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ELECTRIC SYSTEM SERVICE TOOLS

- BATTERY AND ALTERNATOR SERVICE TOOLS
- SPARK PLUG AND GLOW PLUG SERVICE TOOLS
- TERMINAL AND WIRE STRIPPING TOOLS
- ELECTRONIC AND CIRCUIT TESTERS
- OTHERS

APA00001

AUTOMOTIVE INTERCHANGEABLE CRIMPER KIT



- Accuracy : $\pm 6\%$
- Torque Ratio : low energy input with high torque output ensures operator safety
- Supplied in a plastic box

APA00002

168PCS HEAT SHRINK TERMINAL & CLOSED END CONNECTOR W/ CRIMPER KIT



- Heat shrink ring / spade terminal / butt connector :
Terminal material : copper
Insulation material : PE
1. Shrink temperature : 150°C
2. Operating temperature : $-10^{\circ}\text{C} \sim +105^{\circ}\text{C}$
3. Shrink ratio : 3:1
4. Maximum electrical rating : 600 volts
5. Waterproof

APA00003
220PCS WEATHER PACK CONNECTOR & TOOL KIT

H6 DIE
For Delphi Weather Pack Terminal

- AWG 22 / 20-18
- DIN 0.35 / 0.5-0.8 mm²


H7 DIE
For Delphi Weather Pack Terminal

- AWG 16-14 / 12
- DIN 1.0-2.0 / 3.0 mm²



- Works for 22-12 AWG(0.35-3.0mm²)wire.

Die:

Material: AISI-4140

Procedure: Precision and Wax-Lost Casting

Treatment: Finished with Heat Treatment

Surface Treatment: Zinc Phosphate


Quick Change Ratchet Crimper:

Material:

Body: Carbon Steel

Handle: PP+TPR(PAHS Approved)

PATENTED
 •TAIWAN •USA
 •GERMANY •CHINA

Terminal Release Tool:

 Material: Aluminum Hexagon Housing with Anodized,
 Stainless Steel Blade(SUS310).

Wire Seal:

Material: SIR-405 Silicone

Φ1.4 & Φ2.5 Color: Green

Φ2.8 Color: Blue

(Seal O.D.: Φ4.3 / Φ7.2)


Receptacles Male/Female Terminal:

Terminal Material: Brass

Chemical Treatment: Pre-Matt Tin

Feeding Type: Horizontal


Male/Female Housing:

Housing Material: PA6/PA66

Color: Black

Operating Temperature Range: -40°C~120°C



APA00009

3PC DEUTSCH TERMINAL TOOL KIT



- Works on oem electrical connectors used on trucks and equipment.
- Such as CATERPILLAR, KENWORTH, PETERBILT, FREIGHTLINER, MACK and more.
- Also used on some HARLEY DAVIDSON and industrial equipment connectors.
- Slotted tubes are made from stainless steel which is more durable than plastic.
- Includes 14, 16, 20 gauge terminal release tools and a combination wedge removal / flat tip screwdriver tool.

APA00010

7PC DEUTSCH TERMINAL TOOL KIT



- Use to release deutsch connectors on numerous vehicle types: automotive, motorcycle, heavy duty trucks, construction equipment, agricultural equipment and some outboard engines.
- Such as CATERPILLAR, KENWORTH, PETERBILT, FREIGHTLINER, MACK and more.
- Also used on some HARLEY DAVIDSON.
- Includes 4, 8, 12, 14, 16 and 20 gauge terminal release tools and a combination wedge removal / flat tip screwdriver tool.

APA00011**5 PC ASIAN TERMINAL TOOL KIT**

- Easily removes terminals from electrical connectors without damaging the vehicle's wiring harness.
- Fits most asian and domestic vehicles: ACURA, HONDA, TOYOTA, LEXUS, NISSAN, INFINITI, MITSUBISHI, etc
- Kit Includes:
 - single face blade 1.0mm (W) x 1.0mm (T) tip
 - single face blade 1.5mm (W) x 1.0mm (T) tip
 - single face blade 1.8mm (W) x 1.0mm (T) tip
 - ladder blade 1.5mm (W) x 0.3mm (T) tip
 - knife blade 2.0mm (W) x 0.8mm (T) tip

APA00012

GLOW PLUG EXTRACTION KIT



M4X0.7P Extraction rod with nut



Ø3,2 drill fitted with extension



M4X0.7P tapping fitted with extension



M3X0.5P Extraction rod with nut



Ø2,5 drill fitted with extension



M3X0.5P tapping fitted with extension



M9x1 glow plug guide



M8x1 glow plug guide



M10X1,25 glow plug guide



M10x1 glow plug guide



glow plug extraction nut

- Special kit for the extraction of the electrode terminal part of the glow plugs (M10, M9, M8) in the event of breakage or seizure inside the seat, otherwise impossible to remove.
- The kit allows simple removal surgery, ran thus avoiding the engine head removal.
- Suitable for glow plugs with thread: M10xP1.0, M10xP1.25, M9xP1.0, M8xP1.0

APA00013
AUTOMOTIVE INTERCHANGEABLE CRIMPER KIT & TERMINAL KIT


- Multifunctional storage box.
- 25 compartments in total

APA00014
DELPHI WEATHER PACK TERMINAL CRIMPER KIT


- Suitable for 22-12 AWG (0.35-3.0 mm²) wire.
- This jaw set allows you to make a professional crimps without the high cost.
- Crimps the seal and terminal in one operation.
- Includes tool to remove terminals from housings.
- Contents:
 - 1x Jaw for Delphi Weather Pack Terminal [AWG 22 / 20-18] [DIN 0.35 / 0.5/0.8 mm²]
 - 1x Jaw for Delphi Weather Pack Terminal [AWG 16-14 / 12] [DIN 1.0-2.0 / 3.0 mm²]
 - 1x Quick Change Ratchet Crimper
 - 1x Terminal Release Tool

APA00015

IGNITION COIL PULLER (VAG GROUP)



- Used for removing "pencil-type" ignition coil on 4-cyl. Direct injection engine (Generation III)
- OEM Ref. T10530

APA00016

IGNITION COIL PULLER (VAG GROUP)



- Used for removing "pencil-type" ignition coil on 4-cyl. Direct injection engine (Generation III)
- OEM Ref. T10530

APA00021**TRAILER CONNECTOR REMOVAL TOOL KIT - KNORR - BREMSE**

- Fast releasing of all electronic connectors on trailer modules.
- Suitable for narrow surrounding, limited space and working overhead under the trailer.
- Suit: 1/4" dr.

APA00022**TRAILER CONNECTOR REMOVAL TOOL KIT - KNORR - BREMSE**

- Fast releasing of all electronic connectors on trailer modules.
- Anti-slip handle provides for a solid grip in hand.
- Suitable for narrow surrounding, limited space and working overhead under the trailer.
- Suit: 1/4" dr.

APA00023

JUNIOR POWER TIMER CONNECTOR REPAIR TOOL KIT



- Designed to crimp and remove the tiny terminals used in Junior Power Timer connector plugs and sockets.
- Wire sizes from 0.2mm² to 2.5mm²
- Contents:
Release Tool #6 x 1pc
Release Tool #23 x 1pc
Die for JPT Receptacle Contact x 1pc
Die for JPT & MCP Flat Contact x 1pc
Quick Change Ratchet Crimper x 1pc
- Application: VW/Audi/Skoda/Seat/Porsche/DAF/SCANIA/Mini/Mercedes-Benz/BMW

PATENTED

U.S.A. / Taiwan / Germany / China



L DIE
For JPT
Receptacle Contact
AWG : 24-13
0.2 - 0.5 , 0.2 - 0.5 , 0.5 - 1.0 ,
1.5 - 2.5 mm²



BMW Ford JAGUAR
Mercedes-Benz OPEL
PORSCHE SAAB
SEAT SKODA VW
Audi



L1 DIE
For JPT & MCP
Flat Contact
AWG : 20-14
0.5 - 1.0 , 1.5 - 2.5 , 0.5 - 1.0 ,
1.5 - 2.5 mm²



OPEL VW Audi

- Application :



- The electrical connector on mass airflow sensor (MAF), pressure sensor (MAP), ignition coil pack, ignition system, EV1 injector, etc

APA00024**DUAL-PURPOSE CAR BATTERY CAP REMOVAL TOOL**

- Length: 120mm, Thickness: 4mm
- Provide an easier way to disassemble battery caps, hollow design at the end is great for hanging for better storage.
- M6 wrench end is ideal for auto field, work place purpose.

APA00025**WIRE INSERTION TOOL**

- To install wire through rubber grommets such as those used in firewall or vehicle door.
- Used for installation of heavy gauge wiring.
- Blade: stainless steel.

APA00026

WIRE INSERTION TOOL SET



- Prevents damage to electrical sheathing.
- Provides flexibility and adaptability through the use of different lengths and diameters of tubes.
- Useful tool for A/V and dashboard wiring systems, wiring through firewalls, wiring to motors, pumps, headlight, brake and indicator lights.
- Blade: steel

APA00033

245PC OPEN BARREL AUTO CONNECTOR RATCHET CRIMPING TOOL KIT



C Die



Open Barrel Terminal
AWG 20-18/16-14/12-10
0.5-1.0/1.5-2.5/4.0-6.0 mm²



C1 Die



Open Barrel Terminal
AWG 26-24/24-22/22-18
0.1-0.25/0.25-0.5/0.5-1.0 mm²



- Contents:
- Quick change ratchet crimper
- Die for open barrel terminal (0.5 to 6mm²)
- 250 type male/female open barrel disconnectors
- 250 type male/female housings
- Die for open barrel terminal (0.1 to 1.0mm²)
- Ø 2.0mm type male/female open barrel disconnectors
- Ø 2.0mm type male/female housings
- Terminal release tools.

APA00034
CORDLESS CIRCUIT TESTER


- Suitable for testing DC circuits with voltages between 3 to 30 Volts.
- Bi-color LED and dual-tone buzzer can distinguish between positive and negative polarity voltage.
- No ground wire or clip required.
- V-groove needle accessory makes piercing and carrying safe.
- Battery: 3V (2 x SUM5 1.5V)

APA00035
NON-CONTACT VOLTAGE TESTER WITH WIRE STRIPPER


- Combines most required tools for an electrician to do the wiring job within the building, which includes screwdriver, non-contact voltage detector, illumination and wire stripper for most type wires.
- Features:
 - CE approval
 - Illumination
 - Replaceable Screwdriver (H4, H6, PH1, PH2, SL5, SL6)
 - Wire Stripper
 - Magnet Function
 - Sound and Light Indication
 - Non Contact Voltage Detection
- Specifications:
 - Voltage Detection: > 80V AC
 - Power Source: 3V(AAA 1.5V x 2)

APA00036

BATTERY TESTER



- Function:
CCA Testing: SAE, DIN, EN, IEC, CA
Battery Voltage when engine is starting.
Charging Voltage when engine is started.
- Operation Temperature: 0°C to 50°C
- Storage Temperature: -30°C to 70°C
- Display: LCD with background light.

APA00037

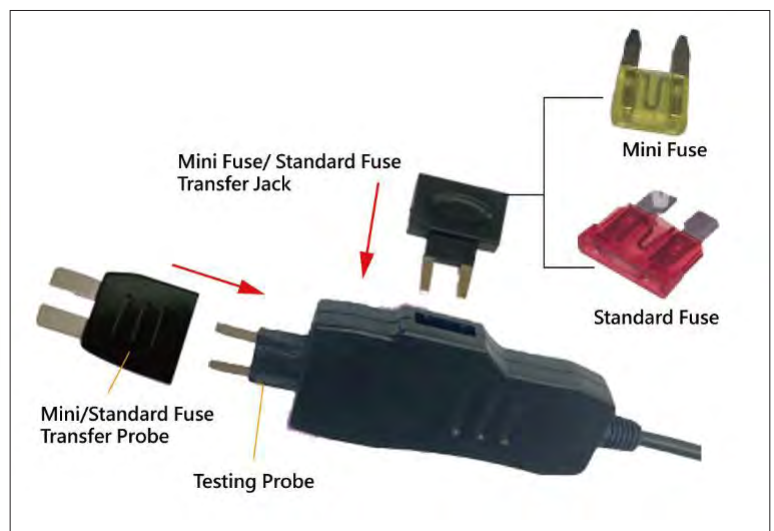
7-WAY BLADE AND 4 FLAT CONNECTOR TESTER



- Easy and quick to test trailer circuits.
- Works with both the common 7 way and 4 pin trailer plug used on most SUV's, trucks, boats, trailers and RV's.
- The trailer plug tester is extremely easy and convenient to use.
- Use in garages, workshops where there is a need to check the configuration of circuit.
- No batteries required

APA00038
4-PIN TRAILER LIGHT TESTER

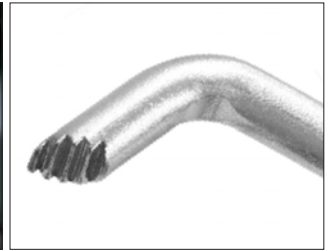

- Suitable for 4-pin small size trailer light tester and circuit troubleshooter, which can quickly and easily check whether the trailer wiring is correctly installed on the vehicle.
- LED light indication: Test right, left, turn, and brake lights for proper function.
- No batteries required.

APA00039
AUTOMOTIVE CURRENT TESTER


- The tester can be used to measure current at the fuse box of standard blade fuse.
- Ideal for fault finding on vehicles electrical circuit.
- Measure range: 0-20A

APA00040

ELECTRICAL CONNECTOR DISCONNECT PLIERS WITH BETTER GRIP



- Smoothly and quickly unlock difficult small locks, thin locks and indented locks.
- Releases locking tabs on electrical connectors, component connections and wiring harness connectors.
- Long claws can reach into deep areas.

APA00041

ELECTRIC SYSTEM SERVICE TOOLS



- Smoothly and quickly unlock difficult small locks, thin locks and indented locks.
- Releases locking tabs on electrical connectors, component connections and wiring harness connectors.
- Special angle can avoid obstacles.

APA00042**GLOW PLUG APERTURE CLEANER**

- Used for cleaning glow plug apertures when replacing glow plugs.
- Particularly useful when the original glow plug is removed.

