING TOOL KIT



- Suitable for Volkswagen popular Beetle, Caddy, Citivan, Golf, Polo and Transporter petrol engine applications

■ For full kit contents refer to page 128



TIMING TOOL KIT

- Suitable for popular 2.5L petrol and 2.4L, 2.5L diesel engine applications
- For the locking and alignment of the camshaft, crankshaft, tensioner and injection pump during the removal and installation of the engine timing belt and other engine servicing and repairs



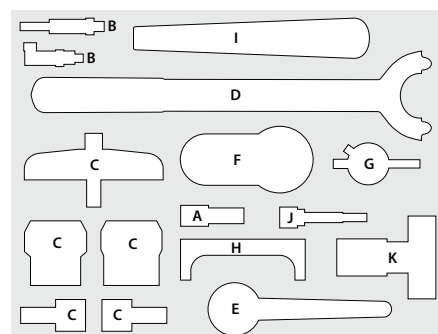
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304722	Volkswagen		
	Caravelle (IV)	2.5L	1993 - 2003
	Caravelle (IV)	2.5L (TDi)	2000 - 2005
	Crafter	2.5L (TDi)	2007 - 2012
	Kombi (IV)	2.5L	2003 - 2004
	LT 35	2.5L (TDi)	2003 - 2006
	LT 46	2.5L (TDi)	2003 - 2006
	Transporter (IV)	2.5L	1993 - 2004
	Transporter (IV)	2.4L, 2.5L (TDi)	1994 - 2006

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0141	2064	Injection Pump Setting Pin
B	A0178	3313	Dial Gauge Adaptor
C	A0189	40001	Camshaft Sprocket Puller
D	A0313	3036	Camshaft Adjusting Wrench
E	A0320	3355	Tensioner Pulley Spanner
F	A0342	3248A, T10025	Crankshaft Damper Holding Tool
G	A0409	3313	Dial Gauge
H	A0425	2065A	Camshaft Setting Bar
I	A0453	3212	Pulley Holding Tool
J	A0468	50009	Crankshaft Timing Pin
K	A0607	1 895 751 000, 1 895 751 023, A 95751	Auxiliary Drive Belt Tension Gauge

TOOL REFERENCE



TIMING TOOL KIT

- Suitable for popular 2.5 & 4.9L TDI diesel engine applications
- For locking and alignment of the camshaft and crankshaft gears during servicing of the engine valve timing and other engine repairs



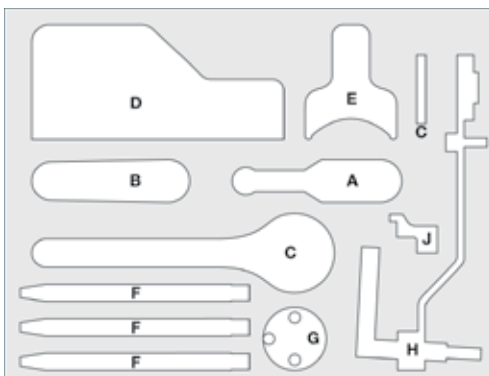
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304747	Volkswagen		
	Caravelle	2.5L (AXE, BNZ, BPC)	2004 - 2010
	Kombi (V)	2.5L (BNZ)	2006 - 2009
	Multivan (V)	2.5L (AXE, BPC)	2005 - 2010
	Phaeton	4.9L (AJS)	2004 - 2007
	Touareg	2.5L (BAC, BPE)	2004 - 2009
	Touareg	4.9L (AYH, BLE, CBW)	2004 - 2010
	Transporter	2.5L (AX, BNZ, BPC)	2004 - 2010

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0546	T10193	Camshaft Locking Tool 1
B	A0547	T10194	Camshaft Locking Tool 2
C	A0548	T10195	Crankshaft Locking Tool
D	A0549	T10199	Camshaft Gear Retaining Tool 1
E	A0550	T10199/1	Camshaft Gear Retaining Tool 2
F	A0551	T10200	Guide Pin
G	A0552	T10225	Crankshaft Alignment Tool
H	A0553	T10226	Crankshaft Locking Tool
J	A0554	T10234	Camshaft Compensation Gear Pre-Tensioning Tool

TOOL REFERENCE



Also suitable: Part No. 304735 TIMING TOOL KIT



- Suitable for popular Volkswagen Touareg 3.0L & 4.2L diesel engine applications
- For full kit contents refer to page 128



Also suitable: Part No. 304750 TIMING TOOL KIT



- Suitable for popular Volkswagen Amarok, EOS, Golf, Jetta, Passat & Tiguan 1.8L & 2.0L petrol engine applications
- For full kit contents refer to page 129



Also suitable: Part No. 304756 TIMING TOOL KIT



- Suitable for popular Volkswagen Bora, Caravelle, Golf, Multivan, Passat & Transporter petrol engine applications
- For full kit contents refer to page 130



Also suitable: Part No. 304757 TIMING TOOL KIT



- Suitable for popular Volkswagen Caddy, Golf, Polo & UP 1.0L - 1.4L petrol engine applications
- For full kit contents refer to page 131



Also suitable: Part No. 304765 TIMING TOOL KIT



- Suitable for popular Volkswagen Golf 1.6L diesel engine applications
- For full kit contents refer to page 132



Also suitable: Part No. 304767 TIMING TOOL KIT



- Suitable for popular Volkswagen Touareg 4.2L petrol engine applications
- For full kit contents refer to page 133



Scan here for link to part finder

* Abbreviated applications to be used as a guide only, for complete vehicle application listings go to website tridon.com.au/partfinder

TIMING TOOL KIT 

- Suitable for popular 4, 5 and 6 cylinder DOHC petrol engine applications
- For the locking of camshafts during the removal and installation of the engine timing belt and other engine servicing and repairs

Note: Applications may require additional tools to complete repairs



APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304737	Ford		
	Focus XRS Turbo (LS - LV)	2.5L (B5254T)	2006 - 2012
	Kuga (TE)	2.5L (Duratec)	2012 - 2013
	Mondeo XRS Turbo (MA - MB)	2.5L (B5254T)	2007 - 2014
	Volvo		
	850, 850(T)	2.3L, 2.4L (B52)	1992 - 1997
	960	2.9L (B630)	1991 - 1997
	C30, C30(T)	2.4L, 2.5L (B52)	2007 - 2013
	C70, C70(T)	2.3L - 2.5L (B52)	1999 - 2015
	S40, S40(T)	1.9L - 2.5L (B41, B42, B52)	1997 - 2013
	S60, S60(T)	2.0L - 2.5L (B52)	2000 - 2009
	S70, S70(T)	2.3L, 2.4L (B52)	1997 - 2003
	S80, S80(T)	2.0L - 2.9L (B52, B62, B63)	1998 - 2006
	V40, V40(T)	1.8L, 2.0L (B41, B42)	1997 - 2004
	V50, V50(T)	2.4L, 2.5L (B52)	2004 - 2015
	V70, V70(T)	2.0L - 2.5L (B52)	1997 - 2008
	XC70, XC70(T)	2.3L - 2.5L (B52)	2000 - 2007
	XC90, XC90(T)	2.5L - 2.9L (B52, B62)	2003 - 2006

BELT INSTALLATION KIT  

- Suitable for popular 1.9L – 2.5L DOHC petrol and 2.5L DOHC diesel engine applications
- For locking the crankshaft during engine repairs, servicing and timing belt replacement

Note: Applications may require additional tools to complete repairs



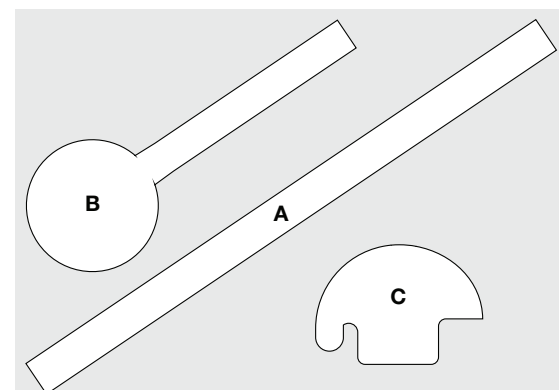
APPLICATION LIST*

Part No.	Make & Model	Engine	Year
304738	Ford		
	Focus XRS Turbo (LS - LV)	2.5L (B5254T)	2006 - 2012
	Kuga (TE)	2.5L (Duratec)	2012 - 2013
	Mondeo XRS Turbo (MA - MB)	2.5L (B5254T)	2007 - 2014
	Volvo		
	850	2.5L (B5252S)	1993 - 1996
	C30, S70, V70	2.0L - 2.5L (B52, D52)	1997 - 2015
	S40, V40	1.8L - 2.5L (B41, B42, B52)	1997 - 2018
	S60, S60	2.0L - 2.5L (B52, D52)	2000 - 2018
	V50	2.4L, 2.5L (B52, D52)	2004 - 2015
	S80, S80(T)	2.0L - 2.8L (B52, B62, D52)	1998 - 2010
	XC60, XC70, XC90	2.0L - 2.5L (B52, D52)	2000 - 2018

CONTENTS

Tool Ref.	Toledo Tool No.	OEM Tool No.	Description
A	A0645	999 7109	Auxiliary Drive Belt Tensioner Tool
B	A0646	999 5433	Crankshaft Pulley Holding Tool
C	A0647	303-1179	Auxiliary Drive Belt Installer

TOOL REFERENCE



Also suitable: Part No. 304762
TIMING TOOL KIT


- Suitable for popular Volvo S60 & V60 1.6L petrol engine applications
- For full kit contents refer to page 150



UNIVERSAL

DIAL GAUGE TIMING KIT

- Ideal for use in diesel injection pump timing and universal petrol engine applications
- Set includes special purpose adaptors, extensions and dial gauge

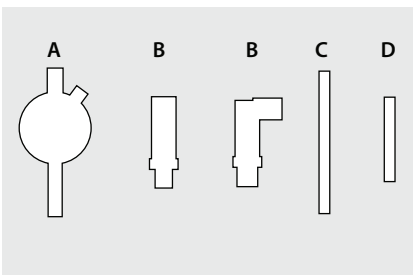


Part No.	Description
304772	Dial Gauge Timing Kit

CONTENTS

Tool Ref.	Toledo Tool No.	Description
A	A0409	Dial Gauge
B	A0178	Dial Gauge Adaptors
C	A0052	Extension 100mm
D	A0051	Extension 40mm

TOOL REFERENCE



INJECTOR PUMP TIMING KIT

- For use in the removal and installation of timing chains and cylinder heads
- Suitable for use on Bosch EP and VE Rotary, Lucas, CAV Rotodiesel, Peugeot, Nippon Denso, Kikki diesel injector pumps
- Set includes special purpose adaptors, extensions and dial gauge



Part No.	Description
304771	Injector Pump Timing Tool Kit

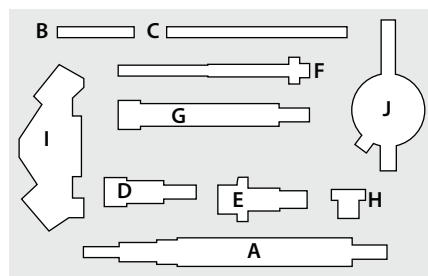
APPLICATION LIST*

Make	A	B	C	D	E	F	G	H	I	J	Make	A	B	C	D	E	F	G	H	I	J	
Alfa Romeo			•			•	•		•	•	Landrover			•				•	•		•	•
Audi			•	•		•	•		•	•	Mazda			•				•	•		•	•
BMW			•			•	•		•	•	Mitsubishi			•				•	•		•	•
Citroën	•	•			•	•					Nissan			•				•	•		•	•
Daihatsu			•			•	•		•	•	GM			•				•	•			
Fiat			•	•		•	•		•	•	Peugeot	•	•					•	•			
Ford			•	•	•	•	•		•	•	Renault			•	•	•	•	•	•		•	•
Isuzu			•			•	•		•	•	Seat			•				•	•		•	•
Iveco			•			•	•		•	•	VW			•	•			•	•		•	•
Lancia			•			•	•		•	•	Volvo			•				•	•		•	•

CONTENTS

Tool Ref.	Toledo Tool No.	Description
A	A0039	TDC Adaptor Assembly
B	A0051	Extension 40mm
C	A0052	Extension 100mm
D	A0078	M10 Adaptor Short
E	A0079	M8 Adaptor Short
F	A0128	Probe
G	A0140	M8 Adaptor Long
H	A0149	Threaded M8-M12 Adaptor
I	A0407	Mounting Bracket
J	A0409	Dial Gauge

TOOL REFERENCE



CAMSHAFT LOCKING TOOL

- For the locking of camshaft sprockets and belts during engine servicing and repairs
- Adjustable design featuring belt holders and universal sprocket wedge tools
- Suitable for universal use including SOHC and DOHC cam applications

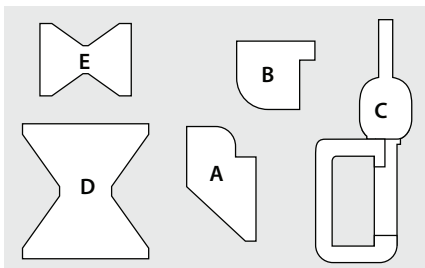


Part No.	Description
304770	Camshaft locking tool

CONTENTS

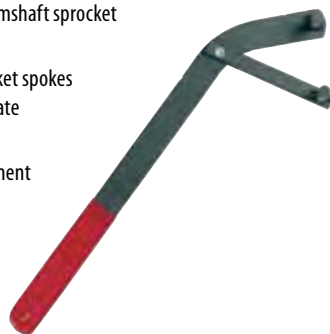
Tool Ref.	Toledo Tool No.	Description
A	A0187	Belt Tool
B	A0188	Belt Tool
C	A0242	Timing Belt Clamp
D	A0401	Timing Belt Clamp (Jaws)
E	A0402	Timing Belt Clamp (Jaws)

TOOL REFERENCE



CAMSHAFT HOLDING TOOL

- Designed to hold and manoeuvre the camshaft sprocket on OHC and DOHC engines
- Tool pins locate into the camshaft sprocket spokes to enable sprocket adjustment for accurate alignment and bolt tension
- Assists with camshaft timing belt alignment
- Overall length: 380mm



Part No.	Description
304195	Camshaft Holding Tool

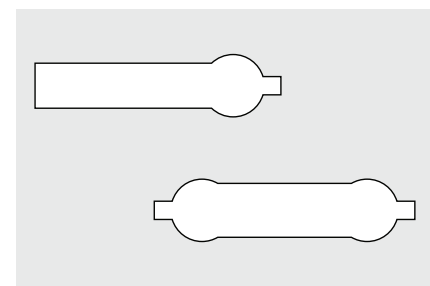
CAMSHAFT LOCKING TOOL

- Suitable for locking camshafts during engine servicing and repairs
- Adjustable design for universal vehicle applications



Part No.	Description
304773	Camshaft Locking Tool

TOOL REFERENCE



CAMSHAFT HOLDING & LOCKING TOOL

- Fully adjustable locking tool for toothed pulleys with spread ranging from 0mm to 60mm apart
- Ensures camshaft pulleys maintain fixed position during repair or timing belt replacement
- Universal design applicable for a large range of twin cam petrol or diesel engines
- Includes single cam sprocket holding tool
- Supplied in custom moulded plastic hard case



Part No.	Description
304037	Camshaft Holding & Locking Tool

BELT INSTALLATION KIT

- For use in the installation of flexible multi ribbed drive belts
- Suitable for use on vehicles fitted without automatic drive belt tensioners
- Enables easy damage free stretching of drive belt into the correct position whilst turning the crankshaft pulley by hand
- Contains 3 specially designed installation tools
- Applications include; BMW, Chrysler, Citroën, Ford, Mazda, Peugeot, Volvo

CAUTION Extreme care to be taken during use of this kit. Always refer to the vehicle manufacturer's specifications for correct installation procedures.

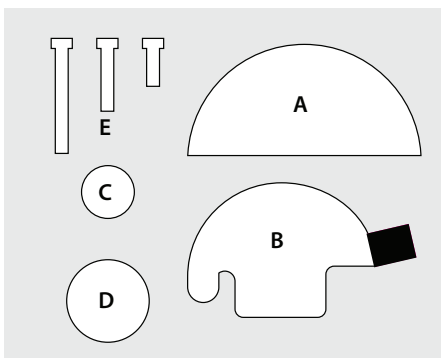


Part No.	Description
304775	Belt Installation Kit - Flexible Drive Belt Stretcher

CONTENTS

Tool Ref.	Description
A	Belt Tool
B	Belt Tool
C	Belt Tool
D	Belt Tool
E	Bolts

TOOL REFERENCE



BELT INSTALLATION KIT

- For use in the installation of flexible multi ribbed drive belts
- Suitable for use on vehicles fitted without automatic drive belt tensioners
- Enables easy damage free stretching of drive belt into the correct position whilst turning the crankshaft pulley by hand
- Contains 2 specially designed installation tools

CAUTION Extreme care to be taken during use of this kit. Always refer to the vehicle manufacturer's specifications for correct installation procedures

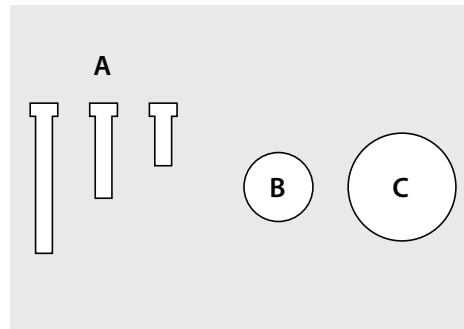


Part No.	Description
304776	Belt Installation Kit - Flexible Drive Belt Stretcher

CONTENTS

Tool Ref.	Description
A	Bolts
B	Belt Tool
C	Belt Tool

TOOL REFERENCE





ELECTRICAL & IGNITION

BATTERY	188
CIRCUIT TESTING	189
SOLDERING	191
PLIERS & CUTTERS	193
INTERIOR & DASHBOARD	198
IGNITION	200

BATTERY



BATTERY CARRIER
STRAP TYPE

- For the pick-up and transportation of batteries
- Designed to transfer lifting force to ensure a secure hold on the battery
- Scissor lock type jaws with serrated teeth ensure a positive grip on the side of the battery
- Reinforced, acid resistant and non-conductive vinyl strap
- Zinc plated carbon steel frames
- Fully adjustable for battery size
- Suitable for most top and side terminal batteries

Part No.	Jaw Opening (Max)	Load Capacity
303180	175mm	20kg



BATTERY CARRIER
FIXED HANDLE TYPE

- For the pick-up and transportation of batteries
- Tubular steel handle with ergonomic grip enables fast and safe handling of batteries
- Acid resistant serrated grip pads and non-slip ribbed vinyl handle ensure secure grip and firm hold
- Carrying arm extends to a maximum of 195mm via ratcheting tooth adjuster
- Fully adjustable zinc plated steel frames
- Suitable for most top and side terminal batteries

Part No.	Gripping Pads	Jaw Opening (Max)	Load Capacity
303181	80 x 35mm	195mm	20kg



BATTERY HYDROMETER

- Professional use hydrometer which takes ambient temperature into account when assessing specific gravity readings
- Built-in thermometer and float gauge compensates for temperature variations to provide more accurate reading of battery fluid condition and its state of charge
- Graduated scale on in-built meter advises the operator to add or subtract certain values above or beyond 26.6°C (80°F)
- Glass tube construction with acid resistant rubber moulded housing
- Determines specific gravity from 1.100 - 1.300

Part No.	Range	Overall Length
303183	1.100 to 1.300	340mm



BATTERY POST & TERMINAL CLEANERS

- Handy cleaning tools for battery maintenance
- Ideal for removing build-up of corrosion and rust
- Suitable for all applications including automotive, trucks, motorcycles, plant equipment etc.

Part No.	Description
303004	Double sided brass cleaning brush with 5/16" hex
303178	Battery post & terminal cleaner - 3 way
303177	Battery post & terminal cleaner - stainless steel



BATTERY TERMINAL RATCHET WRENCH

- Terminal bolt ratchet wrench
- Designed for use on 5/16" battery terminal bolts

Part No.	Size	Overall Length
303001	5/16" (8mm)	140mm



BATTERY TERMINAL SPREADING PLIERS

- For efficient cleaning and spreading of battery cable terminals and clamps
- Sharp teeth effectively clean corrosion from terminal
- Reinforced hardened jaws to avoid breakage

Part No.	Jaw Opening	Overall Length
303179	16 - 19mm	160mm



BATTERY TERMINAL PULLER

- For the removal of battery terminals, small gears, pulleys and bearings on electric motors
- Suitable for removing battery terminal clamps, including corroded spring type, without damaging the battery post

Part No.	Spread	Reach
303175	33mm	25mm

BATTERY & ALTERNATOR TESTER

- For testing battery condition and alternator charging voltage (13–14V)
- LED lights indicate battery and alternator charging voltage conditions
- For use on 12V vehicle applications only
- Plastic casing with magnet on reverse side for easy attachment and storage

Part No.	Range
302147	Battery: 5–12.5V / Alternator: 13–14V



CIRCUIT TESTING



POLARITY TESTER CORDLESS

- Professional cordless circuit testing tool designed to test polarity on any DC electrical circuits from 6–28V
- Computer safe, ideal for use around ECM's, sensors, air bags, transducers etc.

