



1238 ONE MAN OPERATION - VALVE SPRING COMPRESSOR KIT

單人操作免拆式凡爾鉗

- Easy of use, operated by one person only.
- Recessed pocket on valve pusher allows replacement retrieval of valve collets.
- Valve pusher: 22mm ϕ .
- Complete service tool kit for installation and removal of the valve spring without removal of cylinder head from the engine.
- Applicable: 12V, 16V, 20V, and 24V engine.
- Patented.



1620 VALVE SPRING COMPRESSOR KIT

免拆式凡爾鉗

- Complete service tool kit for installation and removal of the valve spring without removal of cylinder head from the engine.
- Applicable for OHV&OHC petrol/diesel engine on Audi, Nissan, Toyota, Chrysler, Honda, Mazda, Mitsubishi, Porsche, Volvo, VW, etc.



1711 VALVE SPRING COMPRESSOR

萬能凡爾鉗

- Reversible jaw adaptor for multi-valve engines.
- Capacity 45-145mm, throated clearance 250mm big window jaw adaptor for easy replacement of valve collets.
- Dual size in 25mm and 30mm diameter.



1731 UNIVERSAL VALVE SPRING COMPRESSOR

雙壓式凡爾鉗

- Suitable for using on multi-valve petrol & diesel engines with deep seated valves.
- Also for use with OHC OHV & CVH engines.
- Jaw capacity of 55mm-175mm.
- Throat depth: 165mm.



4621 HEAVY DUTY VALVE SPRING COMPRESSOR

爪式強力凡爾鉗

- Made of steel for heavy duty operation.
- Changeable jaws (straight, and bend) to be fixed on the track for stronger.
- Applicable: 12V, Diesel engine, and outstanding spring type engine.



1814 TORQUE ANGLE GAUGE

扭力角度規

- Calling for fasteners to be tightened after torque load in torque-angle applications.
- 360 degree scale clearly marked in 2 degree increments & in intervals of 30.
- Easily zero the gauge by turning housing for every application.



4613 STEEL TORQUE ANGLE GAUGE WITH MAGNET

鐵製扭力角度規(附磁鐵)

- Surface scale is 360°; minimum is 2". It can be set by right or left.
- Flexible hose can be used in curve space, all length is 418mm. It has a powerful magnet in front of and easy to fix on every position.
- Operated by 1/2" wrench will be more convenient owing to appropriate distance between axle center and scale plate.



4867 STEEL TORQUE ANGLE GAUGE WITH CLIP

鐵製扭力角度規(附夾子)

- All the descriptions are the same as JTC-4613.
- Change the magnet to the clamp for fixing on every position.



4740 3/4" TORQUE ANGLE GAUGE

3/4" 扭力角度規

- 360 degree scale clearly marked in 5 degree increments & in intervals of 30.
- Calling of fasteners to be tightened after torque load in torque-angle applications.
- Operated by 3/4" wrench will be more convenient owing to appropriate distance between axle and scale plate.
- 3/4" drive length: 100mm



1430 OVERHEAD VALVE SPRING COMPRESSOR

下壓式凡爾鉗

- For use on a wide range of OHV, OHC and CHV engines.
- Not suitable for using on engines with deep seated valves.
- Allow valve springs and valve stem oil seals to be replaced with the cylinder head.
- Feature a reversible jaw/adaptor and automatic cam-action locking to a re-determined setting.



1304 VALVE SPRING COMPRESSOR

螺桿型凡爾鉗5PCS

- Used for Car & Motorcycle.
- Pusher size: 16mm, 19mm, 23mm, 25mm, and 30mm.
- 5pcs pusher for fitting the valve spring correctly and compress the valve spring easily.



**1904N VALVE ADJUSTING TOOLS****氣門墊片更換夾鉗組 (NISSAN)**

- For overhead camshaft engines using spacer shims.
- This unique tool has been designed to allow for easy valve adjustment on all NISSAN'S, and many other overhead camshaft engines using spacer shims for valve adjustment in operation.

**1904T VALVE ADJUSTING TOOLS****氣門墊片更換夾鉗組 (TOYOTA)**

- For overhead camshaft engines using spacer shims.
- This unique tool has been designed to allow for easy valve adjustment on all TOYOTA'S LEXUS and many other overhead camshaft engines using spacer shims for valve adjustment in operation.

**4004 VALVE ADJUSTING TOOLS****氣門墊片更換夾鉗組 (堅達)**

- For overhead camshaft engines using spacer shims.
- This unique tool has been designed to allow for easy valve adjustment on MITSUBISHI diesel engine, and many other overhead camshaft engines using spacer shims for valve adjustment in operation.
- Applicable : MITSUBISHI diesel engine CANTER 3.5T, 6.7T, 6.9T.

**1937 VALVE ADJUSTING TOOLS****氣門墊片更換夾鉗 (歐系)**

- Used for VOLVO, OPEL and European cars.
- For overhead camshaft engines.

**1302 VALVE LIFTER REMOVAL / INSTALL TOOL****氣缸油壓頂桿拆裝器**

- Special designed to depress the valve spring for removal of the hydraulic valve lifters.
- By pulling up on the tool, the valve spring is depressed and remove the valve spring retainer and then the hydraulic valve lifter can be removed.
- Applicable engine: DOHC 1.6 liter and 2.0 liter, 4 cylinder, 1989 and later, 3.0 liter 6 cylinder, 1991 and later, 3.5 liter 6 cylinder, 1995 & 1996.
- Applicable: MITSUBISHI, KIA and CHRYSLER.

**1010 STRAIGHT EDGE****氣缸平面量規壓尺**

- Dimension 35mm height and 520mm length. Convenient hanging hole and edge protector.
- Use with feeler gauges to check distortion in engine blocks, cylinder heads and flywheels.

**1252 VALVE COLLET REMOVER****氣門彈簧半圓形固定銷拆卸器**

- Full length: 160mm
- Designed to remove the valve collet quickly and easily.
- The body is with magnet. When you hit the tool to the valve spring, the collet will be attracted by the magnet.
- Patented.

**4944 VALVE KEEPER REMOVER AND INSTALLER KIT****氣門彈簧固定銷拆裝器**

- Special designed for using on all engines with overhead valves.
- Valve springs will not be bended or loosen. Works on gas or diesel engines.
- Fits most overhead valve applications.
- Magnet in tool body captures keepers for quick removal and valve disassembly
- Quickly removes and installs valve keepers on most overhead valve engines.
- Works on valve stems from 4.5 to 7.5mm and 5/16" to 3/8".



Removing

Installing

**1244 VALVE COLLET INSTALLING & PICK UP TOOL****氣門彈簧半圓型固定銷按裝器**

- This tool holds the valve keepers in its magnetic jaws for better adjustment into the valve stem grooves during installation.
- Easily reaches into recessed pocket to retrieve install valve keepers.
- Retrieves small parts from any recessed or limited area.
- Contents: 3 pcs valve keeper installing tool
Flexible magnetic pick up tool

**1243 DEEP VALVE SEAL REMOVER****深孔型氣門油封拔取鉗**

- This model of remover is designed to remove the deep seated valve seal.
- Maximum: 23 φ
- Maximum depth: 217mm
- T handle with ON-OFF function for stronger grasp of seal.
- Patented.

**1716 VALVE STEM SEAL PLIERS****氣門油封拔取鉗**

- Designed to reach into confined area for removal of valve seal.
- Serrated tip for better grasp of valve seal regardless of its configuration.

**1717 VALVE SEAL REMOVAL & INSTALLER KIT****氣門油封拆裝組**

- For removing and installation of valve seal.
- Precision machined seal driving adapters for proper setting of valve seal.
- Set contains: 1-Valve stem seal plier. (JTC-1716)
1- Drive handle 6" (150mm) long.
2- Deep seal driving sockets for seals O.D. 10.8-14.8mm
7-Seal driving adapters fit seals 5, 5.5, 6, 6.6, 7, 8 & 3/8".





4866 INJECTION PUMP SPROCKET LOCKING

雷諾噴射泵浦固定器

TOOL - RENAULT

- Special designed for locking the injection pump sprocket.
- Applicable : Clio, Megane, Laguna, Kangoo 1.9 dTi engine



4849 CAMSHAFT ALIGNMENT TOOL RENAULT 1.8 /

雷諾正時工具組 (1.8, 2.0 16V)

2.0 16V

- Engine camshaft sprocket locking device updated timing belt replacement procedures for the engines detailed below, require examination of the crankshaft to determine acceptance of the new crank gear with integral Woodruff key and release of the camshaft sprocket bolts requiring use of locking device.
- Applicable : RENAULT 1.8 16V F4P/ 2.0 16V F4R.



4925 RENAULT ENGINE TIMING TOOL SET (2.0 IDE)

雷諾正時工具 (2.0 IDE)

- Suitable for engine timing and belt replacement applications of Renault F5R 2.0 16V IDE (direct injection) twin cam petrol engines found on the Megane and Laguna.
- Kit contains camshaft setting plate and crankshaft locking pin.
- Applicable : Renault, Megane, Laguna 2.0IDE Petrol Engines.
- Engine codes : F5R 700 / 701 / 740.

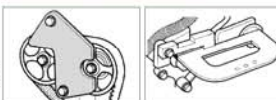


4677A ENGINE TIMING TOOL SET - RENAULT

雷諾正時工具組

- This new camshaft pulley setting tool holds two pulleys in place while changing the cam belt and correct engine timing to be performed when changing the timing belt.

- Applicable: Renault 16V & K4J, K4M & F4P, F4R.
1.4 16V K4J.
1.6 16V K4M.
1.8 16V F4P & F4R(Lagunall).



4770A ENGINE TIMING TOOL SET-RENAULT

雷諾正時工具組 (綜合型)

- Installing and removal of camshaft / variable camshaft timing unit.
- Checking and adjustment of timing.
- Petrol engine: Twin camshaft engine: 1.2, 1.4, 1.6, 1.8, 2.0 16V, 2.5 20V.
- Diesel engine: 1.9D/TD/dTi, 2.2D/TD, 2.5D, 2.8dTi, 1.5dCi, 1.9dCi, 2.2dCi, 2.5dCi

4843 DIESEL ENGINE TIMING TOOL SET (RENAULT,

柴油正時工具組 (雷諾, 日產, 歐寶) NISSAN, OPEL)

- To prevent the engine shafts(camshaft, crankshaft)from turning belt tensioner when changing a timing belt or during other engine repairs.