APA00043**BROKEN PORCELAIN EXTRACTOR AND ELECTRODE SHIELD REMOVAL KIT**

- Includes: 4 red plastic sleeves, 6 pins and adhesive.
- Adheres pin to the porcelain for easy extraction without damaging the cylinder.
- The included red plastic sleeve is to remove stuck electrode shields

APA00047

9PC IMPACT GLOW PLUG REMOVAL KIT



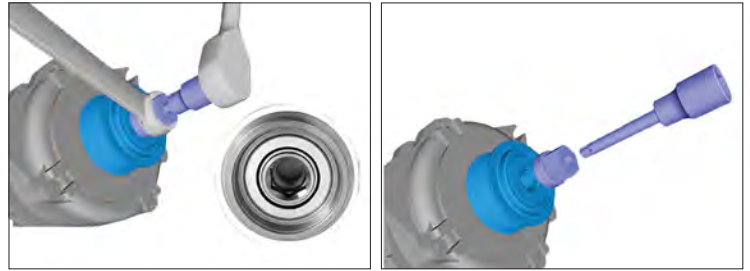
- Specially designed low torque impact vibration wrench gun for removing seized and stuck diesel glow plugs.
- Four pre-set torque settings: 10, 20, 30 and 40Nm.
- The set includes:
 - 1/4" impact universal joint x 1pc
 - 50mm impact extension bar x 1pc
 - 100mm impact extension bar x 1pc
 - 5pcs special glow plug sockets - 8, 9, 10, 11 and 12 mm

APA00048

RELAY TESTER



- Vehicle relay testing for 3 most popular kind of relays.
- Suitable for 12V / 24V vehicle relay.
- Support both 4 pin / 5 pin relay.
- Problem pin indication.

APA00049
ALTERNATOR COMBINATION SOCKET FOR FORD


- Designed to remove and install the overrunning alternator pulley.
- Suitable for 2.0L EcoBlue diesel, 2.0L Duratorq TDCi (DW10F, DW10F Premium) Diesel.
- Application: Ford Transit Custom 2012~, Kuga 2013~, Transit 2014~, Mondeo 2014~, Focus 2015~, Galaxy 2015~ S-Max 2015~, C-Max 2015~, Edge 2016~
- Size: Hex x 24 mm / 12" Dr.
- OEM Ref. 414-009

APA00050
ADJUSTABLE RELAY PLIERS


- Used for removing relays on most vehicles.
- Angled tips fit slots or edge of relay cover.
- Thin tips allow access to relays in confined areas.
- Slip joint design allows multiple size usage.

APA00052

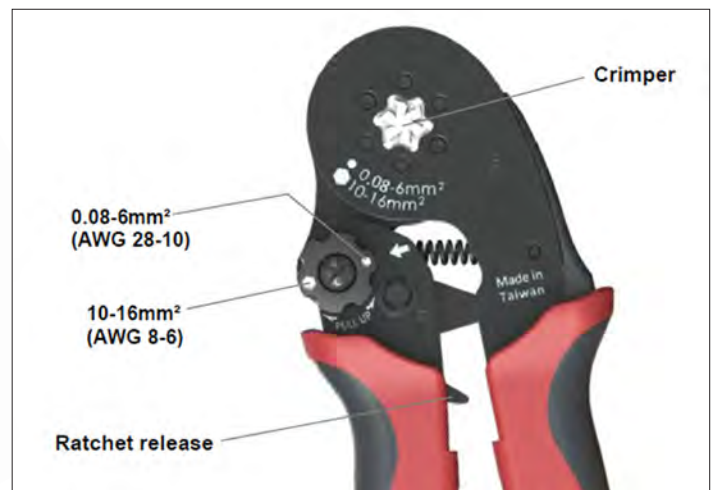
SQUARE SELF-ADJUSTING CRIMPER



- Works on insulated/non-insulated end-sleeve (ferrule/bootlace) terminals.
- Four serrated crimp dies are perfect for square crimps with long life.
- Self-Adjusting action with effective gripping force to the appropriate diameter.
- Lever action with full-cycle ratcheting delivers consistency and fatigue-reduced operation.
- Lateral loading from either side of the tool and convenient for right or left-handed users.
- Crimping range: AWG 28 to AWG 8 (0.08mm² - 10mm²)
- Length: 189.2mm (7.5")

APA00053

SELF-ADJUSTING CRIMPER PLIERS



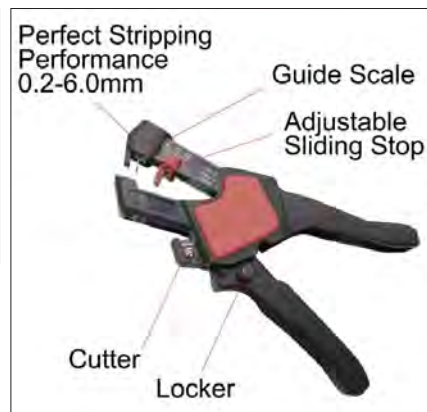
- Works on insulated/non-insulated end-sleeve (ferrule/bootlace) terminals.
- Six serrated crimp dies are perfect for hexagonal crimp with long life.
- Selectable button optimal for crimp range 0.08 - 6.0mm² (AWG 28-10) and 10 - 16mm² (AWG 8-6).
- Self-Adjusting action with effective gripping force to the appropriate diameter.
- Lever action with full-cycle ratcheting delivers consistency and fatigue-reduced operation.
- Lateral loading from either side of the tool and convenient for right or left-handed users.
- Length: 189.2mm (7.5")

APA00055
6-1000V MULTI-FUNCTION VOLTAGE TESTER


- Functions:
 - 1.AC / DC polarity measurement
 - 2.Voltage measurement
 - 3.High voltage indication
 - 4.Phase rotation test
 - 5.Non-contact voltage sensing
 - 6.Continuity test
 - 7.Illumination
- Features:
 - 1.Auto power off
 - 2.LCD resolution 1V
 - 3.With GS and CE approval
 - 4.Illumination for testing point
 - 5.Display range: 6-1000VDC, 24-1000VAC
 - 6.Probe cap to protect user and test probe
 - 7.Dual switch for protection and function switch
 - 8.Polarity indication LED lights up when voltage approximate $\geq 24V$ AC/DC
 9. CAT CATEGORY: CAT IV 1000V

APA00056

AUTO WIRE STRIPPER



- Features a self-adjusting and automatic grasp.
- Automatically adjusts to different cable cross-sections from 0.2 - 6.0mm² (AWG24 - 10).
- Integrated lever-action cutter can cut cables up to 4.0mm².

APA00057
CRIMPING TOOL SET FOR IP67 RATED CONNECTOR


- Waterproof electrical connectors.
- Suitable for auto repair and reset, also for home DIY and auto repair shop use.
- Contents:
 - 1 x Quick Change Ratchet Crimper
 - 1 x Jaw for 1.5 Superseal Terminal [AWG 22 -20/16] [DIN 0.35 - 0.5/1.5 mm²]
 - 1 x Jaw for 1.5 Superseal Terminal [AWG 18/17] [DIN 0.75 /1.0 mm²]
 - 1 x Jaw for Delphi Weather Pack Terminal [AWG 22 /20-18] [DIN 0.35 / 0.5-0.8 mm²]
 - 1 x Jaw for Delphi Weather Pack Terminal [AWG 16-14 /12] [DIN 1.0-2.0 /3.0 mm²]
 - 1 x Jaw for Deutsch Contact [SIZE 20/16/12]
 - 1 x Wire Seal for 1.5 Superseal
 - 1 x Male and Female Terminal for 1.5 Superseal
 - 1 x Wire Seal for Delphi Weather Pack
 - 1 x Receptacles Male and Female Terminal for Delphi Weather Pack
 - 1 x Solid Pin Contact
 - 1 x Solid Socket Contact


H2 Jaw
For 1.5 Superseal Terminal

●AWG 22-20 / 16

 ●DIN 0.35-0.5 / 1.5 mm²

H3 Jaw
For 1.5 Superseal Terminal

●AWG 18 / 17

 ●DIN 0.75 / 1.0 mm²

K7 Jaw
For Deutsch Contact

● SIZE 20 / 16 / 12

For DTM / DT / DTP Series

H6 Jaw
For Delphi Weather Pack Terminal

●AWG 22 / 20-18


H7 Jaw
For Delphi Weather Pack Terminal

●AWG 16-14 / 12



APA00058

DEUTSCH SOLID CRIMPER KIT



- Tools specially designed to safely remove wires from terminal blocks without damage.
- Widely used for vehicles, trucks, construction and agricultural equipment on the German terminal connectors.
- Deutsch Removal Tools for 12, 16, 20 gauges.
- Suitable for DT, DTP and DTM Series Connectors.
- Contents:
 - 1 x Removal Tool
 - 1 x 20 Gauge Terminal Release Tool
 - 1 x 16 Gauge Terminal Release Tool
 - 1 x 12 Gauge Terminal Release Tool
 - 1 x Jaw for Deutsch Contact (Size 20/16/12)
 - 1 x Quick Change Ratchet Crimper

APA00059

QUICK CHANGE RATCHET CRIMPER FOR 1.5 SUPERSEAL TERMINAL



- Works with 22-20/16 AWG (0.35-0.5/1.5 mm²) and AWG 18/17 (0.75/1.0 mm²) wire.
- Two jaws included for different gauge wire. They can be easily switched off and on.
- No tools required to change jaws.
- Contents:
 - 1 x Jaw for 1.5 Superseal Terminal [AWG 22-20 /16] [DIN 0.35-0.5/1.5 mm²]
 - 1 x Jaw for 1.5 Superseal Terminal [AWG 18 /17] [DIN 0.75/1.0 mm²]
 - 1 x Quick Change Ratchet Crimper

APA00062
IGNITION COIL PULLER SET FOR VAUXHALL/OPEL

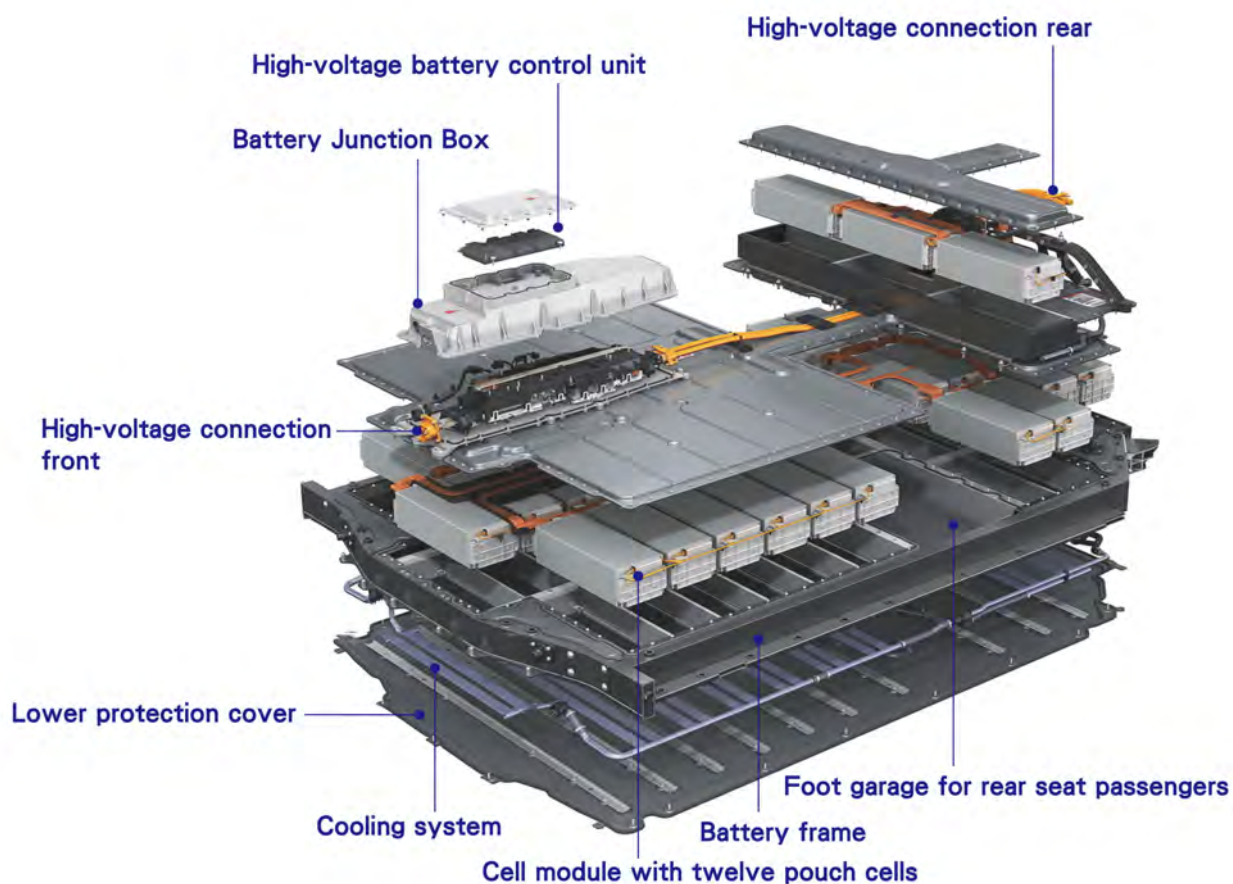

- Specifically designed to pull out the ignition coil.
- Applications:
 Agila-A, Astra-F/G/H/J, Calibra, Combo, Corsa-B/C/D, Frontera-A/B, Insigna, Mervia-A/B, Omega-B, Signum, Tigra-A/B, Vectra-B/C, Zafira-A/B.
- Engine Codes:
 LDD, LDE, LLU, LUH, LUJ, 2HO, A10XEP, A14NEL, A14NET, A14XER, X14NZ, X14SZ, X14XE, A16LET, A16XER, X16SZR, X16XE, X16XEL, A18XER, X18XE, X20SE, X20XEV, X22SE, X22XE, Y22SE, Z10XEP, Z12XE, Z12XEP, Z14XE, Z14XEL, Z14XEP, Z16LEL, Z16LER, Z16LET, Z16XE, Z16XER, Z16YNG, Z18XE, Z18XER, 20LEH, Z20LER, C22SEL.
- Equivalent to OEM No.: KM 6009

APA00063

HV BATTERY MODULE CONNECTOR RELEASE TOOL



- Designed to release the communications connector on the HV battery module.
- Suitable to use on Porsche Taycan (2020~) and Audi e-tron GT (2021~).
- OEM Ref. T90027



APA00064
101PC QUICK CHANGE RATCHET CRIMPER KIT


- Works with insulated, non-insulated, ferrule connectors and ferrule terminals.
- Precise ratcheting mechanism makes proper uniform crimps every time.
- Contents:
 - 1PC Quick Change Ratchet Crimper
 - 1PC Jaw for Insulated Terminal
 - 1PC Jaw for Non-Insulated Terminal
 - 1PC Jaw for Cord End Terminal
 - 1PC Jaw for Cord End Terminal
 - 1PC 7" Four-way Grinding Wire Stripper
 - Cord End Terminal
 - Non-Ins-Ring/ Spade/ Butt Terminal


A Jaw
Insulated Terminal

- AWG 22-18/16-14/12-10
- DIN 0.5-1.0/1.5-2.5/4-6 mm²


B Jaw
Non-Insulated Terminal

- AWG 20-16/16-14/12-10/8
- DIN 0.5-1.5/1.5-2.5/4-6/10 mm²


D Jaw
Cord End Terminal

- AWG 20/18/17/16/14/12
- 0.5/0.75/1.0/1.5/2.5/4.0 mm²


F Jaw
Cord End Terminal

- AWG 10 / 8 / 6
- DIN 6 / 10 / 16 mm²



APA00065

DIGITAL DISPLAY AUTO CIRCUIT TESTER



- Designed for testing voltage value, and identifying DC polarity from different background light colours and positive/negative signs.
- Used to check on 6, 12, 24, and 48V systems.
- Measure DC voltage range from 3 - 60V.
- Features with over-voltage protection and warning for 4 different voltage levels.