Part No.	Voltage	Overall Length
302146	6 - 28V (DC)	115mm



WIRE PIERCING GUIDE

- Specially for use in testing/piercing insulated wire
- Three wire locators, suitable for 1–4mm insulated wire

Part No.	Jaw Opening	Application Range	Overall Length
302003	16 - 19mm	1 - 4mm	160mm

CIRCUIT TESTING

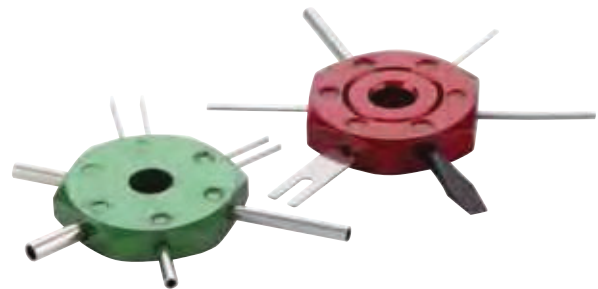


CIRCUIT TESTERS
STANDARD

- Circuit tools for testing low voltage DC electrical currents
- High impact resistant transparent body with steel probe (302148 - steel body)
- Crocodile clip
- Replaceable bulb (not available through Toledo)



Part No.	Description	Probe Length	Lead Length
302145	Standard circuit tester, retractable coil 6-24V (DC)	80mm	700 - 2500mm
302001	Extra-long circuit tester, retractable coil 6-24V (DC)	170mm	1000 - 3000mm
302144	Heavy duty circuit tester 6-24V (DC)	100mm	1500mm
302148	Metal body circuit tester 4-24V (DC)	12mm	185mm



CONTINUITY TESTER

- For the detection of open circuits in fuses, diodes, switches, sockets and wires
- Handy time saving tool suitable for all automotive electrical work on 6, 12 and 24 volt systems
- High impact transparent acetate handle with replaceable bulb (not available through Toledo)

WIRE TERMINAL SET

- Designed for easy and efficient removal of wires from connectors while eliminating any wire or connector damage
- Rectangular blades for pack-com terminals, flat blade to open connectors, fork for ALDL connector
- Prongs depress the "barbs" on conventional terminals
- Universal design suitable for most common vehicles



Part No.	Voltage	Probe Length	Lead Length	Overall Length
302190	6 - 48V (DC)	45mm	1200mm	200mm

Part No.	Prongs	Pieces
302027	6 per tool	2



CIRCUIT TESTER COMPUTER SAFE LED

- Computer safe LED testing tool is ideal for use on circuits where sensitive testing is required
- Suitable for testing injector pulse, automotive computer circuits and all primary automotive electrical circuits
- High impedance protects computer
- Impact resistant transparent acetate handle, stainless steel probe, LED polarity indicator, long lead and crocodile clip

Part No.	Voltage	Probe Length	Lead Length
302014	3 - 12V (DC)	75mm	1200mm



CIRCUIT TESTERS DIGITAL LCD

- Circuit testers for the trade professional with digital LCD display read out
- In-built LCD display within transparent shock proof plastic body
- Provides accurate voltage values to one decimal place
- Heavy duty flexible spring cord 700-3000mm

Part No.	Voltage	Resolution	Probe Length	Overall Length
302191	6 - 24V (DC)	0.1V (DC)	90mm	210mm
302192	12 - 48V (DC)	0.1V (DC)	90mm	210mm



DE-SOLDERING TOOL (SOLDER SUCKER)

- For the safe and easy removal of molten solder during soldering repair work
- Spring loaded action efficiently removes solder with powerful vacuum force
- Hold pump over molten solder and press release button to effectively suck up the targeted solder. The solder will enter the chamber and immediately be cooled and hardened for removal and disposal
- ESD safe conductive metal housing and Teflon nozzle
- Ideal for circuit boards
- Spares: Replacement nozzle set 5pc (Part No. 302121A)

Part No.	Overall Length x Diameter	Spares
302121	190 x Ø 20mm	302121A



SOLDERING AID TOOL PLIER STYLE

- Assists by holding wires together to enable them to be soldered together
- Insulated PVC dipped handles with click type lever for opening and closing jaws
- Simple to use - insert wires under holding clips and manoeuvre together until correct distance is achieved for soldering

Part No.	Jaw Opening	Overall Length
302120	10 - 62mm	250mm

SOLDERING



Bench mounting metal stand

SOLDERING IRONS

- Professional range of soldering irons to suit all requirements from small DIY hobby projects to more industrial heavy duty applications
- Robust Bakelite handle for strength and durability
- Ergonomic design with rubber grip handle which is comfortable, non-conductive and heat resistant
- Nichrome with sheet mica covered elements and long life tip
- Includes bench mounting metal stand for safe storage of iron while not in use
- Supplied with user guide detailing correct operation, proper care and maintenance
- SAA approved range is extensively tested
- *Spare: Three piece tip sets include a standard tip, straight flat tip and 45° angled flat tip*



Part No.	Description	Voltage	Heat Range	Tip Set Part No.	Image (Tip Set)
302100	Soldering iron 25W	240V AC	390-420°C	302100A	
302101	Soldering iron 40W	240V AC	450-480°C	302100A	
302102	Soldering iron 60W	240V AC	460-500°C	302102A	
302103	Soldering iron 80W	240V AC	500-550°C	302103A	
302104	Soldering iron 100W	240V AC	500-550°C	302104A	
302110	Soldering iron 30W	12V DC	420-450°C	302100A	

MERCHANDISER - SOLDERING IRONS

15 PIECE

- In store wall mount merchandiser provides a compact point of sale solution for soldering products
- Metal powder coated display rack
- Suits most common in store displays including pegboard and slat wall

Part No.	Contents	Description	Qty
NTMS01	302101	40 Watts (240V AC)	3
	302103	80 Watts (240V AC)	3
	302104	100 Watts (240V AC)	3
	302110	30 Watts (12V DC)	3
	302121	Desolder pump/solder sucker	3

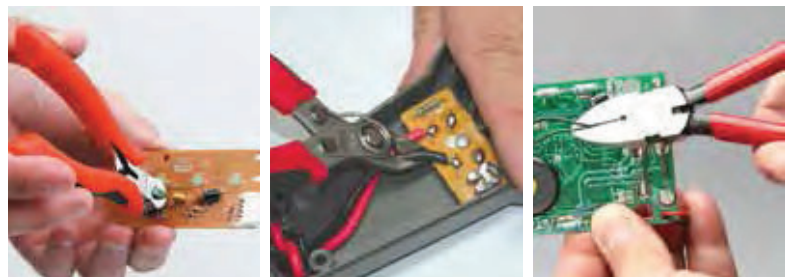




ELECTRONICS CUTTERS

MINI

- Mini electronics cutters for small and delicate jobs
- Hardened precision cutting edges for cutting and twisting soft wire
- Ergonomically designed with spring loaded jaws and durable rubber or PVC dipped handles
- Ideal for work with limited space and in confined areas, handling small objects, components and wires
- Not suitable for live electrical work



Part No.	Description	Handles	Cut Type	Jaw Opening (Max)	Jaw Length	Overall Length
EEC110	Mini electronics end cutter	Rubber moulded	Bevel	9mm	13mm	110mm
302041	Mini electronics end cutter	Rubber moulded	Flush	9mm	13mm	125mm
321006	Mini electronics precision cutter/Oblique end cutter	Rubber/Plastic moulded	Flush	15mm	11mm	135mm
PC6	Precision cutter	PVC dipped	Flush	20mm	20mm	150mm



ELECTRICAL MINI SERIES

- Handy pocket sized range of electrical tools including a crimper, cutter and stripper
- Ideal size for mobile use and accessing hard to reach applications
- CNC machined blades are precision ground
- Ergonomic PVC dipped handles
- Manufactured from durable SK5 carbon steel with black phosphate finish for durability



Part No.	Description	Application Range	Overall Length
302036	Mini wire STRIPPER	0.5 - 6.0mm ² /10-20 AWG	140mm
302037	Mini wire CUTTER	Ø 3.2mm	140mm
302038	Mini wire CRIMPER	0.5 - 6.0mm ² /10-22 AWG	140mm

CRIMPER
HEAVY DUTY
CABLE LUG

- Professional heavy duty hand crimper for cable lugs
- One stroke operation provides complete single crimp
- Easy sized adjustment using screw function
- Heat treated components for extra strength and durability



Part No.	Crimp Range	Overall Length
302024	10 - 120mm ²	650mm

PLIERS & CUTTERS



**CUTTER & STRIPPER
CABLE**

- Cable cutter and stripper with adjustable stripping knife in handle for longitudinal stripping
- Curved blade and dual ground cutting blades
- SK5 carbon steel stripping knife in handle with adjustable knob for depth enables removal of insulation longitudinally without damaging the cables
- Composite rubber and plastic handle provides comfort during extended use
- Manufactured from high grade carbon steel with black phosphate finish and SK5 steel blade in handle



Part No.	Stripping Range	Cutting Capacity (Max)	Overall Length
302035	0.5, 1.0, 1.5, 2.5, 4.0, 6.0mm ²	11mm	160mm



**ELECTRONICS PLIERS
MINI**

- Mini electronics pliers for small and delicate jobs
- Ergonomically designed with spring loaded jaws and durable rubber handles
- Ideal for work with limited space and in confined areas, handling small objects, components and wires
- Not suitable for live electrical work



Part No.	Description	Handles	Jaw Opening (Max)	Overall Length
EBN130	Mini long nose - angled tip 45°	Rubber dipped	26mm	130mm
302042	Mini long nose - angled tip 45°	Rubber moulded	26mm	150mm



**CUTTER & STRIPPER
WIRE RAPID ACTION**

- Designed for ultimate efficiency in wire cutting and stripping
- Self-adjusting hardened steel stripping blade that automatically selects the proper position
- Narrow reinforced fibreglass and nylon construction ensures long service life and easy access into confined spaces
- Lightweight and ergonomic design makes for easy stripping and cutting work
- Suitable for solid or stranded wires



Part No.	Stripping Range	Cutting Range	Overall Length
302039	0.2 - 6.0mm ² /10 to 24 AWG	2.0mm ² /14 AWG	190mm



**CUTTER & STRIPPER
WIRE QUICK ACTION**

- Quick-Action stripping tool designed to remove the insulation in one single motion without damaging the wire
- Unique clamp design holds wire in place while the lever action strips away the insulation
- Composite rubber and plastic handle provides comfort during extended use
- Zinc alloy die cast stripping head and S45C carbon steel body for maximum service life
- SK5 stripping and cutting blades ensure smooth operation every use



Part No.	Stripping Range	Cutting Range	Overall Length
302040	0.5 - 8.0mm ²	6mm ² /10 AWG	170mm

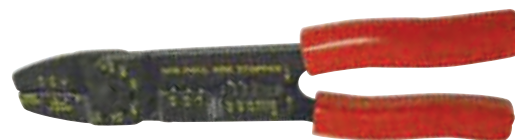
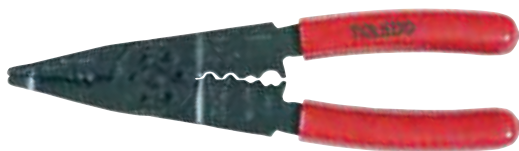


CRIMPERS
RATCHETING

- Heavy duty ratcheting crimpers for fast, efficient and professional crimp work
- Designed to achieve correct compression and superior electrical connection
- Manufactured from durable alloy steel with black phosphate finish for strength and durability



Part No.	Description	Handle	Crimp Range	Overall Length
302021	Plier style ratcheting crimper for insulated terminals	Plastic moulded	0.5 – 1.0mm ² (Red), 1.5 – 2.5mm ² (Blue), 4 – 6mm ² (Yellow) - 22 – 18, 16 – 14, 12 – 10 (AWG)	220mm
302023	Plier style ratcheting crimper	Plastic moulded	10mm ² (8 B&S) , 16mm ² (6 B&S) , 25mm ² (3 B&S)	200mm
CT16	High leverage ratcheting crimper	PVC dipped	1–2mm ² , 6mm ² , 10mm ² (8 B&S) , 16mm ² (6 B&S)	280mm
302020	High leverage ratcheting crimper	Rubber moulded	10mm ² (8 B&S) , 16mm ² (6 B&S) , 25mm ² (3 B&S) , 35mm ² (2 B&S)	325mm



CRIMPER, CUTTER & STRIPPER
7 FUNCTION TOOL

- Multi-function tool handy for DIY use, covering a range of jobs and applications
- Manufactured from durable alloy steel with black phosphate finish for strength and durability
- PVC dipped handles with black phosphate finished alloy steel main body

Part No.	Overall Length
302155	210mm
Application	Size
Crimper	Insulated & non-insulated terminals
Crimper	Auto crimp 7-8mm
Screw cutter	Machine screw sizes 4 – 40, 5 – 40, 6 – 32, 8 – 32, 10 – 24 & 10 – 32
Wire stripper	10 – 22 AWG/0.6 – 2.6mm ²
Long nose pliers	–
Side cutter	–
Wire cutter	–

CRIMPER, CUTTER & STRIPPER

- Multi-application tool for wire cutting, crimping insulated and non-insulated terminals, screw cutting and wire stripping
- Clearly marked applications on main body to assist in operation
- Ergonomically designed PVC moulded handles
- Manufactured from durable alloy steel with black phosphate finish for strength and durability



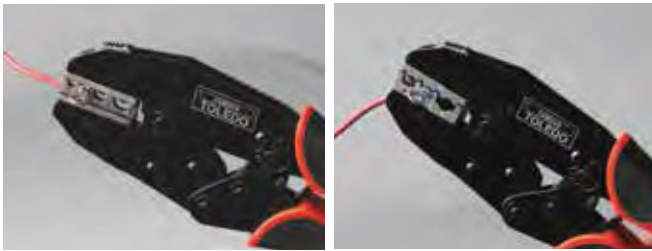
Part No.	Overall Length
CT2010	240mm
Application	Size
Insulated crimping range	1.5mm ² (Red), 2.0mm ² (Blue), 6.0mm ² (Yellow)
Non-insulated crimping range	1.5mm ² , 2.5mm ² , 4.0mm ² , 6.0mm ²
Wire stripping range	0.75mm ² , 1.0mm ² , 2.5mm ² , 4.0mm ² , 6.0mm ²
Screw cutting range	2.6mm, 3.0mm, 3.5mm, 4.0mm, 5.0mm

PLIERS & CUTTERS








CRIMPING KIT









RATCHETING INTERCHANGEABLE MULTI-HEAD

- Multi-head crimping kit with seven interchangeable jaws to suit different applications
- Ratchet crimping tool design with quick release, for high leverage superior terminal crimp work
- Heavy duty construction with hardened steel body and comfort rubber grip handles
- Supplied in custom moulded plastic hard case with jaw identification markings



Part No.	Heads	Overall Length
302018	7 x Interchangeable	220mm

Description	Size	Image
Multi-head ratcheting crimper 	Overall Length: 220mm Weight: 258g	
Die A: Insulated terminals 	22 – 18/16 – 14/12 – 10 (AWG) 0.5 – 1/1.5 – 2.5/4 – 6 (mm ²)	
Die B: Non-insulated terminals 	20 – 18/16 – 14/12 – 10/8 (AWG) 1.5/2.5/6/10 (mm ²)	
Die C: Open barrel terminals 	20 – 18/16 – 14/12 – 10 (AWG) 0.5 – 1/1.5 – 2.5/4 – 6 (mm ²)	

Description	Size	Image
Die D: Cord end terminals (Small AWG) 	22/20/18/16/14/12 (AWG) 0.5/0.75/1/1.5/2.5/4 (mm ²)	
Die E: RG type coaxial cable connectors 	0.255/0.213/0.100/0.068/0.324 (inch) 6.48/5.41/2.54/1.73/8.23 (mm ²) 58, 59, 62, 6 (RG)	
Die F: Cord end terminal (Large AWG) 	10/8/6 (AWG) 6/10/16 (mm ²)	
Die H: Open barrel terminal & D-Sub, V3.5 	14/22/8 – 6 (AWG) 2.5/0.5/8/10 (mm ²)	

CRIMPERS

D-SUB DEUTSCH 4 WAY INDENT

- Specialty crimpers for round barrel contacts, pins or sockets
- Built in locator ensures accurate positioning of the pin and socket prior to crimping
- Full cycle ratchet ensures consistent, reliable crimping action
- Superior pull strength with an adjustable pin height locator
- PVC dipped handles with black phosphate finished alloy steel main body
- Particularly common and useful in Harley Davidson and Caterpillar applications



321024



321025

Part No.	Description	Size	Overall Length
321024	D-Sub Deutsch 4 way indent crimper	AWG 26 - 20, 0.14 - 0.5 mm ² , RS232 D-sub 35 - 465	160mm
321025	D-Sub Deutsch 4 way indent crimper	AWG 20 - 12, 0.5 - 4.0 mm ² , Deutsch 16 pin contact	160mm

CRIMPER, CUTTER & STRIPPER

- Most popular in the range
- Simple, efficient and reliable units produce professional work
- Dual component plastic and rubber moulded ergonomic handles provide maximum strength, comfort and grip
- Manufactured from alloy steel with black phosphate finish for strength and durability
- Two options available - standard and heavy duty
- Part no. WS665 is designed for more intense and demanding use with a more robust design and dual spring head to ensure longevity and reliability
- Spares: Replacement spring set 4pc (Part No. WS665A)



WS210



WS665



Part No.	Description	Overall Length
WS210	Crimper, cutter, stripper - standard	210mm
Application	Sizing	Spares
Wire stripper	0.2 - 6mm ² /24 - 10 AWG	WS665A
Insulated terminals	0.5 - 6mm ² /22 - 10 AWG	
Non-insulated terminals	0.5 - 2.5mm ² and 4 - 6mm ² /12 - 10, 22 - 14 AWG	
Auto ignition terminals	7 - 8mm	

Part No.	Description	Overall Length
WS665	Crimper, cutter, stripper - heavy duty	210mm
Application	Sizing	Spares
Wire Stripper	0.2 - 6mm ² /24 - 10 AWG	WS665A
Insulated terminals	0.5 - 6mm ² /22 - 10 AWG	
Non-insulated terminals	0.5 - 2.5mm ² and 4 - 6mm ² /12 - 10, 22 - 14 AWG	
Auto ignition terminals	7 - 8mm	

CABLE TIE CUTTERS

PLASTIC & METAL

- Automatic tensions and cuts off cable ties to produce a safe, neat and professional finish
- Two options to cater for both plastic/nylon and metal cable ties



302500



CTC2065

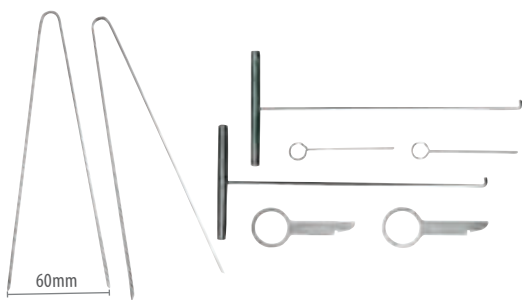
Part No.	Description	Cutting Capacity (Width x Thickness)	Overall Length x Width
302500	Cable tie cutter - Plastic	5 x 2mm	160 x 20mm
CTC2065	Cable tie cutter - Metal (including S/S)	12 x 0.3mm	220 x 100mm



AIR BAG REMOVAL KIT
EUROPEAN

- Workshop airbag removal kit suitable for many makes and models, but in particular European models
- Refer to workshop manual for tool requirements and specifications

Part No.	Description	Application	Qty	Code
313026	Airbag removal tools	Volkswagen Passat, Polo, Golf, Bora (late model) Audi A4 and A6	2	1
		Volkswagen Golf, Beetle (late model) Seat	2	2
		Volkswagen Golf (1998-2004), Passat (1997), Bora (1999)	1	3
		Volkswagen Passat 2000	1	4
		Volkswagen Passat, Jetta, Golf and Beetle (1999-2004)	1	5
	1/4" Sq. Dr. sockets	6 point T25 BMW	1	6
		6 point T30 Audi, GM, Renault, Volkswagen	1	6
		6 point tamperproof T25H BMW	1	6
		6 point tamperproof T30H Audi, BMW, Mercedes-Benz, GM	1	6
		Hex 5mm Audi	1	6

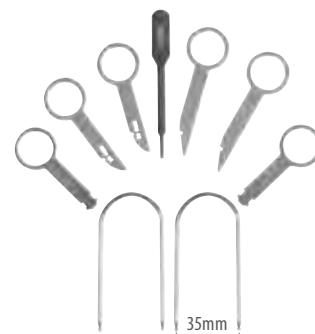


DASHBOARD SERVICE KIT
MERCEDES-BENZ

- Range of specialty tools designed for dashboard and auxiliary service work
- Ideal for removal and service work of meters, gauges, radios, locks and accessories
- Covers most Mercedes-Benz applications



Part No.	Description	Application
302153	Ignition lock removal tool	W124, W201
	Radio removal tools	MB vehicles 1992 onwards
	Instrument cluster removal hooks	W107, W116, W123, W124, W126, W140, W201



RADIO REMOVAL SET
EUROPEAN

- Specialty tool for radio removal and service work on European makes and models
- Handy and compact set of pocket sized tools supplied in tailored tool roll



Part No.	Description	Application	Size	Length	Qty
302178	U-Hooks	Ford/VW/Audi	3.2mm (Ø)	85mm	2
	Hex tip	BMW	2.3mm (hex)	85mm	1
	Key blade	New Beetle/Audi	9mm (width)	77mm	2
	Key blade	Mercedes-Benz	9mm (width)	67mm	2
	Key blade	VW	9mm (width)	61mm	2



RADIO REMOVAL & DASHBOARD SERVICE MASTER KIT

- Master specialty kit covers majority of Australian and New Zealand car parc
- Supplied in custom moulded plastic hard case with tool identification markings
- Vehicle application listing included
- Contains 52 pieces

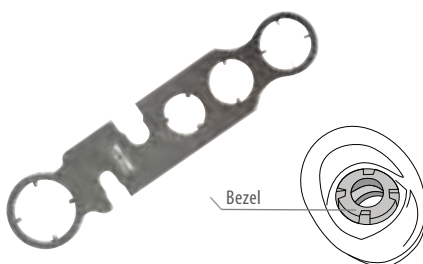
Part No.	Description	Qty	Description	Qty	Description	Qty
302017	No. 1 Keys	4	Long V-Hooks	2	E-4 Keys (Sony up to 2001)	2
	No. 2 Keys	2	Small Pin Keys	2	E-5 Keys (Panasonic)	2
	No. 3 Keys	2	U-Hooks	2	E-6 Keys (Panasonic up to 2006)	2
	No. 4 Keys	2	Pioneer & JVC Keys	2	E-7 Keys (Kenwood up to 1998)	2
	No. 5 Keys	2	BMW Pentagon Keys	1	E-8L Keys (Kenwood Mask)	2
	Double DIN Keys	2	Flat keys	2	E-9 Keys (Clarion late model)	2
	Allen keys	1	E-1 Keys (kenwood 98-01)	2	E-10 Keys (Clarion Double DIN)	2
	Bent U-Hooks	2	E-2 Keys (Sony up to 2002)	2	E-15 Keys (Sony up to 2005)	2
	T-Bar Hooks	2	E-3 Keys (Kenwood up to 2002)	2		



RADIO REMOVAL SET U-HOOKS

- Common radio removal tools consisting of two simple U-hooks for proper and efficient radio removal on popular vehicles
- Easy to use - simply insert U-hooks (2.5mm) into holes of radio face plate to release retaining clips, once retaining clips have been released, pull out the instrument panel using the U-hooks as handles

Part No.	Pin Distance x Pin Diameter
302156	35mm x 2.5mm



AERIAL/ANTENNA REMOVAL TOOL

- For the efficient, safe and damage free removal of aerials and antennas
- Tool removes the bezel that holds the antenna in place
- Suitable for most vehicles in the Australian car parc

Part No.	Overall Length
302175	185mm



IGNITION LOCK RELEASE TOOL

BMW & MINI

- A must have tool for any workshop carrying out BMW and MINI work
- Insert tool into the small hole on the lock cylinder. This will release the spring loaded lock and allow removal of the cylinder
- Plastic handle and angled metal prong for easy release

Part No.	Overall Length
302030	108mm



MEMORY RETAINING TOOL

- Memory retaining tool stores settings of radios, clocks and computer functions when vehicle battery is disconnected
- Used in conjunction with a standard 9V battery, produces enough charge to satisfy the relative components
- Easy to use - simply attach 9 volt battery and plug tool into 12V/cigarette lighter port to create charge

Part No.	Memory	Battery
302154	Up to 4 hours	9 volt



ALTERNATOR BIT SET
UNIVERSAL

- Comprehensive set of tools for alternator service work
- Enables efficient removal of “over running” alternator pulleys either ON or OFF the vehicle
- Specialty tools lock the alternator shaft into position while pulley retainer is removed
- Supplied in custom moulded plastic hard case



Part No.	Description	Specifications	Description	Specifications
302005	Alternator nut	4-point & 17mm hex tip	Hex alternator nut	33 tooth x 22mm
	Alternator combination bit socket	1/2" Sq. Dr. M10 (Spline 12 point) x 113mm	Hex bit adaptor	1/2" SQ. Dr. x 10mm
	Alternator combination bit socket	1/2" Sq. Dr. T50 (Torx 6 point) x 113mm	Torx bit	T40, T50
	Hex alternator nut	22mm	Spline bit	M8, M10
	Hex alternator nut	33 tooth x 17mm	Hex bit	8mm, 10mm



SPARK PLUG STARTER
UNIVERSAL

- Specialty tool to assist with easy installation and removal of spark plugs
- Flexible rubber design improves access to applications with limited space and in difficult locations
- Designed to hold the spark plug firmly during use

Part No.	Overall Length
302157	200mm

SPARK PLUG GAP GAUGE
METRIC & IMPERIAL

- For setting accurate spark plug gaps with easy to read markings to set gaps quickly
- Tapered hole for adjustment of electrode
- Simple to use - place spark plug onto the tapered gauge and turn until correct gap setting is obtained

Part No.	Specifications
302163	Metric: 0.5 - 2.5mm, Imperial: 0.020" - 0.100"

SPARK PLUG LEAD PLIERS
EXTRA LONG 200MM

- For the removal and replacement of recessed spark plug leads or deep seated spark plug boots
- Ergonomically designed and insulated rubber moulded handles are comfortable and firm gripping
- Manufactured from alloy steel