- Renault : Clio, Megane, Scenic, Lanana, Espace, Kangoo, Trafic, Master (99-04) .
Nissan : Micra, Kubistar, Primastar, Interstar.
Opel: Vivaro, Movano.
- Engine : 1.5, 1.9, 2.2, 2.5DCI. (K9K, K9Q, G9T, G9U)



4926 TRAIN DRIVEN DIESEL ENGINE TIMING TOOL

SET-CHAIN (RENAULT, NISSAN, OPEL)

內鍊式柴油正時工具組 (雷諾, 日產, 歐寶)

- This engine timing tool set includes important tools for chain driven dCi diesel engines.
- This is a Chain driven engine and not considered a service time.
- The Chain will only need replacement or checking if the sprockets or tensioners are dismantled.
- Applicable : RENAULT 2.0 dCi M9R engine
OPEL 2.0 CDTI M9R engine
NISSAN 2.0 dCi



4678 ENGINE TIMING TOOL SET - FIAT & OPEL

飛雅特, 歐寶正時工具組

- This comprehensive set of tools enables the correct engine timing to be made when replacing the timing belt.
- Applicable: FIAT & OPEL



4656 6PCS BELT TENSIONER RETAINING PINS SET

6PCS固定插銷組

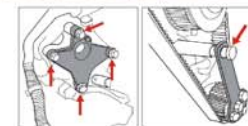
- Special tool to compress the tensioner plunger when a belt tensioner is removed from the engine.
- The set provides six pins at different sizes to retain a retracted position.
- Pin size: 0.79mm(0.031"); 1.24mm(0.049")
1.37mm(0.054"); 1.49mm(0.059")
1.68mm(0.066"); 1.92mm(0.076")



4929 FIAT ENGINE TIMING TOOL SET (8V) - BELT

飛雅特正時工具組 (8V)

- Kit consists of crankshaft locking tool, camshaft setting plate and belt tensioner adjuster for the 1.2 engine, and additional sprocket locking tool and alignment fixture for the camshaft on the 1.4 WT engine.
- Applicable : FIAT 500 / Idea / Linea / Punto / Doblo / Panda Ev02 and FORD KA.
- Engines : 1.2 -169A4.000, 199A4.000,
1.2 -188A 4.000(EV02 only),
1.4(16V) - 350A1.000.



4846 DIESEL ENGINE TIMING TOOL SET - FIAT

飛雅特柴油正時工具組

- Applicable : FIAT Punto 1.7D/TD Tipo 1.9D / Ducato 1.9D / Tempra 1.9D Tipo 1.9TD / Ducato 19TD / Tempra 1.9TD diesel engines with an adjustable camshaft timing belt pulley.



4766 ENGINE TIMING TOOL SET - FIAT

飛雅特正時工具組

- Installing and removal of camshaft / variable camshaft timing unit.
- Checking and adjustment of timing.
- Twin camshaft engine: 1.2, 1.4, 1.6, 1.8 16V engine.
- Diesel engine: 1.9D/TD, 1.9JTD, 2.4TD/JTD





4767 UNIVERSAL BELT TENSION ADJUSTER SET

綜合型正時惰輪調整器組

- Complete range of tension lever and wrench for changing the cam belt on most petrol and diesel engines.
- Applicable: ALFA ROMEO, FIAT, CITROEN, PAUGEOT, RENAULT, VW etc.



4712 ENGINE TIMING TOOL SET - OPEL & GM

歐寶, GM正時工具組

- Applicable: ASTRA VECTRA VX220 ZAFIRA & SIGNUM(00-04)
- To hold position of coolant pump, sprocket during replacement of pump, maintaining engine timing.
- Codes: K9K, G9T, G9U



4765 ENGINE TIMING TOOL SET-OPEL, VAUXHALL

歐寶, VAUXHALL正時工具組

- Installing and removal of camshaft / variable camshaft timing unit.
- Checking and adjustment of timing.
- Petrol: 1.0 12V, 1.2 16V, and twin camshaft engines. 1.4, 1.6, 1.8, 2.0, 2.2 16V since 1995
- Diesel: 1.3 CDTi 16V, 1.9 CDTi, 2.0 2.2 DTi



4851 VALVE SPRING COMPRESSOR - CITROEN & PEUGEOT

雪鐵龍, 寶獅汽門彈簧壓縮工具

- Used to free the camshaft from tension created by contact with the valves and enables correct tension to be applied to the timing belt.
- Applicable: CITROEN, PEUGEOT 1.0/1.1/1.4/1.6 Engine



4845 ENGINE TIMING TOOL SET - CITROEN & PEUGEOT

雪鐵龍, 寶獅正時工具組

- This comprehensive set of tools enables the correct engine timing to be made when replacing the timing belt. Suitable for using on the most recent car with either HPI (petrol) or HDI (diesel) engines.
- Applicable: Citroen and Peugeot Twin Cam 16V Petrol engine codes (EW7J4, EW10J4, EW10J4S, EW10D-HPi, EW12J4).
- Citroen: Xsara / Picasso C4,C5, Evasion / Synergie, C8, Jumpy / Dispatch
- Peugeot: 206, 307, 406/Coupe, 607, 806, 807, Expert.
- Upgraded from JTC-4675 for more widely use.



4675 ENGINE TIMING TOOL SET - CITROEN & PEUGEOT

雪鐵龍,寶獅正時工具組

- This comprehensive set of tools enables the correct engine timing to be made when replacing the timing belt.
- Applicable:Citroen and Peugeot with either HPI(Petrol) or HDi (Diesel) engines

1723 CAMSHAFT ALIGNMENT TOOL - FORD

正時工具組(福特)

- For holding camshaft in place.
- Applicable: FORD: Mondeo, Focus.



1418 FORD/MAZDA TDC TIMING PINS

FORD/MAZDA 正時插銷

- Updated set now covers zetec engines found in Focus, Mondeo and Cougar from 98 on.
- Also covers Ford 1.6, 1.8, twin cam 16V petrol engines, and Mazda 121 1.25ltr petrol engine.



4090 FORD / MAZDA TIMING TOOLS SET (5PCS)

FORD / MAZDA 正時工具組 (5PCS)

- The plate is used to fix camshaft.
- The 3 bolts are designed to fix crankshaft.
- Applicable: FORD / MAZDA petrol and diesel engines.



1813 CAMSHAFT ALIGNMENT TOOL - FORD

正時工具組(福特天王星)

- For holding camshaft in place.
- Applicable: Ford Telstar.



4721 ENGINE TIMING TOOLS - FORD

FORD 柴油車正時工具

- Flywheel locking tool with 2 adaptors.
- For FORD diesel and petrol engines.

Focus 2.0 TDCi	Focus C Max 2.0 TDCi	G6DA, G6DB, G6DC
Focus 1.6 T-VCT	Focus C Max 1.6Ti - VCT	HXDA
Fiesta 1.8 D Turbo		C9DC RTN RTP RTQ, Chain engines
Focus 1.8 / TDDi / TDCi		BHDA / B C9DC, C/DA / B FFDA F9DA/B KKDA - Chain engines
Focus C Max 1.8 TDCi		KKDA - Chain engine
Tourneo Connect 1.8, TDDi / TDCi		BHPA HCPA HCPB, Chain engines
Transit Connect 1.8, TDDi / TDCi		BHPA HCPA HCPB, Chain engines



4763 ENGINE TIMING TOOL SET - FORD

FORD 1.6 Ti-VCT正時工具組

- Installing and removal of camshaft / variable camshaft timing unit.
- Checking and adjustment of timing.
- Applicable: FORD Focus/ Cmax 1.6 Ti-VCT 2003 later, 2.0 Tdci
- Engine code: HXDA, G6DA, G6DB, G6DC 2003 later



4676 ENGINE TIMING TOOL SET - FORD & MAZDA

FORD, MAZDA 正時工具組

- This comprehensive set of tools enables the correct engine timing to be made when replacing the timing belt.
- Applicable: FORD & MAZDA



4030 PORSCHE CAMSHAFT TIMING TOOL SET

PORSCHE凸輪軸正時工具組

- This comprehensive set of tools enables to correct engine timing to be made when replacing the timing belt.
- Applicable : M97/01 engine.
PORSCHE cayenne

4031 PORSCHE CAMSHAFT TIMING TOOL SET

PORSCHE凸輪軸正時工具組

- This comprehensive set of tools enables to correct engine timing to be made when replacing the timing belt.
- Applicable : PORSCHE cayenne 4.5L, 4.8L AUDI Q7

4032 PORSCHE PNEUMATIC CHAIN TENSIONER

PORSCHE氣壓鏈條張緊器

- To adjust tension of chain by pneumatic
- To adjust chain of V8 engine
- Applicable : PORSCHE cayenne 4.5L, 4.8L AUDI Q7

4038 CHERY ENGINE TIMING TOOL SET (A3, A5)

奇瑞正時工具組(A3, A5)

- Special designed to hold and align the camshaft for adjusting the timing.
- Applicable: Chery A3, A5, Tiggo
- Engine model: SQR481, 484.

4750 UNIVERSAL FLYWHEEL LOCKING TOOL

通用型飛輪固定器

- Special designed to lock the flywheel when the gearbox is dismounted.
- The tool can be adjusted axially and radially for almost universally by screwing in different stud bolts.
- Using range: 92-107mm



4684 UNIVERSAL FLYWHEEL LOCKING TOOL

通用型飛輪支撐板手

- Special designed for locking flywheel when dismantling or reassembling flywheels, clutch pressure plates and belt pulley.
- Length: 250mm



1548 19PCS TIMING LOCKING TOOL KIT

19PCS綜合型正時固定器

- This comprehensive set of tools enables the correct engine timing to be made when replacing the timing belt.
- Applicable:FORD,MAZDA,OPEL,SAAB,LAND ROVER, CITROEN, PEUGEOT,VW,ISUZU,HONDA, etc.

4809 UNIVERSAL SPROCKET LOCKING DEVICE

夾持型雙凸輪軸固定器

(TWIN CAM)

- Universally adjustable for toothed pulleys spaced between approximately 5mm to 85mm apart.
- For engines with twin camshafts (CITROEN FIAT FORD HONDA RENAULT ROVER SAAB SUBARU TOYOTA VOLVO) and for diesel engines to lock the camshaft and injection pump (VW-AUDI FORD SEAT SKODA)
- By inserting the locking tool in the drive pulleys during repairing or changing the timing belt.



1314 UNIVERSAL TWIN/4CAM LOCK

雙凸輪軸固定器

- Special designed to lock twin camshafts timing marks during timing belt replacement.
- Fit onto sprockets and lock into the teeth.
- Adjustable arms to fit various diameters and tooth pitch.
- Also suitable for locking between cam and diesel injection pump sprockets.
- One man operation.
- Applicable: Petrol & Diesel engines.



4085 CAMSHAFT PULLEY LOCKING TOOL

圓柱型雙凸輪軸固定器

- Special designed 4 columns to fix the camshaft pulley.
- Attached with another extra long column for wider camshaft pulley.
- Applicable for most models of vehicle.



4080 LAND ROVER TIMING TOOL SET (V8)

LAND ROVER正時工具組 (V8)

- This comprehensive set of tools enable the correct engine timing to be made when replacing the timing belt.
- Applicable: 2005 later New Range Rover, Range Rover Sport, overy 3 . 2007 later JAGUAR- XJ8, XJR, S-type, XF, XK8, XKR
- Engine: LAND ROVER 4.0, 4.2 V8 petrol engine.
JAGUAR 3.2, 3.5, 4.0, 4.2 V8 petrol engine.



4764 JAGUAR, LAND ROVER ENGINE TIMING TOOL SET

JAGUAR, LAND ROVER正時工具組

- Flywheel locking tools and camshaft timing pins.
- Applicable: LAND ROVER Sport 2.7 TDV6,
JAGUAR S-type V6 TDVI



4099 ROVER CAMSHAFT ALIGNMENT TOOL (KV6)

ROVER正時工具組 (KV6)

- Timing belt replacement for all variants of the Rover KV6 engine (except 190) in Rover.
- Applicable: Rover: 45, 75, 160, 180, 190, 825
MG: ZS, ZR, ZT/ ZT-T
Land Rover: Freelander 2.5
- Engine: 2.0 V6 & 2.5 V6 (1999-2005)





4708 VOLVO SERPENTINE BELT TOOL

VOLVO 惰輪調整扳手

- Square head at the front part for turning around the idler and replace serpentine belt.
- Applicable : VOLVO models since 1995.