APA00237

RETRACTABLE CABLE & VOLTAGE TESTER



- A retractable cable reel assembly that has the cable reel which attaches to a midpoint of a cable and you can rotate it, winds both ends of the cable up on the cable reel.
- A releasable detent arrangement is used to retain a desired amount of cable extending from the assembly.

APA00306
CRIMPER FOR DELPHI WEATHER PACK TERMINAL & SEAL


- Length: 213mm
- Die Gauge: 4.0mm



Material: AISI-4140
 Procedure: Precision and Wax-Lost Casting
 Treatment: Finished with Heat Treatment
 Surface Treatment: Zinc Phosphate

Material:
 SPCC
 (Steel - Plate -
 Cold Rolled - Common)

Material:
 Plastic



APA00307

CRIMPER FOR SUPERSEAL 1.5 TERMINAL & SEAL



- 2-Way Crimping Tool
- Length: 213mm
- Die Gauge: 4.0mm

Metri-Pack 280 Seals &
Weather Pack Seals O.D. $\Phi 4.25$

Wire Crimp for
AWG 20-18
(0.5-0.8 mm²)
Terminals

Wire Crimp for
AWG 12
(3.0 mm²)
Terminals

Material:
SPCC
(Steel - Plate -
Cold Rolled - Common)

Metri-Pack 150 Seals O.D. $\Phi 3.45$

Wire Crimp for
AWG 22
(0.35 mm²)
Terminals

Wire Crimp for
AWG 16-14
(1.0-2.0 mm²)
Terminals

Material:
AISI-4140
Procedure:
Precision and Wax-Lost Casting
Treatment:
Finished with Heat Treatment
Surface Treatment :
Zinc Phosphate

Material: Plastic

How to use



1 Seal loaded on stripped wire
(wire stripped 5.0mm or 3/16")



2 Insert the terminal into the correct die
on the crimper and gently close the
jaws to hold the terminal in place.



3 Insert the stripped wire into terminal
until the seal is flush with the end of
the terminal. Completely close the jaws
to crimp the terminal to the wire.



4 Insert the terminal and seal into the
seal die and crimp the terminal to
the seal.



5 Pull test to ensure a complete crimp.



6 Crimp terminal onto stripped wire and
seal and insert into connector housing

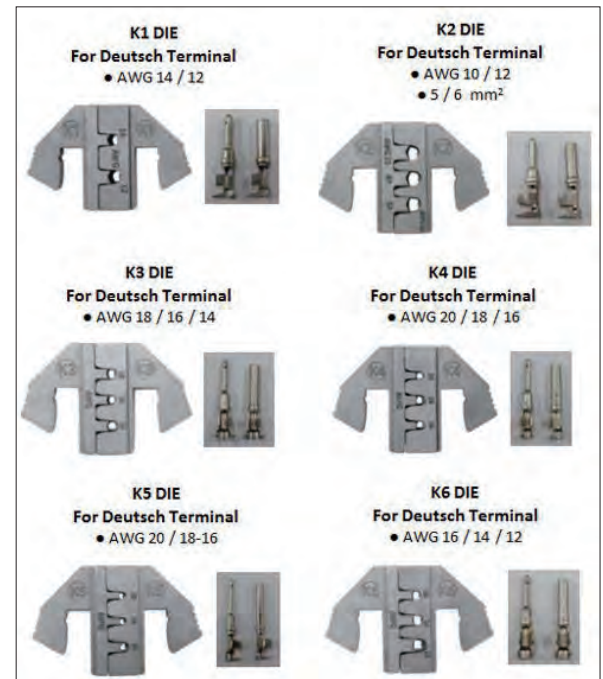


7 Once all terminals are inserted,
lock wire and seals as shown above.

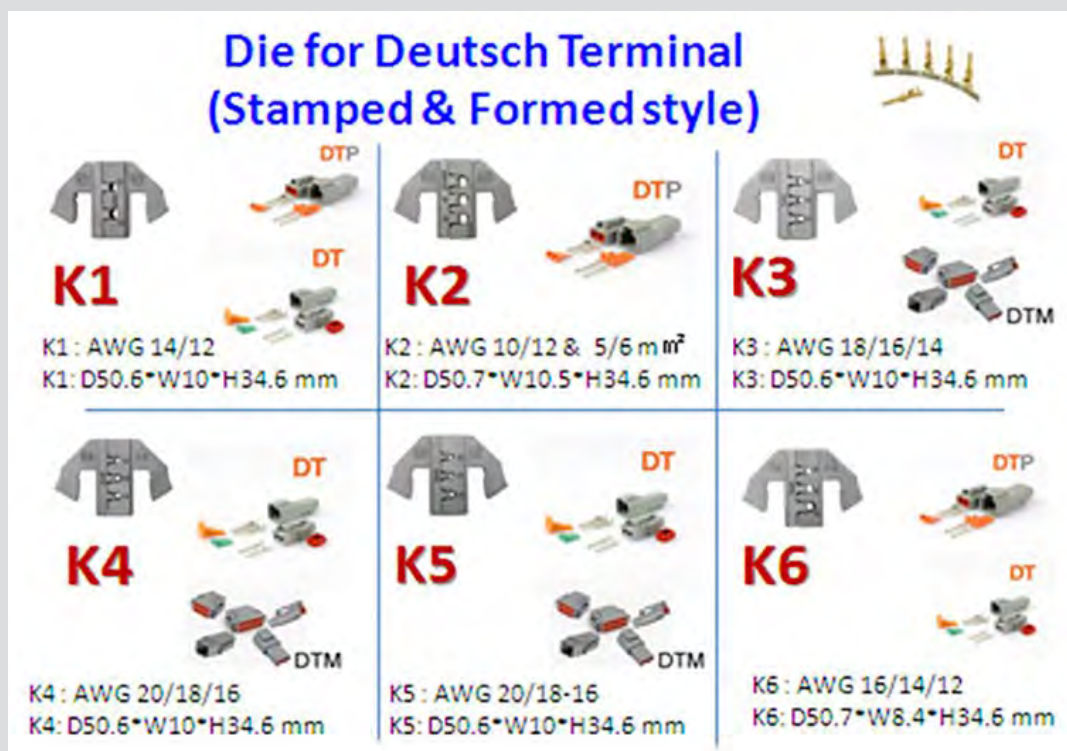


8 Once steps 1, 2, 3, 4, 5, 6 and 7 are
completed for male and female
housings connect together until
locked.



APA00308
CRIMPER FOR DEUTSCH TERMINALS (STAMPED & FORMED STYLE)


- Die for Deutsch Terminal (14/12 AWG) K1 1 Set
- Die for Deutsch Terminal (5/6 mm² and 10/12 AWG) K2 1 Set
- Die for Deutsch Terminal (18/16/14 AWG) K3 1 Set
- Die for Deutsch Terminal (20/18/16 AWG) K4 1 Set
- Die for Deutsch Terminal (20/18-16 AWG) K5 1 Set
- Die for Deutsch Terminal (16/14/12 AWG) K6 1 PCE
- Quick Change Ratchet Crimper 1 PCE

**Die for Deutsch Terminal
(Stamped & Formed style)**


APA00368

LONG-NOSE MULTI FUNCTION STRIP & CRIMP TOOL



- Strips 0.75-6.00 mm² AWG wire, can also cut wires
- Bolt cutter: M3/M4
- Crimps insulated and non-insulated terminals
- TPR handle
- Length: 8" (200mm)
- Forging: 50C

APA00369

LONG-NOSE MULTI FUNCTION STRIP & CRIMP TOOL



- Strips 0.75-6.00 mm² AWG wire, can also cut wires
- Bolt cutter: M3/M4
- Crimps insulated and non-insulated terminals
- Length: 8" (195mm)
- Forging: 50C

APA00370**LONG-NOSE MULTI FUNCTION STRIP & CRIMP TOOL**

- Strips 0.3-6.00 mm² AWG wire, can also cut wires
- Bolt cutter: M3/M4
- Crimps insulated and non-insulated terminals
- Double dipped handle
- Length: 8 1/2" (212mm)
- Forging: 50C

APA00371**LONG-NOSE MULTI FUNCTION STRIP & CRIMP TOOL**

- Strips 0.3-6.00 mm² AWG wire, can also cut wires
- Bolt cutter: M3/M4
- Crimps insulated and non-insulated terminals
- TPR handle
- Length: 8 1/2" (216mm)
- Forging: 50C

APA00372

LONG-NOSE MULTI FUNCTION STRIP & CRIMP TOOL



- Strips 0.3-6.00 mm² AWG wire, can also cut wires
- Bolt cutter: M3/M4
- Crimps insulated and non-insulated terminals
- TPR handle
- Length: 8 1/2" (216mm)
- Forging: 50C

APA00476

DIGITAL CIRCUIT TESTER KITS



- The digital display reads the accurate voltage value
- Available for 6, 12 & 24V DC system
- LCD indication for power (Red) and ground (Green)
- Voltage measurement from 5 - 28V
- Coil cord stretches to 12-ft.
- Small testing current: < 10mA
- Accessories:
 - Piercing probe with banana socket, test probe, insulated cable piercer probe and Alligator clip.

APA00575
VEHICLE BATTERY CHARGER


- The charger uses a microprocessor to monitor the charging process.
- Is a smart charger with reverse polarity protection, over-voltage, over-current, short circuit, and over-charging.
- It has wide working temperature, and it has IP54 protection.
- Working Temperature: -10 - 40°C
- Working Humidity: $\leq 90\%$
- Storage Temperature: -20 - 70°C
- Input Voltage: AC 180 - 240V 50 - 60Hz
- Output Voltage: 12V
- Input Current: 1.2A
- Maximum Output Power: 48W
- Charging Method: Stage Charging
 - 1: Battery $\leq 11V$, Constant small voltage charging.
 - 2: Battery $>11V$, Constant voltage charging.
 - 3: Charging current $\leq 1.5A$, Constant small current charging.
 - 4: Charging current $\leq 0.5A$, Pulse charging.

APA00577

MULTI-FUNCTION VEHICLE TESTER



ACCURACY

(\bar{V}) DC Voltage	0 – 70V \pm (2% + 3)
(\square) Signal Frequency	0 – 300 KHz \pm (3% + 3)
(Ω) Resistance	0 – 200K \pm (5% + 3)
(A) DC Current	0 – 5A \pm (3% + 3)
Temperature	5 – 200°C / 41 – 392°F \pm (1.5% + 5)

SPECIFICATION:

- Supply voltage: 8-30 VDC
- Voltage measurement range: 0-70 V
- DC current measurement range: 0-5A DC
- Frequency measurement range: 0-300 KHz (square wave)
- Resistance measurement range: 0-200 K Ω
- Temperature measurement: 5-200°C / 41-392°F
- Illumination
- Color LCD display

APA00578
VOLTAGE TESTER WITH LED/LCD DISPLAY

DESCRIPTION:
■ Measurement by LED display

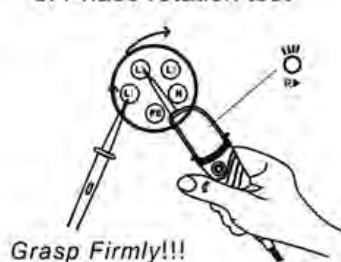
1. Double-pole test
2. High Voltage Indication
3. Phase Rotation Test
4. Polarity Indication
5. Continuity Test
6. Illumination

FEATURES:

- Self-Diagnostic test.
- Auto-power ON/OFF.
- With CE, GS and ETL approval.
- Probe cover protects user and probe tips.
- Compact design, light weight and portable.
- Phase rotation test with R/L LEDs displayed.
- Two-way clip for adjustable spacing of probes.
- AC and DC voltage test by seven stages LED/LCD displays.

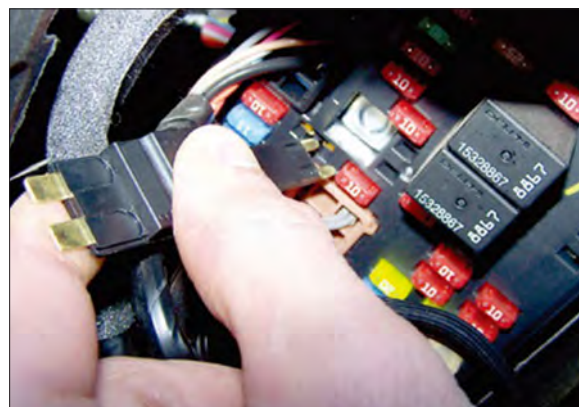
Measurement:
1. Double-pole test

2. Up Voltage indication

3. Phase rotation test

4. Polarity indication
5. Continuity test
6. Pen light function

APA00579

FUSE SAVER



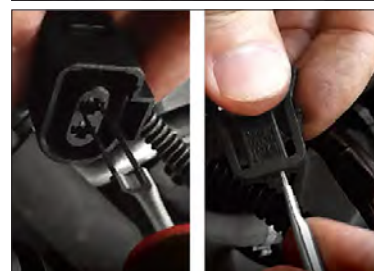
- This is a current limiter that helps technicians to protect the vehicle circuit from current overloading during the maintenance.
- There are 9 level of protections: 2A/ 3A/ 4A/ 5A / 10A/ 15A/ 20A/ 25A/ 30A.
- The maximum current for this equipment is 30A DC.

SPECIFICATION

- Working Temperature: 0 ~ 55°C; 32 ~ 122° F
- Accuracy: 8% @ Current \leq 5A
5% @ Current > 5A
- Working Humidity: \leq 90%
- Maximum Current: \leq 30A
- Power: 6 x 1.5V Batteries

APA00594

CONNECTOR AND TERMINAL REMOVAL TOOL KIT - VAG



- Specially designed to remove connectors and releasing terminals of the VAG vehicles.
- Remove most of VW / Audi push and pull style connectors.
- Release terminals of VW / Audi junior and micro connectors.
- VW / Audi MAF sensor, coil pack, headlight, fog light, level sensor, MAP sensor, and etc.
- The most common type of VW / Audi terminal ends.

APA00682
IGNITION COIL PULLER (VAG GROUP)


VW	Up 2011-, Polo 2012-, Golf 2013-, Beetle 2014-, Caddy 2015-, Passat 2014-, Tiguan 2015-, Touran 2015-, Sharan 2015-
AUDI	A1 2012-, A3 2013-
SKODA	Citigo 2011-, Fabia 2014-, Octavia 2013-
SEAT	Mii 2011-, Ibiza 2013-, Leon 2013-

- Used for removing "pencil-type" ignition coil on 1.0L / 1.0L TSI / TFSI - 1.2L TSI - 1.4L TSI / TFSI - 2.0L GTI engines.
- Suitable for engine codes (petrol):
 CJZB , CJZA, CBZB, CJZD , CYVB, CTHD, CTHA, CZCA, CZDB , CZDA, CMBA, CPVB, CPVA, CPCB, CHPA, CPTA, CAXA, CAVA, CAPB, CAVD, CXSA, CDGA, CXEA, CXSB, CKMA, CAVE, CHHB, CHHA, CCZB , CPGA, CHZB, CHYB , CHYA.