Part No.	Overall Length
302015	200mm



SPARK PLUG LEAD PLIERS
HEAVY DUTY NYLON

- Safe and efficient removal of spark plugs by gripping the spark plug wire boot to prevent possible wire damage

Part No.	Jaw Opening (Max)	Overall Length
302161	15mm	155mm



SPARK PLUG TESTER
FIXED JAW

- Professional spark plug testers check for non-start conditions and spark strength by simulating spark plug under compression load

Note: Markings on 302165 are measurements of kilowatt from 2 - 4kV. This is relevant for when testing coils

Part No.	Range	Lead Length
302165	2 - 4kV	Fixed



SPARK PLUG TESTER
FLEXIBLE LEAD

- Professional spark plug testers check for non-start conditions and spark strength by simulating spark
- Features large adjustment screw

Part No.	Range	Lead Length
302167	2 - 4kV	500mm



SPARK PLUG BOOT PLIERS

- Insulated pliers to protect against high voltage shocks when removing spark plug boots

Part No.	Jaw Opening	Overall Length
302160	15 - 25mm	210mm



DISTRIBUTOR CLAMP WRENCH SET
OFFSET

- Specially designed wrenches with eccentric shape enable access to hard to reach areas around the distributor

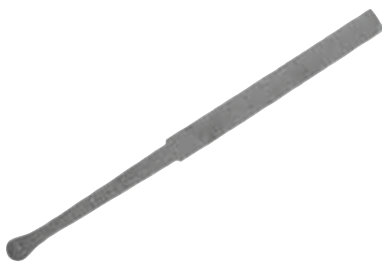
Part No.	Size
302173	1/2" & 9/16"



SPARK PLUG THREAD CHASER

- Tapered, double ended thread chaser to dress or repair 14mm and 18mm spark plug thread

Part No.	Sizes	Overall Length
302168	M14 x 1.25mm & M18 x 1.5mm	75mm



MULTI-PURPOSE ELECTRICAL FILE

- Ideal for ignition points and electrode cleaning

Part No.	Width	Thickness	Overall Length
301069	8mm	1.2mm	80mm



BULB PLIERS

- Specialty tool designed for proper maintenance and handling of automotive bulbs and fuses

Part No.	Jaw Opening (Max)	Overall Length
302022	30mm	160mm



IGNITION



IGNITION TESTER
IN-LINE HT LEAD/INDUCTIVE PICK-UP

- Inductive pick-up design to connect on to ignition (HT) lead to enable easy and safe ignition spark testing and problem diagnosis

Part No.	Probe Length	Lead Length
302166	100mm	1200mm



SPARK PLUG TESTER
IN-LINE HT

- Spark plug tester tool designed to connect between spark plug and ignition (HT) lead to enable quick and easy ignition spark testing and problem diagnosis

Part No.	Lead Length	Weight
302026	110mm	63g



SPARK PLUG TESTER SET
IN-LINE HT

- Special four piece set designed to connect to spark plug and ignition (HT) lead
- Enables checking of cylinder firing sequence simultaneously

Part No.	Length	Pieces
302158	72mm	4



302176



302300

SPARK PLUG THREAD INSERT KITS

- Spark plug thread insert kits for the repair and service of stripped spark plug holes in aluminium cylinder heads

Part No.	Size
302176	Tap 14mm, Inserts 10, 11, 13, 19mm
302300	Tap 18mm, Inserts 11, 13, 16, 21mm



302225



302224



302222



302223



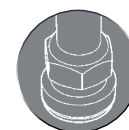
302224

302223

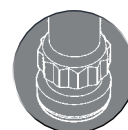
SPARK PLUG SOCKETS
BI-HEX

- For easy removal and installation of spark plugs in deep recesses with limited or difficult access including wider ceramic high performance type plugs
- Knurled barrel for non-slip grip and inbuilt heavy duty rubber spark plug retainer to hold plug in socket

Bi-Hex Design provides increased strength compared to a traditional hex design, allowing for a more compact spark plug socket without compromising strength requirements.



Traditional Hex Design



Bi-Hex Design

Part No.	Description	Square Drive x Size x Length
302225	Bi-hex 14mm short	3/8" x 14mm x 90mm
302224	Bi-hex 14mm long	3/8" x 14mm x 250mm
302222	Bi-hex 16mm (5/8") long	3/8" x 16mm x 250mm
302223	Bi-hex 21mm long	3/8" x 21mm x 250mm



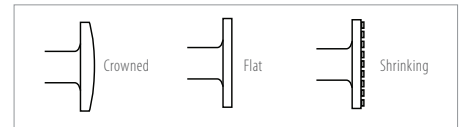
BODY & INTERIOR

PANEL & BODY	204
TRIM & INTERIOR	208
WINDSCREEN & WINDOWS	212

PANEL BEATING HAMMERS

- Professional panel beating hammers with octagonal designed genuine hickory handles and polished forged induction hardened heads
- Heads are designed to cope with the everyday rigours of a professional workshop and will not crack or chip
- Double wedge design fastens the head and handle together through interlocking steel and wood
- Ergonomic design specifically balanced to ensure force concentration

Note: Crowned hammers feature red highlights, Flat & Shrinking hammers feature dark blue highlights



Part No.	Description	Type	Face 1 (Round)	Face 2	Length	Weight
313055	Pein and finishing	Crowned	Ø 40mm	Straight pein	330mm	420g
313056	Pein and finishing	Crowned	Ø 40mm	Curved pein	330mm	430g
313057	Pick and finishing	Crowned	Ø 40mm	Pick	330mm	410g
313058	Bumping - standard	Flat	Ø 40mm	Square 38mm	330mm	450g
313059	Bumping - light	Crowned	Ø 40mm	Square 28mm	330mm	410g
313060	Shrinking	Flat - round, Shrinking - square	Ø 40mm	Square 38mm	330mm	430g
313061	Shrinking - heavy duty	Shrinking - round, Shrinking - square	Ø 40mm	Square 38mm	330mm	430g

PANEL BEATING DOLLIES & SPOONS

- Professional panel beating dollies ground and polished to a mirror finish
- Heat treated forged steel ensures high durability and strength which is paramount for effectiveness and safety
- Comprehensive range to cater for all requirements of the professional workshop

Part No.	Description	Length	Width	Height	Weight	Image
313004	Curved dolly	130mm	60mm	40mm	1085g	
313005	Toe dolly	120mm	55mm	25mm	1400g	
313006	Thin toe dolly	120mm	55mm	25mm	925g	
313007	Grid dolly	120mm	57mm	25mm	1400g	
313009	Dual hand dolly	65mm	60mm	75mm	1200g	
313050	Angle dolly	110mm	60mm	20mm	625g	
313051	Shrinking dolly	120mm	57mm	25mm	1400g	
313052	Utility dolly	70mm	70mm	65mm	1400g	
313003	HD mould spoon	240mm	50mm	60mm	1200g	
313049	HD pry spoon	290mm	50mm	35mm	710g	



PANEL BEATING KIT
7 PIECE

- Professional seven piece set supplied in custom moulded plastic hard case
- Contains popular panel beating hammers and dollies

Part No.	Contents	Description	Qty
313002	313055	Pein & finishing hammer	1
	313058	Standard bumping hammer	1
	313060	Shrinking hammer	1
	313004	Curved dolly	1
	313005	Toe dolly	1
	313009	Double end hand dolly	1
	-	Heel dolly (N/A Separately)	1



DOLLY SET
PLASTIC, 12 PIECE

- For use when working with aluminium due to its high abrasion resistance and non-corrosive contact with aluminium
- Cushions impact for less metal stretch and paint damage
- Ideal for door skins and thinner metal panels
- Polyoxymethylene (POM) is an engineered thermoplastic which is high in stiffness, but low in friction and has excellent dimensional stability

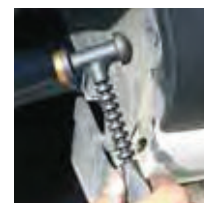
Part No.	Description	Qty	Description	Qty
313090	Bolster head dolly	1	Curved head chisel dolly	1
	Crease alignment tool	1	Double end dolly	1
	Curved dolly	1	Double end head dolly	1
	General purpose dolly	1	Toe dolly	1
	Heel dolly	1	Utility dolly	1
	Round head chisel dolly	1	Wedge dolly	1



PRECISION HAMMER 8 OZ
MINI DUAL FACE

- Fitted with one steel face and one rubber face that delivers precise force
- Handle features built in pry bar to remove trim without damage
- Lightweight and compact design enables use in confined areas
- Ideal for delicate interior and exterior applications

Part No.	Face (Round)	Overall Length	Weight
321039	Ø 24mm	170mm	8 oz



PRECISION HAMMER SET 8 OZ
MULTI-HEAD

- Precision hammer set with six interchangeable screw on heads - brass (round & flat) stainless steel, aluminium, rubber and polyurethane
- Unique neck design for a controlled strike and force centralisation
- Handy wedge handle is suitable for use as a trim remover
- For various applications where force is required without damaging the surface
- Ideal for delicate interior and exterior applications
- Supplied in custom moulded plastic hard case

Part No.	Description	Image	Description	Image
321046	Brass round (flat)		Aluminium round (convex)	
	Brass round (convex)		Rubber round (convex)	
	Stainless steel round (convex)		Polyurethane (flat)	
	Hammer Overall length: 170mm, Face (Round): Ø 24mm			



DENT REMOVAL KIT
SLIDE HAMMER

- Slide hammer dent puller kit designed for pulling out dents and creases from panels with ease
- Comprehensive kit is suitable for the professional workshop
- Not suitable for DIY use, trained professionals use only
- Supplied in heavy duty steel storage case

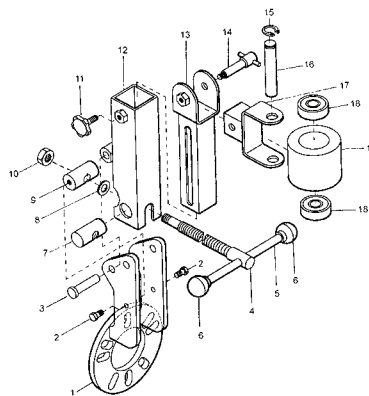
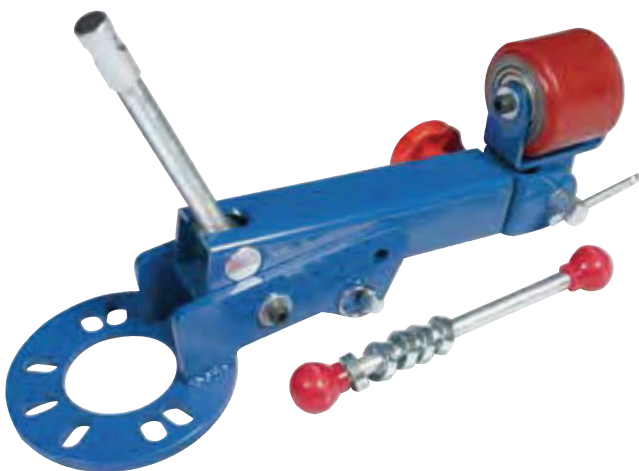
Part No.	Weight
313036	Slide hammer 6Kg



DENT REMOVAL KIT
SLIDE HAMMER, MANUAL VACUUM

- Heavy duty and durable suction dent puller with slide hammer to assist in panel reshaping
- Maintains a solid and secure grip without damaging the painted surface of the panel, while the 2.5kg slide hammer eases out the dent
- Manual vacuum pump for complete portability
- Three varied sizes of suction pads and one hook
- Supplied in custom moulded plastic hard case

Part No.	Description	Specifications
313028	Slide hammer assembly	2.5Kg x 730mm
	Suction cup small	Ø 75mm
	Suction cup medium	Ø 100mm
	Suction cup large	Ø 125mm
	Hook	Ø 70mm



WHEEL ARCH REFORMER TOOL

- Designed to reform or enlarge mudguards without having to remove body panels from vehicle
- Robust steel construction, built to withstand the rigours of heavy duty use
- Wheel adaptor hub plate suits three, four or five stud wheels
- Suitable for use on front or rear panel modifications and repairs
- Full list of spares available to ensure this tool can maintain a lifetime of operation
- Supplied in plastic hard case

Part No.	Description
313400	Wheel arch reformer tool
Item No.	Description
1	Hub plate
2	Screw
3	Locating pin
4	Propelling screw
5	Screw long
6	Acorn nut
7	Fixed guide rod
8	Washer
9	Link
10	Locking nut
11	Adjustment screw
12	Swivel arm
13	Support adjustment
14	Locking screw
15	C-Clamp
16	Axle pivot
17	Frame bearing
18	Bearing
19	Roller



SANDER/ABRASIVE HOLDER
SPRING RETAINING CLIPS

- Sand paper holder uses a pair of heavy duty spring clips to easily and firmly grasp the sand paper
- Use gliding technique to efficiently shape the work piece
- Ergonomically designed with comfortable handle and hand rest
- Polished wooden finish ideal for use in marine applications

Part No.	Pad Size (L x W)	Overall Length
313063	400 x 70mm	400mm



BODY BLADES & HOLDER
FLEXIBLE

- Suitable for forming and shaping fillers and metal during repair body work
- Double sided flexible blades to suit a wide range of metals and plastic
- Body blade holder featuring knurled centre nut is used to adjust holder for flat, convex or concave applications
- Aluminium body with steel adjusters

Part No.	Description	Specifications
313064	Body blade holder - metal	355mm
313086	Double sided body blade for plastic body fillers	6.5 TPI
313085	Double sided body blade for soft metals	9 TPI
313084	Double sided body blade for metal body panels	12 TPI



BODY BUMPING FILE

- Professional body bumping file with curved serrated steel blade
- Ideal for flattening bumps and dents and for semi-finishing work on body
- Milled serrated teeth help prevent metal stretch
- PVC dipped handle

Part No.	Width	Overall Length
313082	35mm	350mm



PANEL CLAMP PACK
BODY WELDING

- Holds panels in place during welding and repairs
- Ideal for aligning and gripping panels for precision butt welds

Part No.	Jaw Width	Pieces
313303	15mm	5



SPOT WELD REMOVER
SINGLE 10MM

- For efficient removal of spot welds on car panels
- Double ended blade for reversal
- Arbour 1/4" with retractable pilot
- Use with 1/4" or larger variable-speed drills
- Manufactured from alloy steel
- Spares: Replacement blade set 3 Pc. (Part No. 313302)

Part No.	Arbour x Blade	Spares
313301	1/4" x 10mm	313302

BODY & INTERIOR

PANEL & BODY

BODY REPAIR KIT HYDRAULIC 10 TONNE


















- Multipurpose kit contains 15 adaptors and accessories for all body repair, construction and general automotive work
- Comprehensive kit makes light work of straightening, bending, pressing or spreading steel
- Hydraulic porta power jack style with quick connect design makes operation fast and efficient
- Supplied in heavy duty custom mould plastic case with castor wheels for easy portability



Part No.	Description
313029	Hydraulic Body Repair Kit



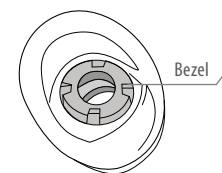
Spares

313029A  Hydraulic Ram	313029B  Hydraulic Hand Pump	313029C  Hose	313029D  Hydraulic Spreader Ram	313029E  V-Base 90°	313029F  Male Connector	313029G  Flat Base	313029H  Spreader Ram Toe	
313029J  Spreader Plunger Toe	313029K  Rubber Head 80mm	313029L  Serrated Saddle	313029M  Wedge Head	313029N  Extension Tube 610mm	313029P  Extension Tube 530mm	313029Q  Extension Tube 255mm	313029R  Extension Tube 125mm	313029S  Small black component

TRIM & INTERIOR REMOVAL WORK

AIR BAG REMOVAL KIT EUROPEAN

- Workshop airbag removal kit suitable for many makes and models, but in particular European models
- Refer to workshop manual for tool requirements and specifications
- Supplied in custom moulded plastic hard case



Part No.	Description	Application	Ref No.	Pieces
313026	Airbag removal tools	Volkswagen Passat, Polo, Golf, Bora (late model) Audi A4 and A6	1	2
		Volkswagen Golf, Beetle (late model) Seat	2	2
		Volkswagen Golf (1998-2004), Passat (1997), Bora (1999)	3	1
		Volkswagen Passat 2000	4	1
		Volkswagen Passat, Jetta, Golf and Beetle (1999-2004)	5	1
	1/4" Sq.Dr. sockets	 6 point T25 Suits BMW	6	1
		 6 point T30 Suits Audi, GM, Renault, Volkswagen	6	1
		 6 point tamperproof T25H Suits BMW	6	1
		 6 point tamperproof T30H suits Audi, BMW, Mercedes-Benz, GM	6	1
		 Hex 5mm suits Audi	6	1

AERIAL/ANTENNA REMOVAL TOOL

- Specialty tool for the efficient, safe and damage free removal of aerials and antennas
- Removes the bezel that holds the antenna in place
- Suitable for most vehicles on the Australian carpark
- Made of steel

Part No.	Overall Length	Weight
302175	185mm	77g

TRIM & INTERIOR REMOVAL WORK

RADIO REMOVAL & DASHBOARD SERVICE MASTER KIT

52 PIECE

- All in one specialty tool kit for servicing the majority of vehicles on the Australian car parc
- Supplied in custom moulded plastic hard case with tool identification markings
- Supplied with vehicle application listing
- Universal kit to suit majority of Australian car parc

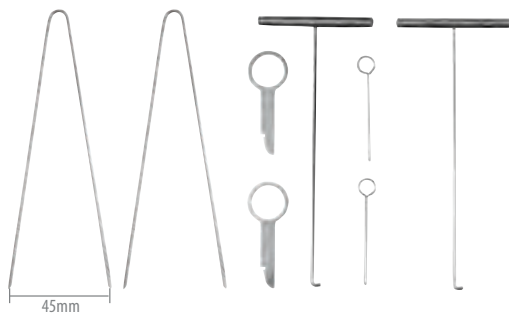


RADIO REMOVAL SET U-HOOKS

- Common radio removal tools consisting of two simple U-hooks for proper and efficient radio removal on popular vehicles
- Simple to use: Insert U-hooks (2.5mm) into holes of radio face plate to release retaining clips, once retaining clips have been released, pull out the instrument panel using the U-hooks as handles

Part No.	Description		
302017	No. 1 Keys	Long V-Hooks	E-4 Keys (Sony up to 2001)
	No. 2 Keys	Small Pin Keys	E-5 Keys (Panasonic)
	No. 3 Keys	U-Hooks	E-6 Keys (Panasonic up to 2006)
	No. 4 Keys	Pioneer & JVC Keys	E-7 Keys (Kenwood up to 1998)
	No. 5 Keys	BMW Pentagon Keys	E-8L Keys (Kenwood Mask)
	Double DIN Keys	Flat keys	E-9 Keys (Clarion late model)
	Allen keys	E-1 Keys (kenwood 98-01)	E-10 Keys (Clarion Double DIN)
	Bent U-Hooks	E-2 Keys (Sony up to 2002)	E-15 Keys (Sony up to 2005)
	T-Bar Hooks	E-3 Keys (Kenwood up to 2002)	

Part No.	Pin Distance x Pin Diameter	Weight
302156	35 x 2.5mm	28g



DASHBOARD SERVICE KIT MERCEDES-BENZ

- Professional tool kit of specialty tools designed for dashboard and auxiliary service work
- Ideal for removal and service work of meters, gauges, radios, locks and accessories
- Covers most Mercedes-Benz applications



Part No.	Description	Application
302153	Ignition lock removal tool	Include: W124, W201
	Radio removal tools	MB vehicles 1992 onwards
	Instrument cluster removal hooks	W107, W116, W123, W124, W126, W140, W201



RADIO REMOVAL SET EUROPEAN

- Tailored set for radio removal and service work on European makes and models
- Handy and compact set of pocket sized tools supplied in tailored tool roll



Part No.	Description	Application	Size	Length	Qty
302178	U-Hooks	Ford/VW/Audi	3.2mm	85mm	2
	Hex tip	BMW	2.3mm (hex)	85mm	1
	Key blade	New Beetle/Audi	9mm (width)	77mm	2
	Key blade	Mercedes-Benz	9mm (width)	67mm	2
	Key blade	VW	9mm (width)	61mm	2

TRIM & INTERIOR REMOVAL WORK



PRYING & SMOOTHING KIT

- For light duty prying small plastic trim clips, interior bezels, woodgrain trims and key fobs etc
- Ergonomic centre grip provides a comfortable grip
- Three piece set with six different ends
- Suitable for smoothing epoxy adhesives or silicone uniformly, removing or installing O-rings and gaskets
- Manufactured from nylon fibres which is lightweight but strong
- Supplied in storage wallet

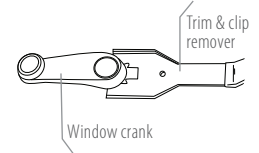
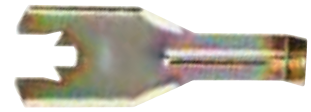
Part No.	Overall Length	Weight
313313	108mm	12g



BELT MOULDING REMOVAL TOOL

- Handy tool for quick and easy belt moulding removal
- Designed to remove the belt mould without damaging the painted surface of the door
- Insert between window glass and door, engage moulding clips with tool blade and pull up to release clips
- Plastic and rubber dual composite handle for strength and comfort
- Manufactured from chrome vanadium steel with dual component rubber and plastic handle

Part No.	Overall Length
313027	250mm



DOOR HANDLE REMOVAL TOOL

- Easily removes window crank retainer clip and door handle clip, without damaging trims
- Extra length and offset body for the removal of internal handles
- Durable light weight steel construction
- Apply tool to the handle clip for instant removal without damage to upholstery

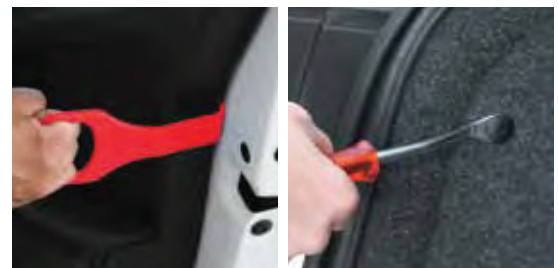
Part No.	Jaw Opening	Overall Length
313295	26mm	180mm



TRIM & CLIP REMOVAL TOOLS

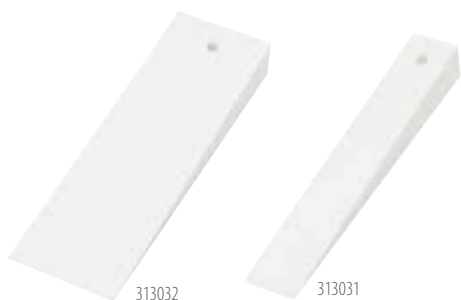
- A mix of different tools used for all types of damage free removal of trims, mouldings, dashboards, fascia's, roof linings, air bags, window cranks, door panels and clips etc.
- Essential tools for work which involves the removal and re-fit of interior and exterior trims
- Comprehensive range covers the majority of applications in passenger vehicles and light commercials

Note - Most popular options are part numbers 313030 & 313311



Part No.	Description	Material	Size	Overall Length	Pieces
313000	Trim & clip remover 3 in 1	Steel w/ powder coating	10 & 15mm	230mm	1
313030	Trim & clip remover set - Premium made in Japan	Plastic handle & steel body	5 - 7 & 6 - 9mm	165 & 200mm	2
313293	Trim & clip remover 2 in 1	Steel w/ powder coating	15 & 20mm	220mm	1
313294	Trim & clip remover 10 in 1	Steel w/ PVC dipped body	-	250mm	1
313297	Trim & clip remover U-Notch	Plastic handle & steel body	10mm	290mm	1
313311	Trim & clip remover set	Plastic	-	170 - 180mm	5