4022 VOLVO CYLINDER COVER REMOVAL PLIERS

VOLVO 氣缸蓋拆卸鉗

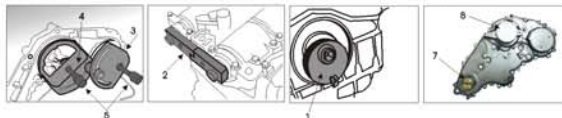
- Special designed tool to pry the cover via the front part of salient.
- Applicable : VOLVO



4002 VOLVO CAMSHAFT ALIGNMENT TOOL (T6)

VOLVO 正時工具組(T6)

- Special designed to align the engine camshaft and crankshaft position, and correct into the side cover.
- Applicable : VOLVO S80, XC90, XC60, XC703.0T, 3.2 (T6 Engine) since 2007.



1829 CAMSHAFT/CRANKSHAFT ALIGNMENT TOOL

正時工具組 (VOLVO 專用)

- For alignment of the cam and crankshafts. Also enables correct stallation of the camshafts with the cam cover.
- This tool is used for the alignment of the camshafts & crankshafts on in-line 4, 5& 6 cylinder. Twin cam motors through 2006. May also be used to align the camshafts w/ the cam cover.
- Applicable: VOLVO models 850, 960, S40, S70 and S90.
- Engines: B6254GS, B6294T, B5234T4, B6294S2, B5244S6, 2, B5234FS, B4184S2, B5254FS M4.4, B4204T2, B5244S4, B5254T, B5234T9, 4T3(US) (CDN), B6304S3, B5204T4, B5244S5, B5204T3, B5204FS, 252FS, B5254FS .M 4.3, B4194T, B6294S, B5244T4, B6254FS, B4184S, 234T6, B5234T2, B6304FS2, GB5252S, B4204S2, B4204T, B5244S2, B5204T5, B5244T7, B4184S9, B4204T4, B6284T, B5234T5, B6304FS, B4204T3, B5244SG2, B6244FS, B4184SJ, B4204T2 CVVT, B5244T7, B6304GS, B5254T4, B4184S3, B5234T3, B5244T2, B5244T5, B5254T2, 4184S10, B4194T2, B5254T3, B5254S DENSO, B4164S, B5254FS LH 3.2, 44SG, B5244T, B4204T5, B5202FS, B4164S2 & , D4192T2.



4775 VOLVO COMPUTER CONTROL BOX REMOVER

VOLVO 電腦控制模組拆裝器 INSTALLER

- Special designed to remove and install the computer control box easily and safely.
- Applicable: VOLVO S40, S60, S70, S80, XC90 etc.



4023 VOLVO DIESEL OIL FILTER WRENCH-D5

VOLVO 柴油濾心器扳手D5

- Special designed to remove and install oil filter on D5 engine.
- 3/8" DR. x 6 points
- Applicable : XC90, XC70, XC60, S80 diesel engine.



4024 VOLVO FUEL TANK LID TOOL-XC90

VOLVO 燃油泵浦油箱蓋拆裝器XC90

- Special designed to remove and install the fuel tank lid on VOLVO XC90 diesel or petrol engine.
- 1/2" DR. x 18 points 106mm.
- Applicable : VOLVO - XC90.



4025 VOLVO FUEL TANK LID TOOL

VOLVO 燃油泵浦油箱蓋拆裝器

- Special designed to remove and install the fuel tank lid on VOLVO diesel or petrol engine.
- 1/2" DR. x 12 points 155mm.
- Applicable : VOLVO - XC60, XC70, S40, S80, V50.



4041 FUEL FILTER LID WRENCH

法系車油箱蓋扳手(46齒)

- This fuel filter wrench is required to remove and install the fuel filter cap.
- Suitable for PEUGEOT, CITROEN, RENAULT WITH HDI ENGINES
- Size : ϕ 108mm / 46RIBS



4042 FUEL FILTER LID WRENCH

法系車油箱蓋扳手(8齒)

- This fuel filter wrench is required to remove and install the fuel filter cap.
- Suitable for PEUGEOT, CITROEN, RENAULT
- Size : ϕ 109mm / 8RIBS



1015 FUEL TANK LID TOOL(SAAB)

汽油油箱蓋拆裝器 (SAAB)

- Applicable: SAAB model 900.
- Used to remove & install the plastic fuel tank lid.





1608 SEAL PULLER

油封拉拔器(雙頭大型)

- Removes oil & grease seals.
- Two tips fit most application.



1408 ENGINE BALANCE SHAFT O-RING REMOVER

引擎平衡軸O令更換套筒

- Suitable for removing the o-ring of engine balance shaft.
- The special socket will remove the special screw on the o-ring and then replace the o-ring easily.
- Applicable: Mitsubishi, KIA



1113 VACUUM CUP VALVE GRINDER

手動凡爾研磨器(2PCS)

- For hand grinding flat head, unslotted valves.
- Synthetic rubber vacuum cups are resistant to oil, grease, gasoline and are replaceable.
- Cup diameters: 5/8", 13/16", 1-1/8", 1-3/8".



1424 UNIVERSAL TENSIONING GAUGE FOR CAM BELTS

皮帶張力器

- It can be used to adjust the tension on the cam belt where the movement of timing belt is measured by load(NM).
- Suitable for using on cam belts various belt widths.
- Easy to use.
- Clear incremental marking with knurled knob for precise measurement.
- Dual scale allows reading from top or bottom of tool.



4027 4PCS CUP ROCKET SET

4PCS 油封導入工具組

- This tool enable cups to be installed smoothly without scratching damage o-ring cylinders.
- Contents:
1-1/2" (33.2mm / 35mm) for UD/FUSO, HINO.
1-3/8" (31.2mm / 33mm) for UD.
1-7/16" (36.7mm / 38.5mm) for HINO.
1-1/2" (38.2mm / 40.0mm) for HINO.



4655 7PCS CUP ROCKET SET

7PCS 油封導入工具組

- The special designed enabled cup to install O-ring smoothly and easily, eliminating damage to the O-ring cylinders.
- Applicable:
φ 9/16" (14.4mm~16.0mm); φ 5/8" (15.9mm~17.5mm)
φ 11/16" (17.5mm~19.1mm); φ 13/16" (20.7mm~22.4mm)
φ 15/16" (24.0mm~26.0mm); φ 1.0" (25.5mm~27.5mm)
φ 1-13/16" (30.3mm~32.3mm)



4722 CAM AND CRANK SHAFT SEAL PULLER

調整型油封拆卸器

- Engage the adjustable hook behind the seal.
- Brace the push rod against the engine head then push the handle to remove the seal.
- Remove the seal easily & quickly without damaging to the cam & crank shaft.



1730 5PCS HOOK & PICK SET

5PCS 小型油封拉拔器

- Stainless steel points.
- Set contains awl, hook tool, 45° & 90° bent tool.
- Use for detail works and scribing, picking jobs.



4808 3PCS SEAL PULLER SET

3PCS 油封拉拔器

- Quickly and easily remove O-ring or grease and oil seal.
- Special angle on the tool head provides a better work than the traditional seal pullers.
- 3 different lengths and tips fit nearly all applications.
- Simple insert the tool tips, press and pull.
- Length : 117/165/150 mm



4062 6PCS SEAL & HOSE REMOVER KIT

6PCS 油封拆卸組

- Special designed tool to remove seals, O-rings, and hoses on vehicle easily.
- Provided with different length and angle fits wide applications.
- Angled blade is ideal for removing seals in limited space.



4774 CAMSHAFT SEAL INSTALLER

凸輪軸油封按裝器

- Special designed to install the cam seal in 4 & 6 cylinder.
- Applicable: MAZDA, NISSAN, TOYOTA, LEXUS etc.



4901 UNIVERSAL CAMSHAFT SEAL REMOVAL & INSTALLER

通用型凸輪軸油封拆裝組

INSTALLER

- Allow the crank seal to be replaced without dismantling the crank case saving your time and costs. Do not worry about scraping the crank surface.
- Universal use covering a wide range of cars with oil seals between 27mm and 58mm in diameter.
- The blue seal adapters are made of aluminum to prevent the damage of crank.





1734 PISTON RING COMPRESSOR

活塞環夾3" x 125mm

- Self locking ratchet pawl prevents premature release and allows positive locking action.
- 3" height, capacity 2-1/8" to 5" (53-125mm)



1735 PISTON RING COMPRESSOR

活塞環夾3" x 175mm

- Self locking ratchet pawl prevents premature release and allows positive locking action.
- 3" height, capacity 3-1/2" to 7" (90-175mm)



1736 PISTON RING COMPRESSOR

活塞環夾4" x 175mm

- Self locking ratchet pawl prevents premature release and allows positive locking action.
- 4" height, capacity 3-1/2" to 7" (90-175mm)



1737 PISTON RING COMPRESSOR

活塞環夾6" x 175mm

- Self locking ratchet pawl prevents premature release and allows positive locking action.
- 6" height, capacity 3-1/2" to 7" (90-175mm)



1348 ADJUSTABLE PISTON RING INSTALLER

活塞環撥開鉗

- Make installing piston rings safe and easy without over-expanding rings.
- Works on most common piston diameter.
- Capacity: 3/64" to 1/4" thickness.



4007 HEAVY DUTY PISTON RING INSTALLER

強力型活塞環撥開鉗

- Save by reducing ring breakage.
- Tapered jaws to remove and install most passenger car and light truck rings.
- Capacity : 3-1/4" ~ 5-5/16" (83-135mm).



德式活塞環撥開鉗 PISTON RING INSTALLER

- Made from special steel.
- Nickel-plated.
- For removing and mounting piston rings.

編號 Item	能力 Range
4008	50~100mm
4009	80~120mm
4010	110~160mm

1315 OIL PAN SEPARATOR TOOL

油底殼密封處分離器

- Wide, tapered, round blade edges between metal surfaces to break gasket seals on engine pumps, transmissions or any difficult to separate gasket joints.
- Blade width: 1-7/8" (48mm)
- Length: 3-1/8" (78mm)



4078 OIL PAN SEPARATOR AND CLEAN KIT

油底殼分離清潔組

- Break gasket seals on engine sumps, transmissions or any difficulties to separate gasket joints.
- The copper blade could avoid damaging on gasket or oil pan connection joint surface.
- Clean up wheel tool helps use to clean all small spaces on cylinder head.



1117 13PCS OIL SCREWS SOCKET SET

13PCS油底殼螺絲套筒組

- ● : 3/8", 8, 9, 10, 12, 14, 17mm
- ■ : 8, 9, 10, 11, 12, 13mm
- Use with wrench 17mm.
- Use to remove the engine oil and transmission oil screws.



1422 BRAKE CYLINDER HONE

剎車三爪內徑研磨器(64mm)

- Range: 3/4"-2-1/2"(19-64mm)
- Stone size: 28.5 x 5 x 3mm (3pcs)
- Collar prevents stone breakage.
- Sleeve makes insertion in cylinder easy and protects stones when not in use.



1423 ENGINE CYLINDER HONE

引擎三爪內徑研磨器(178mm)

- Range: 2"-7"(51-178mm)
- Stone size: 100 x 10 x 8mm (3pcs)
- Collar prevents stone breakage.
- Sleeve makes insertion in cylinder easy and protects stones when not in use.