APA00711
CRIMPER FOR STORAGE BATTERY TERMINAL & NON-INSULATED TERMINAL


- From low current non-insulated terminal to high current storage power wire connection Contents:
- Crimping tool, wire cutter, color coded housing, T handle, rubber dust cover, 2:1 & 3:1 heat shrink tubes and relative parts.
- Genderless connector housings are mechanically keyed by color to prevent cross-connections.
- Dust cover protects connector from polluted.
- T handle keeps user away from scald or electric shock.
- The silver plated solid copper terminal offers high conductivity and produces less heat.

APA00772

GLOW PLUG CONNECTOR REMOVAL PLIERS (ANGLED)



- Designed to remove hard to reach glow plugs connectors.
- Suitable for engines fitted to Opel, Vauxhall 1.7L.
- Applications:
Astra H (2004-2009), Astra J (2009-2014),
Meriva A (2003-2010), Meriva B (2010-2014),
Corsa D (2006-2014), Zafira B (2009-2014).

APA00881

DEUTSCH CRIMPER TOOL KIT



- Stainless steel tool is used to release the terminals.
- Contents: Removal Tool, 20 Gauge Terminal Release Tool, 16 Gauge Terminal Release Tool, 14 Gauge Terminal Release Tool, Die for Deutsch Contact (AWG 18/16/14), Die for Deutsch Contact (AWG 20/18/16) , Quick Change Ratchet Crimper.



ENGINE SYSTEM SERVICE TOOLS

- FUEL INJECTION AND CARBURETOR SERVICE TOOLS
- A/C AND COOLING SYSTEM SERVICE TOOLS
- CRANKSHAFT AND FLYWHEEL SERVICE TOOLS
- CAMSHAFT AND VALVES SERVICE TOOLS
- PISTON SERVICE TOOLS
- OIL FILTER AND DRAIN PLUG SERVICE TOOLS
- EXHAUST SERVICE TOOLS
- TESTERS AND GAUGES
- OTHERS

APB00001

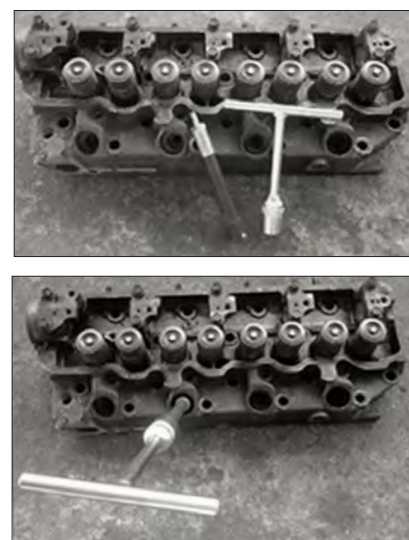
AUTOMOTIVE INTERCHANGEABLE CRIMPER KIT



- Turns all diesel injector removals into 17t hydraulic kits
- This set enables the controlled extraction of very tight - fitting or stuck injector nozzles
- It is used in conjunction with a injector nozzle puller with extraction bridge and a hydraulic pump

APB00002

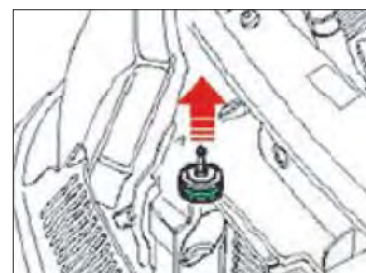
DIESEL INJECTOR | INJECTOR SEAT CLEANER SET



- Used to clean injector / injector seat when changing injector
- Helps to avoid blow - back due to poorly seated injector
- Suitable for a wide range of vehicles

APB00003
UNIVERSAL VALVE SPRING INSTALLER AND REMOVER TOOL SET

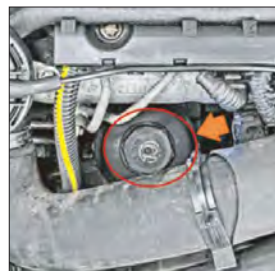

- Especially suitable for :
- Mercedes Benz engines : M102, M103, M104, M111, M112, M113, M271, M272
- BMW engines : N42, N52, N62, M54, M52, M56, E38, M60, V8
- Can be applied to European, American and Japanese cars, such as BMW, VOLVO, TOYOTA, VAG, Ford, etc
- Suitable for assembly and disassembly of valve springs and replacement of valve stems on cars, without removing the cylinder head
- Valves are classed by pressurized air and can not fall down into the combustion chamber
- Works great in narrow space conditions

APB00006
DRIER CORE PLUG REMOVER


- Easy removal of plugs on drier cores.
- Required for new condenser design where the drier is located inside the unit on VW, Audi , SKODA, SEAT, OPEL and Ford, etc .
- Universal tool for plugs with 5 mm inside thread .
- Screw the bolt (M5) of the remover into thread of sealing cover .
- Pull out sealing cover straight in the direction of the arrow.

APB00007

5 PC OIL FILTER OFFSET WRENCH SET



- 24mm / 27mm / 32mm / 36mm / 38mm with 3/8" square driver.
- Low profile design with offset drive.
- Special design for tight confined areas.
- For oil filters where access is limited.

APB00008 、 APB00009 、 APB00010

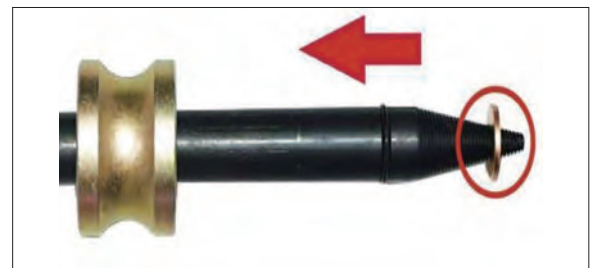
WATER PUMP REACTION WRENCH (OPEL/VAUXHALL/GM)



- Suitable for OPEL / VAUXHALL / GM OHC-engines e.g. 1.2, 1.3, 1.4, 1.6L.
- Used for turning the water pump, so as to enable the driving belt to be tensioned.
- Safe locking / No damage of the Visco-clutch.
- Works on 1.6L engines in 2004 - current CHEVROLET Aveo (excluding 2009 with variable timing engine and 1999-2002 DAEWOO Lanos).
- Also works on the CHEVROLET Optra in markets outside the US.
- APB00008-39mm
- APB00009-41mm
- APB00010-46mm

APB00011
FUEL RETURN LINE TOOL - VAG - TDI CR


- Designed for professional removal and installation of the fuel return line push.
- Fits connector (round type) at the injectors.
- Suitable for VW, Audi, Skoda, Seat 2.0, 2.7 AND 3.0 TDI common rail diesel engine.
- Models: VW Eos, Golf V, Golf VI, Jetta, Passat, Scirocco, Tiguan, Transporter T5, Phaeton; Audi A3, A4, A5, A6, A7, Q5; Seat Exeo; Skoda Yeti.
- Engine codes: BMK, BPP, CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CBAA, CBAB, CBAC, CBDA, CBDB, CBDC, CDUD

APB00013
DIESEL INJECTOR SEAL PULLER


- Unique design to assist the extraction of the copper washers on seal diesel injector.

APB00014

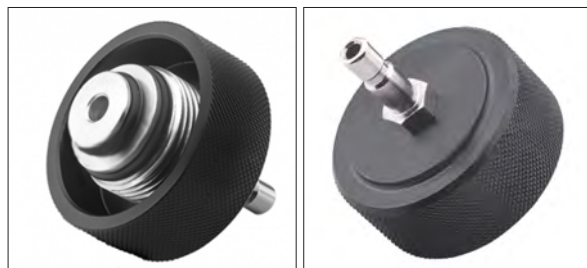
COOLING SYSTEM FLUSH TOOL SET



- Powerful flush cleans impurities in cooling system with pulse.
- Adapter are provided for radiator, upper/lower hoses and heater core.
- Also used to connect to air compressor and garden hose for cleaning.

APB00015

RADIATOR ADAPTER FOR HYUNDAI / KIA



- A specialised radiator adapter for post 2015 Hyundai / Kia vehicles.
- Applications: Hyundai Elantra (16-19), i30 (16-19), Tucson (15-19), Veloster (2019); Kia Picanto (17-19), Sportage (17-18)

APB00017
BOSCH DIESEL INJECTION PUMP SOCKET KIT


- The special sockets are required to loosen and remove the triangular headed screws on the injection pump.
- For BOSCH diesel injection pump ve (BOSCH VE)
 1. Triangular socket for central closing plug
 2. Governing pressure socket
 3. Triangular socket for bearing screws governing lever

APB00018
SOLENOID SWITCHING VALVE SOCKET


- Designed to remove the shift valve for controlling piston cooling.
- Suitable for Mercedes diesel engine OM651

APB00019 、 APB00020 、 APB00021 COOLING SYSTEM FLUSH TOOL SET



- APB00019 : Ø76 mm • 12 Ribs
- APB00020 : Ø66 mm • 6 Ribs
- APB00021 : Ø96 mm • 18 Ribs

Ø 76 mm • 12Ribs (APB00019)

Dacia

Logan, Sandero

Fiat

Ducato, Scudo, Ulysse, Stilo, Multopala, All Doblo JTD models

Mercedes (all with purflux Filter LS 918)

Especially for Mercedes with 6-cylinder petrol engine M102 and M103

Renault

R5. Twingo, Rapid with C-Petrol engines

Clio, Kangoo with E-Petrol engines

R19, R21, Esoace I + II + III, Laguna with F-Petrol engines

Megane, Kangoo with K-Petrol engines (filter No. 77 00 873 583)

Traffic with J-Petrol engine (filter No. 77 00 720 978)

Traffic (1.9 diesel), Master (1.9 diesel)

Opel / Vauxhall

Vivaro

Nissan

Primastar

Land Rover

Defender 2.5 L Diesel - DD5 (filter No. LPX 100 590)

Peugeot (with Purflux-filter)

307

Honda

Prelude (BA4 2.0 16V engine)

Ford (with 1.8 diesel-engines Motorcraft-filter EFL 344)

Fiesta, Escort, Orion, Mondeo, P100

Ø 66 mm • 6 Ribs (APB00020)

Fiat

Punto, Idea (1.2)

Renault

Clio (1.2), Express, Kangoo, Rapid, Twingo

Twingo, Clio with D-Petrol engines (filter No. 7700 869 029)

Ø 96 mm • 18 Ribs (APB00021)

Audi

A4 (with TDI-engines)

VW

Touareg (with V 10 TDI engines)

Passat ('97-onwards with TDI- engines)

Renault

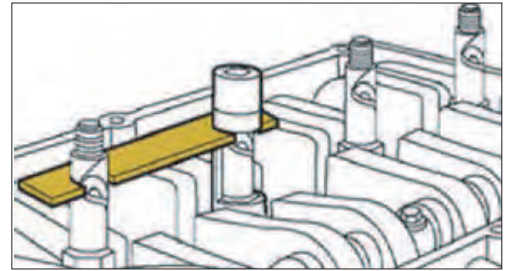
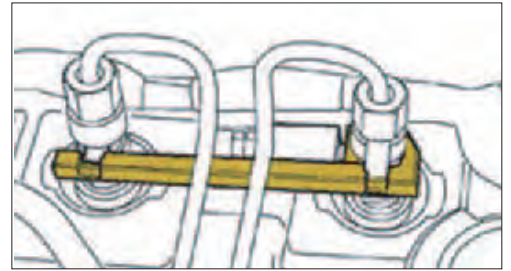
Master (2.5 and 2.8 D / TD)

Laguna, Safrane, Espace III (2 . 2 D)

R19, Rapid and Megane (1.9 and 2.1 D / TD)

Opel/Vauxhall

Movano (2.5 and 2.8 D / TD)

APB00022
DIESEL INJECTOR ALIGNMENT TOOLS


- Tools designed to hold the injectors in place and align them with the fuel lines while the injectors are secure.
 - It is essential to have the injectors correctly aligned to avoid the risk of a fractured pipe in service.
- Applications :
- FORD Duratorq (Puma) diesel engines 2.0 / 2.2 / 2.4 litre Di / TDCI / TDDI
- FORD : Mondeo Mk3 (2000~2007), Transit (2000~2006)
- JAGUAR : X-Type 400 (2003~2009)

APB00023
VALVE STEM SEAL RING PLIERS


- For easy and reliable removing of valve stem seals.
- For multi-valve engines.
- Universal application.
- Spring inside joint design.

APB00024

3/8" OIL FILTER SOCKET



- Made from Chrome Vanadium.
- Includes sizes 24 | 27 | 32 | 36 | 38 | 42mm.(1/2 DR)
- Application also include BMW Mini | BMW | Mercedes-Benz A Class | Vauxhall Vectra 2.0 | Astra-G | Corsa-B | Zafira | Ford | Volkswagen VR6 | Audi
- VAG diesel engines fitted with Mann Mahle & Knecht filters

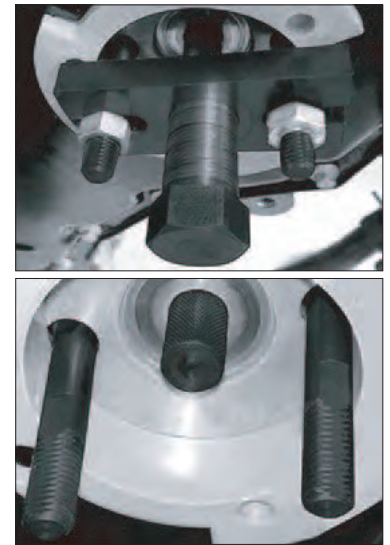
APB00025

DIESEL INJECTOR SEAT CLEANER SET

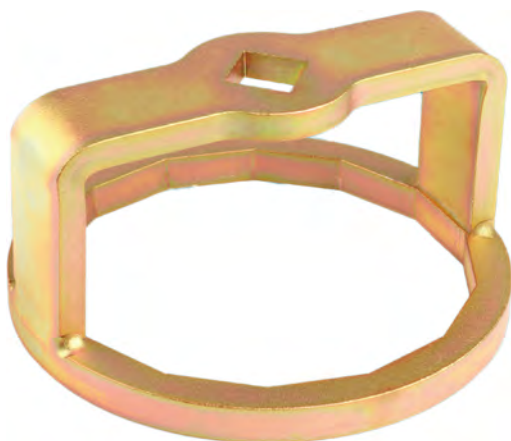


- Used to clean injector / injector seat when changing injector
- Helps to avoid blow - back due to poorly seated injector
- Suitable for a wide range of vehicles

CONTENT		
Pilot post		
T- handle		
Reamer (flat)	15 x 19 mm	Various vehicles
Reamer (flat)	17 mm	Bosch / Delphi (BMW, Ford, PSA, Renault)
Reamer (flat)	17 x 19 mm	Bosch (Mercedes CRD)
Reamer (angled)	17 mm	Fiat, Iveco, Ford, Mercedes CDI
Reamer (angled)	17 x 21 mm	Fuat, Iveco
Reamer	18 x 21 mm	Various vehicles
Reamer	20 x 21 mm	Various vehicles
Reamer (long)	15.5 mm	Bosch
Hex key		

APB00026
DIESEL PUMP SPROCKET PULLER (FORD TRANSIT)


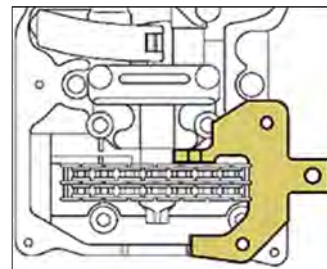
- The threaded holes in the sprocket of the fuel pump have been omitted.
- The new special tool is required to ensure the correct and rapid removal of the fuel pump on 2.2L tdc(puma) diesel engine in Ford Transit from 2011.
- The special tool consists of two special hooks for holding the sprocket and a compression piece for releasing the fuel pump.
- Suitable for Ford Transit (04/2011-) with 2.2L duratorq-tdci (Global Puma) diesel engine, RWD.