TRIM & INTERIOR REMOVAL WORK



PANEL WEDGES

- For the removal of door panels, wood grain trims, dashboard fascia, emblems etc.
- Tool for removal without causing damage to paintwork or dash etc.
- Smooth tapered design enables easy insertion
- High impact resistant nylon



Part No.	Size
313031	30 x 190mm
313032	60 x 200mm



HINGE PIN EXTRACTOR SET

- Essential tool set used for safe and accurate installation and removal of hinge pins
- Ergonomic design with PVC dipped centre body
- Includes three different sized hinge pins
- Suitable for pin removal and installation
- Spare parts: Replacement hinge pin set 3 Pc. (Part No. 313299)

Part No.	Specifications	Spares
313298	3, 5 & 5.5 x 110mm	313299



SUCTION PAD CLAMP SET
PLASTIC 6 PIECE

- Ideal for holding down trims, badges, windcreens, rain and light sensors on windcreens etc. during repair or whilst waiting for adhesives to set
- Adjustable suction clamps will not mark after being removed
- Manufactured from durable plastic with octagonal rubber suction pads
- Suitable on most non-porous surfaces such as metal or glass



Part No.	Pad Size (Octagonal)	Pieces
321106	80mm (flat to flat)	6

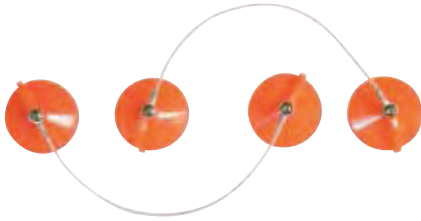


SCRAPER SET
NYLON GENERAL PURPOSE 4 PIECE

- General purpose nylon scrapers useful for delicate tasks such as removing badges, mouldings, decals, silicone gaskets, plastic parts, alloy wheel balancing weights etc.
- Manufactured from reinforced nylon for maximum strength and durability

Part No.	Description
321031	Scraper straight flat 48mm
	Scraper angled 45° flat 48mm
	Scraper angled split 14 x 20 x 14mm
	Scraper straight split 14 x 20 x 14mm

WINDSCREEN & WINDOWS



SUCTION CUPS
WINDOW HOLDERS

- Used for safe removal and replacement of vehicle windscreens
- Also suitable for use when working on window regulators to retain door glass
- Used by looping cables over door frame and attaching suction cups to each side of the glass
- Set contains two pairs of suction cups (4) attached via a flexible steel cable

Part No.	Pad Size	Load Capacity
313307	Ø 62mm	20kg



WINDSCREEN REMOVAL TOOL

- For the removal of bonded windscreens
- Precision cut blade and knurled grips
- Blade can be reshaped and sharpened for further use
- Cuts through the windscreens rubber surround using the hardened carbon steel blade
- Supplied with one blade only
- Spares: Replacement blade 3 Pc. Set (Part No. 313310)

Part No.	Spares
313309	313310



WINDSCREEN INSTALLATION & REMOVAL KIT

- Complete tool kit for the installation and removal of rubber screens including commercial vehicle screens
- Includes rope insert tools, assorted tips for the insert tool, curved hook tool, straight hook tool and cleaning tool for the removal of broken glass pieces trapped in the side runners (preventing the need to remove the side runners)
- Reinforced composite handles with heat treated, chromed steel shafts
- Handles include hanging eyes for storage

Part No.	Pieces
313308	11



313074



313075

SUCTION CUPS
ALUMINIUM BODY

- For safe and easy handling of windscreens
- Firm locking function securely grabs window during removal and transportation
- Robust aluminium construction with heavy duty rubber pads
- Applicable on most non-porous surfaces such as metal or glass



Part No.	Description	Pad Size	Load Capacity
313074	Single suction cup	Ø 120mm	20kg
313075	Double suction cup	Ø 115mm	25kg



PANEL/SLAB CARRYING SET
HEAVY DUTY PAIR

- Trade professional set ideal for carrying glass and windscreens
- Ergonomic handles with large rubber pads firmly secure glass
- Light weight and robust aluminium construction
- Also suitable for carrying stone slabs, counter tops and other sheet goods
- Supplied in heavy duty carry case



Part No.	Load Capacity	Pad Size	Jaw Opening (Max)
321107	160kg	80 x 200mm	40mm



LUBRICATION SERVICE

GREASE GUN INFORMATION & TROUBLE SHOOTING	214
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Toledo grease guns are a premium quality option. This market leading range is manufactured using highest grade materials to ensure maximum safety, strength and durability. The comprehensive range covers a wide range of styles to cater for all industries including automotive, industrial, marine, mining and DIY applications. The Toledo grease gun range will satisfy any minor or major jobs with their outstanding performance.

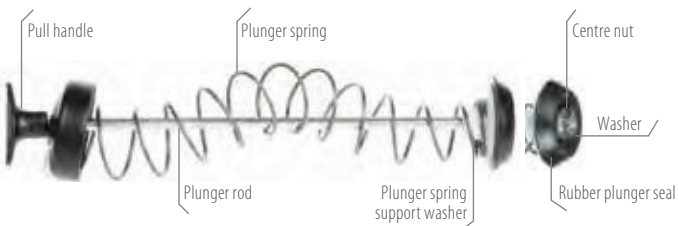
MAINTENANCE

1. Thoroughly clean grease gun BEFORE and AFTER use. A lint free cloth to wipe the grease gun will ensure a good grip while operating, and will extend the life of your grease gun. A suitable degreaser can be used if required to assist clean up
2. Store the grease gun in a cool dry place and out of sunlight. Heat and contaminants can alter the condition of the grease
3. Check grease flow before use. It is recommended to squeeze a small amount of grease onto a rag to check flow and condition of grease
4. Prevent grease contamination. Always label grease guns with grease contents. If different grease types are required, it is always advised to use separate grease guns for each type of grease (Incorrect grease for application can result in significant damage or failure)

PLUNGER ASSEMBLY (BULK VS CARTRIDGE)

The configuration of the plunger assembly varies depending on whether or not the gun is being used with a cartridge or bulk fill grease. Plunger adjustment/reassembly is required if application is varying between the two. Plunger reassembly instructions are detailed below

Caution: The plunger spring of the grease gun is under tension when assembled. Always take caution when switching plunger assembly. Do not aim plunger assembly at yourself or another person and eye protection should always be worn for safety



Note: Toledo grease guns are supplied ready for cartridge use. If the gun is to be used with a cartridge it is pre-primed and ready for immediate use

1. Unscrew barrel from grease gun head
- 2a. Secure grease gun in vice. Do not over tighten
- 2b. If you are unable to stabilise with a vice, have another person hold the barrel with the pull handle firmly pressed against the bench and plunger facing upwards
3. Push down the rubber plunger just enough to enable the release of tension on the centre nut

CAUTION: The rubber plunger is under load due to the pressure of the plunger spring, loosening the centre nut without pushing plunger down will cause the parts to accelerate rapidly from barrel. Take extra time and care when carrying out this step

4. Continuing to hold down the plunger spring, carefully undo the centre nut with a wrench
5. Once the centre nut is removed slowly release tension back out to enable the removal of the plunger seal
6. Flip over the plunger seal to the required position and refit it to the coil spring
7. Once again apply enough downward pressure on the plunger seal to enable the reapplication of the centre nut by screwing it into place

PLUNGER ROD LOCKING

LEVER LOCK STYLE

- **To LOCK** the grease gun - Pull the plunger rod all the way back until it automatically locks into position
- The lever lock will automatically hold the plunger rod
- **To RELEASE** the lock - Slightly pull the plunger rod back a bit further, press and hold the lever lock to slowly release



NOTCHED LOCK STYLE

- **To LOCK** the grease gun - Pull and hold back plunger rod until the recess on rod passes the notch and then manipulate the rod into the smaller notch recess where it will engage and hold
- **To RELEASE** the lock - Slightly pull the plunger rod back a bit further and manipulate the rod back into the larger notch and release slowly



EAR LOCK STYLE

- **To LOCK** the grease gun - Pull and hold back plunger rod until ears on rod pass through the notch
- Once it passes through the notch turn plunger rod to lock in position (Note: You may be required to pull and turn simultaneously to locate the notch)
- **To RELEASE** the lock - Slightly pull plunger rod back and align the ears with notch opening and slowly release



LOADING



Cartridge
plunger assembly
(supplied like this)



Bulk fill
plunger assembly

PUMP FILL

- Plunger must be assembled for **bulk fill**
- Ensure the bulk loader valve is compatible for use with the filler pump
- Attach grease gun to filler pump
- Initiate filling and only stop once it becomes difficult to pump any more grease in
- Wipe off any excess grease
- Bleed air as necessary



Note: The number of strokes required to completely fill the grease gun will vary between pumps

SUCTION FILL

- Unscrew barrel from gun
- Plunger must be assembled for **bulk fill**
- Place barrel into grease bucket 3/4 deep
- Pull back plunger rod very slowly, to minimise any air intake, and begin sucking in the grease
- Wipe away any excess grease before screwing back on and reattaching to grease gun head
- Bleed air as necessary



HAND FILL

- Unscrew barrel from gun
- Plunger must be assembled for **bulk fill**
- Pull plunger rod back and move to locked position
- Use a spatula to fill barrel with grease
- Wipe away any excess grease before screwing back on and reattaching to grease gun head
- Bleed air as necessary



CARTRIDGE FILL

- Unscrew barrel from gun
- Plunger must be assembled for **cartridge fill**
- Pull plunger rod back and move to locked position
- Remove end caps from cartridge and insert into barrel
- Screw barrel back on to grease gun head and release plunger rod
- Bleed air as necessary



AIR BLEEDING

GREASE GUNS WITHOUT BLEEDER VALVE

- After filling with grease, but before returning plunger rod, reapply barrel to grease gun head by screwing it back in but **ONLY 2 - 3 turns**
- Release plunger rod. This will automatically result in gradual bleeding (Note: some grease may be expelled out of threads)
- Wait several minutes until re-tightening barrel all the way and wipe off any excess grease
- Pump a few times until grease comes out of nozzle steadily



GREASE GUNS WITH PUSH TYPE BLEEDER VALVE

- After filling with grease, but before returning plunger rod, reapply barrel to grease gun head by screwing it back in completely
- Release plunger rod and depress air valve to bleed air
- Plunger rod may not fully return first time, repeat process until plunger rod is fully returned
- Pump a few times until grease comes out of nozzle steadily



GREASE GUNS WITH AUTOMATIC BLEEDER VALVE

- There is no need to take any action. The air bleeder valve does not have a spring and remains open which results in automatic bleeding once the plunger is released from locked position. The natural pressure will result in the rise of the bleeder valve and any air will be dispensed through two holes in the bleeder valve which also results in faster more efficient bleeding



CORRECT GREASE FLOW

- Grease should discharge smoothly, steadily and consistently

TROUBLESHOOTING

Issue	Cause	Solution
Little or no grease being dispensed	Air lock/pockets in grease	Ensure grease gun is correctly primed by following the air bleeding procedures for the respective grease gun
	Thickened grease due to cold weather	Heat up cartridge with heat source. Do not use an open flame as this could result in injury and damage to the grease gun
	Blocked nozzle/extension	Remove extension and inspect for blockage or obstruction
	Rubber plunger not sealing correctly	Unscrew cartridge and inspect plunger condition. Ensure the plunger is set up correctly for either bulk or cartridge use
	Grease gun is empty	Refill canister with new cartridge or bulk fill
	Kinked or split hose extension	Inspect rubber hose for damage and replace if necessary
	Damaged air release valve	Requires repair or replacement
	Rubber plunger did not engage cartridge correctly	Always try to use plastic body cartridges over paper style as they give a firmer edge for the rubber plunger to engage with. It may require some manipulation and manoeuvring of the plunger rod to achieve success
Leaking grease from rear of gun	Incorrect plunger assembly	Reassemble plunger to correct position for bulk or cartridge use
	Contaminated grease	Immediately remove remaining grease from the gun and thoroughly clean. Some types of grease may produce a film of oil when in storage for a period of time
	Grease is too thin & potentially mixed with oil	Use thicker NLGI grade 2 grease
Leaking grease from front of gun	Loose or damaged threads	Inspect threads and tightness of nozzle Tighten further if required It is highly recommended to use Teflon thread tape to assist proper operation Replace/Apply thread tape
	Canister not properly secured	Remove and inspect threads and seal on cartridge and re-tighten
Lever/trigger difficult to operate	Seized internals	Inspect pivot points on lever for damage and seizure. If found damaged, it is recommended to replace the gun
	Obstruction in nozzle	Clean nozzle and remove obstruction. Inspect grease nipple for fault
Handle seizure resulting in loss of function and operation	Major failure of the grease gun	Grease gun needs to be replaced

GREASE GUN COUPLERS

- Clean grease nipple before connecting grease gun
- For a positive connection, push grease coupler straight on

Note: Do not use excessive force. If it is difficult to connect, check for any obstruction and if coupler is suitable for the nipple

- To safely disconnect, tilt coupler to one side, gently twist and pull simultaneously
- Wipe off any excess grease



GREASE GUNS

LEVER GREASE GUNS

- Reliable range of lever style grease guns for general purpose lubrication in automotive, agricultural, industrial, mining and DIY applications
- Head assembly incorporates a single bleeding vent hole with lock nut
- Air release is achieved by a single half turn of the grease gun head
- Durable powder coated finish



305217



6,000 psi
(413 bar)



CARTRIDGE
LOADING



FILLER PUMP
LOADING



SUCTION
FILL

Part No.	Description	Includes	Bulk Capacity	Pressure	Output	Thread
305102	Lever style 400g	Steel extension 150mm, 4 jaw coupler	500cm ³	6000 psi (413 bar)	1g/stroke (1oz/28 strokes)	1/8" BSPT
305217	Lever style 450g	Steel extension 150mm, 4 jaw coupler	650cm ³	6000 psi (413 bar)	1g/stroke (1oz/28 strokes)	1/8" BSPT

LEVER GREASE GUNS

HEAVY DUTY

- High quality range of heavy duty lever style grease guns for general purpose lubrication in automotive, agricultural, construction and industrial applications
- Robust thick barrel, heavy duty follower spring, CNC machined heads and large rolled threads for fast, efficient and reliable reloading
- Inbuilt variable stroke function is ideal for applications in confined spaces
- Incorporates a bulk loader and automatic air release valve
- Grease gun bleeding is automatic or can be achieved by a simple half turn of the grease gun head
- Durable powder coated finish



Heavy duty head and
air bleeder valve



305098



Non slip
textured finish

Ergonomically
designed rubber grip

305219

Unique lock lever mechanism
allows user to easily lock
plunger rod in any position



Rugged and robust zinc
plated lever handle



10,000 psi
(690 bar)



CARTRIDGE
LOADING



FILLER PUMP
LOADING



VARIABLE
STROKE



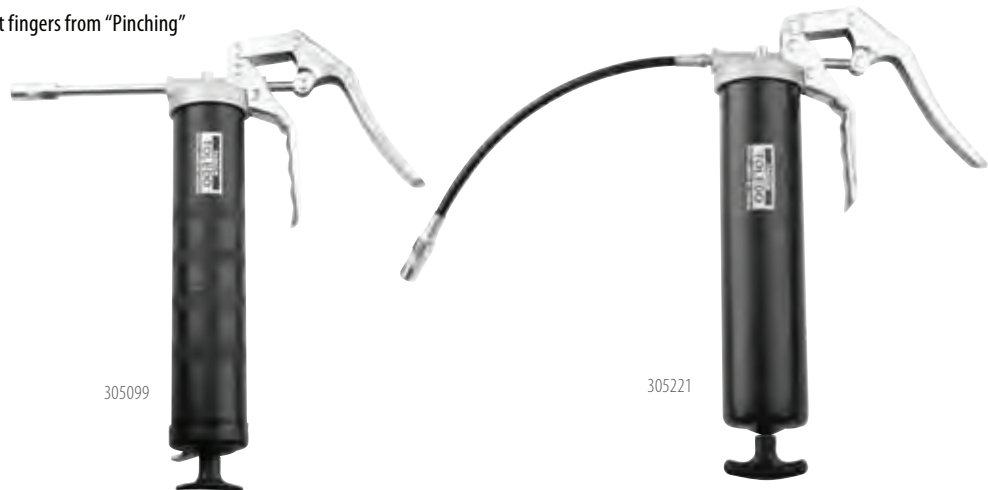
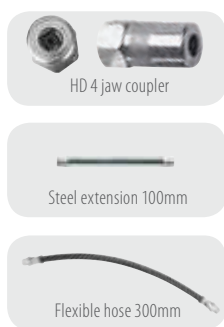
SUCTION
FILL

Part No.	Description	Includes	Bulk Capacity	Pressure	Output	Thread
305098	Lever style - Heavy duty 400g	Steel extension 150mm, flexible hose 300mm, HD 4 jaw coupler	500cm ³	10,000 psi (690 bar)	1g/stroke (1oz/28 strokes)	1/8" BSPT
305219	Lever style - Heavy duty 450g	Steel extension 150mm, flexible hose 300mm, HD 4 jaw coupler	650cm ³	10,000 psi (690 bar)	1g/stroke (1oz/28 strokes)	1/8" BSPT

PISTOL GREASE GUNS

HEAVY DUTY

- High quality range of heavy duty pistol grip grease guns for general purpose lubrication in automotive, construction and industrial applications
- Most popular one hand operated grease gun designed for use in confined spaces or where access to grease nipple is restricted
- Robust thick barrel, heavy duty follower spring, CNC machined heads and large rolled threads for fast, efficient and reliable reloading
- Heavy duty aluminium die cast head and super strong pistol grip handle
- Pistol handle designed to prevent fingers from "Pinching"
- Durable powder coated finish



5,000 psi
(345 bar)



CARTRIDGE
LOADING



SUCTION
FILL

Part No.	Description	Includes	Bulk Capacity	Pressure	Output	Thread
305099	Pistol style - Heavy duty 400g	Steel extension 100mm, flexible hose 300mm, HD 4 jaw coupler	500cm ³	5000 psi (345 bar)	0.5g/stroke (0.7oz/40 strokes)	1/8" BSPT
305221	Pistol style - Heavy duty 450g	Steel extension 100mm, flexible hose 300mm, HD 4 jaw coupler	650cm ³	5000 psi (345 bar)	0.5g/stroke (0.7oz/40 strokes)	1/8" BSPT

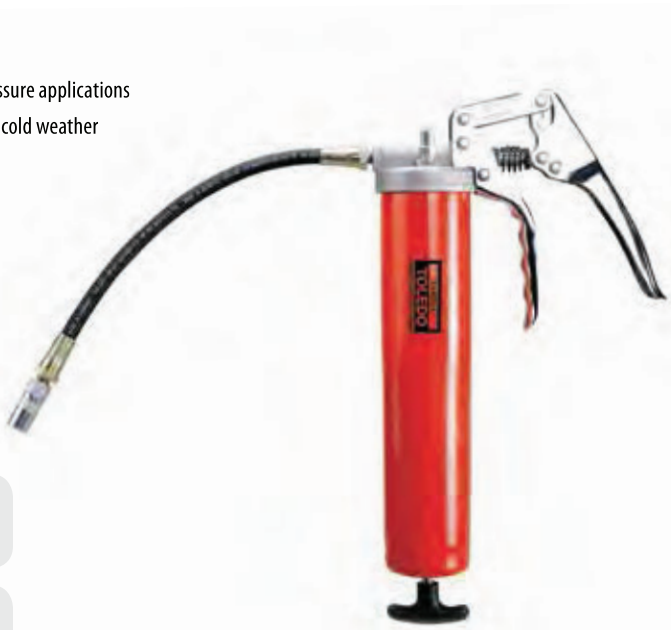
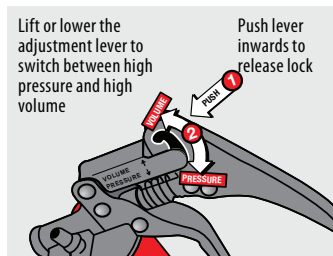
PISTOL GREASE GUN

PROFESSIONAL EXTRA HEAVY DUTY

- The ultimate grease gun and the highest specification option in the range
- Designed for heavy duty daily use and built to last a lifetime
- Ergonomically designed grease gun for one handed operation
- Unique adjustable stroke mechanism for both high volume and high pressure applications
- High volume enables faster greasing and high pressure for ease of use in cold weather
- Change in stroke achieved through simple press of the movable handle
- Solid 11mm diameter piston for more grease discharge per stroke
- Robust aluminium die cast grease gun head with bulk filler
- Rolled cylinder threads offer maximum strength

UNIQUE ADJUSTABLE MECHANISM HIGH PRESSURE / HIGH VOLUME

High pressure for use in cold weather
High volume for faster greasing



7,000 psi
(480 bar)



CARTRIDGE
LOADING



FILLER PUMP
LOADING



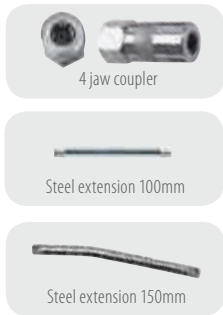
SUCTION
FILL

Part No.	Description	Includes	Bulk Capacity	Pressure	Output	Thread
305385	Pistol style - professional extra heavy duty 450g	Flexible hose 300mm, HD 4 jaw coupler	650cm ³	7000 psi (480 bar)	0.84g/stroke (1oz/36 strokes)	1/8" BSPT

GREASE GUNS

MINI GREASE GUNS

- High quality range of mini grease guns for general purpose lubrication in automotive, agriculture and DIY applications
- Compact mini grease guns are ideal for “on the go” use and are easily stored away in tool boxes
- Pistol version features a discharge port on both the front and top of gun head
- Double powder coated finish



305222



305444



CARTRIDGE LOADING

Part No.	Description	Includes	Pressure	Output	Thread	Thread
305222	Pistol style - Mini 85g	Steel extension 100mm, 4 jaw coupler	3500 psi (240 bar)	0.40g/stroke (0.6oz/40 strokes)	1/8" BSPT	1/8" BSPT
305444	Lever style - Mini 85g	Steel extension 150mm, 4 jaw coupler	6000 psi (413 bar)	0.55g/stroke (0.8oz/40 strokes)	1/8" BSPT	1/8" BSPT

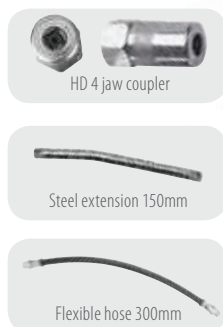
CLEAR CANISTER GREASE GUNS

- High quality range of clear canister guns for general purpose lubrication in automotive, defence, food and beverage, industrial and marine applications
- Unique concept and design that allows quick and clear lubricant identification, thus eliminating the risk of cross contamination or mixing of incompatible lubricants
- Tough, impact resistant and drop resistant polycarbonate tube with aluminium die cast adaptors
- High tolerance aluminium die cast head with bulk loader and air release valve
- Pinpoint if air pockets exist and their location
- Lever style features variable stroke function for ease of use in confined spaces



DESIGNED FOR USE WITH GREASE ONLY

Do not use with ESTER based Greases, Synthetic Greases such as Aeroshell 33 Grease, Aeroshell 7 Grease, Skydrol Products etc. These have an adverse effect on the clear polycarbonate tube & can cause fogging, cracking & fracturing of the tube.