1349 PISTON RING GROOVE CLEANING TOOL

活塞環槽溝清除器

- With three easy-to-set cutter wheels for quick cleaning of grooves.
- Sharp steel cutter removes carbon and vanishes from piston ring grooves.
- Sizes: Blade 1: 1/16", 5/64", 3/32", 1/8", 5/32", 3/16".
Blade 2: 2, 2.5, 3, 4, 4.5mm & 1/4".
Blade 3: 1.2, 1.5, 1.8, 2.8, 5, 5.5mm



1936 1/2" x M9 CYLINDER HEAD BOLT TOOL

1/2" x M9 12角軸套筒

- The 100mm length allows easy access to recessed head bolts.
- Comes with 1/2" drive for use with a torque wrench.
- Use for TOYOTA Tercel cylinder head bolt.



4701 1/2" RIBE SOCKET M10S

1/2"外六角齒輪套筒M10S

- Applicable : idle wheel center screw of TOYOTA model since 2000.
- Size : 1/2" DR x M10S, Hex. 21mm



1211 BELT TENSION ADJUSTER

惰輪皮帶張力調整器(三菱)

- Two cylinder design for easy to fix the tension pulley, adjustment by the 1/4" wrench.
- Applicable : MITSUBISHI model with injection engine.



4685 PULLEY SPINNING TOOL

皮帶輪調整扳手

- For deep forged pulleys to stop the crankshaft, camshaft, etc...
- Applicable: BENZ, VW-Audi, BMW, Ford, Opel, Peugeot, Renault, Rover, Volvo, & Japanese car.

1603 SERPENTINE BELT TOOL

惰輪皮帶調整扳手組

- Releases tension on serpentine belts with spring loaded idle pulley.
- Four sockets size: 13, 15, 16, 18mm
- 1/2", 3/8" Dr.



4682 UNIVERSAL SERPENTINE BELT SERVICING

通用型惰輪皮帶扳手組

TOOL SET

- Combines the innovation of gear wrench to provide the best possible combination.
- Provides coverage for all major vehicles with serpentine belt configuration.
- The versatility and strength if the gear wrench allows for unlimited access to serpentine pulley tension arms with added attachments for unlimited coverage.
- Socket size: 8, 12, 13, 14, 17, 18, 19 & 24mm; 3/8", 1/2" & 5/8"

4917 1/2" RIBE SOCKET M6S

1/2"齒輪套筒M6S

- Special ribe socket for Nissan & Renault CVTC engine.
- SIZE : 1/2"DR. x M6S.

4918 1/2" RIBE SOCKET M8S

1/2"齒輪套筒M8S

- Special ribe socket for cylinder head and balance shaft screw on NISSAN.
- SIZE : 1/2"DR. x M8S.



4702 1/2" RIBE SOCKET M12S

1/2"齒輪套筒M12S

- Applicable : engine head screw and flywheel center screw of NISSAN model.
- Size : 1/2" DR x M12S.



4948 1/2" 8TS SPECIAL SOCKET

1/2" 三角齒輪套筒8TS

- Special designed socket for balance shaft screws on NISSAN.
- Size: 1/2" DR. x 8TS.
- Applicable: NISSAN.



4919 1/2" PANTAGON SOCKET 12mm

5角氣動套筒12mm

- Special pantagon socket for the fuel pump screw on NISSAN.
- SIZE : 1/2"DR. x 12mm, 5PT.



4917S 8PCS SPECIAL SOCKETS SET

8 PCS齒輪+5角套筒組

- Special ribe and pentagon sockets for removing some special screws on vehicle. Such as engine head screws, idle wheel center screws, etc.
- Contents : : Ribe sockets: 1/2" DR. x M6S, M8S, M10S, M12S.
- : Pantagon sockets: 1/2" DR. x 10, 12, 14, 19 mm.



4084 3PCS BELT INSTALLING TOOL SET

3PCS 皮帶安裝輔助器

- Special designed set of tools for installing the new belt onto the pulley.
- Applicable: Ford, Mazda, Volvo, BMW, Chrysler, Citroen, Fiat, Lancia, and etc...



4850 BELT TOOL KIT FOR ELASTIC-RIBBED BELTS

正時皮帶拆裝輔助器

- Suitable for engines with elastic ribbed belts such as Alfa Romeo, BMW, Chrysler, Fiat, Ford, Mercedes, PSA, Seat, Skoda, Smart, Volvo, VW-Audi, etc.
- This tool set is quickly and easily removal and installation of the new elastic ribbed belts required.





1102 CRANKSHAFT PULLEY REMOVER

正時皮帶盤拆卸器 (R-2)

- Applicable : FORD /MAZDA model engine R-2
- To fix the male thread on the pulley and screw the axle bolt to remove the pulley.



4622 THIN TYPE TWO JAWS BEARING REMOVER

二爪薄型齒輪盤拆卸器

- Special designed for removing the bearing in narrow space.
- Working depth: 93mm
- Jaws thickness: 1.5mm
- Applicable bearing dimension: ϕ 30-90mm



1803 POWER STEERING PUMP PULLEY KIT

動力方向盤拆裝器

- Thompson & Ford C111, C2 power steering pumps found on Ford, GM & Chrysler Vehicles.
- A disconnect tool to release the power steering line from pump on 1989-current GM pickups 1/2T, 3/4T & 1T.



4922 ALTERNATOR PULLEY REMOVER

發電機皮帶盤拆卸器

- Special designed to stop the pulley and remove the center bolts to remove the V-belt pulley at the generator.
- 3/8"DR. x M10 / 12mm x 31T (O.D. : 14mm).
- Applicable : GM, OPEL, FIAT, ALFA.



4738 14PCS ALTERNATOR COMBINATION SOCKET SET

14PCS 發電機皮帶盤拆裝組

- Special designed two-part socket for removing and replacing the free wheel pulley when you want to replace the alternator or pulley.
- Contents: 2pcs 1/2" DR. bit socket : M10 , T50 x 110L
6pcs 75mmL S2 power bit: M8, M10, H8, H10, T40, T50
1pc 10mm(hex) 1/2"DR. adapter
5pcs Special reaction nut: #1 33T x 19.5mm, #2 33T x 18.2mm, #3 Hex x 17/2 1mm, #4 Hex x 28mm, #5 4p x 30.2mm
- Applicable: VW-AUDI, BMW, FORD, SKODA, BENZ, OPEL/VAUXHALL, PORSCHE, RENAULT, VOLVO etc...



4772 UNIVERSAL CAMSHAFT SPROCKET PULLER

通用型凸輪軸皮帶盤拆卸器

- Special designed to remove the sprocket on a wide range of vehicles.
- Special jaws to hold the sprocket for removing the pulley.



1835 CHRYSLER CRANKSHAFT PULLEY REMOVER / INSTALLER

克萊斯勒小型正時皮帶盤拆裝器

- Two tools in one! This remover/installer is a must when servicing the crankshaft pulley on 1981 and newer Chrysler cars. It removes/installs the crank gear while the engine is still in the vehicle, and will not damage either the gear or crankshaft. For using on 1981-current 2.2L engines with 4-or 5-hole crank gear; 1986-current 2.5L engines with 4-or 5-hole crank gear.



1953 CHRYSLER CRANKSHAFT PULLEY REMOVER

三爪式正時皮帶盤拆裝器 (克萊斯勒)

- This tool was developed to aid in the removal of the harmonic damper pulleys found on many Chrysler Corporation engines. This pulley is hard to access and remove due to space limitations in and around the engine compartment.



1510 CAMSHAFT PULLEY REMOVER / INSTALLER

固定式皮帶盤拆裝組

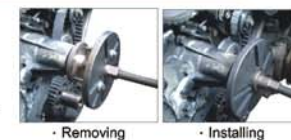
- Designed to hold the camshaft pulley stationary while loosening and tightening the center shaft bolt.
- Using the centered screw rod to uproot the pulley.
- Locking screw: M6, M8
- Fixed distance: 54 ~ 120 mm



1732 BALANCER PULLER & INSTALLER

正時皮帶盤拆裝器

- A professional tool set for balancer replacement.
- Built-in bearing makes balancer replacing job easy and damage-free.
- 4-slot puller plate plus 9 threaded adapters to fit on balancers on most engines.



1350 CHANGEABLE TWO JAWS PULLEY REMOVER

兩爪更換型皮帶盤拆卸器

- Suitable for using when the space limited.
- To change the parts easily for fitting the different cars.
- Jaw length: 72/95mm
- Jaw depth: 18mm, Width: 4.4mm.





1830 UNIVERSAL PULLEY HOLDER

凸軸萬用支撐扳手

• A great time saver, this unique tool is designed to trap and hold bolt-on pulleys by the mounting bolts on most applications.



1831 UNIVERSAL CAMSHAFT PULLEY HOLDING TOOL

皮帶盤支撐扳手

• For use on Toyota, Nissan and other OHC engines.
• This wrench is designed with grooved pins which are designed to hold the camshaft pulley stationary while loosening and tightening the center shaft bolt.
• While useful on most Asian overhead cam engines, it is most needed on transverse mounted V6 engines such as the VG30 used in Nissan Maximas, as well as, the 3VZFE and 1MZFE engines used in Toyota's.



1901 PULLEY REMOVING WRENCH

皮帶盤束緊支撐扳手

• Ideal for removing and assembling any type of grooved pulley for V-type belt.
• Ideal for alternator and pump pulleys, but also essential for electric motors of compressors, washing machines, tool machines etc.
• Also suitable for rotating the camshaft when timing the engine and to remove oil and gasoline filters.



1902 HONDA HARMONIC DAMPER PULLEY PULLER/HOLDER

正時皮帶盤支撐扳手(HONDA)

• Break loose the crank shaft pulley / harmonic balancer bolt. Designed to properly secure the pulley from rotating during R & R of crank bolt.
• Fit the 50mm hex head armature slips past the lightest of spaces and slides right into the center slot on the pulley. Then slide the long bar onto the receiving end of the armature and lock it into position with the securing bolt.



1513 TIMING BELT PULLEY HOLDER (HONDA)

雙頭式正時皮帶盤支撐扳手(HONDA)

• Break loose the crank shaft pulley / harmonic balancer bolt. Designed to properly secure the pulley from rotating during R & R of crank bolt.
• The height of head has two specifications for suitable different space, one is 30mm and the other is 75mm. The diameter of central hole is 35mm.



4699 1/2" POWER BAR HAND IMPACT WRENCH

1/2"打擊型衝擊扳手

• Special designed to replace the harmonic balancer pulley which will turn when you try to remove the center nut.
• Up to 600 Ft./lb of torque.
• Applicable: pulleys, flywheels, couplings, and flanges etc.



4821 CAMSHAFT PULLEY HOLDER (SUBARU)

正時皮帶盤支撐扳手 (SUBARU)

• To use for fixing timing belt and easy to remove or install it.
• Front part with 12pt / 160 mm, could be used on belt of 6pt and 12pt.
• Applicable : SUBARU IMPREZA EJ20 engine.



4823 CAMSHAFT PULLEY HOLDER (SUBARU)

正時皮帶盤支撐扳手 (SUBARU)

• To use for fixing timing belt and easy to remove or install it.
• Front part with 3 points which could fix the belt of FORESTER.
• Applicable : SUBARU RORESTER 2500 c.c.