APB00027
OIL FILTER SOCKET


- Used for the oil filter with 84mm / 14flats.
- Suitable for Mercedes OM642 diesel engine: C class 320, CLS 320, E class 280 / 320, S class 320, ML 280 / 320, etc.
- Also suitable for Dodge, Jeep, Chrysler with 3.0L V6 diesel engine.

APB00028

CAMSHAFT ALIGNMENT TOOL - MERCEDES



- Used to hold the camshaft in place while working on engine timing for Mercedes M112 or M113 engine.

APB00029

ADBLUE FILTER SOCKET - MERCEDES



- Designed to remove and install the AdBlue filter (Urea filter) housing cap.
- Suitable for Mercedes commercial vehicles with BlueTec engines: Actros, Atego, Axor, Econic.

APB00030
DELUXE INJECTION CLEANING/ TESTING KIT (BY FUEL RAIL)


- Quick coupler connections
- Complete set of adapters/ fittings
- Carbon cleaning function included
- Complete tools to remove fuel line
- Large pressure gauge.
- Dimension : 435x390x115m/m
- Weight : 6.32kg

APB00031
SUPER FUEL INJECTION TESTING KIT


- Quick coupler connection
- Complete set of adapters / fittings
- Special designed storage case
- Dimension: 435x390x115m/m
- Weight : 4.2kg

APB00032

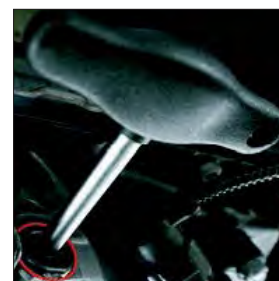
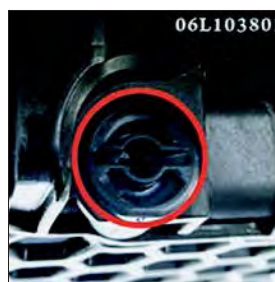
OXYGEN SENSOR WRENCH 22MM (7/8")



- Flexible head design assists in the removal of stubborn oxygen sensors (22mm - 7/8")
- Pivots to allow more angles of placement.
- For 12-PT. and 6-PT. application.

APB00033

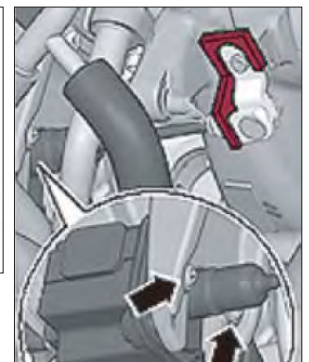
ASSEMBLY TOOL FOR PLASTIC OIL DRAIN PLUG (VAG GROUP)



- Required for proper removing and installing of the special plastic oil drain plug.
- VW: Golf VII(2013~) ,Jetta Hybrid
- Seat: Leon(2013~)
- Skoda: Octavia 3, Superb 3, Yeti, Rapid...
- Audi: A1, A3, A4, A5, Q5...

APB00034
DIESEL FILTER WRENCH - HYUNDAI, KIA


- Designed specifically to service the fuel filter on Hyundai and Kia vehicles with 2.0L or 2.2L CRDi engine.
- Suitable for:
Hyundai [Santa Fe (TM) 2018 up, Palisade 2018 up] Kia: Sorento (UM) 2018 up.

APB00035
WASTEGATE SETTING GAUGE (VAG GROUP)


- Used to locking the wastegate.
- During adjustment work on the charge pressure electric actuator of the exhaust turbocharger on 4-cyl. 1.8L, 2.0L 4V TFSI direct injection engine (generation III).
- Suitable for various VW and Audi models : Audi A3 2013>, Seat Leon 2013>...
- OEM Ref. T40290

APB00036

AIRVAC COOLANT REFILLER



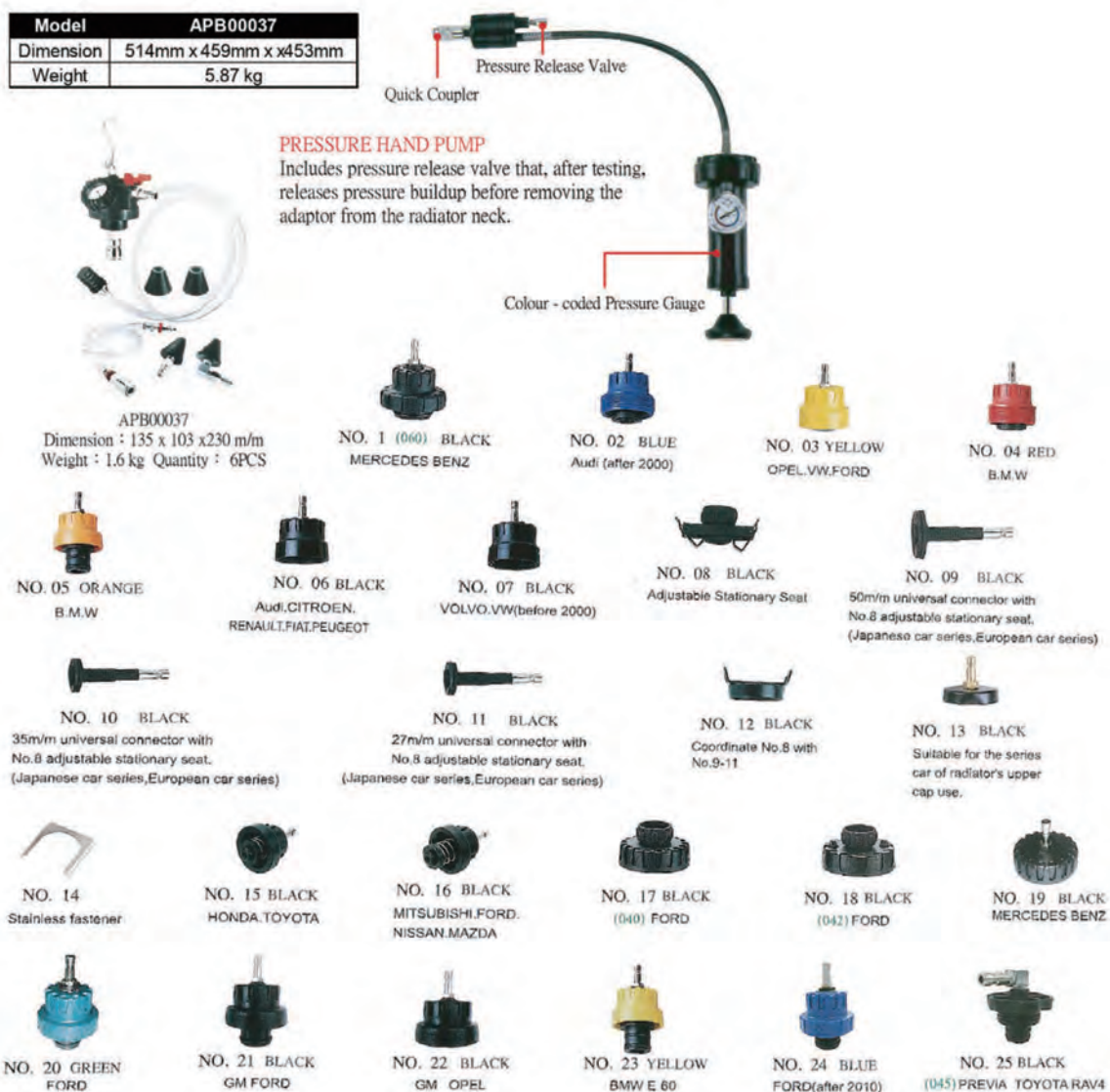
- Purges trapped air from cooling system to eliminate the possibility of engine damage due to overheating.
- Performs vacuum leak test on cooling system.
- Refills cooling system free of trapped air quickly, efficiently and with no mess.
- Universal rubber body plus four additional bushings covers most vehicle radiators.
- Muffler dampens noise output during operation.

Model	RT-919H
Dimension	320 x 180 x 130 m/m
Weight	1.86 kg
Quantity	8 Pcs

APB00037
RADIATOR PRESSURE TESTER KIT WITH COOLANT REFILLER


- Pressure tester to check leakage of radiator.
- Multi adaptors included which apply for most car models in the market.
- 0-35 psi, colour-coded, pressure release valve, plastic carrying case.
- Comprehensive operating instruction enclosed.

Model	APB00037
Dimension	514mm x 459mm x 453mm
Weight	5.87 kg



APB00040

BLOWER MOTOR REMOVAL/INSTALLATION TOOL (VOLVO/LAND ROVER)



- Press the locking tap and install the tool
- Turn the tool anticlockwise and then take out the blower motor from the housing
- Install the tool and Push the blower motor into the housing and then turn the tool clockwise
- Suitable for :
 - Volvo S60(2011~), S60 Cross Country, S60L, S80(2007~), S80L, V60,
 - V60 Cross Country, V70(2008~), XC60, XC70(2008~)

APB00041

VOLVO DIESEL FILTER WRENCH



- Designed special to remove and install fuel filter on Volvo diesel engine
- Suitable for Volvo C30, C70, S40, S60, S80, V50, V60, V70, XC60, XC70, XC90
- OEM Ref. 9997084

APB00042
VOLVO/FORD CRANKSHAFT HOLDING TOOL (PETROL & DIESEL)


- Used to counter-hold the vibration damper while loosening / tightening the crankshaft central screw
- Suitable for Volvo 1.6, 1.8, ,1.9, ,2.0, 2.3, 2.4, 2.5, 2.8, 2.9 and Ford 2.5, 4-and 5-cylinder petrol engines; 2.0 and 2.4, 5-cylinder diesel engines; 2.0 and 2.4, 5-cylinder diesel engines Volvo: C30, C70, S40, S60, S70, S80, V40, V50, V60, V70, XC60, XC70, XC90
Ford : Focus, Galaxy, Kuga, Mondeo, S-MAX
- OEM Ref. 9995433

APB00043
FUEL TANK LOCKING RING TOOL


- Designed to remove and install the fuel tank locking ring of FCA group and Ford.
- Also allows the removal of the locking ring without lateral ribs.
- Suitable for Alfa Romeo, Fiat, Lancia, Ford.

APB00044

ASSEMBLY TOOL FOR PLASTIC PLUG



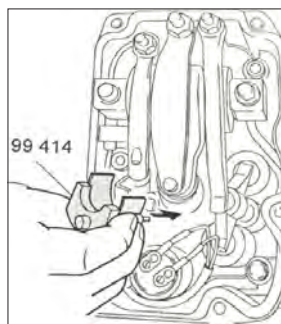
- Used for removing and installing the special plastic oil drain plug
- Recommends: the plastic oil drain plug change with each oil change
- The plastic plug is also used for the cam cover on diesel engine
- Required for proper removing and installing of the special plastic oil drain plug (M14 x 1.5 x 22) at plastic oil pan
- For VW, Audi, Skoda, Seat 1.2, 1.4, 1.8, 2.0 TFSI (oil drain plug) 1.6, 2.0 TDI (cam cover plug)

APB00045**DUAL MASS FLYWHEEL TESTING TOOL KIT**

- Specially designed for the quick and professional wear tests of Dual Mass Flywheels (DMF).
- Checking of the flywheel is recommend because a worn or defective DMF can damage the new clutch.
- Test can be performed directly on the vehicles if the clutch has been removed.
- Contents:
 - 1pc x DTI stand
 - 1pc x Slotted bar
 - 3pc x Ring gear locking dog spacers
 - 2pc x M6 adaptor
 - 2pc x M7 adaptor
 - 2pc x M8 adaptor
 - 1pc x Degree gauge locking bar
 - 1pc x DTI gauge
 - 1pc x Degree gauge
 - 2pc x Ring gear locking dogs

APB00046

INJECTOR ADJUSTER FOR SCANIA TRUCK - 66.9MM



- Allows to install the setting tool around the integral injector with a metal plate.
- Adjustment size: 66.9mm
- OEM No.99414

APB00048

ECU REMOVAL TOOL FOR VOLVO



- Used to remove the ECU from the body mount.
- Application:
Volvo C70, S60, S70, S80, V70, XC70, XC90
Made from spring steel.