305141
305101



305140
305100



SUCTION FILL



CARTRIDGE LOADING

Part No.	Description	Extension	Bulk Capacity	Pressure	Output	Thread
305140	Lever style - Clear canister 400g	Steel extension 150mm, HD 4 jaw coupler	500cm ³	10000 psi (413 bar)	1g / stroke (1oz / 28 strokes)	1/8" BSPT
305100	Lever style - Clear canister 450g	Steel extension 150mm, flexible hose 300mm, HD 4 jaw coupler	650cm ³	10000 psi (413 bar)	1g / stroke (1oz / 28 strokes)	1/8" BSPT
305141	Pistol style - Clear canister 400g	Steel extension 100mm, flexible hose 300mm, HD 4 jaw coupler	500cm ³	5000 psi (345 bar)	0.50g / stroke (0.70oz / 40 strokes)	1/8" BSPT
305101	Pistol style - Clear canister 450g	Steel extension 100mm, flexible hose 300mm, HD 4 jaw coupler	650cm ³	5000 psi (345 bar)	0.50g / stroke (0.70oz / 40 strokes)	1/8" BSPT

PNEUMATIC GREASE GUNS

- Pneumatic operated grease guns ideal for use in factory maintenance, agricultural applications, fleet service or for use on trucks connected to vehicle air brake compressors
- 305041: Delivers automatic action, continuous grease discharge with the trigger pressed
- 305223: Intermittent operation, a single shot of grease is discharged with every press of the trigger
- Ergonomic pistol grip and acute angle design allows for ease of operation, especially in narrow spaces
- Heavy duty aluminium die cast head with internal bore precision honed for rapid action
- Air inlet threaded 1/4" NPT and supplied with a male quick connect coupler fitting
- Head casting fitted with bulk loader valve
- Double powder coated finish

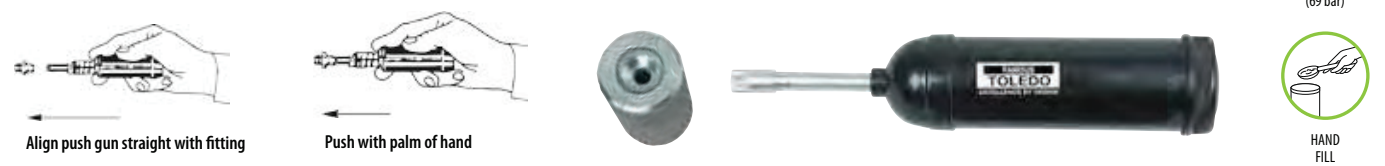


Part No.	Description	Includes	Bulk Capacity	Operating Range	Compressor Volume	Output	Thread
305041	Pistol style pneumatic - Continuous 450g	Steel extension 150mm, HD 4 jaw coupler	650cm ³	40-120 psi (3-8 bar)	1 cfm/0.026m ³	≥ 400g/min (14oz / min)	1/8" BSPT
305223	Pistol style pneumatic - Intermittent 450g	Flexible hose 300mm, HD 4 jaw coupler	650cm ³	40-120 psi (3-8 bar)	1 cfm/0.026m ³	≥ 0.90g / shot (1oz / 32 shots)	1/8" BSPT

PUSH TYPE GREASE GUN

BULK ONLY

- Push type grease gun is for bulk grease and suitable for Industrial and DIY applications
- Compact toolbox size, ideal for greasing impact wrenches, lawn mowers, chain saws, trailers, ATV's, autos & trucks etc.
- Black powder coated finish and supplied with universal connector that adapts to most grease fittings
- Compatible for use with hydraulic coupler



Part No.	Description	Includes	Pressure	Output	Output	Thread
305224	Push type - 125cm ³	Rigid steel 30mm	1,000 psi (69 bar)	0.90g / shot (1oz / 32 shots)	0.84g/stroke (1oz/36 strokes)	1/8" BSPT

LUBRICATION

GREASE GUNS

PUSH TYPE GREASE GUN

MINI

- Ideal for greasing in hard to reach areas in model planes, toys, fishing reels, automotive and marine parts
- Supplied with grease tube
- Spares: Replacement grease tube 100g (Part No. 305029)



Part No.	Description	Overall Length	Replacement Grease Tube
305028	Push type - Mini 100g	180mm	305029

GREASING ACCESSORIES

GREASE GUN HOSES

FLEXIBLE HEAVY DUTY

- High performance hoses improve reach to nipples with limited access
- Superior construction - inner tubing is polyamide with polyurethane sheathing, reinforced diagonally in highly tear resistant polyester
- Heavy duty zinc plated end connections hydraulically crimped to the hose
- Rolled threads for extra strength and available in varying lengths
- Large inner diameter makes them ideal for use in cold weather



WORKING PRESSURE
3,500 psi (240 bar)

BURST PRESSURE
11,600 psi (800 bar)



SUITABLE FOR HAND AND AIR OPERATED
GREASE GUNS

NEVER USE BEYOND RECOMMENDED WORKING PRESSURE

Part No.	Description	Diameter (Inner/Outer)	Working Pressure / Burst Pressure	Thread	Useful Tips
305234	Flexible heavy duty hose 300mm	Ø 4.1/10.8mm	5,800 psi (400 bar) / 13,775 psi (950 bar)	1/8" BSPT	Always buy a good quality hose. Accidents caused by poor quality hose can cause fatal injury
305235	Flexible heavy duty hose 450mm	Ø 4.1/10.8mm	5,800 psi (400 bar) / 13,775 psi (950 bar)	1/8" BSPT	
305236	Flexible heavy duty hose 500mm	Ø 4.1/10.8mm	5,800 psi (400 bar) / 13,775 psi (950 bar)	1/8" BSPT	



QUICK CONNECT GREASE GUN HOSE

- The quick connect hose converts a steel extension coupler assembly on grease guns to a flexible hose and allows the gun to be used for greasing hard to reach fittings
- Spring guard fitted on the coupling end provides rigidity making the coupling end snap easily onto grease fittings
- Grease fitting on the opposite end of the hose snaps conveniently onto all couplers



WORKING PRESSURE
3,500 psi (240 bar)

Part No.	Description	Working Pressure
305244	Flexible quick connect hose 410mm	3,500 psi (240 bar)

STEEL EXTENSIONS

RIGID

- Rigid steel extensions with bright zinc plated finish
- High strength rolled threads on both ends



FOR HAND OPERATED
GREASE GUNS



6,000 psi
(413 bar)

Part No.	Description	Working Pressure	Thread
305233	Straight type 100mm	6,000 psi (413 bar)	1/8" BSPT
305357	Bent type 150mm	6,000 psi (413 bar)	1/8" BSPT

HYDRAULIC COUPLERS

4 JAW

- Heat treated, fully hardened spring steel jaws for longer service life
- Spring loaded ball check mechanism to assist retaining pressure
- Hexagonal nut allows easy tightening



305231 Coupler:
Hardened body withstands high pressures without deformation. Hexagonal nut allows easy tightening



305232 HD Coupler:
Hardened body with double wall thickness withstands very high pressures without deformation. Hexagonal nut allows easy tightening

Double wall thickness



Advantage:
4 jaws allow greater working angle



Part No.	Description	Overall Length	Diameter	Working Pressure	Thread	Qty
305231	Hydraulic coupler (hand operated g/g)	37.5mm	Ø 15mm	6,000 psi (423 bar)	1/8" BSPT	1
305360	Hydraulic coupler (hand operated g/g)	37.5mm	Ø 15mm	6,000 psi (423 bar)	1/8" BSPT	10
305232	Hydraulic coupler (hand & pneumatic operated g/g)	37.5mm	Ø 15mm	10,000 psi (690 bar)	1/8" BSPT	1

NEEDLE NOSE ADAPTORS

- Professional narrow needle design for greasing flush or hard to reach hydraulic type fittings in inaccessible areas
- Used to dispense a fine line of grease



305237
305238

305246

305247

305239

305242

305240

305241

305245



FOR HAND OPERATED GREASE GUNS

Part No.	Description	Needle Length	Needle Diameter	Tip Diameter
305237	Grease injector needle w/plastic protector	38mm	Ø 18 gauge	Ø 1.02mm
305238	Grease injector needle w/plastic protector	38mm	Ø 21 gauge	Ø 0.71mm
305246	Needle nose adaptor - quick connect	100mm	Ø 6.40mm	Ø 1.16mm
305247	Needle nose adaptor - quick connect	38mm	Ø 4.00mm	Ø 1.16mm
305241	Needle nose dispenser	150mm	Ø 3.96mm	Ø 1.17mm
305239	Needle nose dispenser	15mm	Ø 5.56mm	Ø 1.17mm
305240	Needle nose dispenser	38mm	Ø 3.96mm	Ø 1.17mm
305242	Needle nose dispenser with shroud	15mm	Ø 5.56mm	Ø 1.17mm
305245	Recessed lube adaptor - quick connect	81.5mm	Ø 8.00mm	Ø 5.80mm



GREASE GUN LIGHT

- For illumination in dark areas and hard to reach places to enable easy location of grease fittings
- An extremely useful mini accessory to attach onto all grease gun steel extensions and flexible hoses
- Allows technician to monitor the process to ensure that the grease fitting is not over lubricated
- Slim construction with a very powerful LED with plastic bracket assembly to easily click onto extension
- Batteries included



Part No.	Batteries (Included)	Weight
305505	Button cell LR41 x 3	12g



GREASE GUN HOLDER
HEAVY DUTY

- Heavy duty grease gun holder suitable for automotive, industrial, construction and farm applications
- Sturdy all steel construction with four bolt mounting suitable for workshop or mobile van or trailer
- Suitable for most 400g and 450g grease guns with body diameters from 57 - 63.5 mm



Part No.	Dimensions	Range
305001	65 x 180mm	57 - 63.5mm



BEARING PACKER
THREADED CENTRE

- Bearing packer with threaded centre post for use with grease guns
- Designed to flush out old grease from bearing without having to degrease bearings first
- Suitable for regular greasing applications as well as in conjunction with a flexible hose
- Suitable for cars, trailers, light trucks and motorcycles

Part No.	Range (I.D. x O.D. x H)
305230	12 x 125 x 6 - 50mm



BEARING PACKER
PORTABLE



- Handy tool for quickly packing bearings
- Simple to use - Insert bearing in the bearing packer, connect grease gun to nipple and old grease is forced out and evenly replaced with fresh grease
- Unique design allows for mess free operation
- Suitable for cars, trailers and light trucks

Part No.	Range	Size
305150	50 - 95mm	Ø 95 x 130mm



BEARING PACKER
HEAVY DUTY

- Heavy duty bearing packer suitable for heavy vehicle and industrial applications
- Simple to use - Apply pressure and old grease will be easily forced out and evenly replaced by fresh grease
- Unique design allows for mess free operation
- Grease can be filled manually or with a grease gun
- Made from high quality durable aluminium alloy

Part No.	Range	Weight
305161	120 - 170mm	5.8kg



GREASE FILLER DISPENSER
HEAVY DUTY

- Forces out old grease from bearings and evenly replaces with fresh grease
- Simple operation and sits on top of a 20 litre grease drum for mess free operation
- Inbuilt cover keeps grease free from contaminants
- Ideal for all heavy vehicle, industrial and agricultural applications

Part No.	Range	Application
305155	100 - 200mm	20L drums

GREASING ACCESSORY KIT

- Kit includes a range of quick connect lube accessories, suitable for the most difficult greasing jobs
- Effective lubrication of grease plugs, sealed bearings, push on greasing of recessed fittings or fittings in shoulders, low height areas or an extension for reaching deep areas
- Quick connect hose converts steel extension coupler assembly on grease guns to a flexible hose and allows the gun to be used for greasing hard to reach fittings
- Supplied in custom moulded plastic hard case

Part No.	Description	
305030	Needle nose grease dispenser	Grease hose 500mm
	Extension coupler	Grease hose with spring 500mm
	Angle lube adaptor	Grease hose 300mm
	Lockable swivel coupler	Needle nozzle

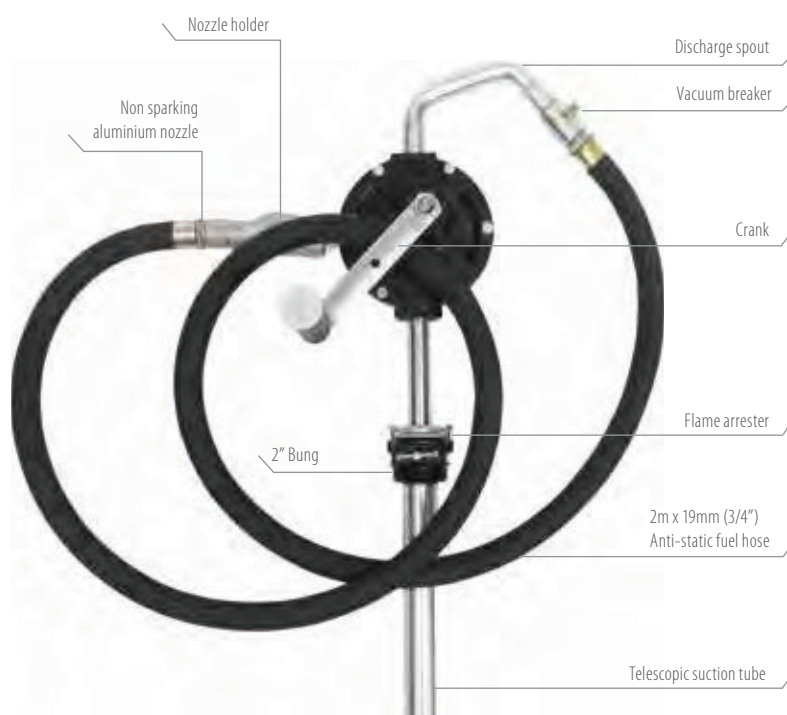


PUMPS & ACCESSORIES

ROTARY DRUM PUMP

HEAVY DUTY

- Heavy duty industrial self priming pump suitable for automotive, construction, industrial applications that require a robust and strong pump to endure harsh working conditions
- Solid cast iron construction, Computer Numerical Control (CNC) machined
- Pump handle rotates a sintered powder metal 3 vein rotor inside a pumping chamber
- Graphite veins are self lubricating and non-wearing
- Graphite seals allows the pump to be used with a wide variety of fluids including diesel and petrol with up to a 15% ethanol blend
- Supplied complete with 2" bung, telescopic suction tube with strainer, 2000mm anti-static hose, nozzle, nozzle holder, flame arrester and vacuum bleeder
- Not recommended for use with water based media
- For use with class 1 and 2 flammable and combustible liquids such as Petrol, Naphtha, Alcohols and other solvents
- Wetted components: Cast Iron, Steel, Graphite, Paper, Polypropylene

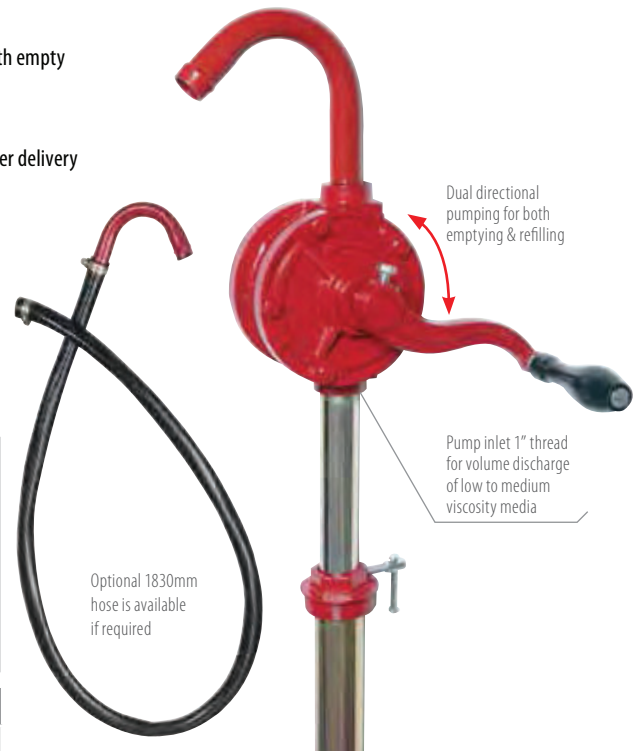


Part No.	Output	Application	Bung Size
305019	38L/Minute	50 - 205L drums (15 - 55 gallons)	50.8mm (2")

ROTARY DRUM PUMP

- Very popular and versatile pump offers dual directional operation which allows the pump to both empty and refill containers
- Extremely heavy duty construction built to endure all requirements of a professional workshop
- Sturdy cast iron pump housing with two heavy duty cast iron vanes for better draw and smoother delivery
- Internals feature high grade nitrile seals to ensure long term, reliable performance
- Includes telescopic suction tube with bung adaptor and locking screw
- Ideal for use in agricultural, automotive, construction and professional workshop applications
- Suitable for transfer of diesel, kerosene, heating oils, motor oils, lubricating oils (up to SAE 90) and non-corrosive fluids of light to medium viscosity
- Not suitable for water based media, antifreeze, solvents, acids and gasoline etc.
- Optional hose assembly 1830mm available Part No. 305359

Note: When using with low viscosity media, the pump can be primed by adding 30ml of the media into the pump outlet



Part No.	Application	Output	Bung Size	Weight
305251	50 - 205L drums (15 - 55 gallons)	5L/20 Turns	50.8mm (2")	6.6kg

LEVER DRUM PUMPS

HEAVY DUTY

- Most popular pump style with level function designed for the transfer of fluids such as lubricants
- A floating steel check valve allows liquids to drain back from pump when not in use
- Premium powder coated steel pump body with ribbed section aluminium die cast pump head for maximum strength
- Includes curved metal spout and telescopic suction tube, 38mm (1½") and 50.8mm (2") bung adaptors
- Built-in 1½" & 2" bung for use on drums with either openings
- Plated steel lever handle with rubber grip for convenience
- Wear resistant brass piston rings fitted onto zinc die cast piston
- Not suitable for use with water based fluids, corrosive media, gasoline etc.
- Wetted components: Steel, Aluminium, Zinc, Brass, NBR & Viton*

NOTE: Certain fluids have a tendency to build a coating on the surface when dry, it is recommended that the lever be left in the upright position when the pump is not in use

305252: Suitable for oil based fluids, heating oils, motor oil, light and heavy oils, diesel and kerosene. Non return seal is NBR rubber

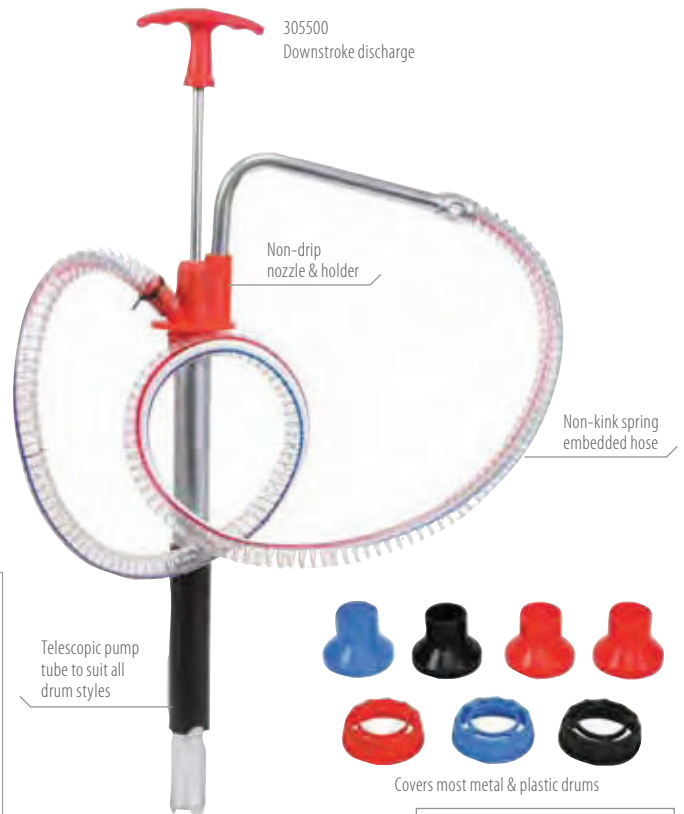
305253: Suitable for 100% antifreeze, solvents, thinners, automotive additives, industrial chemicals, oil based fluids and other non-corrosive liquids. Non return seal is Viton rubber



Part No.	Description	Application	Output	Bung Size
305252	Oil barrel pump HD	50 - 205L drums (15 - 55 gallons)	300ml/stroke	38mm (1½") & 50.8mm (2")
305253	Anti-freeze barrel pump HD	50 - 205L drums (15 - 55 gallons)	300ml/Stroke	38mm (1½") & 50.8mm (2")



305255
Upstroke discharge



305500
Downstroke discharge

Non-drip
nozzle & holder

Non-kink spring
embedded hose

Telescopic pump
tube to suit all
drum styles



Covers most metal & plastic drums



Rieke Adaptor

Standard Bung
Adaptor

Increase pump
length by 19mm for
deeper containers



The Rieke adaptor conveniently
screws on the plastic pull out
Rieke spout



VERTICAL LIFT PUMPS "EZEE FLO"

- Versatile hand lift pumps engineered for trouble free use with plastic pull out (Rieke® spout) or regular openings with 2" external threads
- Heavy duty steel suction tube and high density polyethylene pump head
- Pump head incorporates nozzle holder and option to drain back over flown fluid into the container
- Supplied with spring embedded non-kink discharge hose fitted with a non-drip curved metal spout which locates into the built in nozzle holder in the pump head
- Suitable for transferring engine oils, gear oils, diesel, 100% antifreeze and light fuels
- Not recommended for use with water based and other corrosive materials
- Wetted components: Steel, Aluminium, Polyethylene, Polypropylene Co Polymer, High Nitrile Rubber, PVC & Acetal

305255

- Upstroke operation with fluid discharge when pulling the handle up

305500

- Downstroke operation with fluid discharge when pushing the handle down which provides better ease of use especially when pumping heavy fluids, and also reduces pull out stress on the pump bung
- Variable length suction tube to cater for all shapes of containers. Pump length can be extended by over 100mm for use with high depth containers, or shortened to cater for shorter and wider drums
- Includes seven adaptors to enable use with most metal and plastic containers

INTERCHANGEABLE ADAPTORS



Standard bung
can be slid over the
pump, when using
on containers with
external threading



Rieke adaptor
is used on
containers with
plastic Rieke
spout



Extension
Increase pump
length by 19mm
for deeper
containers

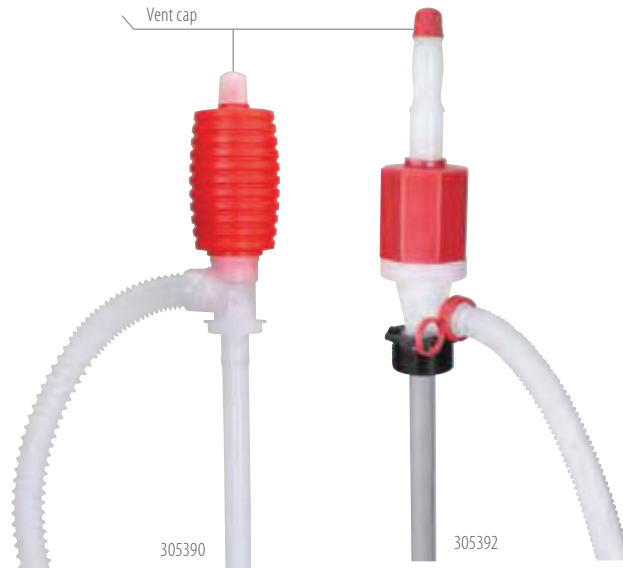
Part No.	Description	Application	Output	Pump Length	Adaptors
305255	Upstroke discharge	20L drums	1L/15 Strokes	325mm	3 (1 standard, 1 Rieke, 1 extension)
305500	Downstroke discharge	20 - 25L drums	1L/18 Strokes	325 - 435mm	7 (3 standard, 4 Rieke Adaptors)



VERTICAL LIFT PUMP

- Self priming high volume lift pump for use with petroleum based media
- Steel construction with aluminium die cast head, steel plunger rod and PTFE seals
- Piston is made from zinc with wear resistant brass piston rings
- Comes with steel discharge spout and 2" cast iron bung adaptor
- Not recommended for use with Petrol, water based or other corrosive media
- Wetted components: Steel, Aluminium, Zinc, Brass, PTFE

Part No.	Application	Output	Bung Size
305256	205L drums (55 gallons)	750ml/stroke	50.8mm (2")



SYPHON PUMPS

- Simple and easy to use polyethylene pumps syphon liquids to lower levels than the height the pump is installed
- To dispense media at levels higher than the pump, the pump below needs to be continuously operated
- Easy to prime and start within 6-7 strokes. Pump requires no further operation and keeps working in Auto position
- All pumps are equipped with a vent cap, opening the cap stops the discharge
- Supplied with flexible corrugated discharge tube
- Recommended for water-based fluids, detergents, waxes, soaps, antifreeze, some mild acids and other liquids compatible with pump materials of construction
- Pump should only be used with light weight and non inflammable liquids
- Do not use with fluids not compatible with materials used in the pump construction. These pumps must never be used with concentrated acids, Acetone, Benzene etc.