4026 CAMSHAFT PULLEY HOLDER (SUBARU)

正時皮帶盤支撐扳手 (SUBARU)

• To use for fixing timing belt and easy to remove or install it.
• Special internal two curve designed for holding the pulley.
• Applicable : SUBARU EJ25.



4013 TOYOTA, LEXUS CRANKSHAFT PULLEY

正時皮帶盤支撐扳手TOYOTA, LEXUS HOLDING TOOL

• This tool is designed to hold the crankshaft pulley while loosening or tightening the centre screw.
• To tighten crankshaft pulley by 2 screws (M8 x 1.25)
• Extend operation needs 1/2" DR. Wrench.
• Applicable : TOYOTA, LEXUS.



4755 UNIVERSAL PIN SPANNER SET

調整型二點轉動扳手組

• Made of special steel to adjust or remove the twin-hole nuts.
• Replaceable pins and central adjustable nut for any size you need.
• Pins size: 2.5, 3, 4, 5, 6, 7, 8, 9mm, each size with 2 purchase.
• Overall length: 250mm; Operation range: min. 19mm.



1209 UNIVERSAL CAMSHAFT PULLEY HOLDING TOOL

通用型皮帶盤支撐扳手組

• Applicable to every belt pulley.
• Each hooks can be changed to fit in the bore diameter.
• Serrated hooks to secure on the holes of the pulley.
• Adjustable jaws type.
• Connected 1/2" Dr. wrench in the end to hold the pulley.
• Patented.



1721 CLUTCH SPRING COMPRESSOR

立式變速箱離合器壓板工具(四支腳)

- Adjustable legs fit most cars & trucks for replacement of transmission rear clutch piston snap ring.
- Special designed to assemble & reassemble the clutch snap ring easier.
- Capacity: Clutch diameter from 64 mm to 175 mm.
- Patented.



1841 CLUTCH SPRING COMPRESSOR

變速箱離合器壓板工具(2隻腳)

- For removing and installing the transmission rear clutch piston snap ring...adjustable, for most models of American cars and light trucks.



1728 ANGLE TIP LOCK RING PLIERS

平口鋼圈鉗

- Spread snap lock rings on brakes, transmissions, pedal shafts, clutch shafts & machine tools.
- Jaws have deep serrations on the outside of tip to help lock rings securely.
- Spreading: 3.5 ~ 28mm
- Total length: 225mm



4066 LARGE LOCKING RING PLIERS

大型平口鋼圈鉗

- Applicable : Large rings on drive shafts in earth-movers and construction vehicles.
- Tip form: Interchange, wide, milled
- Tip size (mm) : 3.5 x 6mm ; spreading 8-75mm
- Total length: 330mm

2110 UNIVERSAL CLUTCH ALIGNMENT SET

離合器對孔校正器(雙鋼)

- This tool makes the alignment and assembly of clutch.
- Specially designed for those vehicles equipped with late-model front wheel drives without pilot bearing in flywheel.
- Size: small cone: range 14.4~21mm
large cone: range 20.9~29mm



2120 CLUTCH ALIGNER SET

離合器對孔校正器(鐵)

- Align single disc clutches on most vehicles, light truck & tractors.
- Properly aligns clutch plate by tapered cone fitting into pilot bushing or bearing.
- Size: 8 collects ranging from 0.465" (11.8mm) to 0.980" (24.9mm)



1606 OXYGEN SENSOR SOCKET

含氧感應器套筒

- 1/2" Dr. 7/8" (22m/m) x 90mm long, 7mm slot for oxygen sensor on Japanese cars Ford, GM, Chrysler & other cars.



1607 OXYGEN SENSOR SOCKET

含氧感應器套筒(歐規)

- 3/8" Dr. 7/8" (22m/m) flare nut socket for vacuum switch & oxygen sensor service on computer controlled engines.



4040 EXTRA LONG OXGEN SENSOR SOCKET

特長型含氧感應器套筒

- For removing and install lambda sensors with a deep-seated exagon.
- Particularly suitable for the MERCEDES-BENZ C/E, 602, 605, 606 VW/AUDI/SKODA/ SEAT, BMW, FORD, OPEL, ROVER, VOLVO.
- MATERIAL : CR-MO STEEL.
- 1/2" DR. Length : 150mmL.
- Size : 22mm x 6PT x 150L.

1706 OIL PRESSURE SENDER SWITCH SOCKET

機油壓力輸送開關套筒(27mm)

- 1/2" Dr. 1-1/16" (27m/m) X 3-1/2" long for oil pressure sending unit on 2.0, 2.3, 2.5, 2.8, 3.0L GM's cars.



1707 OIL PRESSURE SENDER SWITCH SOCKET

機油壓力輸送開關套筒(30mm)

- 1/2" Dr. 1-3/16" (30m/m) X 4" long for oil pressure sending unit on 2.0, 2.3, 2.5, 2.8, 3.0L GM's cars.
- The same function as JTC-1706

1543 4PCS EURO-TYPE SENSOR SOCKET SET

4PCS 歐規感應器套筒組

- To remove the screw with sensor line
- Contents: 1/2" DR. X 28mm(12PT X 78L)
1/2" DR. X 27mm(12PT X 78L)
1/2" DR. X 22mm(12PT X 78L)
1/2" DR. X 22mm(6PT X 110L)

1425 7 PCS SENSOR SOCKET SET

7PCS 感應器套筒組

- Special socket for removing oxygen sensor.
- Contents: 1/2"DR. x 29mm x 90mmL(7mm slot) #1; 1/2"DR. x 27mm(12pt) x 82mmL #3
3/8"DR. x 7/8" x 90mmL(20mm slot) #2; 3/8"DR. x 1-1/16" x 74mmL #5;
3/8"DR. x 7/8" x 80mmL(7mm slot) #4; 1/2"DR. x 22mm x 50mmL(90°) #6;
3/8"DR. x 22mm x 31mmL(90°) #7





1812 UNIVERSAL HOSE CLAMP REMOVER

可彎式喉式管束夾鉗

- For removal of hose clamp on fuel, oil and water hose.
- Hose clamp with flexible 600mm wire.
- Convenient for working hidden areas and long distance.
- Patented.



1027 HOSE CLAMP PLIERS

直型喉式管束鉗

- Finger tip "position lock" to keep hose clamps spread open.
- Convenient for replacement of lower radiator hose.
- Fits most size clamps.



1028A CURVED HOSE CLAMP PLIERS

彎型喉式管束鉗

- Finger tip "position lock" to keep hose clamps spread open.
- Convenient for replacement of lower radiator hose.
- 45° designed to fit some clamp in deep position.
- Body thickness: 4mm.



1935 HOSE REMOVER PLIERS

油管分離鉗

- For easy removal of 5/32" to 1/2" vacuum and fuel hoses.
- Fit the jaws on the tube with black jaw on the tube and silver jaw on the hose.
- Squeeze to push the hose off the tube.



1253 2 PCS HOSE REMOVER

油管分離起子組(2PCS)

- Special designed to remove the hose easily.
- 12 sets/72 sets/15.5 kgs/16.5 kgs/2.6"



1347 2 PCS MULTI-PURPOSE HOSE & WIRE PLIERS

2PCS 油管拔取鉗

- Special designed for disassembly vacuum hose, radiator hose, fuel hose and spark plug wire, etc...
- Capacity: 1/4" - 3/4" O.D.
- Length: 8.5" & 10"



1341 FLUID LINE CLAMPER SETS

4PCS U型封管夾

- Special designed to stop the fluid flow without damaging the hose.
- Applicable : 13411 - 10mm (3/8")
13412 - 15mm (5/8")
13413 - 25mm (1")
13414 - 45mm (1-3/4")



1342 FLUID HOSE CLAMP

小型封管夾

- Completely or partially closes flexible brake, fuel, and vacuum fluid line.
- All steel construction with adjustable locking collar.



1343 HOSE PINCH-OFF TOOL

中型封管夾

- Suitable for both brake and fuel lines.
- Effective pinch action with rounded clamp section to prevent the hose lining from damaging.



平口式封管鉗 HOSE PINCH-OFF PLIERS

- The pinch-off pliers act as a third hand to help you keep hose changed tightly when you are servicing various engine components.
- Swivel jaws for level clamping.
- Locking ratchet provides tight grip in just about any position.



編號 Item	規格 Spec
1344	8"
1345	10"
1346	12"

4826 LONG HOSE PINCH-OFF CLAMP

長型封管夾

- Stop the oil flow and avoid damaging hoses.
- Adjustable for most kinds of flexible hoses, particularly for brake, fuel or cooling system hoses.
- Length 310mm; extension hose clamp helps repair work.
- Maximum application : 25.4 mm





1501 CHISEL SCRAPER KNIFE

木柄刮刀

- This heavy duty blade is designed with a chisel edge.
- 1- 1/4" (32mm) wide blade.
- 7-1/2" (190mm) OAL.



1504 SCRAPER KNIFE(15mm)

白鐵木柄刮刀(15mm)

- Edge type: Straight
- Material: stainless steel
- Total length: 190mm
- Edge width: 15mm



1505 SCRAPER KNIFE(20mm)

白鐵木柄刮刀(20mm)

- Edge type: Straight
- Material: stainless steel
- Total length: 190mm
- Edge width: 20mm



1506 SCRAPER KNIFE(30mm)

白鐵木柄刮刀(30mm)

- Edge type: curved
- Material: stainless steel
- Total length: 190mm
- Edge width: 30mm



4723 OXYGEN SENSOR RETHREAD TOOL

氧氣感應器攻牙器

- Cleans threads in oxygen sensor holes.
- Use with 21mm hex socket or 3/8" square drive
- M18 x 1.5 also works on M18 x 1.5 spark plug threads



火星塞攻牙器 SPARK PLUG HOLE THREAD CHASER

- Use to clean threads in spark plug.

編號 Item	規格 Size	傳動頭 Drive size
1617	M14x1.25/M18x1.5	21mm
1618	M14x1.25	3/8" DR./16mm



特長火星塞攻牙器 EXTRA LONG INTERNAL SPARK PLUG RETHREAD TOOL

- Special designed for chasing spark plug threads from inside the cylinder head and working outward.
- Use the good threads at the base of port.
- Reduced dirt and metal debris from being driven into the cylinder head.

編號 Item	規格 Size	全長 Length	傳動頭 Drive size
4898	M12x1.25	260mm	13mm
4899	M14x1.25	260mm	13mm

1903 3/8" x 14mm FLARE NUT WRENCH

3/8" x 14mm 單開口扳手(加長型)

- Used for TOYOTA, HONDA bolts of fuel filter cup.
- Full length 94 mm, suitable for narrow place.
- Special designed with cover for hold the nut completely and prevent slipping.



1437 1/2" x 17mm FLARE NUT WRENCH

1/2" x 17mm 單開口扳手(加長型)

- Used for TOYOTA, HONDA bolts of fuel filter and tube.
- Full Length: 97mm, suitable for limited space.
- Special designed with cover for holding the nut completely and prevent slipping.



4943 FUEL HOSE PULLER

汽油管拆卸器

- Special specification to meet type of a adaptor.
- To remove the fuel hose adapter easily.
- Applicable : FORD, MAZDA, and GM ...etc.