APB00049
FRONT COVER CRANKSHAFT SEAL INSTALLER TOOL


- Designed to properly place the crankshaft seal without leaks.
- Applications:
- Paccar PX-6/1989 to 2016 Cummins 4BT 3.9L/ B Series 5.9L/ ISB 5.9L, 6.7L / QSB 5.9L, 6.7L

APB00050
ASSEMBLY TOOL FOR PLASTIC PLUG


- Used for removing and installing the special plastic oil drain plug
- Recommends: the plastic oil drain plug change with each oil change
- The plastic plug is also used for the cam cover on diesel engine
- Required for proper removing and installing of the special plastic oil drain plug (M14 x 1.5 x 22) at plastic oil pan
- For VW, Audi, Skoda, Seat 1.2, 1.4, 1.8, 2.0 TFSI (oil drain plug) 1.6, 2.0 TDI (cam cover plug)

APB00052

CLEANING TOOL FOR INJECTOR NOZZLE SEAT, COMMON RAIL DIESEL ENGINES



- Designed to clean the injector seat.
- In a single operation, the specially shaped cleaning tool produces a clean finish on the injector mounting hole, the nozzle seat, and the small aperture leading to the combustion chamber.
- Applicable to Common Rail Diesel engines Mercedes OM611, OM612, OM613, OM639, OM640, OM642, OM646, OM647, OM648, OM651, OM668, Smart R660 PSA 2.7 HDI / engine: DT17 and 3.0 HDI engine: DT20 Chrysler 2.5 crd / engine: OM664 Toyota 3.0 D-4D / engine: 1 KD-FTV Toyota 2.2 D-4D / engine: 2 AD-FHV, 2 AD-FTV Lexus 2.2 Diesel / engine: 2 AD-FHV
- Technical Data:
Drive: T-Handle
Length: 261mm
Cleaning tool Ø: 7.5/17/19.1mm

APB00053

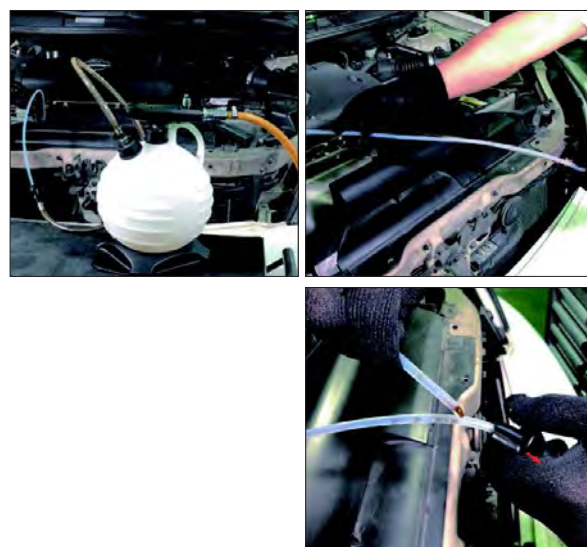
DIESEL EXHAUST FLUID ADBLUE TESTER



- Suitable on most diesel vehicles.
- Testing the Urea concentration in the diesel exhaust fluid tanks.
- Testing at hot or cold temperatures.

APB00054
TRUCK INJECTOR EXTRACTOR


- The injector extractor is easy to operate on trucks!
- Tools can be also installed to extract injection pump system and traditional truck injectors
- Injectors: Bosch, Delphi, Volvo, Scania, Mercedes Benz, Man, Renault, Iveco

APB00055
PNEUMATIC FLUID EXTRACTOR SET


- Designed for extracting engine oil, coolant, ATF and other types of oils and fluids.
- Tank Capacity: 6 liter (1.5 gallon)
- High quality translucent tube for inserting into dipstick tube.
- Special anti-dripping device to prevent unsafe oil dripping on the working floor.

APB00056

MINI COOPER FUEL LINE TOOL



- The low pressure fuel feed line that supplies the high pressure fuel pump requires the special tool for removal.
- Failure to use this tool will result in damage to its quick connect coupler
- Fits the following Mini Cooper S models with the N14 or N18 engine R55(Cooper S / JCW Clubman) with the N14 / 18 engine - 2008 - 03 / 2012 R56(Cooper S / JCW Hatch) with the N14 / 18 engine - 2007 - 03 / 2012
R57(Cooper S / JCW Convertible) with the N14 / 18 engine - 2009 - 03 / 2012
R58(Cooper S / JCW Coupe) with the N14 / 18 engine - 2012 - 03 / 2012
R59(Cooper S / JCW Roadster) with the N14 / 18 engine - 2012 - 03 / 2012
R60(Cooper S / JCW Countryman) with N18 engine - 2011 - 03 / 2012
- OEM Ref. 130250

APB00057
BOSCH DIESEL INJECTION PUMP SOCKET KIT


- The special sockets are required to loosen and remove the triangular headed screws on the injection pump
- For Bosch diesel injection pump VE (Bosch VE)
 - 1.Triangular socket for central closing plug
 - 2.Governing pressure socket
 - 3.Triangular socket for bearing screws governing lever For Bosch diesel injection pump VP EDC TDI (BoschVE)
 - 4.Triangular socket for top cover screw For Bosch diesel injection pump VP37 (Bosch CR)
 - 5.Triangular socket for body

APB00058

3 LEG OIL FILTER WRENCH KIT - 75 TO 140MM



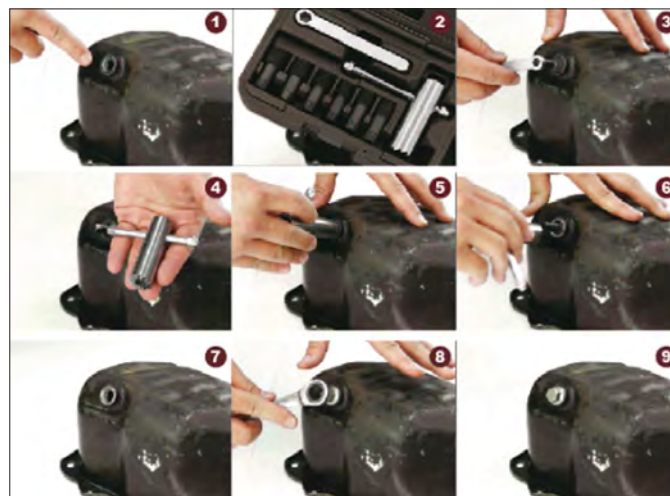
- The strong magnet at the bottom allows the wrench to fix the oil filter, making replacement work easier.
- Short and long triple-clamps can be used in any size and configuration of the filter.
- Quick release design can disassemble steering wheel to save time.
- Suitable for small vehicles.
- Oil filter range: 75 to 140mm

APB00059

3 LEG OIL FILTER WRENCH KIT - 55 TO 100MM



- The strong magnet at the bottom allows the wrench to fix the oil filter, making replacement work easier.
- Short and long triple-clamps can be used in any size and configuration of the filter.
- Quick release design can disassemble steering wheel to save time.
- Includes a wrench to install oil filter with ideal tightness.
- Suitable for large vehicles.
- Oil filter range: 55 to 100mm

APB00060
OIL DRAIN PLUG WASHER SEAT RESURFACING SET


- Kit specially for resurfacing the washer seat of oil drain plug
- Resurfacing of the washer seat ensures reliable sealing in the area of the oil drain plug
- Pilot centering pin allows a correct centred boring on the washer seat

APB00061
OIL FILTER WRENCH(2.5L DIESEL)


- Allows quick and easy removal of the oil filter used on NISSAN 2.5L YD25DDTI diesel engine
- Suitable for : NISSAN / NV350 Caravan (E26) NISSAN / NV350 Urvan ISUZU / Como MITSUBISHI FUSO / Canter Van
- Also for VW, AUDI, SKODA, Seat(2.4 / 2.6 / 2.8 TDI)and Renault Maxity, etc

APB00062

OIL DRAIN PLUG REMOVAL TOOL (MAGNETIC)



- A.Magnetic Drain Plug Adapter
- B.1/4" Dr.Coupler
- C.1/4"Square Driver
- D.Holder for adapter / Coupler
- E.152mm(6") Flex Shaft
- No touching hot plug.
- No dropping of plug.
- No hot oil on hands. (magnet max working temp. 120°C/248°F)
- Intrchangeable design.(A/B/C)
- Just magnetically attach the tool to pre-loosened drain plug and rotate to remove plug.

APB00063

MAGNETIC OIL DRAIN PLIERS (335MM)



- Allows to remove drain plugs on oil pans and transmission
- pans without a direct physical contact.
- Use to pick up screws or nuts in con reas.
- Overall length: 294mm

APB00064**COOLANT FILLING SET**

- Quick and easy way to refill coolant during cooling system bleeding process.
- Quick, efficient, and on mess.

APB00065**OIL FILTER WRENCH(2.5L DIESEL)**

- Quick and easy way to refill coolant during cooling system bleeding process.
- Quick, efficient, and on mess.

APB00066

BMW INJECTOR LINE SOCKETS



- This set of sockets is designed for BMW with N54, N63 and S63 engines
- Socket design easy accurate torquing
- Open side allows over 180 deg rotation
- Thin enough to fit between engine and fender well
- Size : 14mm and 17mm

APB00067

BMW INJECTOR LINE SOCKETS



- The strong magnet at the bottom allows the wrench to fix the oil filter, making replacement work easier.
- Short and long triple-clamps can be used in any size and configuration of the filter.
- Quick release design can disassemble steering wheel to save time.
- Suitable for extra large vehicles.
- Oil filter range: 125 to 180mm

APB00068**RADIATOR CAP WRENCH**

- Used to remove stubborn radiator coolant reservoir cap
- 2006 to present BMW vehicle
- Will not mar the reservoir cap link pliers can

APB00069**VALVE SPRING COMPRESSOR FOR Ford 3V 4.6L & 5.4L**

- Allows to remove drain plugs on oil pans and transmission pans without a direct physical contact.
- Use to pick up screws or nuts in con reas.
- Overall length: 294mm

APB00070

FLYWHEEL BOLT SOCKET - 12MM X 10PT



- Services clutch pressure plate bolts on clutch assemblies.
- Use with a 3/8" square drive.
- Application: Mitsubishi 3000 and Dodge Stratus.
- Material: chromium molybdenum.

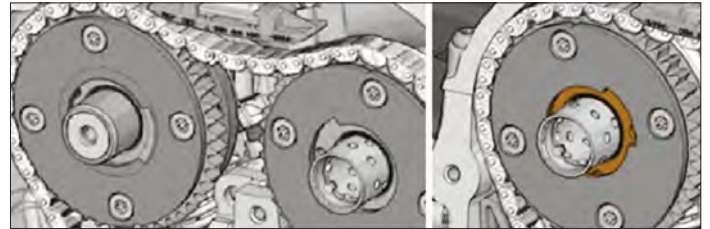
APB00071

FLYWHEEL BOLT SOCKET - 12MM X 10PT



- Services clutch pressure plate bolts on clutch assemblies.
- Use with a 3/8" square drive.
- Application: Mitsubishi 3000 and Dodge Stratus.
- Material: chromium molybdenum.

For VAG group - VW / Audi / Seat / Skoda	
VW	Golf 2004>, Passat 2006>, Passat CC 2009>
	Tiguan 2008>, EOS 2006>...
Audi	A3 2004>, A4 2008>, A5 2005>, TT 2007>..
Seat	Alhamdra 2011>, Exeo 2009>, Leon2006>
	Toledo 2005>, Altea 2005>, Altea 2007>
	Altea Freetrack 2007>...

APB00073
VAG CAMSHAFT ADAPTER SOCKET


- Used to rotate and hold intake camshaft during timing chain service on 4-cylinder 1.8 and 2.0 liter 4V TFSI direct injection engine (generation III)
- OEM Ref. T40266
- Suitable for :
- Audi : A4 2008~, A5 Cabriolet 2009~, A5 Coupe 2008~Q5 2008~, A3 2012~
- Seat : Alhambra 2011~, Exeo 2009~, Altea 2009~Leon 2009~, Altea XL 2009~, Altea Freetrack 2009~

APB00074
ACCELERATOR PEDAL DEPRESSOR


- For one man operation, allows engine speed to be set during automotive repair work
- 1. Fix the tool on the brake pedal
- 2. There are two adjustment holes, use the adjustment screw to fine-tune the RPM level

APB00077

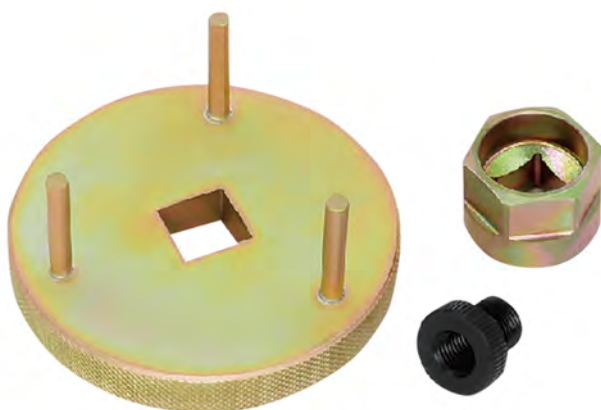
ACCELERATOR PEDAL DEPRESSOR



- Opens the pipe connector clamps on the exhaust system, for example in Citroen, Peugeot, Renault, Nissan and Opel models
- The screw remains in the clamp after loosening, it guarantees the fast application

APB00078

INJECTION PUMP ADJUSTING TOOL (1.9L DIESEL)



Renault		
Clio, Espace, Kangoo, Laguna, Master Megane/Scenic, Symbol, Thalia, Trafic		
Opel/Vauxhall	Volvo	Dacia
Arena, Movano Vivaro	S40/V40	Solenza
Nissan	Mitsubishi	Suzuki
Interstar Primastar	Carisma Space Star	Grand Vitara

- Suitable for Renault, Opel/Vauxhall, Volvo, Dacia, Nissan, Mitsubishi and Suzuki 1.9L direct injection diesel engines (F8Q and F9Q) with adjustable injection pump sprocket
- Engine codes: F8Q, 622, 630, 632, 662, 790 ; F9Q, 650, 660, 664, 670, 674, 680, 690, 731, 732, 733, 736, 740, 744, 748, 750, 751, 752, 754, 755, 758, 759, 760, 762, 770, 772, 774, 780, 782, 790, 800, 803, 804, 808, 812, 814, 818, 820, 826, 870, 872 ; F9Q1, F9Q2, F9Q B2, F9Q W772, D4192T, D4192T2

APB00105
FLYWHEEL BOLT SOCKET - 12MM X 10PT


- Use with an impact wrench to quickly stretch all types of exhaust pipe, including stainless steel, from 1-5/8" to 4-1/4" in size
- The tool can be used on the vehicle

APB00106 、 APB00107
OIL FILTER WRENCH

APB00107
APB00106

- Use with an impact wrench to quickly stretch all types of exhaust pipe, including stainless steel, from 1-5/8" to 4-1/4" in size
- The tool can be used on the vehicle

APB00108

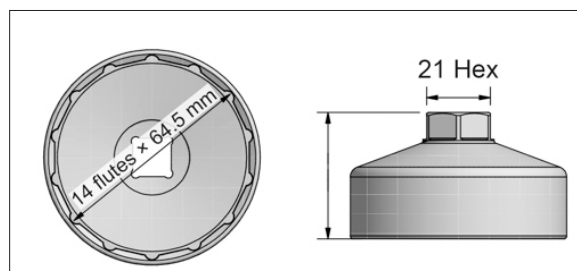
A/C COUPLINGS RELEASE TOOL(VAG GROUP)



- Used to rotate and hold intake camshaft during timing chain service on 4-cylinder 1.8 and 2.0 liter 4V TFSI direct injection engine (generation III)
- OEM Ref. T40266
- Suitable for :
- Audi : A4 2008~, A5 Cabriolet 2009~, A5 Coupe 2008~Q5 2008~, A3 2012~
- Seat : Alhambra 2011~, Exeo 2009~, Altea 2009~Leon 2009~, Altea XL 2009~, Altea Freetrack 2009~

APB00115

OIL FILTER WRENCH FOR TOYOTA - 64.5MM X 14 FLUTES

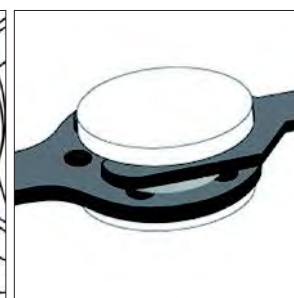
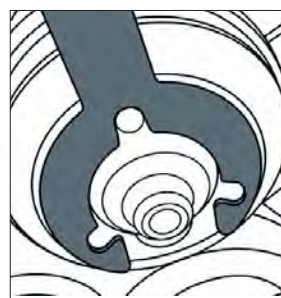


Dimension	64.5 mm × 14 flutes
Height	42 mm
Square Drive	1/2"DR
Material	S45C
Surface Finish	Chrome plating
Max. Torque	580 Nm / 427 lb-ft

- Suitable for most Toyota and Lexus vehicles.
- Fits both cartridge type and canister type oil filter housings.
- Made of steel with a 1/2" square drive provides high torque for removing stubborn oil filters.