WARNING: Pumps must not be used with hot fluids at temperatures above 60°C or with concentrated acids, Acetone, Benzene etc.

Part No.	Application	Output	Bung Adaptor	Hose Length
305390	5 - 20L pails	6.5L/Minute	1 1/2"	551mm
305392	205L drums	21L/Minute	2"	1212mm



DRUM LID WRENCH

- An easy and convenient tool to open almost all types of drums
- Ends of the wrench are designed to fit perfectly onto most 3/4" and 2" drum plugs
- Manufactured from cast aluminium (LM25)
- Wrench is hardened and tempered for increased strength
- Compact design for easy storage

Part No.	Application
305248	3/4" & 2"



DRUM TAP

- Facilitates convenient dispensing of media under gravity flow with drum laid horizontally
- Lockable with built in bucket hanger
- Not suitable for use with corrosive media



Part No.	Application	Thread
305071	20 - 65L drums	3/4" Male



DRIP PAN
UNIVERSAL

- Popular accessory for every drum pump; the drip pan fits into any 2" threaded opening on a drum, barrel or tank
- Used as a drain for returning overflow media back into the drum
- Fits any 2" threaded opening on a drum and any pump with a 2" bung adaptor
- Cast aluminium body with 2" external and internal threads
- Bung adaptor with strainer for dispensing clean media back into the drum
- Also works as a base for holding a container during dispensing

Part No.	Thread (Internal & External)	Plate Size
305020	2"	175x175mm



305383

305265

DRUM DOLLIES

- Heavy duty drum dollies with welded steel sheet (3mm/11 gauge) construction
- Extra heavy-duty design, wide steel in premium powder coated finish
- Design incorporates strong steel braces and removable castors for use in professional workshop conditions
- Adjustable clamping bolt design allows the dolly to be adjusted easily for varying barrel/pail diameters

Part No.	Application	Castors	Capacity
305383	60L/16 gallon drums	Phenolic	90kg/400mm wide
305265	205L/54 gallon drums	Cast iron	545kg/580mm wide



305261

305258

305260

OIL CANS

- Professional range of oil dispensing cans in traditional design for daily workshop use
- All steel construction with seamless, heavy gauge tin sheet with a powder coated finish
- Brass suction pumps with two ball valves for large volume delivery per stroke
- Suction valve at base of pump is without spring, which prevents malfunctioning because of sticking valve due to resinous oil
- Supplied with either rigid steel extension or wire braided flexible hose spout (or both)



Part No.	Description	Capacity	Rigid Spout Length	Flexible Spout Length
305257	Lever type rigid spout	200ml	125mm	-
305258	Lever type rigid & flexible spout	300ml	125mm	150mm
305259	Lever type rigid & flexible spout	500ml	150mm	175mm
305260	Lever type rigid & flexible spout	700ml	175mm	200mm
305261	Pistol grip rigid & flexible spout	125ml	100mm	125mm



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
305229	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
305227	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
305214	1 litre/1 quart	60° C	500ml	305264A
305264	5 litre/5 quart	60° C	500ml	

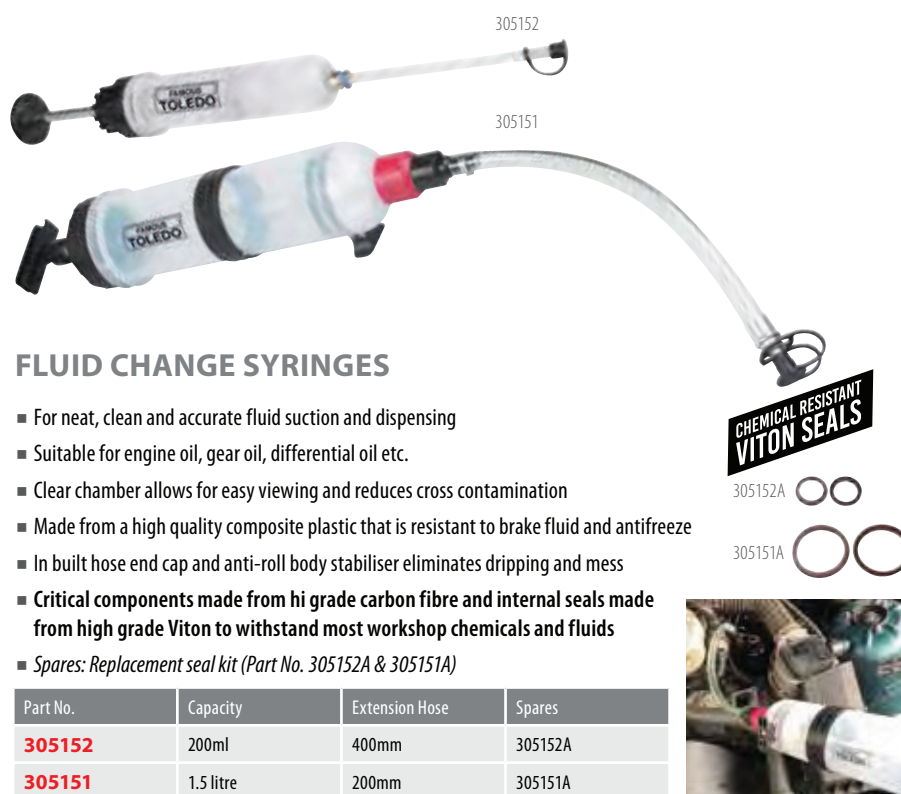


PRESSURE SPRAYERS
PUMP UP

- 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
305153	1 litre	50-70 psi	305153A
304154	2 litre	50-70 psi	305153A



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)*

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



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
305095	10L



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 casters provide easy mobility and transportation (305089 only)

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





FUNNEL SET
COOLANT FILLER

- Universal set for easy, efficient and mess free refilling during cooling system bleeding 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	Pieces	Spares
305092	31, 35, 40, 42, 45mm & universal tapered cone	8	305092A



FUNNEL
ADJUSTABLE PLIER UNIVERSAL

- Unique universal clamp design enables 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
- Compatible with the supplied threaded funnel or any other normal funnel



Part No.	Adjustable Clamp Range
305080	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	Opening	Spout Length
305388	Funnel	1.7L	Ø 205mm	170mm
305389	Funnel w/2" bung adaptor	3L	Ø 240mm	245mm



FUNNEL
FLEXIBLE & MOULDABLE

- A simple and effective flexible rubber funnel for draining fluids from vehicles and equipment such as cars, trucks, motorcycles, aircraft, boats, generators etc.
- Completely 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 means it is suitable for any fluid E.g. AdBlue®



Part No.	Size (LxWxT)
305094	370 x 170 x 3mm

AdBlue®

Note: AdBlue® is a registered trademark of the German Association of the Automobile Industry VDA (Verband der Automobilindustrie)

FUNNELS

ADBLUE®

- Specialty funnels designed for use with AdBlue®
- Manufactured from materials resistant to urea based fluids
- Transparent chamber for an accurate fill, without overfilling or spilling
- Supplied with lid for mess and contaminant free storage
- Available in straight or angled spout, suitable for most passenger vehicles and light commercial vehicles with AdBlue® filler necks

Note: It is recommended to thoroughly clean funnel after each use as AdBlue® will crystallise when dry. Straight neck and angled neck units are not compatible and cannot be interchanged

Part No.	Description	Capacity
305400	Straight neck	1.1L
305401	Angled neck	1.1L



FILLER/EXTRACTION SYRINGE

ADBLUE®

- Specialty syringe designed for the filling and extraction of AdBlue®
- Manufactured from materials resistant to urea based fluids
- Open/close twist valve is easy to use and prevents overfilling and spillage
- Safe and efficient way to handle AdBlue® and features an anti-roll bar on main body to stabilise syringe when not in use
- Large double seal diameter plunger provides quick and efficient action
- Transparent body is easy to dismantle for cleaning and features level markings
- Suitable for all vehicles fitted with AdBlue® tanks such as passenger vehicles, LCV, heavy vehicles etc.

Note: It is recommended to dismantle and thoroughly clean syringe after each use as AdBlue® will crystallise when dry

- Spares: Replacement seal kit Part No. 305402A

Part No.	Capacity	Extension Hose	Spares
305402	1.5L	410mm	305402A



TRANSFER PUMP

ADBLUE®

- Specialty transfer pump syringe designed for AdBlue® filling and extraction
- Manufactured from materials to resist urea based fluids such as AdBlue®
- Transparent body with level markings
- Compact design allows for easy storage and easy to disassembly for cleaning
- Suitable for all vehicles fitted with AdBlue® tanks such as passenger vehicles, LCV, heavy vehicles etc.
- One way valve transfers Adblue® fluid from the bottom hose and dispenses from the top hose, use in reverse for extraction
- Supplied with PVC hose and nylon tube

Note: It is recommended to dismantle and thoroughly clean pump after each use as AdBlue® will crystallise when dry

Part No.	Capacity	Extension Hose
305158	550ml	500 & 1000mm



AdBlue®

GREASE NIPPLES

- Available in EN-1A steel with yellow zinc coating or 303 stainless steel
- Manufactured to the most stringent quality standards – QS9000 approved manufacturing
- Accurately controlled, conforming to the SAE, DIN, BS, JIS and IS standards
- Grease nipples are heat treated to SAE J534 specifications

Note: Stainless steel nipples have stainless steel ball

Images	Description	Hex Size	Steel Part No.	Qty	Stainless Steel Part No.	Qty	
	1/4" – 28 SAE LT Taper Thread	Short Straight	5/16"	305319	10	305375	10
		Short 45°	3/8"	305320	5	305376	10
		Short 65°	3/8"	305321	5	–	–
		Short 90°	3/8"	305322	5	305377	10
	R 1/8" x 28 BSPT Taper Thread	Straight	7/16"	305323	5	–	–
		45°	7/16"	305324	5	–	–
		90°	7/16"	305325	4	–	–
	R 1/4" x 19 BSPT Taper Thread	Straight	0.60"	305326	2	–	–
		45°	0.60"	305327	2	–	–
90°		0.60"	305328	2	–	–	
	UNF Parallel Thread	Straight 1/4" 28	5/16"	305329	10	–	–
		Straight 5/6" 24	7/16"	305330	6	–	–
		Straight 3/8" 24	7/16"	305331	6	–	–
	BSF Parallel Thread	Straight 1/4" 26	7mm	305332	8	–	–
		Straight 5/16" 22	9mm	305333	5	–	–
		Straight 3/8" 20	11mm	305334	3	–	–
	1/8" – 27 Pipe Threads PTF – Special Short	Short Straight	7/16"	305335	7	305370	10
		Short 30°	7/16"	305336	5	305371	10
		Short 45°	7/16"	305337	5	305372	10
		Short 65°	7/16"	305338	4	305373	10
		Short 90°	7/16"	305339	4	305374	10
	6.0mm x 1.0mm Taper Thread	Short Straight	7mm	305340	10	305361	10
		Short 45°	9mm	305341	5	305362	10
		Short 90°	9mm	305342	5	305363	10
	8.0mm x 1.0mm Taper Thread	Short Straight	9mm	305343	8	305364	10
		Short 45°	9mm	305344	5	305365	10
		Short – 90°	9mm	305345	5	305366	10
	10.0mm x 1.0mm Taper Thread	Short Straight	11mm	305346	6	305367	10
		Short 45°	11mm	305347	5	305368	10
		Short 90°	11mm	305348	5	305369	10
	Drive Fittings	For 3/16" Drill	Dia 5/16"	305349	10	–	–
		For 5/16" Drill	Dia 3/8"	305350	8	–	–
		For 1/4" Drill	Dia 11/32"	305351	10	–	–
	Button Head Grease Fittings Parallel Thread	1/4" x 19 BSP	0.6"	305352	3	–	–
		1/8" x 28 BSP	0.6"	305353	3	–	–
	Button Head Grease Fittings Taper Thread	1/8" 27 PTF SAE spl Short	5/8"	305354	3	–	–
		3/8" 18 NPTF	3/4"	305355	1	–	–
		1/4" 18 NPTF	5/8"	305356	2	–	–

GREASE NIPPLE SETS

IMPERIAL & METRIC

- Assorted grease nipples in various sizes
- Manufactured from EN-1A zinc plated steel and heat treated to QS9000 quality standards
- Suitable for various applications including automotive, industrial, agricultural etc
- Includes handy storage case with partitions for quick identification



Part No.	Description	Hex Size	Qty	
305266	SAE	27 NPT Straight	1/8"	30 pcs
		27 NPT 45° Angle	1/8"	15 pcs
		27 NPT 90° Angle	1/8"	15 pcs
		28 SAE LT Straight	1/4"	20 pcs
		28 SAE LT 45° Angle	1/4"	15 pcs
		28 SAE LT 90° Angle	1/4"	15 pcs



Part No.	Description	Hex Size	Qty	
305267	Metric	6 x 1.0mm Straight	7mm	30 pcs
		6 x 1.0mm 90° Angle	7mm	20 pcs
		8 x 1.0mm Straight	9mm	20 pcs
		8 x 1.0mm 90° Angle	9mm	20 pcs
		10 x 1.0mm Straight	11mm	20 pcs
		10 x 1.0mm 90° Angle	11mm	10 pcs



GREASE NIPPLE HANDY PACKS

IMPERIAL & METRIC

- Assorted grease nipple handy packs
- Available in SAE and Metric
- Suitable for various applications including automotive, industrial, agricultural etc
- Manufactured from EN-1A zinc plated steel and heat treated to QS9000 quality standards

Part No.	Description	Hex Size	Qty	
305212	SAE	1/4" 28 Straight	1/4"	4 pcs
		1/4" 28 45° Angle	1/4"	2 pcs
		1/4" 28 90° Angle	1/4"	2 pcs
305213	Metric	6 x 1.0mm Straight	7mm	4 pcs
		6 x 1.0mm 45° Angle	7mm	2 pcs
		6 x 1.0mm 90° Angle	7mm	2 pcs



STAINLESS STEEL GREASE NIPPLE SET

METRIC

- Assorted grease nipples in various sizes
- Manufactured from 303 stainless steel with stainless steel ball to QS9000 quality standards
- Suitable for marine applications
- Includes handy storage case with partitions for quick identification

Part No.	Description	Hex Size	Qty	
305378	Metric	6 x 1.0mm Straight	7mm	30 pcs
		6 x 1.0mm 45° Angle	7mm	15 pcs
		6 x 1.0mm 90° Angle	7mm	15 pcs
		8 x 1.0mm Straight	9mm	20 pcs
		8 x 1.0mm 45° Angle	9mm	15 pcs
		8 x 1.0mm 90° Angle	9mm	15 pcs

GREASE NIPPLES & ACCESSORIES

GREASE NIPPLE PROTECTIVE CAPS

- Protects lubricating grease nipples from contaminant such as dirt, saltwater etc.
- Colour coding suitable for grease style identification
- In-built collar slides onto the fitting, keeping the cap safely attached
- Caps fit all standard fittings for use with jaw type grease nipples
- Handy pack of 10 assorted caps also available (Part No. 305396)



Part No.	Colour	Qty
305393	Black	50
305394	Red	50
305394B	Red	1000
305395	Yellow	50
305396	Assorted (4 Black, 3 Red, 3 Yellow)	10

GREASE NIPPLE EASY OUT TOOL

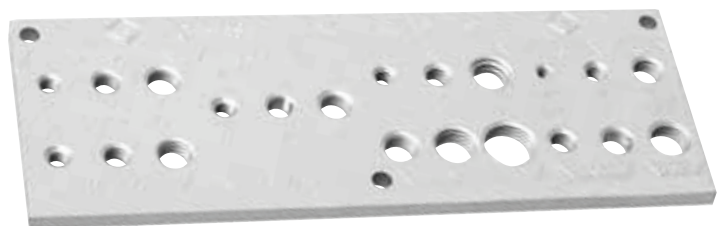
- Handy, dual-purpose tools for removing worn and broken grease fittings
- Can be used to re-tap holes to install new grease fittings
- Works with straight and angled fittings

Part No.	Description	Hex Size	Tap Re-threads
305249	Small easy out tool	7mm (5/16") & 9mm (3/8")	1/4" - 28
305250	Large easy out tool	9mm (3/8") & 11mm (7/16")	1/8" - 27

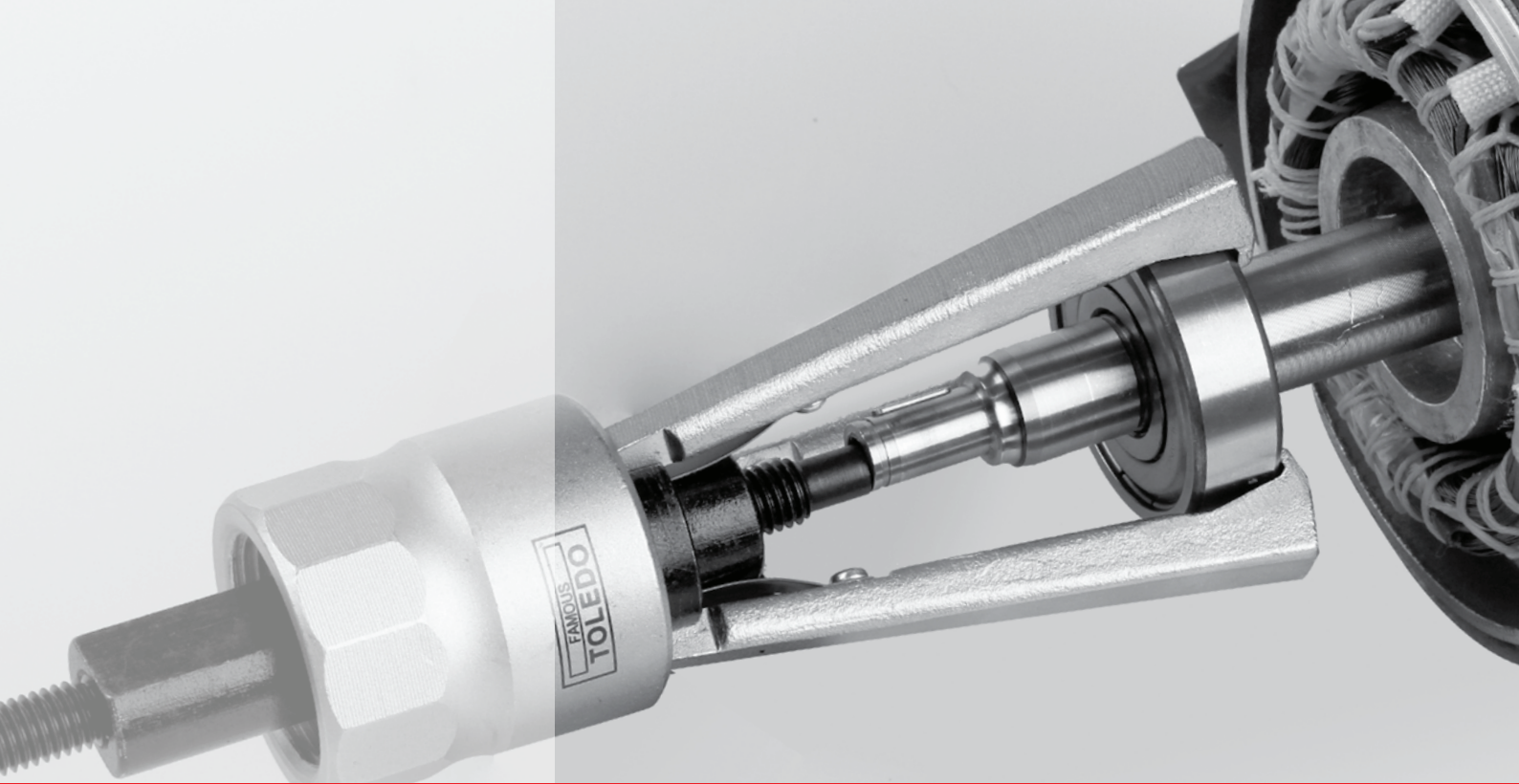


GREASE NIPPLE THREAD GAUGE

- Aluminium construction with mounting holes
- Designed to check 21 of the most popular thread types
- Handy tool box accessory
- Grease nipple identification made easy
- Size: 207 x 75mm



Part No.	Thread Type	Size	Thread Type	Size
305016	NPT	1/8"	BSPT	1/8"
	METRIC	M6 x 1	UNF/ANF	1/4"
	METRIC	M8 x 1	BSW	1/2"
	METRIC	M10 x 1	BSF	3/16"



PULLING & EXTRACTING

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PULLING & EXTRACTING

TOLEDO PULLERS

- Toledo offers a market leading range of mechanical and hydraulic pullers which are well recognised and respected for their high quality and reliability
- The comprehensive range covers a wide range of styles and sizes to cater for most applications and requirements, whether big or small
- Toledo pullers are precisely manufactured from drop forged and hardened specialty chrome-vanadium steel with unique properties which increase strength and corrosion resistance
- Toledo pullers undergo stringent checks and far exceed their stated capacities for added safety and superior performance

Scan here for video



CHOOSING A PULLER



TWIN/TRIPLE LEG ASSEMBLY

Wherever possible, always try to incorporate a 3 leg set up which will enable better load distribution and safer operation.



SPREAD SIZE (WIDTH)

Determine the SPREAD required by measuring the width of the application. This must be greater than the diameter of the part being pulled.



REACH LENGTH (DEPTH)

Determine the REACH required by measuring the depth of the application. This must be greater than distance from end of the shaft to behind the part being pulled.



FORCE REQUIRED (PULLING POWER)

Estimate the amount of FORCE required to complete the job. It is recommended to select a higher rating force to easily complete task. Undercompensating on force can lead to damage of part and puller and incompletion of the task.

IT IS GOOD PRACTICE TO ALWAYS HAVE A TOLEDO PULLER ON HAND



DOWNTIME & PRODUCTIVITY

Time is Money. Machine breakdowns result in downtime which reduces productivity. It is imperative to get restarted as soon as possible. Be ready for a breakdown by having a Toledo puller on hand at all times.



POWER & FORCE

A high quality puller is the best way in some cases to shift a component. Toledo pullers generate the force required in a progressive way to ensure smooth and safe job success.



SAFETY & O.H.S

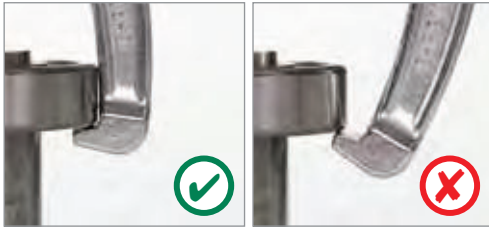
Precisely machined and manufactured from superior steels to ensure ongoing safe performance. Failure and breakage can result in injury.



INVESTMENT & INSURANCE

A Toledo puller is a sound investment and will minimise down time and enable machinery repairs, instead of replacement. Always keep a Toledo puller kit on hand as insurance in case of a breakdown.