4811 FUEL HOSE PULLER

汽油管拆卸器

- To remove the injector of high side adaptor of TOYOTA, NISSAN.
- Special specification to meet type of adaptor, easy using



4734 FUEL FEED PIPE PLIERS

汽油管接頭拆卸鉗

- For removal and replacement of the connecting on the fuel filter.
- Use the special jaws to pull the connector backwards to remove the connector.
- Applications: BENZ, FORD, MAZDA, VW, AUDI, OPEL, FIAT, GM, BMW



1312A ADJUSTABLE FUEL TANK LID REMOVER

調整型汽油箱蓋拆裝器

- Jaw adjustable range: 122~199mm, suitable for different fuel tank lid.
- Special jaws design to remove & install the tank closely.
- Use with 3/8" DR. Wrench
- Patented.





1601 OIL FILTER WRENCH

夾式機油心扳手90mm

- Hardened drop forged CR-V steel tool removes stubborn filters 60m/m up to 90m/m.
- Slip joint design makes adjustment fast & easy.



1602 OIL FILTER WRENCH

夾式機油心扳手115mm

- Hardened drop forged CR-V steel tool removes stubborn filters 85m/m up to 115m/m.
- Slip joint design makes adjustment fast & easy.



1151 OIL FILTER LOCKING PLIER

固定鉗式機油心扳手

- Chrome-vanadium steel made.
- This plier can be adjusted and fastened for applications at any angle.
- Suitable for installing, removing, and tightening objects of any shapes.
- Jaws opening: 2-1/8" to 4-5/8" (53-108mm).



二爪正反轉機油心扳手 TWO WAY OIL FILTER WRENCH

- Special designed to remove and install the oil filter easily and quickly.
- With pull spring to make it hold the filter easily.

編號 Item	範圍 Range	使用扳手 Operation wrench
4600	60~80mm	3/8" Dr. or 17mm wrench
4800	80~115mm	1/2" Dr. or 21mm wrench



1942 TWO WAY OIL FILTER WRENCH

三爪雙向機油心扳手

- Removes all oil filters from 2-1/2" to 4" in diameter.
- Use with 1/2" square drive tool.
- Size: range 2-1/2" - 4" (63-102mm)



三爪雙向強力型機油心扳手 TWO WAY OIL FILTER WRENCH(HEAVY DUTY)

- Heavy duty designed. Remove larger filter and diesel ones.
- Use with 1/2" wrench.

編號 Item	範圍 Range(mm)	爪長 Length of jaw
1451	80~120	40
1453	106~160	60



1429 NYLON STRAP OIL FILTER WRENCH

帆布型機油心扳手

- Removes any oil filter up to 152.44mm(6")
- Use with 1/2" DR. (19mm)wrench or screwdriver to remove the filter.



4773 DOUBLE CHAIN OIL FILTER WRENCH

雙鍊條型機油心扳手

- Special double chain design for removing and installing oil filter in powerful.
- Operation range: ϕ 60-115mm
- 1/2" Drive.



皮帶式機油心扳手 BELT TYPE OIL FILTER WRENCH

- Rubber coated on the belt to prevent slipping

編號 Item	範圍 Range	手柄長 Shaft length	皮帶長/寬 Belt length/width
4735	ϕ 30~160	232	560/20
4736	ϕ 60~260	280	820/25



4724 HEAVY DUTY CHAIN OIL FILTER WRENCH

強力鍊條型機油心扳手

- Available for all type of oil filter.
- Flexible handle for narrow space.
- Size available: ϕ 60mm-160mm.
- Length of chain: 520mm.
- Handle is adjustable with 180°, length: 185mm.



鋼板機油心扳手 OIL FILTER WRENCH

- Professional oil filter wrench unique "Swivel-Handle" design allows adjustable band to rotate 180 degrees, to reach tight areas. Full range of sizes to fit sub-compact to truck filters. Parts are heat-treated for strength and durability and all wrenches feature vinyl grips.

編號 Item	規格 Spec
1945	2-3/8" ~ 2-7/8" (60mm-73mm)
1946	2-7/8" ~ 3-3/8" (73mm-85mm)
1947	3-3/8" ~ 3-3/4" (85mm-95mm)
1948	3-3/4" ~ 4-3/8" (95mm-110mm)



強力型鋼板機油心扳手 HEAVY DUTY OIL FILTER WRENCH

- Use with 1/2" wrench.
- Wrench thickness is 1.0mm and 76mm height.

編號 Item	規格 Spec
4637	4-1/8"~5"(105~125mm)
4638	4-3/4"~5-1/2"(120~140mm)



鋼板碗型機油心扳手 OIL FILTER SOCKET

• Use with 1/2" Dr. tool or 21mm wrench.

編號 Item	規格 Spec	適用車種 Applicable
1114	14P/65mm	TOYOTA, NISSAN, HONDA
1021	14P/67mm	FORD, MITSUBISHI, MAZDA, HYUNDAI, KIA, SUZUKI
4667	14P/72.5mm	TOYOTA
1235	14P/74mm	BENZ, BMW, AUDI, VW, OPEL, HYUNDAI, KIA
4695	14P/84mm	BENZ OM642 CDL
1521	15P/74mm	VW, AUDI
4611	15P/75mm	FORD, MAZDA, VOLVO, LAND-ROVER
1403	15P/79mm	MITSUBISHI, HONDA, NISSAN, TOYOTA, SUZUKI
1515	15P/82mm	HYUNDAI, KIA
4104	15P/92mm	LAND-ROVER, JAGUAR, GM, OPEL, PORSCHE, FORD
1522	16P/87mm	VOLVO, BMW
4669	12P/76mm	PEUGEOT, CITROEN, RENAULT
4670	18P/86mm	PEUGEOT, CITROEN, RENAULT
4668	30P/75mm	FORD, MAZDA
4103	30P/76mm	LAND-ROVER, JAGUAR
4612	36P/93mm	FORD, MAZDA

4666 16PCS STEEL OIL FILTER SOCKET SET

16PCS碗式機油心扳手組

- Use with 1/2" drive or 21mm wrench.
- Made of steel.
- Contents: 14pcs oil filter socket: JTC-1114, 1021, 1235, 1403, 1515, 1521, 1522, 4611, 4612, 4667, 4668, 4669, 4670, 4695.
- 1pcs oil filter wrench: JTC-1601.
- 1pcs offset wrench: 21mm/12PT.

4665 5PCS OIL FILTER CAP WRENCH SET

5PCS 套筒式機油心扳手組

- 3/8" Square drive
- Manufactured from Chrome Vanadium steel
- Size: 24mm Cadillac 36
- 27mm Mercedes: aclass
- 32mm Vauxhall/Opel: astra, corsa, zafira
- 36mm Vauxhall/Opel: omega of 16v, Vectra, Zafira>98, BMW: 16V
- Ford: mondeo 2.0d 16v dura torq engine, transit 2.5 & 2.0 dura torq diesel engine.
- Mercedes: 116mb engine vito cdi
- 38mm Vauxhall/vectra 2 liter diesel engine

1448 9PCS OIL FILTER SOCKET SET

9PCS 環保型機油心扳手組

- Use with 3/8" Dr. or 21mm wrench.
- Size: 27/6P, 32/6P, 36/6P, 76/14P, 75.6/14P, 86/16P, 76/12P, 93/15P
- With a specialized 21mm wrench
- Applicable: BENZ, BMW, VOLVO, VW, FIAT, RENAULT, HONDA, MAZDA, NISSAN, TOYOTA, etc.

強力碗型機油心扳手 PROFESSIONAL OIL FILTER SOCKET

• Use with 1/2" Dr. tool.

編號 Item	規格 Spec	適用車種 Applicable
1101	89mm/15P	ISUZU, MAZDA, DAIHATSU (Diesel)
4703	92mm/15P	NISSAN (Diesel)
1516	93mm/15P	HYUNDAI, KIA, DAIHATSU (Diesel)
1523	99mm/15P	TOYOTA, DAIHATSU (Diesel)
1951	101mm/15P	MITSUBISHI, MAZDA, DAIHATSU (Diesel)

4904 TOYOTA OIL FILTER CAP TOOL

TOYOTA 環保型機油心扳手

- Special designed for plastic oil filter cap of TOYOTA.
- It is easier to use in limited space.
- Size: 3/8" DR. (24mm) x 64.5mm, 14PT.
- Material: Aluminum.

4859 OIL FILTER SOCKET (TOYOTA, LEXUS)

TOYOTA, LEXUS 機油心扳手

- Size: 3/8" Dr., 64.5 mm, 14PT
- Material: Aluminum
- Applicable: TOYOTA: 3.5L since 2007
- LEXUS: IS250, IS350, GS300, GS350, GS450HE, S350, RX350, LS460, LS600H

棒式機油心扳手 COLUMN TYPE OIL FILTER WRENCH

編號 Item	開口 Jaw opening	適用車種 Applicable
4095	63mm / 14PT	TOYOTA, NISSAN 副廠件
1514	65mm / 14PT	TOYOTA, NISSAN 原廠件

1324 OIL FILTER WRENCH

碗式加柄型機油心扳手

- Handle specially tilted for easy removal / installation of oil filter.
- Size: 80mm, 15 points
- Applicable: MITSUBISHI SAVRIN.

1213S DIESEL FUEL FILTER REMOVER SET

堅達柴油濾心器拆裝組

- Include 1213 Diesel fuel filter wrench x 1, 1214 Diesel fuel filter switch wrench x 1
- Applicable: MITSUBISHI CANTER model and most diesel engine.

4706 MITSUBISHI DIESEL FUEL FILTER WRENCH

新堅達柴油濾心器扳手

- To remove oil filter and drain fuel from the filter.
- Be sure to clean the o-ring surface before using the tool.
- Size: 1/2" DR. X 8 points.
- Applicable: MITSUBISHI all new CANTER fourth phase eco-car 3.5 ton, 6.7 ton & 6.9 ton.





1536 COOLING SYSTEM VACUUM PURGE

真空式水箱水更換器

- To pump radiator and cooling system to vacuum by this tool.
- Use vacuum to fill with new coolant into radiator.
- Furthermore, do not remain air in radiator and cause bad circulation.

& REFILL KIT



Vacuum by air Fill new radiator liquid



1921 MECHANIC STETHOSCOPE

音診器

- Locates source of engine noise quickly.
- Inspect for problem by tracing sound of flowing water, oil, gas or steam.
- Handle is shockproof.



1007 MECHANIC STETHOSCOPE

雙用型音診器

- Provides a fast and easy way to locate noises in engines or bearings and other moving parts.
- Aluminum alloy probe/needle for finding the exact location of specific noises.
- Instrument is shockproof.
- Ideal for pinpointing unusual vibration or suspected leaks (valves, piston ring, gaskets, etc...)



1449 COMBINATION ELECTRONIC STETHOSCOPE KIT

電子式動靜態音診器(4組線)

- To locate & identify noise and enable road test diagnosis.
- Super sensitive microphone pick up.
- Defect & isolate noisy components.
- Contents: Flexible non-consecutive shaft
Cushioned headphones
4 channel sensor selector unit
4 pick up sensors-4.8mm ling cords.



1426 ELECTRONIC DYNAMIC STETHOSCOPE FOR VEHICLE

電子式靜動態音診器(6組線)

- It intends and designed for car maintenance /repair technicians to locate the abnormal noise emitting from elements of the vehicle at a far higher efficiency far more effectively than ever.
- High technologies certainly benefit automotive techs and are applied in engine, power wires, and lines.
- With two earphones for the engineer and customer to operate together for getting confidence from the customer.
- Contents: user's guide x 1, earphone x 2, test clamp x 5, test sensor (with magnet) x 1, nylon fastening tapes x 6 main unit control box x 1, outer case x 1, magnetic testing probe x 1.