APB00116
FLYWHEEL TURNER


- Spring tension steadies tool onto flywheel or flexplate when torquing the flywheel or harmonic balancer bolts.
- Folds for effortless storage.

APB00117
2PC VISCOUS FAN CLUTCH REMOVAL SET


- Suitable for TD5 and V8 Land Rover Discovery II, Range Rover Defender 1990 to 2006.
- Equivalent to OEM 303-904.
- Contents:
 - 1pc of 36mm open end
 - 1pc of 5 holed horse shoe design

APB00118

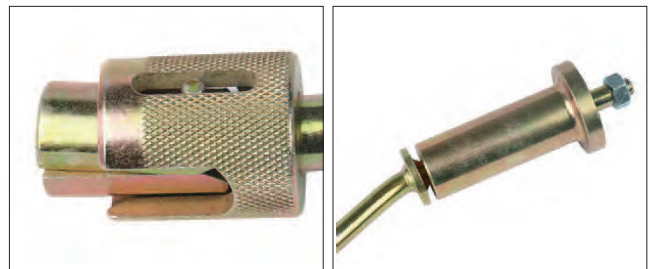
DIESEL INJECTOR REMOVAL TOOL



- For diesel injectors on the 2.5 TD5 Land Rover diesel engines.
- This tool clamps on the injector body avoids any damage to the cylinder head or injector.
- Supplied with a slide hammer.
- Applications: Land Rover Defender (1999 to 2007) and Discovery II (1998 to 2005).
- Engine codes: 10P, 15P and 16P.
- Equivalent to OEM 303-955, LRT 12-154/1.

APB00119

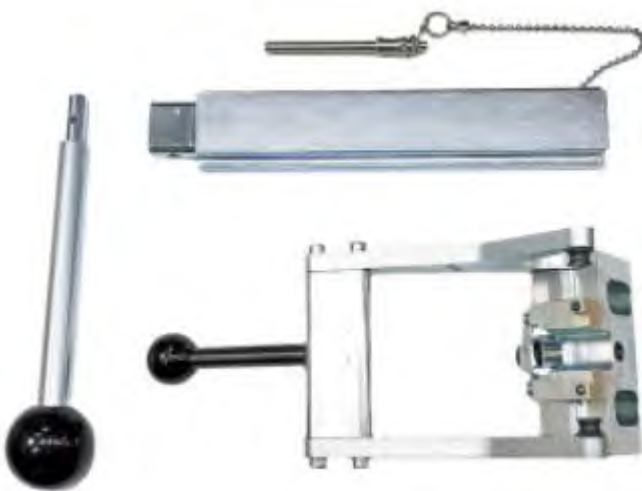
FUEL INJECTOR REMOVAL/INSTALLER PULLER TOOL FOR JAGUAR 3.0L V8 AND LAND ROVER 5.0L



- Specially designed for removal and installation the fuel injector.
Applications:
Land Rover : Discovery 4, New Range Rover, Range Rover Sport.
Jaguar: X150-XK SERIES, X250-XF, X351-XJ.
- Equivalent to OEM 310-197, 310-198, 310-199.

APB00120
DIESEL PUMP SPROCKET PULLER SET FOR VAG


- Used to remove the high pressure fuel pump on 1.4, 1.6 and 2.0L TDi engines.
- Applications: Volkswagen Golf (from 2013), Audi A3 (from 2013), Skoda Rapid (from 2012), Octavia (from 2013), Fabia 2014, Superb (from 2015), Kodiaq 2016, and Seat Alhambra (from 2011), Ibiza (2008), Leon (2013) and Ateca.
- Equivalent to OEM T10489.
- Used with hand tools only.

APB00121
VVT SPRING COMPRESSOR TOOL FOR BMW


- Designed to remove and assemble the torsion spring of the intermediate lever.
- Not easy to dismantle the tensioned preload springs without tools.
- Suitable for S63B44B, S63TU engines.
- Equivalent to OEM 2249160
- Applicable for:
 - 5 series F10 from 2009, G30 / F90 from 2019
 - 6 series F06 / F12 / F13 from 2011
 - X5 E70 from 2009, F18/ F85 from 2013
 - X6 E71 / E72 from 2007, F16 / F86 from 2014

APB00122

DIRECT INJECTION SEAL INSTALLATION TOOL KIT FOR BMW



- Used for removing and installing the injectors seal.
- Application: BMW N13, N14, N18, N20, N26, N43, N53, N54, N55, N63, N73, S55, S63, B38, B48
- OEM NO.: 130 280, 130 281, 130 282, 130 283, 130 195, 130 192, 130 193, 130 194

APB00123

DIESEL FUEL LOW-PRESSURE TESTER



- Designed to allow the measurement of the diesel fuel pressure on the low-pressure fuel feed side of common rail diesel engines.
- Low pressure and vacuum diesel fuel test kit.
- Equipped clear acrylic block for easy identification of air ingress.
- Provided 9.89mm quick connectors for easy connection to Jaguar, Land Rover, Ford, Citroen and Peugeot applications.
- Quickly and easily measure and test fuel vacuum and pressure.
- Can be used with engine running to observe post filter feed pressure variation

APB00124
DIGITAL DIESEL FUEL LOW-PRESSURE TESTER


- Designed to allow the measurement of the diesel fuel pressure on the low-pressure fuel feed side of common rail diesel engines.
- Low pressure and vacuum diesel fuel test kit.
- Equipped clear acrylic block for easy identification of air ingress.
- Provided 9.89mm quick connectors for easy connection to Jaguar, Land Rover, Ford, Citroen and Peugeot applications.
- Quickly and easily measure and test fuel vacuum and pressure.
- Can be used with engine running to observe post filter feed pressure variation.

APB00125
EXTREME LUXURY PRESSURE TESTER


- This deluxe kit offers a complete package for compression testing on gasoline engines.
- Complete with standard and specialty adaptors.
- 2-1/2" dual scale gauge reads 0-300psi and 0.20kg/cm².

APB00126

DIGITAL EXTREME LUXURY PRESSURE TESTER



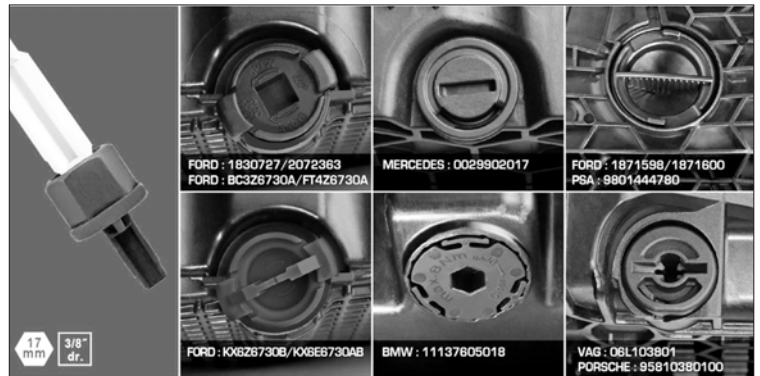
- This deluxe kit offers a complete package for compression testing on gasoline engines.
- Complete with standard and specialty adaptors.
- 2-1/2" dual scale gauge reads 0-300psi and 0.20kg/cm².

APB00127

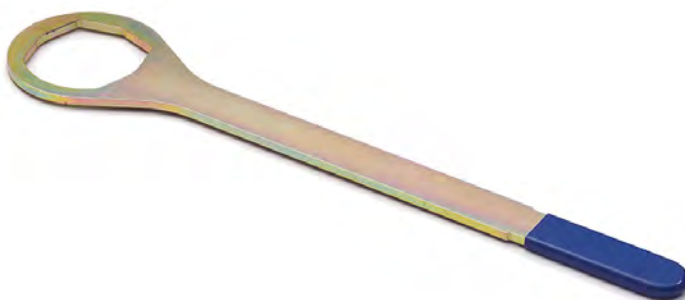
DIESEL FUEL FILTER SOCKET



- Specialist socket designed to remove and install the diesel fuel filter on Ford Transit Custom Mk8 2.0 TDCi 2016 onwards.
- Use with 1/2" square drive.
- Specification: 32 mm 6pt socket.

APB00128
PLASTIC OIL DRAIN PLUG TOOL SET


- For removing and installing the plastic oil drain plug at the plastic oil pan.
- Suit on many late model Ford, BMW, Mercedes-Benz, VAG, Porsche.
- Contents: 1pc of T-handle and 4pc of plastic oil drain plugs.

APB00129
DUAL AVCS EXHAUST CAM SPROCKET TOOL


- Allow for removal of the Dual AVCS exhaust cam sprockets without damaging the cam or sprocket
- The specific interface of sprocket will not round out internal pulley splines like other designs
- Perfect tool for cam seal renewal, cylinder head removal, or motor tear downs
- Material: Carbon Steel
- Suitable for: Subaru Impreza, WRX STI

APB00130

HGV PLASTIC DRAIN PLUG TOOL SET



- Required for properly removing and installing the special plastic drain plug on HGV.

APB00131

FORD ENGINE BRACKET SCREW SOCKET



- Specially to remove and install the front engine mount in a 2.0L EcoBlue diesel.

APB00132
SOHC CAMSHAFT SPROCKET WORKSHOP TOOL


- Allow for removal of the SOHC cam sprockets without damaging the cam or the sprocket
- Perfect tool for cam seal renewal, cylinder head removal, or motor tear downs
- Bridged tool head handles the torque
- High tolerance laser cutting and precision forming structure perfect
- Long integrated handle makes it easy for one person
- Material: Carbon Steel
- Suitable for:
 - 93-12 Subaru Impreza SOHC engines,
 - 99-12 Subaru Forester SOHC engines,
 - 89-12 Subaru Legacy SOHC engines,
 - 05-06 Saab 9-2X Linear engine,
 - 04-06 Subaru Baja with SOHC engine,
 - 92-97 Subaru SVX

APB00133
MAZDA DIESEL FILTER SENSOR WRENCH SET


- The wrench set is designed to service the diesel filter and sensor on Mazda SKYACTIV-D2.2 (SH-VPTS and SH-VPTR) engine.
- Suitable for 2.2L diesel:
 - CX-5
 - CX-8
 - Mazda 6 (Atenza)
 - Mazda 3 (Axela)

APB00134

FRONT COVER CRANKSHAFT SEAL & WEAR SLEEVE INSTALLER TOOL



- Designed to install the front crankshaft wear sleeve.
- Fits for 1989-2016 Cummins 4BT 3.9L, B Series 5.9L, ISB 5.9L 6.7L and QSB 5.9L 6.7L.

APB00135

UNIVERSAL CAMSHAFT SEAL REMOVER AND INSTALLER



- The interchangeable seal assemble adaptors are designed for use with the cam or crank bolt.
- Without disassembling the crankcase, time and cost can be saved without replacing the crankcase.
- Don't worry about scratching the surface of the crank.
- Includes a puller coupled with specialized puller legs that hook the seal for fast and easy removal.
- The blue seal adaptors are made of aluminum to prohibit the harm of crank.
- Kit services seal sizes of 21.6mm to 58mm.

APB00136**A/C CLAMP REMOVER**

- Can install high and low edge clamps.
- Suitable chamfer opens clamps.
- Used for dismantling line clamps found on Toyota Tacoma (2015-2018).

APB00147**INJECTOR PULLER SET FOR CUMMINS**

- Suitable to use on a variety of injectors in Cummins engines: mechanical L-10, PDT, and PTD top-stop 855NH.
- Two-jaw design firmly grips the injector while it is being removed by the slide hammer.
- Special adaptor for pulling STC injectors is included.
- OEM No.: OTC-5042

APB00148

OIL FILTER WRENCH FOR TOYOTA/LEXUS



- Funnel can be directly connected to oil filler necks, making this as easy as possible to operate.
- Hands free operation with no mess or spills.
- Lower transparent chamber displays oil flow.
- Set with two adaptors. The black adaptor with two tabs is to fit most models of BMW and Mercedes-Benz, and the blue adaptor with 1/4 turn is to fit BMW B37, B47, and B58 engines from 2017 with cap OEM # 11 12 8 654 637; Mercedes-Benz M256 Hybrid, OM654 and OM656 engines from 2017 with cap OEM # A0000180200.
- Contents:
 - 1PC x funnel
 - 1PC x transparent funnel tube
 - 2PC x adaptor(M37 female threads)
 - 1PC x super glue gel

APB00149
OIL FUNNEL SET FOR RENAULT/NISSAN


- Funnel can be directly connected to oil filler necks, making this as easy as possible to operate.
- Hands free operation with no mess or spills.
- Lower transparent chamber displays oil flow.
- Suitable for Renault and Nissan, with adaptors for the most recent models.
- Contents:
 - 1PC x funnel
 - 1PC x transparent funnel tube
 - 2PC x adaptor(M32 female threads)
 - 1PC x super glue gel

APB00150
OIL FUNNEL SET FOR AUDI/SEAT/SKODA/VOLKSWAGEN


- Funnel can be directly connected to oil filler necks, making this as easy as possible to operate.
- Hands free operation with no mess or spills.
- Lower transparent chamber displays oil flow.
- Suitable for Audi, Seat, Skoda, and Volkswagen, with adaptors for the most recent models (2020 onwards).
- Contents:
 - 1PC x funnel
 - 1PC x transparent funnel tube
 - 3PC x adaptors(M37 female threads)
 - 1PC x super glue gel

APB00151

GERRIDAE QUICK CONNECTOR DISCONNECT TOOL



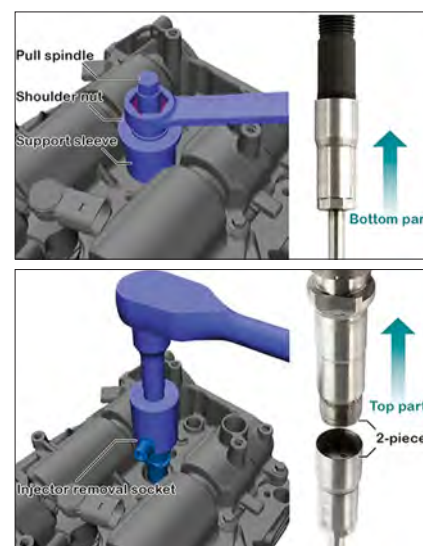
- One-hand operation design.
- Specially designed rotating jaws and super-long jaw structure can be used in narrow and long spaces when your fingers cannot touch the connector.
- Use to disconnect fuel lines, EVAP lines, and DEF fittings with connectors that must be depressed to disengage.