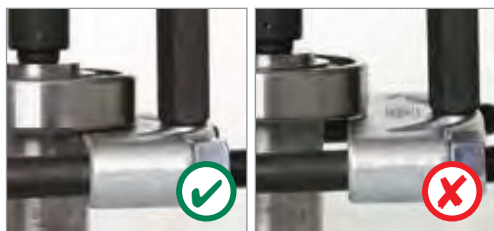
TIPS & ADVICE



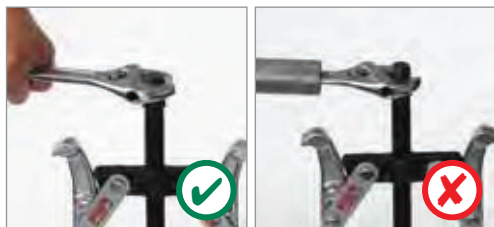
Align legs correctly to prevent damage to bearing and tool



Firmly affix bearing separator and align legs



Align bearing separator as close as possible to shaft



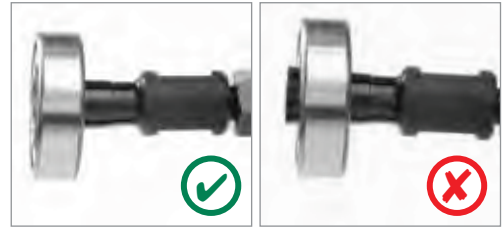
It is not recommended to use an extension bar for extra leverage



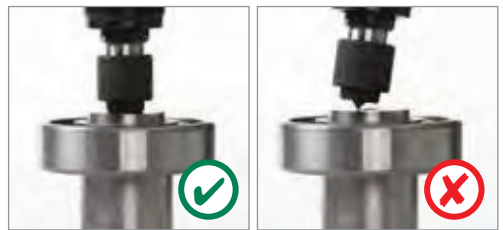
Keep hands away from contact area while slide hammer is in use



Hand operation only should be used to achieve force



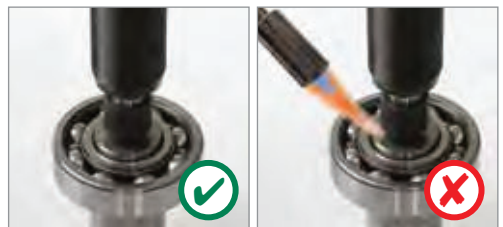
Select correct size and keep tool square when extracting



Misalignment of ram can cause damage to tool and shaft



Maintain hydraulic ram to ensure maximum performance



Heating up bearing will cause heat to transfer and damage tool



Frequently lubricate and inspect forcing screw for damage



The use of air tools is not recommended

MECHANICAL PULLERS



TWIN LEG PULLERS
MECHANICAL REVERSIBLE

- Twin leg pullers feature double ended reversible legs to enable both internal and external applications
- Designed for easy removal of bearings, pulleys, gears and sprockets
- Manufactured from specialty high grade chrome-vanadium steel
- *Spare: All components available individually (Refer to table below)*



TRIPLE LEG PULLERS
MECHANICAL REVERSIBLE

- Triple leg pullers feature double ended reversible legs to enable both internal and external applications
- Designed for easy removal of bearings, pulleys, gears and sprockets
- It is always advised to use a triple leg puller over a twin leg to ensure better force distribution which results in safer and more efficient operation
- Manufactured from specialty high grade chrome-vanadium steel
- *Spare: All components available individually (Refer to table below)*

Twin Head Part No.	Triple Head Part No.	Force	Twin Head		Triple Head		Forcing Screw		Leg Assembly (Each)		Twin Head		Triple Head	
			Spread (Min - Max)	Reach (Max)	Spares	Size	Spares	Size	Spares	Size	Spares	Size	Spares	Size
222030	223030	1 Tonne	35 - 75mm	75mm (3")	222031	125mm	222032	100mm	222033	75mm	223033	60mm		
222040	223040	2 Tonnes	50 - 100mm	100mm (4")	222041	160mm	222042	138mm	222043	86mm	223043	75mm		
222060	223060	5 Tonnes	65 - 150mm	150mm (6")	222061	240mm	222062	220mm	222063	110mm	223063	100mm		
222080	223080	7 Tonnes	105 - 200mm	200mm (8")	222081	320mm	222082	300mm	222083	160mm	223083	145mm		
222100	223100	9 Tonnes	125 - 250mm	250mm (10")	222101	330mm	222102	340mm	222103	210mm	223103	170mm		
222120	223120	13 Tonnes	155 - 300mm	300mm (12")	222121	380mm	222122	380mm	222123	250mm	223123	210mm		



TWIN & TRIPLE LEG PULLER KITS

MECHANICAL REVERSIBLE

- Combination twin and triple leg puller kits Kits include three legs and both twin and triple heads to allow for either twin or triple leg assembly
- Supplied in custom moulded foam tray for safe and secure storage
- Manufactured from specialty high grade chrome-vanadium steel



Part No.	Force	Spread (Min - Max)	Reach (Max)	Forcing Screw		Leg Assembly (Each)		Twin Head		Triple Head	
				Spares	Size	Spares	Size	Spares	Size	Spares	Size
224030	1 Tonne	35 - 75mm	75mm (3")	222031	125mm	222032	100mm	222033	75mm	223033	60mm
224040	2 Tonnes	50 - 100mm	100mm (4")	222041	160mm	222042	138mm	222043	86mm	223043	75mm
224060	5 Tonnes	65 - 150mm	150mm (6")	222061	240mm	222062	220mm	222063	110mm	223063	100mm

MECHANICAL PULLERS



TWIN & TRIPLE LEG SELF GRIP PULLERS
AUTOMATIC MECHANICAL REVERSIBLE

- Unique quick change head design allows for 2 or 3 jaw internal or external assembly
- Self-gripping, self-centring and spring loaded design ensures maximum grip for all pulling applications
- Supplied in custom moulded foam tray for safe and secure storage
- Manufactured from specialty high grade chrome-vanadium steel with black phosphate finish for additional corrosion resistance



Part No.	Force	Spread (Min - Max)	Reach (Max)
225040	10 Tonnes	76 - 102mm	90mm
225070	20 Tonnes	76 - 178mm	135mm



TWIN & TRIPLE LEG CONCENTRIC PULLERS
MECHANICAL

- Screw operated concentric action and self adjusting legs make this range of pullers easy to use and offer an extra safe option by eliminating the danger of puller legs slipping under load
- Self-locking, self positioning legs and forcing screw
- Self positioning and self centring action prevents damage to gears or bearing shafts
- Combination twin and triple heads enable either twin or triple leg operation
- Ease of use saves operating time and concentric action results in longer service life
- Manufactured from specialty high grade chrome-vanadium steel with black phosphate finish for additional corrosion resistance

Part No.	Force	Spread (Min - Max)	Reach (Max)
246100	2 Tonnes	25 - 120mm	80mm
246101	3 Tonnes	30 - 140mm	120mm
246102	5 Tonnes	35 - 270mm	160mm
246103	8 Tonnes	50 - 300mm	210mm
246104	10 Tonnes	60 - 380mm	250mm



TWIN & TRIPLE LEG SLIDING BEAM PULLER KIT

MECHANICAL REVERSIBLE

- Twin and triple leg sliding beam master kit with various length legs and both dual and triple head assembly
- Legs slide across the beam to produce varying spread sizes to suit various applications
- Reversible legs suitable for internal and external applications
- Thin jaw design, particularly useful in applications with limited space
- Supplied in custom moulded plastic hard case
- *Spare: All components available individually (Refer to table below)*

Part No.	Force	Spread External (Min - Max)	Spread Internal (Min - Max)	Reach (Max)
221007	2 Tonnes	30 - 110mm	70 - 90mm	260mm

Contents	Description	Size
221009	Forcing screw	160mm
221010	Twin beam	175mm
221011	Triple beam	150mm
221012	Leg assembly (each)	100mm
221013	Leg assembly (each)	210mm
221014	Leg assembly (each)	260mm



LONG JAW PULLER

MECHANICAL REVERSIBLE

- Extra long mechanical puller for difficult access applications where extended reach is required
- Forcing screw features a convenient T-bar handle with 13mm hex drive
- Adjustable three position reversible legs designed for internal and external pulling applications
- Self centring and includes two centring pins



Part No.	Spread External (Min - Max)	Spread Internal (Min - Max)	Reach (Max)
245460	10 - 50mm	27 - 50mm	225mm
Leg Setting Length		Pin Overall Length	
Lower setting - 150mm (6")		Pin 1: 30mm	
Middle setting - 200mm (8")		Pin 2: 80mm	
High setting - 250mm (10")			

MECHANICAL PULLERS

ARMATURE BEARING PULLERS

MECHANICAL

- Designed to remove the main bearing on armatures in automotive, electrical and industrial applications
- Thin profile jaws enable a tight and secure grip around the bearing
- Supplied in custom moulded EVA foam tray for safe and secure storage



226100



226101



226102



Part No.	Capacity	Spread External (Min - Max)	Spread Internal (Min - Max)	Reach (Max)	Forcing Screw Diameter	ISO Bearing Designation
226100	1 Tonne	25 - 45mm	19 - 35mm	50mm	Ø 6mm	607,608, 609, 626, 627, 628, 629, 636, 637, 638, 639, 6000, 6001, 6002, 6003, 6200, 6201, 6202, 6300, 6900, 6901, 6902, 6903
226101	1.3 Tonne	30 - 60mm	24 - 55mm	100mm	Ø 8mm	609, 628, 629, 638, 639, 6000, 6001, 6002, 6003, 6004, 6005, 6006, 6200, 6201, 6202, 6203, 6204, 6205, 6300, 6301, 6302, 6303, 6304, 6901, 6902, 6903, 6904, 6905, 6906, 6907
226102	1.8 Tonne	40 - 85mm	35 - 80mm	160mm	Ø 10mm	6003, 6004, 6005, 6006, 6007, 6008, 6009, 6010, 6202, 6203, 6205, 6206, 6207, 6208, 6302, 6303, 6304, 6305, 6306, 6307, 6403, 6404, 6405, 6904, 6905, 6906, 6907, 6908, 6909, 6910

TWIN LEG SLIDING BEAM PULLERS

MECHANICAL REVERSIBLE

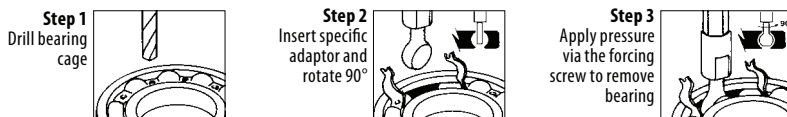
- Twin legs slide across the beam to produce varying spread sizes to suit various applications
- Legs are reversible to suit both internal and external applications
- Legs have locking screws to stabilise puller once desired size has been set
- Spares: All components available individually (Refer to table below)



Part No.	Force	Spread External (Min - Max)	Spread Internal (Min - Max)	Reach (Max)	Forcing Screw		Leg Assembly (Each)		Twin Head	
					Spares	Size	Spares	Size	Spares	Size
232080	2 Tonnes	50 - 80mm	75 - 130mm	90mm	232081	180mm	232082	100mm	232083	140mm
232120	2 Tonnes	50 - 140mm	75 - 150mm	90mm	232121	180mm	232082	100mm	232123	170mm
232160	6 Tonnes	60 - 160mm	100 - 180mm	140mm	232161	260mm	232162	160mm	232163	220mm
232200	6 Tonnes	70 - 200mm	100 - 240mm	140mm	232201	265mm	232162	160mm	232203	260mm

TWIN PULL PULLERS
MECHANICAL

- Specialty pullers designed for the removal of blind housing bearings without the need to dismantle machinery or remove the running shaft
- Positive seating allows even tension on inner and outer bearing rings, reducing resistance
- Stabilisers reduce sideways movement and self centre the puller
- Ideal for cage-type ball bearings
- Three kits cover a wide range of ISO bearings. To identify kit for bearings without an ISO reference refer to puller spread and adaptor diameter
- *Spares: all component available individually (Refer to table below)*



Part No.	Description	Spread (Min - Max)	Reach (Max)	Adaptor Size Diameter	ISO Bearing Designation
225000	Twin pull puller kit - Small	20 - 95mm	125mm	Ø 5, 6, 8mm	6004-6010, 6299-6205, 6300-6302
226000	Twin pull puller kit - Medium	45 - 120mm	200mm	Ø 9, 11, 12.5mm	6207-6211, 6305-6308, 6403-6405
227000	Twin pull puller kit - Large	60 - 200mm	500mm	Ø 16, 19, 22, 25, 28, 32mm	6021-6032, 6309-6321, 6212-6230, 6406-6417

SPARES

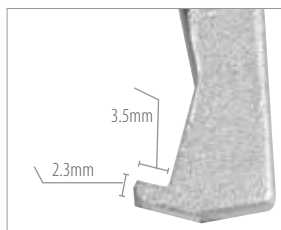
Part No.	Forcing Screw		Main Rod (Each)		Extension Rod (Each)		Thrust Nut	Twin Beam			Adaptors (each)					
	Spares	Size	Spares	Size	Spares	Size		Spares	Spares	Size	Spares	Diameter	Spares	Diameter	Spares	Diameter
225000	225011	125mm	225013	100mm	225014	90mm	225010	225016	100mm	225001	Ø 5mm	225002	Ø 6mm	225003	Ø 8mm	
226000	226011	200mm	226013	160mm	-	-	-	226016	140mm	226001	Ø 9mm	226002	Ø 11mm	226003	Ø 12.5mm	
227000	227011	270mm	227013	250mm	227014	250mm	-	227016	240mm	227001	Ø 16mm	227002	Ø 19mm	227003	Ø 22mm	
										227004	Ø 25mm	227005	Ø 28mm	227006	Ø 32mm	

MECHANICAL PULLERS

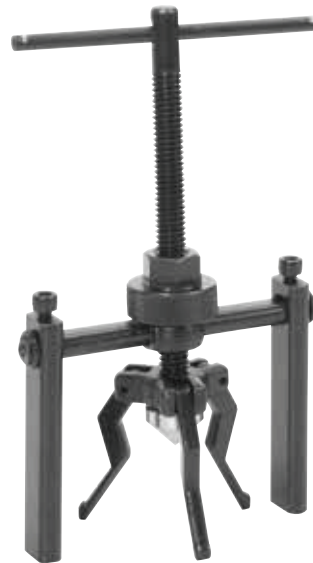


TRIPLE LEG MICRO-ADJUSTABLE BEARING PULLER
MECHANICAL 3-JAW

- Designed for the rapid easy removal of small bearings and similar assemblies
- Self centring under load and can be used with the attached "T" bar or 13mm hexagon drive
- Three legs with independent leaf springs
- Securing collar tightens under load for positive, non-slip pulling action
- Applications include alternators/generators, domestic appliances, power tools and pumps



Part No.	Force	Spread External (Min - Max)	Reach (Max)
246600	1 Tonne	19 - 45mm	73mm
Jaw Thickness	Jaw Inset	ISO Bearing Designation	
2.3mm	3.5mm	6800 6201 6002 6003 606 627 668 609 6900 6301 6202 6200 626 637 628 629 6801 6802 6803 6300 636 688 638 639 6901 6902 6302 697 698 689 6001 6903 607 699	

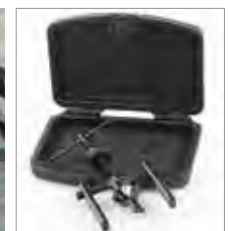
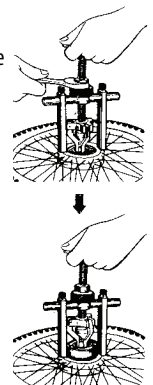


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PILOT BEARING PULLER
MECHANICAL 3-JAW

- 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
- Adjustable support legs with locking screws
- Adjustable centre cone applies pressure onto jaws to grip onto bearing
- Applications include cars, trucks, motorcycles, bicycles and tractors
- Internal diameter bearing range 13 - 45mm
- Also suitable for extracting bearings from motorcycle wheels, alternators and pumps without any distortion
- Small and handy unit supplied in plastic hard case



Part No.	Internal Diameter	Reach (Max)
245464	Ø 13 - 45mm	75mm



SLIDE HAMMER GEAR/BEARING PULLER KIT

MECHANICAL 3-JAW

- Slide hammer puller kit includes one external and two internal puller assemblies which firmly clamp inside/outside the gear or bearing
- Tapered cone adaptors are used to support legs when adjusting pullers in position for easy operation
- Supplied in custom moulded plastic hard case
- *Spare: all component available individually (Refer to table below)*

Note: Compatible with slide hammer assembly Part No. 245351



Part No.	Spread External (Min - Max)	Spread Internal (Min - Max)	Reach (Max)
269000	15 - 80mm	15 - 80mm	340mm

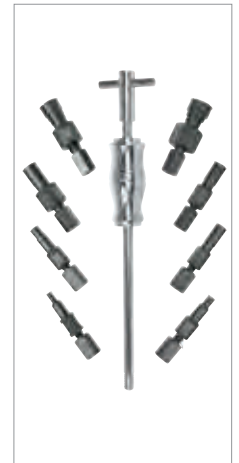
Contents	Description	Specifications
269001	T-Bar 5/8" UNF	420mm
269002	Hammer head (1.1kg)	100mm
269003	Internal/external cone	-
269004	Centre screw	90mm
269005	Lock washers	-
269006	Internal puller assembly	15 - 80mm
269007	Internal puller assembly	30 - 80mm
269008	External puller assembly	15 - 80mm
269009	External cone adaptor	Large
269010	External cone adaptor	Small
269011	Triple head	60mm
269012	Spare bolts & nuts (8pc)	-



SLIDE HAMMER SPLIT COLLET EXTRACTOR SET

MECHANICAL

- Extract components quickly and efficiently when conventional pullers cannot be used
- Removes bearings, oil seals etc. without damaging housing
- Supplied in custom moulded plastic hard case
- Collet size range: Ø 8 - 32mm
- *Spare: All components available individually (Refer to table below)*



Part No.	Collet Size Range (Min - Max)	Reach (Max)
246300	Ø 8 - 32mm	330mm

Contents	Description	Size
246301	Split collet	8 - 10mm
246302	Split collet	10 - 12mm
246303	Split collet	12 - 14mm
246304	Split collet	15 - 17mm
246305	Split collet	17 - 20mm
246306	Split collet	20 - 24mm
246307	Split collet	25 - 29mm
246308	Split collet	30 - 32mm
246320	Slide hammer assembly (1kg)	390mm

HYDRAULIC PULLERS

HYDRAULIC RAM 10 TONNE

- Famous Toledo hydraulic ram is a premium option well known for its quality and reliability
- A cornerstone of the brand and pulling range
- Supplied in custom moulded EVA foam storage tray
- Repair kit available Part No. 265001



1 Heavy duty 130mm T-bar ensures maximum power output with minimal effort

Pressure screw with finely pitched thread ensures seamless operation

Knurled collar improves grip when positioning ram and applying initial load

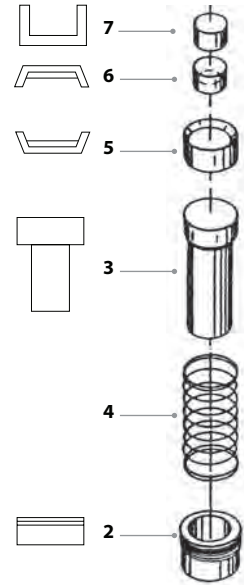
1 1/2" – 16 TPI offers precise adjustment to obtain maximum force

Heavy duty body construction applies direct force which eliminates twisting and improves stability under load

10 Tonne of force ensures light work of the hardest application

1

8



Reference

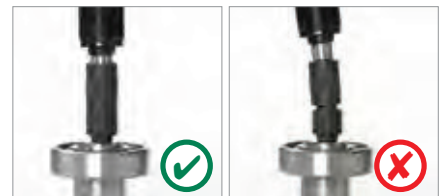
- 1 T-Bar
- 2 Threaded Nose Retainer
- 3 Piston
- 4 Spring
- 5 Large Tapered Seal
- 6 Small Tapered Seal
- 7 T-Bar Seating Positioner Cup
- 8 Ram Body



Hand operation only should be used to achieve force



Maintain hydraulic ram to ensure maximum performance



Misalignment of ram can cause damage to tool and shaft



Heating up bearing will cause heat to transfer and damage tool

Part No.	Description	Repair Kit Part No.
265100	Hydraulic Ram 10T	265001

REPAIR KIT INSTRUCTIONS

Step 1

Unwind T-bar completely and remove it from ram

Step 2

Remove threaded nose retainer and drain oil from ram

Step 3

Using a screwdriver, force out internal components of ram by inserting it into the threaded T-bar hole

Step 4

Inspect and clean all internal components

Step 5

With the T-bar hole facing down, half fill the T-bar seating positioner cup with general-purpose grease and carefully insert into ram

Step 6

Insert small tapered seal, with the rubber seal facing up, into the chamber

Step 7

Refill ram with supplied hydraulic oil until level is slightly above the larger chamber

Step 8

Insert large tapered seal, with the rubber seal facing down, into chamber

Step 9

Insert piston and spring into chamber and refit threaded nose retainer

Step 10

Refit T-bar to ram

NOTE: If an air lock occurs during assembly, use a short length of fishing line by inserting it into the cut out of the large tapered seal and pull out slowly to draw bubbles to surface and then reassemble.