水箱測漏接頭 RADIATOR LEAKAGE TESTING

• Using together with JTC-1005 or 1528 or 1414.

ADAPTOR

編號 Item	適用車種Applicable
1528-17	BMW E60,E65,E81,E88,E87
1528-18	VW SHARAN 1.8T,2.8,BENTLEY
1528-19	T0Y0TA-RAV4.PREVIEW
1528-20	SAAB
1528-21	FORD,JAGUAR,OPEL,LAND ROVER, BUICK,BENE(M-CLASS)



1414 7PCS COOLING SYSTEM TESTERS

7PCS水箱壓力錶組(快速型)

- To test water tank and density of water tank cover.
- Applicable: Mercedes, GM(Buick),Jeep, Peugeot Subaru, Chrysler,Acura, GM (Nova, Spectrum, Sprint) Mitsubishi, Nissan, Mazda, Toyota, Infiniti, Geo, Suzuki, Isuzu, Ford, Honda, Toyota, Suzuki, Mitsubishi, Chrysler, Acura.



1005 14PCS COOLING SYSTEM TESTERS

14PCS水箱壓力錶組

- Test cooling system for leaks.
- Includes hand pump, test head in a blowmold case.
- Applicable: Nissan, Mitsubishi, Mazda, Subaru, Toyota, Honda, Ford GM, Chrysler, VW, Audi, Volvo, Saab, Mercedes Benz, BMW, Renault, Fiat, Alfa Romeo, Infiniti, Geo, Suzuki, Isuzu, Lexus, Opel, Peugeot, Jeep, Rover, Citron, Truck.



1528 19PCS DELRIN PLASTIC COOLING SYSTEM TESTERS

19PCS 水箱壓力錶(塑膠型)

- Test cooling system for leaks.
- Suitable for most of cars due to complete accessories.
- Material : made of hard and durable Nylon66.

TESTERS

4842A 27PCS RADIATOR PRESSURE TESTER

27PCS多功能水箱壓力錶組 (MULTI-FUNCTION)

- Functions: radiator pressure tester, radiator lid tester, and vacuum purge & refill tool.
- Various adaptors to meet most models
- Material : made of hard and durable Nylon66.





1225 FUEL INJECTION TEST SET

汽油噴射壓力錶(全車種)

- 3-1/2" gauge with dual readings of 0-145 psi and 0-1000kpa.
- Also a low pressure 2-1/2" gauge for an accurate reading below 15 psi.
- All adapters, gauges, and hose assemblies feature a quick coupling system for speedy and efficient testing connection.
- The uniquely designed relief valve relieves pressure and allows checking for sufficient fuel flow.
- No need for wrenches or pipe dope.
- The specially designed compact, neatly arranged plastic blow-molded box makes storage easy.
- Complete with instructions manual.



1225J FUEL INJECTION TEST SET-JAPANESE CAR

汽油噴射壓力錶(日規)

- The set designed for most Japanese cars.
- Pick up the joints and adapters from #1225.
- Model No.: A, AC, D, F, E, N, O, P, Q, R, RA, RK, IM, MA, MCA.
- All the specification is the same as #1225.



1225E FUEL INJECTION TEST SET-EUROPEAN CAR

汽油噴射壓力錶(歐規)

- The set designed for most European cars.
- Pick up the joints and adapters from #1225.
- Model No.: A, AC, C, D, G, F, Mx2, H, J, HA, I, L, Kx2, KA, KB, KC, B, RK, And IM
- All the specification is the same as #1225.



1256 ENGINE OIL PRESSURE TESTER

自動變速箱引擎油壓錶

- Designed to check engine oil pressure in both cars and trucks. Easy to read dual scale gauge. Complete with 24" (600mm) of oil proof hose with 1/8"NPT.
- Also includes 1/4" NPT and 3/8" NPT adaptors.
- Dual gauge readings: 0 to 300psi (0 to 21bar)
- Gauge diameter: 2.5"



1340 DOUBLE GAUGE CARBON CLEANER

雙錶點滴式積碳清洗器

- To test the engine pressure first, and adjust the inlet pressure to be the same as engine pressure, and then open the valve to start the clean work.
- Gauge pressure: 0~100psi (0~7kgf/cm²)
- Tank capacity: 20 OZ.



1520 BASIC EXHAUST BACK PRESSURE SET

排氣背壓表

- Enables technician to test exhaust back pressure through oxygen sensor.
- Oxygen sensor adapters include M12 and M18 threads.
- The special 2-1/4" gauge with rubber protector has two multi-colored bands-idles 2500rpm, with pressure shown in psi and bar.



1009 DELUXE NOID-LITE SET

噴油嘴測試燈

- The fastest, easiest, most economical way to check electronic fuel injection signals.
- Includes lights to check TBI systems on GM, Ford, and Geo; GM and Bosch PFI systems; and GM's new SCPI (sequential central port injection) system.



1251 DELUXE NOID-LITE/IAC TEST KIT

全配備噴油嘴測試組

- Set includes seven noid lights for testing GM PFI, FORD TBI, GEO TBI, BOSCH PFI, GM TBI, GM SCPI, GM MULTEC2, BOSCH 2 and two IAC signal test lights for Gm1982 or newer, GM TBI and PFI., And GM model 1981 or newer GM model 700 TBI and PFI fuel injection system, and one fibre optic noid lite extension.
- Kit comes in a deluxe molded plastic case.



1820 AUTOMOTIVE VACUUM TEST KIT

全配備真空吸力槍

- This kit includes: Repairable Metal Vacuum Pump, Reservoir Jar, Transfer Lid, Storage Lid, 4 lengths of 1/4" ID Tubing, 1 length of 5/32" ID Tubing, Automotive Adapter Package, Brake Bleeding Adapter Package, Rubber Cup Adapter, Fitted Carrying Case.



1236 LEAK-CHECK

引擎燃燒室測漏組(藥水型)

- Spots and locates combustion leaks quickly in cracked or warped heads, leaky gaskets or cracked block. Use Leak-Check in the radiator opening with engine idling. The blue test liquid will turn into yellow in 60 seconds if there is a combustion leak, no matter how small. Get exact location of leak by disconnecting one spark plug at a time and retest. Completely accurate proof of leak.
- Perfect combination with JTC 1005
- 250cc fluid container.



1245 AUTOMOTIVE VACUUM & PRESSURE TEST KIT

全配備正負壓槍

- Attach many kinds of joint to fit most kinds of vehicles.
- The body has the switch to control two kinds of pressure conditions.
- Include the parts of brake bleeder.
- Pressure range: positive pressure. 0 ~ 60 psi(1 ~ 4 inhg)
negative pressure. 0 ~ -30 psi(0 ~ -1 inhg)





4806 DIESEL / PETROL DIGITAL TIMING TESTER

數字型正時燈(汽/柴油兩用)

- Easily operates on most 12V and 24V diesel engines and 12V petrol engines.
- Excellent performance at all speeds through maximum 8000RPM petrol or 2000RPM diesel.
- Bright bulb provides concentrated light for high visibility of timing mark.
- LED diagnostic indicator shows accurate engine RPM, Dwell Angle, Volt and Advance Degree.
- Detachable clamp-on inductive pick-up testing cable and diesel sensor for easy and safe use.
- Replaceable xenon flash tube.



4912 3.9MM FORWARD VIEW INSERT TUBE

3.9mm內視鏡探測管

- Diameter : 3.9 mm.
- Field of View : 1 cm ~ 6 cm.
- Housing : Steel.
- Light Source : 71.5 ~ 112.5 mod*3 LED.
- Length : 0.75M semi-rigid.
- Water resistant :
- Insert tube is water resistant Ip57.
- Working temperature : 0° C ~ 55° C.
- Use with JTC-4825A or JTC-4903.



4913 ARTICULATION INSERT TUBE

可轉向內視探測管

- Camera resolution : 325(H) x 250(V).
- Housing : Steel.
- Length : 1m.
- Depth of Field : 1 cm ~ 6 cm.
- Working temperature : 0° C ~ 60° C.
- Articulation angle : 2 way 150°.
- Articulation radius : 48±1mm.
- Tube Diameter : 6mm.
- Use with JTC-4825A or JTC-4903.



4825A PORTABLE VIDEO SCOPE

掌上型內視鏡

- Tube Diameter : 8.5 mm.
- Tube Housing : Steel.
- Tube Length : 1M.
- Depth of Field : 1 cm ~ 6 cm.
- Water resistant : Only the insert tube is water resistant Ip57.
- Working temperature : 0° C ~ 55° C.
- Tip accessory : 90° mirror, magnet tip, and hook tip.
- Power supply : 4 Alkaline AA 1.5-volt batteries.
- Display resolution : 320 x 240.
- Display : 2.4" TFT LCD.



4903 MULTI-FUNCTION PORTABLE VIDEO SCOPE

多功能掌上型內視鏡

- Tube Diameter : 5.5 mm.
- Tube Housing : Steel.
- Tube Length : 1m.
- Depth of Field : 1 cm ~ 6 cm.
- Water resistant : Only the insert tube is water resistant Ip57.
- Working temperature : 0° C ~ 55° C.
- Tip accessories: 90° , 70° & 110° mirrors.
- Power : Battery rechargeable Li-Polymer battery 3.7V power supply AC, 100-240V 50-60Hz Power , consumption DC5.5 1.8A.
- Display : 3.5" TFT LCD QVGA.
- Recording medium : 2G SD CARD.
- Video out format : NTSC & PAL.
- Interface : AV out.
- Still image storage format : jpeg (640*480).
- Language : English / Danish / French / Spanish / Russian / Dutch / Arabic / Polish / Italian / German / Portuguese / Japanese/ Bulgarian / Traditional Chinese / Simplified Chinese.

1626 TIMING LIGHT

正時燈

- Works on all 12 volt gasoline engines.
- High impact ABS housing.
- Detachable heavy duty inductive pick-up clamps and leads for easy operation and replacement.



可彎型氣缸壓力延長管 FLEXIBLE COMPRESSOR

- Used for testing cylinder compressor pressure.
- Made of steel inside rubber hose for easier screw into the cylinder.
- Total length: 300mm, Hex: 19mm.

編號 Item	尺寸 Size	內牙尺寸 Thread	全長 Length
4907	M12 x 1.25	M14 x 1.25	300mm
4908	M14 x 1.25	M14 x 1.25	300mm



1621 UNIQUE COMPRESSION TESTER KIT

汽缸壓力錶(汽油)

- Easy-reading 2-1/2" diameter rubber covered gauge features color-coded quadruple calibrations with 0-300 psi, 21 kg/cm, 21 bar & 2100 kpa.
- 13" durable steel wire insert hose with 14mm / 18mm adapter.
- 8"(200mm) heavy-duty stem with universal rubber cone adapter fits all plug holes.



4077 COMBINATION GASOLINE COMPRESSION TESTER

綜合型汽油氣缸壓力錶

- Air gauge with quick coupling & release valve.
- High tension connecting pipe with safety lock coupling.
- Two pipe with rubber plug for crank shaft type and transverse axis type.
- With 4 sizes adapter M10 x 1.0, M12 x 1.25, M14 x 1.25, M18 x 1.5 for all model cars.



1622 PROFESSIONAL VACUUM & FUEL TESTER

真空吸力錶

- Large 3-1/2" diameter carburetor gauge with color-coded easy-reading scales.
- Extra long heavy-duty rubber hose and 14mm / 18mm manifold adapter.
- Checks for worn or defective parts in fuel pumps, vacuum system.



4683 CARBURETOR SYNCHRONIZE TOOL KIT

四合一真空壓力錶

- For testing fuel pump carburetor and transmission check auto with 2~4pcs carburetors.
- Contents: 4pcs 3-1/2" synchronizer gauges with fixed plate.
- 4pcs rubber hose 8 x 5 x 750mm
- 4pcs extension tube 3.9 x 52mm
- 4pcs extension tube 3.9 x 122mm
- 8pcs cone type connector 8 x 40mm
- 4pcs adapters 10 x 53mm(M6 x 0.75)
- 4pcs adapters 10 x 60mm(M6 x 1.0)



**1364 DIESEL ENGINE COMPRESSION TESTER KIT****柴油汽缸壓力錶**

- This is generally the preferred test method and avoids damaging to the injector, and fuel system contamination.
- Gauge range: 0~1000 psi/ 0~70 bar.
- Application: BMW, MERCEDES-BENZ, CARBODIES, MITSUBISHI, CITROEN, NISSAN, DACIA, OPEL, DIAHATSU, PEUGEOT, FIAT, RENAULT, FORD, ROVER, HOLDEN, SEAT, ISUZU, TOYOTA, LAND ROVER, VAUXHALL, LEYLAND / DAF, VOLKSWAGEN, MAZDA, VOLVO, ETC.

**1359 DIESEL ENGINE COMPRESSION ADAPTERS****柴油氣缸壓力錶接頭組**

- Use with #1364 for C.V.S. System.
- The kit with fittings which is different from #1364.

**4776 FLOW METER COMMON RAIL SET****柴油噴油嘴測試器**

- To measure rapidly and effectively the amount of fuel that every injector returns to the deposit tank, so that you will find if any injector is damaged.
- Possibility of simultaneous of up to 6 injectors.
- JTC-4777 is optional for varies different adapters.

**4777 INJECTOR ADAPTERS FOR FLOW METER COMMON RAIL****柴油噴嘴測試接頭組**

- Use with JTC-4776 Flow Meter Common Rail Set.
- Contents: 24pcs injector adapters for BOSCH-01, SIEMENS, DENSO-03, and DELPHI etc...

**1022 ENGINE SLING CHAIN SET****引擎吊鍊組**

- For alignment of the engine's core, special designed on the adjustable chain.

**4012 ENGINE SLING CHAIN SET (LONG)****長板型引擎吊鍊組**

- The plate with 3 holes for choice of locations to get the center of gravity balance.
- The chains' length and position are adjustable to be the best location.
- Plate length : 690mm.
- Chain length : 490mm.

**4863 AIR BAG REMOVAL TOOL SET****3PCS安全氣囊工具組**

- Tools to remove the air bag module from the steering wheel.
- Applicable : FORD 2000-2004 TAURUS/SABLE, 1999-2003 WINDSTAR VAN. GM 1999-2005 CHEVROLET IMPALA, LUMINA, MONTE CARLO, VENTURE, and etc... MERCEDES BENZ models 107, 123, 124, 126, 129, 140, 163, 164, 170, 201, 202, 203, 208, 209, 210, 211, 215, 219, 220, 221 & 463.

**4719 AIR BAG REMOVAL TOOL SET****歐系安全氣囊工具組**

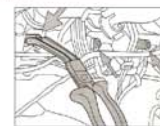
- Airbag removal tool is used to remove driver's airbag from steering wheel on 1999-04 new body style VW passat, jetta, golf and beetle.
- VW passat B 5, polo, lupo, AUDI, A4 and A6, SKODA superb.
- VW golf 4, new beetle, SEAT, SKODA fabia, octavia AB BJ. 99
- VW golf 4 (BJ. 1998-2004),
- VW-passat AB BJ. 1997, bora AB BJ. 1999
- VW-modelle U.A. passat AB BJ. 2000
- MERCEDES-BENZ, BMW.

**5826 RAIN & LIGHT SENSOR REMOVAL TOOLS****雨水&光線感應拆卸器**

- These tools are designed to remove soft-glued rain and light sensors of most vehicles such as Chrysler, Jeep, Mazda, Mercedes-BENZ and BMW.
- These three removal tools can remove about 90% of rain and light sensors on the market.

**4758 GLOW-PLUG CONNECTOR PLIERS****預熱塞連接器拆卸鉗**

- Special angle designed to remove stubborn and hardly accessible glow plug connectors which installed on the latest generation engines.
- Applicable: BENZ, BMW, VW, AUDI etc...

**4092 FUEL PEDAL FIXING TOOL****油門轉速固定器**

- Special designed with speedy adjustable function and also micro adjusting.
- Capacity: 600~1100mm.

**4857 CHRYSLER TRANSMISSION DIPSTICK****克萊斯勒變速箱油尺(300C)**

- Use in conjunction with factory repair literature to get correct fluid level measurements.
- Applicable : Dodge Sprinter & Chrysler Crossfire Transmission.

**4858 CHRYSLER TRANSMISSION DIPSTICK****克萊斯勒變速箱油尺(鋼索型)**

- Used on vehicles equipped with a NAG1, 42RLE, CVT Transmission & the 62TE Transaxle.
- Applicable : 2005 & later Chrysler 300C, Dodge Charger, Magnum & Jeep Grand Cherokee; 2006 & later Jeep Liberty; 2007 & later Dodge Nitro, Avenger, Calliper, Chrysler Sebring, Compass & Patriot; 2008 & later Dodge Challenger.



**4061 ASSORTMENT OF INJECTOR COPPER GASKETS****噴油嘴銅墊片組(15種)**

- Universal copper gaskets with 15 different size combinations are suitable for most of popular nozzle of injector system.
- Size : 13.85x7.3x1.4, 14.6x7.5x1.3, 14.6x7.5x3, 15x7x2, 15x7.5x1, 15x7.5x1.5, 15x7.5x2, 15x7.5x2.5, 15x17.5x3, 15.5x7.5x2, 16x7.5x1.5, 16x7.5x1.7, 16x7.5x2, 16.4x7.4x2, 20x9.4x0.9
- Total: 150pcs, 10pcs for each size.

4737 3/8" x 7PCS DIESEL GLOW PLUG SOCKET SET**3/8" x 7PCS 柴油預熱塞套筒組**

- Special designed for easy removal and replacement of glow plugs.
- 3/8" Dr., 6 point type.
- Contents: Universal socket 8, 9, 10, 12, 14, 16mm Extension bar 3/8" x 3"(JTC-3607)
- Socket length: 83mm

**4757 L-TYPE OPEN ENDED RING WRENCH SOCKET SET****6PCS L型開口扳手組**

- Special designed to loosen and tighten nuts and bolts in confined spaces such as fuel injector connections.
- 1/2" Drive x 6pcs
- Contents: 12PT, open ended ring size: 12, 14, 16, 17, 18, 19mm

**4052 7PCS GLOW PLUG PULLER SET****7PCS 預熱塞拔卸器**

- Designed to pull out the broken head glow plug on the engine.
- 5pcs outside holder jaw size : $\phi 2.7 \times 1$, $\phi 3.6 \times 1$, $\phi 5 \times 2$, $\phi 6 \times 1$
- 1pcs inside holder jaw size : $\phi 5.5$

**4053 33PCS GLOW PLUG THREAD REPAIR SET****33PCS 預熱塞螺牙修護組**

- Designed to repair the thread for the glow plug threads.
- Tap size : M8 x1.0, M10 x1.0, M10 x1.25, M12 x1.0, M12 x1.25, M14 x1.25
- Thread coil size : M8 x1.0 (I) - M10 x1.0 (E), M10 x1.0 (I) - M12 x1.0 (E), M10 x1.25 (I) - M12 x1.25 (E), M12 x1.25 (I) - M14 x1.25 (E)
- 2-Thread coil driver.

**4054 GLOW PLUG DRILLING SET****預熱塞鑽孔拆除器**

- Choose the NO. 4 socket, install it onto the glow plug, use a hammer to fix the socket with glow plug head then try to remove the glow plug with 3/8" DR. Spanner.
- This tool is especially for the situation when removing the glow plug, but there is only head is removed then please use the other accessories to remove the rest glow plug hole and replace a new one.
- Insert NO.6 tube into the glow plug hole, then insert a No.10 $\phi 3.5$ drill into NO.6 tube then drill a hole with air tool.
- Separate the NO.9 device and only choose the cone center tool and install it into the glow hole. Choose suitable drill from NO.2 (7x 5.5 or 9x 5.5 or 8x 5.5), inert the drill into NO.8 drill installer. It is important to use NO.5 (3mm alloy key) to lock the screw on drill installer. Then install it into cone center tool, and connect with air tool to drill and also remove the hex nut from glow plug.

4869 DIESEL INJECTOR COPPER WASHER**柴油噴油嘴墊片拆卸器****REMOVAL TOOL**

- Collect type easy to hold the copper washer.
- Size : inner hole 7mm
- Length : 230mm

**4771 DIESEL INJECTOR SEAT CUTTER SET****柴油噴油嘴座清除器**

- special designed for cleaning and re-cutting injector seats on common rail diesel engines.
- Contents: 15mm flat reamer for universal injector
17mm flat reamer for Delphi/Bosch injector(BMW, RENAULT, FORD)
19mm flat reamer for Bosch injector(BENZ)
19mm angle reamer for FIAT, IVECO

**4050 9PCS DIESEL INJECTOR & SEAT CUTTER SET****9PCS 噴油嘴及座清除器**

- Re-face the diesel injector seat in order for the new or reconditioned injector to be fitted correctly.
- Clean and re-cutting of injectors and injector seat.
- Avoid a high risk of "blow-by" occurring cause of the build up of carbon deposits and the effects of corrosion.
- Application for all modern common rail diesel engines.

**4865 4PCS DIESEL INJECTOR NOZZLE SOCKET SET****4PCS 柴油噴油嘴套筒組**

- The set include 4pcs diesel injector nozzle socket.
- 1/2"DR socket can use for SIEMENS & BOSCH injectors.
- Applicable: PEUGEOT and CITROEN with 2.0 engines (110/135HP)HDI engine.
- SIZE : 25, 27, 29 and 30mm.

**4927 PSA HDI INJECTION NOZZLES REMOVER****PSA 柴油噴油嘴拆卸器**

- Complete set for removing PSA HDI BOSCH and SIEMENS injectors without dismantling the cylinder head. Equipped with a pulling easily remove injectors and a blower adapter to clean the injectors seats.
- Applicable: TOYOTA, MAZDA, HYUNDAI.
- Engines : PSA 2.0, HDI DW10 and DW12.

**4044 KIA/ HYUNDAI INJECTOR REMOVER KIT****KIA/ HYUNDAI 噴油嘴拆卸器**

- Remove injector form most of KOREAN vehicles.
- Applicable vehicle : KIA : CARNIVAL, RIO, CAREENS, CERATO, OPTIMA, PICANTO, SORENTO, SPORTAGE, GRAND CARNIVAL.
- Corresponding vehicle : HYUNDAI : STAREX, LAVITA, MATRIX, TRAJET, TERRACN, SANTA FE (SM), LIBERO, AVANTE XD, GRANDEUR XD GETZ, TUCSON, NF SONATA, 06 ' ACCENT