TWIN & TRIPLE LEG PULLER & BEARING SEPARATOR COMBINATION KIT

HYDRAULIC

- This is the most popular puller kit in the Toledo range and is a complete pulling, extracting and separating solution
- Comprehensive kit includes twin and triple heads, multiple sized legs for twin and triple puller assembly, the famous Toledo 10 tonne hydraulic ram, twin beam, bearing separator and related main and extension rods
- An essential kit to have on hand to cater for many applications in various industries including agricultural, automotive, industrial, marine and mining
- Twenty one piece kit supplied in custom moulded heavy duty plastic case
- Spares: All components available individually including ram repair kit Part No. 265001



Part No.	Force	Spread (Max)	Reach (Max)	Separator Range
265000	10 Tonne	180mm	425mm	75 - 105mm

Contents	Description	Specifications	Image	Qty
245105	Bearing separator	75 - 105mm		1
265002	Twin head	135mm		1
265003	Triple head	135mm		1
265004	Centre nut threaded (inserts into twin & triple head)			1
265008	Nose piece extension (3pc set)	25, 35, 85mm		1 Set
265009	Sliding twin beam	200mm		1

Contents	Description	Specifications	Image	Qty
265010	Main rod (1/2")	200mm		2
265011	Extension rod (1/2")	225mm		2
265041	Leg (each)	100mm		3
265061	Leg (each)	150mm		3
265081	Leg (each)	200mm		3
265100	Hydraulic ram	10 Tonne		1

HYDRAULIC PULLERS



HYDRAULIC PULLER SET
TWIN & TRIPLE LEG 200MM

- A compact and economical hydraulic puller kit for users who do not require a comprehensive kit, but need a hydraulic puller to keep on hand for miscellaneous jobs and emergencies
- Twin and triple leg combination kit includes both twin and triple heads and centre nut, three legs, hydraulic ram and nose piece
- Supplied in a high grade custom moulded EVA foam tray for safe and easy storage
- Spares: All components available individually including ram repair kit Part No. 265001



Part No.	Force	Spread (Min - Max)	Reach (Max)
265050	10 Tonne	100 - 200mm	200mm

Contents	Description	Specifications	Image	Qty
265100	Hydraulic ram & nose piece	10 Tonne		1
265002	Twin head	135mm		1
265003	Triple head	135mm		1
265004	Centre nut threaded (inserts into twin & triple head)			1
265081	Leg (each)	200mm		3

TWIN & TRIPLE LEG PULLER & BEARING SEPARATOR COMBINATION MASTER KIT
MECHANICAL & HYDRAULIC

- Master kit includes a comprehensive range of components to make up both mechanical and hydraulic puller assemblies
- Includes forcing screw and convertor to provide quick and easy conversion from hydraulic to mechanical operation
- Complete with components to construct varying two and three leg puller assemblies as well as a rear access bearing separator set up
- Thirty one piece kit supplied in a heavy duty steel storage box
- Spares: All components available individually including ram repair kit Part No. 265001

Part No.	Force	Spread (Max)	Reach (Max)	Separator Range
265030	10 Tonne	180mm	425mm	75 - 150mm

Contents	Description	Specifications	Qty
245105	Bearing separator	75 - 105mm	1
245150	Bearing separator	105 - 150mm	1
265002	Twin head	135mm	1
265003	Triple head	135mm	1
265004	Centre nut threaded (inserts into twin & triple head)	-	1
265009	Sliding twin beam	200mm	1
266009	Sliding twin beam	250mm	1
265010	Main rod 1/2" (each)	200mm	2
265011	Extension rod 1/2" (each)	225mm	2
266004	Main rod 5/8" (each)	200mm	2
266003	Extension rod 5/8" (each)	225mm	2
265021	Forcing screw & convertor	290mm	1
265041	Leg (each)	100mm	3
265061	Leg (each)	150mm	3
265081	Leg (each)	200mm	3
265100	Hydraulic ram & nose piece	10 Tonne	1
265008	Nose piece extension set (3 Pc.)	25, 35, 85mm	1 set



BEARING SEPARATOR KIT
MECHANICAL & HYDRAULIC

- Comprehensive bearing separator kit contains all the components for mechanical and hydraulic assembly
- Designed for removing stubborn bearings, gears, sprockets and pulleys effortlessly without damaging shaft and surrounding components
- Suitable for automotive, industrial and engineering applications
- Includes heavy duty 10 tonne hydraulic ram and 210mm forcing screw with centre nut, triple beam, various extension rods, puller leg set and three jaw bearing separator
- Universal three jaw bearing separator design provides three positive contact points and distributes the load across the surface when force is applied, knife edges ensure a secure grip in limited areas and avoids distortion
- Manufactured from drop forged high grade steel, heat treated for strength and durability
- Capacity: 35 - 105mm
- Supplied in two tier custom foam trays and heavy duty storage case



Part No.	Force	Spread (Max)	Reach (Max)	Separator Range
265015	10 Tonne	170mm	900mm	35 - 105mm

Contents	Description	Specification	Image	Qty
245000	Universal 3 jaw bearing separator	35 - 105mm		1
265015A	Hydraulic ram	10 Tonne		1
265015B	Triple beam	170mm		1

Contents	Description	Specification	Image	Qty
265015C	Forcing screw	210mm		1
265015D	Centre nut (Mechanical)	-		1
265015E	Puller jaw (3 piece set)	165mm		3
265015F	Main rod 3/8" (3 piece set)	60mm		3
265015G	Main rod 3/8" (3 piece set)	120mm		3
265015H	Extension rod 3/8" (3 piece set)	300mm		3
265015J	Extension rod 3/8" (3 piece set)	365mm		3

PULLING & EXTRACTING

HYDRAULIC PULLERS



TRIPLE LEG EXTRA HEAVY DUTY PULLER KIT HYDRAULIC 22 TONNE REVERSIBLE

- Heavy duty triple leg puller kit for internal and external pulling work in large applications
- Twenty two tonne ram produces a significant amount of force which may be required for large applications
- Supplied in a heavy duty storage case with castor wheels and locking clips for safe and easy transportation and storage
- *Spare: All components available individually including ram repair kit Part No. 265026*

Part No.	Force	Spread External (Min - Max)	Spread Internal (Min - Max)	Reach
265022	22 Tonne	270 - 570mm	250 - 500mm	300mm

Contents	Description	Specification	Qty
265023	Hydraulic ram	22 Tonne	1
265024	Triple head	300mm	1
265025	Leg assembly	500mm	1
265027	Nose piece extension	45mm	1
265028	Nose piece extension	100mm	1
265029	Nose piece extension	150mm	1
265026	Ram repair kit	Not included	

BEARING SEPARATORS

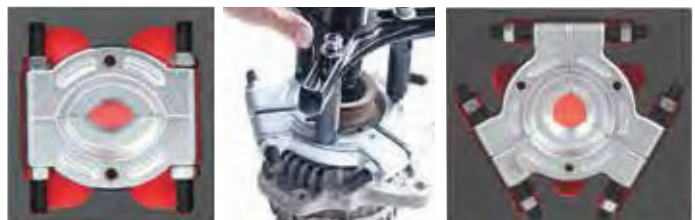
BEARING SEPARATORS BEARING SEPARATORS

- Designed for removing gears and bearings where access is available behind the item
- Drop forged hardened alloy steel, used in conjunction with two leg mechanical pullers, hydraulic pullers or sliding beam applications
- Two knife edges ensure a secure pulling surface
- Supplied in custom moulded EVA form storage tray
- 245000: New style universal 3 jaw style offers better load distribution and covers a wider size range



245000

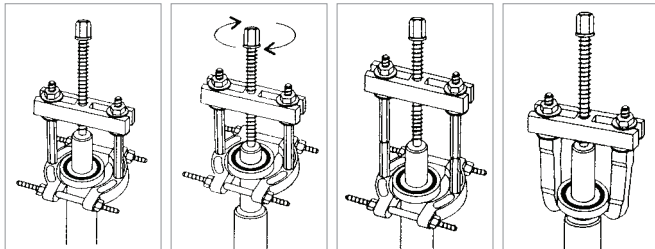
Part No.	Description	Separator Range	Threaded Hole
245040	Bearing separator 2 Jaw	20 - 40mm	3/8"
245050	Bearing separator 2 Jaw	30 - 50mm	3/8"
245075	Bearing separator 2 Jaw	50 - 75mm	3/8"
245105	Bearing separator 2 Jaw	75 - 105mm	1/2"
245150	Bearing separator 2 Jaw	105 - 150mm	5/8"
245000	Bearing separator 3 Jaw	35 - 105mm	3/8"





COMBINATION PULLER KIT
MECHANICAL

- Popular combination puller kit includes components for twin beam sliding leg and rear access bearing separator applications
- Ideal kit to keep on hand for the removal of small bearings in applications such as alternators, generators, domestic appliances, power tools and pumps
- Suitable for applications where standard legs cannot gain access
- Manufactured from drop forged chrome vanadium alloy steel to ensure strength and rigidity to maximise service life
- Supplied in custom moulded plastic hard case
- *Spare: all component available individually (Refer to table below)*



Part No.	Spread External (Min - Max)	Spread Internal (Min - Max)	Reach (Max)	Separator Range
224000	25 - 40mm	40 - 60mm	50mm	20 - 40mm

Contents	Description	Specifications	Qty
224001	Forcing screw	75mm	1
224002	Leg (each)	50mm	2
224003	Main rod (each)	45mm	2
224004	Extension rod (each)	25mm	2
225006	Sliding twin beam	60mm	1
245040	Bearing separator	20 - 40mm	1



BEARING SEPARATOR PULLER KIT
MECHANICAL

- Unique puller kit is designed to enable efficient single point size adjustment and additional security and stability during operation
- Ideal for difficult applications and extra tough pulling jobs where additional strength is required
- Ideal for applications where access is only available behind the bearing
- Extra stable and safe puller kit designed to provide extra force while offering ultimate stability during use
- Includes variable rod lengths
- Tapered separator edge design enables insertion behind close fitting bearings, gears etc.
- Bearing separators offer better all round support and stability
- Supplied in custom moulded plastic hard case
- *Spare: all component available individually (Refer to table below)*



Part No.	Spread (Min - Max)	Reach (Max)	Separator Range
221000	30 - 75mm	300mm	30 - 50mm 50 - 75mm

Contents	Description	Specifications	Qty
221001	Forcing screw	150mm	1
221002	Sliding twin beam	150mm	1
221003	Main rod - 3/8" (each)	60mm	2
221004	Extension rod - 3/8" (each)	90mm	2
221005	Main rod - 3/8" (each)	80mm	2
221006	Extension rod - 3/8" (each)	110mm	2
245050	Bearing separator	30 - 50mm	1
245075	Bearing separator	50 - 75mm	1

BEARING SEPARATORS



BEARING SEPARATOR PULLER KIT
MECHANICAL SINGLE ADJUSTMENT POINT

- Unique puller kit is designed to enable efficient single point size adjustment and additional security and stability during operation
- Ideal for difficult applications and extra tough pulling jobs where additional strength is required
- Ideal for applications where access is only available behind the bearing
- Extra stable and safe puller kit designed to provide extra force while offering ultimate stability during use
- Includes variable rod lengths
- Tapered separator edge design enables insertion behind close fitting bearings, gears etc.
- Bearing separators offer better all round support and stability
- Supplied in custom moulded plastic hard case



Part No.	Spread (Min- Max)	Reach (Min- Max)	Separator Range
222001	30 - 75mm	100 - 170mm	30 - 50mm 50 - 75mm

AUTOMOTIVE PULLERS

STEERING WHEEL PULLER SET

- Steering wheel puller suitable for 5/16" and 3/8" sized applications where access to threaded holes is available
- Drop forged beam for increased rigidity and service life

Part No.	Spread (Min - Max)	Reach (Max)
250250	40 - 80mm	65mm

Description	Specifications	Length	Qty
Beam	-	95mm	1
Bolts	5/16" x 24 UNF	85mm	2
Bolts	5/16" x 18 UNC	85mm	2
Bolts	3/8" x 16 UNC	85mm	2
Flat Tip	17.5mm	12.5mm	1
Forcing screw	1/2" x 20 UNF	95mm	1
Washers	-	-	2



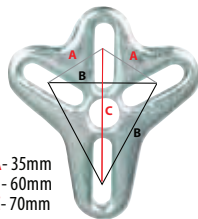


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HARMONIC BALANCER PULLER SET
MASTER 46 PIECE

- Comprehensive multi-purpose puller set designed for the removal of harmonic balancers, timing gears and pulleys where access to 2 or 3 tapped holes is available
- Drop forged 4 slot flange with a range of capped bolts
- Includes 3 different style tips
- Most popular set supplied in custom moulded plastic tray



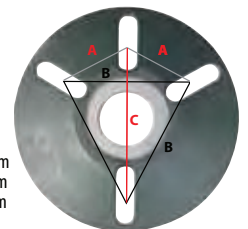
Part No.	Description	Pieces
254230	Master harmonic balancer puller set	46

Description	Specifications	Length	Qty
Bolt	1/4" x 28 UNF	60mm	2
Bolt	3/8" x 16 UNC	110mm	2
Bolt	3/8" x 16 UNC	50mm	3
Bolt	3/8" x 16 UNC	75mm	3
Bolt	3/8" x 24 UNF	35mm	3
Bolt	5/16" x 18 UNC	150mm	2
Bolt	5/16" x 18 UNC	85mm	3
Bolt	5/16" x 24 UNF	75mm	2
Bolt	M8 x 1.25	90mm	2
Bolt	M8 x 1.25	65mm	2
Bolt	M8 x 1.25	45mm	3
Bolt	M10 x 1.50	35mm	3
Flat tip	Ø 22mm	9mm	1
Pointed tip	Ø 15mm	15mm	1
Pointed tip	Ø 20mm	17mm	1
Washers	8mm (5/16") I.D.	–	6
Washers	6mm (1/4") I.D.	–	2
Washers	10mm (3/8") I.D.	–	3
Forcing screw	3/4" x 16 UNF	130mm	1
Yoke	–	–	1



HARMONIC BALANCER PULLER KIT
REMOVER & INSTALLER

- For easy removal of most harmonic balancers and drive pulleys which are press-fitted onto the crankshaft
- Unique disc design enables trouble free removal and installation of harmonic balancers
- Varying range of metric and imperial sized bolts and adaptors provide wide coverage
- Heavy duty forcing screw is internally threaded to fit adaptors
- Includes eight adaptors which maintain a common thread on one end to fit into the forcing screw
- Suitable for 2 or 3 way applications
- Centre bearing provides smooth operation
- Supplied in custom moulded plastic hard case
- *Spares: All components available individually (Refer to table below)*



Part No.	Description	Pieces
245400	Harmonic balancer remover & installer kit	46

Contents	Description	Specifications	Length	Qty
245430	Body puller	Ø 125mm x 18mm	–	1
245431	Forcing screw	M22 x 1.75	150mm	1
245432	Adaptor	7/16" x 20 UNF	56mm	1
245433	Adaptor	M12 x 1.5	56mm	1
245434	Adaptor	1/2" x 20 UNF	56mm	1
245435	Adaptor	M14 x 1.5	56mm	1
245436	Adaptor	9/16" x 18 UNF	56mm	1
245437	Adaptor	5/8" x 18 UNF	56mm	1
245438	Adaptor	M16 x 2.0	56mm	1
245439	Adaptor	3/4" x 16 UNF	56mm	1
–	Bolt	M8 x 1.25	60mm	3
–	Bolt	3/8" x 16 UNC	55mm	3
–	Bolt	3/8" x 24 UNF	55mm	3
–	Cone adaptor	65mm	56mm	1
245429	Washer set (4 Pc.)	10.5mm	–	1 set

AUTOMOTIVE PULLERS

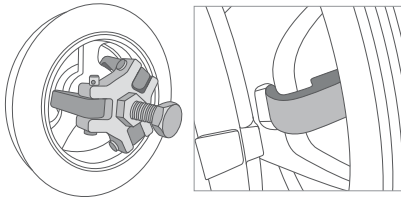


Scan here for video



HARMONIC BALANCER PULLEY PULLER MASTER KIT

- Harmonic balancer puller kit supports various length crankshafts via three forcing rods of 90mm 135mm and 190mm
- Three adjustable compact arms with hook ends cater for tri-spoke harmonic balancers with minimal access
- Ideal for harmonic balancers where access from behind is required
- Suitable for Chrysler, Ford, GM V8 engines, and Mitsubishi
- Legs are manoeuvrable and easy to disassemble in confined engine bay
- Suitable for Holden V8 LS engines
- Supplied in custom moulded plastic hard case



Part No.	Force	Leg Lengths	Forcing Screw
304199	8 Tonne	72mm	88mm

POWER STEERING PUMP PULLEY KIT

- 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



Part No.	Range	Pieces
245380	28 - 35mm	7

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 use on pulleys with grooved hub diameters
- Applications include GM, Chrysler and Ford as well as Saginaw, Thompson and Ford C-2 power steering pumps



Part No.	Suits Hub Diameter
245370	Ø 11/8" (28mm), Ø 11/4" (32mm), Ø 15/16" (34mm) and Ø 13/8" (35mm)



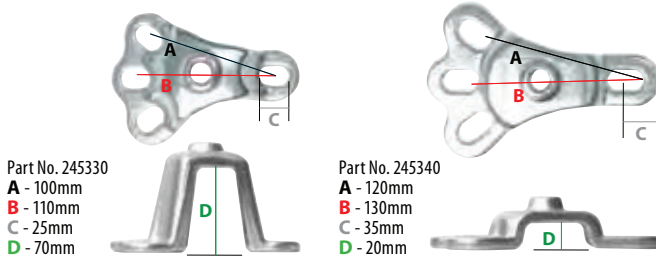


HUB PULLER KIT
SLIDE HAMMER

- Multi-purpose design for 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
- Spares: All components available individually (Refer to table below)



Note: See page 00 for "to scale" trace of product



Part No.	Slide Hammer Assembly	Twin/Triple Head Spread
245300	2.3kg x 600mm	100, 110, 115, 130mm

Contents	Description	Specifications	Image	Qty
245302	Leg assembly (3pc set)	120mm		1 set
245304	Triple head	50mm		1
245306	Twin head	65mm		1
245308	Cone & accessories	-		1 set
245330	Front hub puller	70mm (Depth)		1
245340	Rear axle puller	20mm (Depth)		1
245351	Slide hammer assembly (2.3kg)	600mm		1



HUB PULLER KIT
MECHANICAL & HYDRAULIC

- Universal adjustable 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 used in conjunction with the forcing screw the use 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
- Spares: all component available individually (Refer to table below)

Note: kit supplied with only 2 nose piece extension (Replacement set is 3pc)



Part No.	Force	Reach	Pieces
270000	10 Tonne	190mm	11

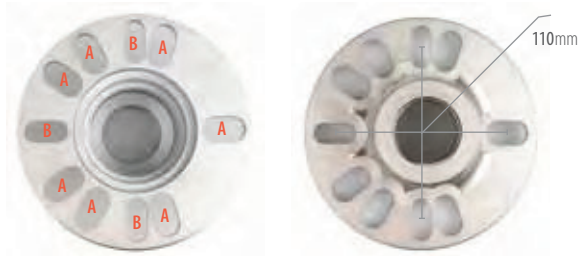
Contents	Description	Specifications	Qty
252001	Forcing screw	200mm	1
252002	Striking handle	200mm width	1
252003	Body plate	-	1
252004	Leg (each)	110mm (hole Ø 17mm)	5
265008	Nose piece extension set	25, 35mm	2
265100	Hydraulic ram	10 Tonne	1

AUTOMOTIVE PULLERS

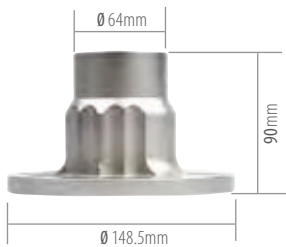


HUB PULLER KIT
HYDRAULIC & SLIDE HAMMER

- 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
- Spares: Replacement yoke assembly (Part No. 269013A)



Centre depth: 60mm
Wheel stud hole size:
A = 15 x 26mm
B = 12 x 26mm



Part No.	Hydraulic Ram	Slide Hammer	Plate Size	Spares
269013	10 Tonne	2.8Kg x 600mm	148.5mm	269013A
Description	Specifications			Qty
Slide hammer assembly 2.8kg (Hammer)	600mm			1
Hydraulic ram (10 Tonne)	M38 x 16T			1
Plate	Ø 148.5mm x 90mm (height)			1
Adaptor	-			1



DIESEL INJECTOR PULLER KIT
SLIDE HAMMER HEAVY DUTY

- A heavy duty puller kit suitable for the removal of the most stubborn and stuck diesel injectors
 - Includes universal joint to permit greater access to restricted areas
 - Suitable for use on Bosch and Delphi diesel injectors
 - Adaptor kit available to extend the kit (Part No. 304042A)
- Note: Master adaptor add on kit also recommended to ensure maximum vehicle coverage*



Part No.	Adaptors	Slide Hammer (Weight x Length)
304042	9	4.8kg x 580mm
Description	Specifications	Application
Slide hammer assembly	4.8kg hammer	-
Universal joint	M18 x 1.6	Universal
Special bit insert hex	10mm x Ø 7.6	1 x special hex SW10 with 7.6 mm bore, 1/2 Square drive, to remove the fixing ring on Bosch injectors at MB CDI and PSA HDI
Special bit insert hex	10mm x Ø 6.6	Remove the internal screw of the common rail injectors
Pull Spindle	OT M14 x 1.5	Mercedes-Benz CDI, Ford TDCI, BMW M47
Pull Spindle	OT M16 x 1.0	Denso injectors
Pull Spindle	OT M17 x 1.0	Bosch injectors
Pull Spindle	OT M20 x 1.0	Denso injectors
Pull Spindle	OT M25 x 1.0	Siemens injectors
Pull Spindle	OT M27 x 1.0	Siemens injectors

Note: OT = Outside Thread



Scan for application list

DIESEL INJECTOR PULLER ADAPTOR SET
MASTER 21 PIECE

- Universal adaptor set to suit kit Part No. 304042 - Slide hammer diesel injector puller kit (Part No. 304042)
- Easily removes stubborn injectors without damaging injector seat
- Application list included and covers the majority of the Australian car parc
- Suitable for common rail diesel
- Supplied in custom moulded plastic hard case



Part No.	Suits	Pieces
304042A	Diesel injector puller kit part no. 304042	21
Description	Specifications	Application
Universal joint	M18 x 1.6	Universal
Special bit insert hex	10mm x Ø 7.6	1 x special hex SW10 with 7.6 mm bore, 1/2" drive to remove the fixing ring on Bosch injectors at MB CDI and PSA HDI
Special bit insert hex	10mm x Ø 6.6	Remove the internal screw of the common rail injectors
Pull spindle	OT M16 x 1.0	Denso injector (Toyota 2.2D)
Pull spindle	OT M17 x 1.0	Bosch injectors (Alfa, BMW, Fiat, MB, PSA, Renault)
Pull spindle	OT M20 x 1.0	Denso injectors
Pull spindle	OT M25 x 1.0	Siemens injectors. Suitable for PSA (DW10) engines Citroen Xsara/Xanita, Peugeot 304/406/206
Pull spindle	OT M27 x 1.0	Siemens injectors. Suitable for PSA (DW10) engines Citroen Xsara/Xanita, Peugeot 304/406/207
Pull spindle	IT M14 x 1.5	Internal thread for Bosch / Delphi Injectors MB (OM 629/642/646), PSA (DV4/DW12), VW (CBD), BMW (M47)
Pull spindle	IT M16 x 1.5	Pull Adapter for M16 x1.5 thread, such as used in Facom tools
Pull spindle	IT M25 x 0.5	Denso injectors
Pull spindle	IT M25 x 0.75	Denso injectors
Pull spindle	IT M27 x 1.0	Siemens e.g. Citroen C5 / Jumpy / Xsara, Fiat Ducato JTD, Peugeot 206/307/406 / Boxer (2.0 / 2.2 / 2.3 HDI) Mercedes-Benz CDI (except A-Class (Sprinter / Vito)
Special socket	25mm	Siemens Injectors - 2.0 Hdi (DW Series) As found on PSA, Ford, Toyota etc
Special socket	27mm	Siemens Piezo Injectors - 2.0 Hdi Piezo (DW Series) As found on PSA etc
Special socket	29mm	Bosch injectors - Bosch Cdi / Hdi engines
Special socket	30mm	Bosch injectors - Bosch Renault / Nissan 1.9dCi
Injector gripper	12mm	Mercedes-Benz CDI-engines, except Sprinter, Vito and A-class
Injector gripper	13.5mm	GM/Opel, Renault F9Q
Injector gripper	16mm	Fiat Ducato JTD, Citroen C5, Xsara, Jumpy and Jumper HDI and Peugeot 206, 307, 406, Boxer HDI (2.0, 2.2, 2.3l)
Injector gripper	26mm	Opel Z19DT / Z19DTH / Z19DTL engines, A20DTH (LBS) / A20DTR (LBV) / A20DTJ (LBX) / A20DTC (LCD) and Fiat 1.9 JTD
Injector gripper	26mm	Opel Z19DT / Z19DTH / Z19DTL engines, A20DTH (LBS) / A20DTR (LBV) / A20DTJ (LBX) / A20DTC (LCD) and Fiat 1.9 JTD

Note: **OT** = Outside Thread, **IT** = Inside Thread



HUB SEPARATOR KIT
UNIVERSAL HEAVY DUTY

- Universal hub separator set for hub removal on popular front wheel drive vehicles
- Durable ACME threaded forcing and adjusting screws ensure long product life
- Spares: Available via special order only. Contact Tridon customer service

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

Part No.	Ref	Description	Specifications	Qty
-	A	Main body assembly	370mm	1
245440B	B	Forcing screw	220mm	1
-	C	Adaptor tube	Ø 37mm (l) x 89mm	1
245440D	D	Adaptor bracket	185mm	1
-	E	Adaptor legs (Saab)	65 x 25mm	2
-	F	Adaptor plates (Honda)	85 x 35mm	2
245440G	G	Adjusting screw	200mm	1
-	H	Mounting bolts	M12 x 1.75 (117mm)	1
-	I	Mounting bolts	M10 x 1.50 (31mm)	2
-	J	Mounting bolts	7/16" 14 UNC (80mm)	2
-	K	Mounting bolts	M12 x 1.75 (58mm)	2
-	L	Adaptor bracket bolt	M12 x 1.75 (32mm)	1