APB00152

DPF FUEL VAPORISER WRENCH FOR FORD



- Slim fit design for the removal of the DPF fuel vaporiser
- injector retaining nut on Ford Transit Custom.
- The 22mm DPF fuel vaporiser is used across the Ford diesel range.
- Can be used with 1/2" drive ratchet.
- Applications: Ford 1.6, 2.0 and 2.2L Duratorq TDCi
- Engines from 2012 (EURO 6 engines).

APB00153
DIESEL INJECTOR PULLER FOR FORD ECOBLUE 2.0L


- Designed for two pieces injector removal without having to de-install the cylinder head.
- Set includes support sleeve, shoulder nut with bearing, injector removal socket and pull spindle.
- Application: Ford Edge, Focus, Galaxy, Ranger, S-Max, Mondeo, Kuga, Transit, Transit Custom fitted with the Ecoblue 2.0L diesel engines from approx 2014.
- OEM Ref. 303-1690,303-1690-01

APB00154
DPF FUEL VAPORISER WRENCH FOR FORD


- The strong magnetic wrench offers an easy way to attachment
- This wrench features a captured spring for quick retracting its claws
- The oil filter wrench removes 60-93mm diameter traditional spin-off canister style oil filters
- Works with 3/8inch square driver ratchet

APB00155

DIESEL INJECTOR PULLER FOR M9R 2.0 DCI



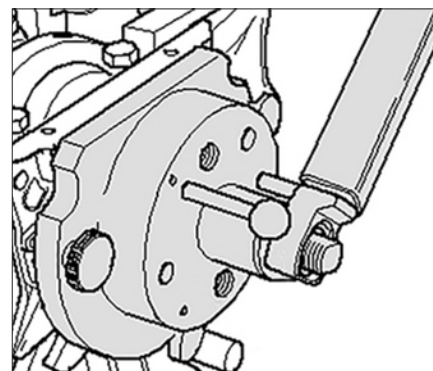
- Designed to be used on the 2.0 DCI M9R engine for the removal of seized or corroded injectors.
- Applications: Renault Trafic, Vauxhall Vivaro, Nissan Primaster with the 2.0 DCI M9R engine.
- Set includes adaptor, support rod, support plate, nut, hex bit and anti-rotation pin.
- OEM Ref. Mot. 1966,7711381966, EN-5014

APB00156

SPECIAL SOCKET FOR AIR INTAKE HOSE CLAMP



- For removal, replacement or tightening the safety clamp in the intake area, near the throttle flap.
- For clamp sizes: 30-45mm and 60-80mm
- Double-ended 3-sided socket for a wide range of clamps.
- Suitable for H4Bt 0.9 L petrol turbo engine from 2012.
- Applications: Smart: Fortwo, Forfour; Renault: Twingo, Clio, Captur; Dacia: Sandero, Logan; Nissan: Micra

APB00157
SPECIAL SOCKET FOR AIR INTAKE HOSE CLAMP


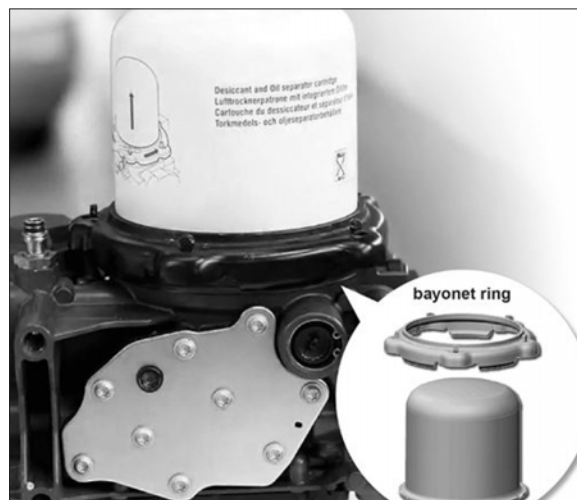
- Suitable for VW Crafter 2006>5-cyl
- Diesel engine assembly of sealing flange with integrated sender wheel
- OEM NO. T50010

APB00158
ADBLUE TANK CAP REMOVER


- Used to quick and easy open and close the AdBlue tank cap when blocked by urea crystallization.
- Use with 3/8" square drive or 17mm spanner.
- Applications: Peugeot: 208, 301, 308, 308SW, 508, 508SW, 2008, Expert, Partner, Rifter, Traveller ; Citroën : Berlingo, C3, C3 Picasso, C4 Cactus, C4 Picasso, C4 Grand Picasso, C5, DS3, DS3 Cabriolet, Jumpy

APB00159

BAYONET RING TOOL FOR AIR DRYER CARTRIDGE FOR KNORR-BREMSE



- For removal, replacement or tightening the safety clamp in the intake area, near the throttle flap.
- For clamp sizes: 30-45mm and 60-80mm
- Double-ended 3-sided socket for a wide range of clamps.
- Suitable for H4Bt 0.9 L petrol turbo engine from 2012.
- Applications: Smart: Fortwo, Forfour; Renault: Twingo, Clio, Captur; Dacia: Sandero, Logan; Nissan: Micra

APB00160

OIL FILTER WRENCH FOR FORD 75MM X 30 FLUTES



Dimension	30 flutes x 75mm
Height	41.5 mm
Square Drive	1/2" DR
Material	Steel
Torque	25 ± 5 Nm

- Use with 1/2" drive.
- Specification: 75mm x 30 flutes x 41.5mm (Height)
- Made from forged steel to stand up to long term and repeated use.
- Fits on Motorcraft FL-500S for Ford Edge, Escort, Escape, F-150, Mustang, Ranger, Taurus, Transit-150.

APB00161
OIL FILTER WRENCH FOR FORD 75MM X 30 FLUTES


Dimension	36 flutes x 93mm
Height	46 mm
Square Drive	1/2" DR
Material	Steel
Torque	25 ± 5 Nm

- Use with 1/2" drive.
- Specification: 93mm x 36 flutes x 46mm (Height)
- Made from forged steel to stand up to long term and repeated use.
- Fits on Motorcraft FL-820S for Ford Crown Victoria, Excursion, Expedition, Explorer, F-150, Freestyle, Fusion, Thunderbird.

APB00164
3/8" DRIVE HEX OIL FILTER WRENCH 24/36MM


- One side with 24mm hex oil filter wrench, and the other side with 36mm hex oil filter wrench.
- Socket made of strong forging process.
- Suitable for Audi, BMW, Chevrolet, Chrysler, Ford, Opel, Volvo, VW.

APB00165

3/8" DRIVE HEX OIL FILTER WRENCH 24/36MM



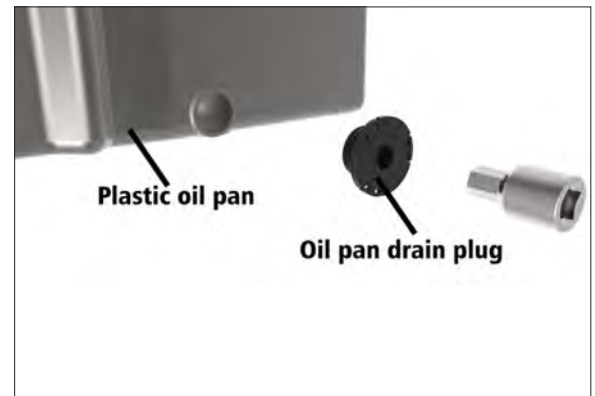
- Made of sturdy forged steel.
- Hex shape with 3/8" square drive.
- Applications:
 - 24mm BMW / Mini, Chevrolet, Chrysler, Opel.
 - 27mm BMW / Mini, Citroen / Peugeot, Fiat, Ford, Mercedes-Benz, Renault.
 - 29mm Dodge Cummins Fuel Filter Housing.
 - 30mm VW Polo, Golf, SEAT Ibiza, Skoda Fabia 1.4 16V petrol engines.
 - 32mm BMW 3 Series E90, 5 Series E60, VAG.
 - 36mm BMW, Ford F Series, VAG, Volvo.
 - 38mm Opel / Vauxhall Vectra 2.0 CDTI.

APB00166

3/8" DRIVE HEX OIL FILTER WRENCH SET



- Deep counter-weighted sockets to add more torque to break loose stubborn crank bolts specifically for Honda and Toyota.
- The set includes 17mm, 19mm, and 21mm, these can cover a wide variety of crankshaft pulley bolt sizes.
- Applications:
 - 17mm: Honda engines
 - 19mm: Honda engines
 - 21mm: Chevy, Chrysler, Dodge, Ford, GM, Jeep, and Mazda engines

APB00167
OIL PAN PLASTICS DRAIN PLUG REMOVAL SET


- Revised to include Ford/ Lincoln plastic oil pan drain plugs of engines: 2.7L / 2.7L (2018) / 3.0L / 3.3L / 3.5L Turbo from 9-12-2018 / 5.0L (2018).
- The adaptors will not harm drain plugs and are designed to slot in and easily discharge these plugs.
- Include tools and adaptors to dismantle plastic oil pan drain plugs establish on many late models of Ford, Volkswagen, Audi, and BMW vehicles.

APB00168
PETROL INJECTOR PULLER - OPEL / VAUXHALL / MG


- One side with 24mm hex oil filter wrench, and the other side with 36mm hex oil filter wrench.
- Socket made of strong forging process.
- Suitable for Audi, BMW, Chevrolet, Chrysler, Ford, Opel, Volvo, VW.

APB00169

RADIATOR / COOLANT CAP WRENCH



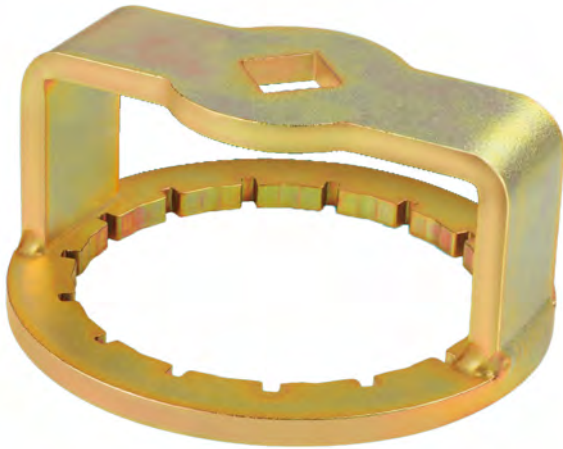
- Can be used to loosen caps on radiators and reservoirs
- Especially suitable for use in tight space

APB00170

OIL FILTER WRENCH FOR HYUNDAI/KIA



- Designed to fit the plastic oil filter housing found on the 1.6 Hyundai and Kia U3 diesel engines.
- Hyundai applications include: Kona (from 2018), Tucson (from 2018), i30 (from 2019), i40 (from 2018).
- Kia applications include: Ceed (from 2018), Optima (from 2018), Sportage (from 2018), ProCeed (from 2019), Stonic (from 2018).
- Used for the oil filter housing cap with 80mm/14 flats.

APB00171
OIL FILTER WRENCH FOR OPEL/VAUXHALL


- Size: 74.7mm x 15PT
- Suitable for Opel/Vauxhall 1.5L diesel engine from 2019.
- Engine:
Vauxhall Astra K
Insignia B (F15DVC / F15DVH / D15DVC / D15DVH)

APB00172
DIESEL INJECTOR PULLER FOR PIEZO INJECTORS


- Used to disassemble piezo injectors for sealing or engine repairing.
- Suitable for 1.2, 1.4, 1.6 and 2.0L TDI Common-Rail engines, also for the new engines built in 2013 in VW Amarok, Arteon, Beetle II, Caddy III/IV, Eos, Golf VI/VII, Jetta III/IV, Passat (3C/36/3G/CC), Polo (6R/AW), Scirocco III, Sharan (7N), Tiguan (5N/AD/BW), Touran (1T/5T), T-Roc, T5/T6 and Crafter.
- Applications in Skoda series: Fabia-II, Karoq, Octavia-II/III, Rapid, Roomster, Scala, Superb-II/III and Yeti.
- Applications in Audi series:
A1 (8X), A3 (8P/8V), A4 (B8/B9), A5 (8T/F), A6 (C7), Q2, Q3 (8P/8V), Q5 (8R/FY) and TT (8J).
- Applications in Seat Alhambra series: Altea (5P), Arona, Ateca, Exeo, Ibiza IV/V, Leon (1P/5F), Tarraco and Toledo IV.

APB00173

THREAD CHASER FOR FUEL VAPORISER DPF M20XP1.5



- Designed to reform and clean M20 X 1.5 threads found on exhaust system fuel vaporiser ports.
- The short lead-in on the thread chaser ensures the thread is cut as close as possible to the internal seat of the exhaust.
- Use with axle grease for cleaning threads and catching any removed metal in the flutes.
- Use with 13/16" (21mm) sockets or spanners.
- Total length: 45mm
- Size: M20 X P1.5

APB00174

THREAD CHASER FOR NOX SENSOR PORTS M22XP1.5



- For cleaning and repairing sensor port thread to install a new sensor.
- Design of rubber O-ring assist chaser use with suitable spanner or socket.
- Use with axle grease for repairing threads and removing any metal in the flutes.
- Use with 7/8" (22mm) sockets or spanners.
- Applications: Mercedes-Benz, Vauxhall, Opel.
- Size: M22 X P1.5
- Total length: 50mm
- Material: Chrome vanadium

APB00177

COOLING SYSTEM PRESSURE TEST AND VACUUM-TYPE COOLANT REFILL SET



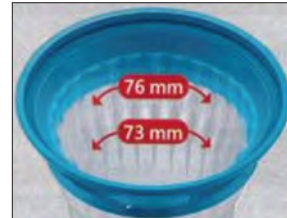
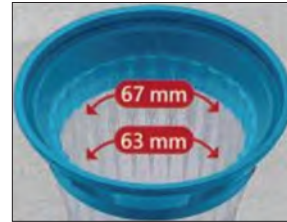
- Set included pressure pump to test leaks in cooling system.
- Provided with 3 twist-on type and 16 threaded type adaptors, covering almost all types of car makes and models on the market.
- Vacuum-type coolant refill tool has large internal passages to allow coolant to be refilled fast.
- Radiator cap test tubes (black and blue) to test if the radiator cap from the car has leaks.
- Coolant hose and drain hose are made of cold-resistant material.
- Contents:
 - 1PC Pressure pump: 0 to 2.5kg/cm² (0 to 35 psi)
 - 2PC Radiator cap test tubes:
 - Black: For R123 and R124
 - Blue: For R123 and R125
 - 3PC Twist-on type adaptors
 - 16PC Threaded type adaptors
 - 1PC Thermometer (-50°C to 150°C)
 - 1SET Vacuum-type coolant refill tool
 - 1PC Conical adaptor: 16 to 43mm (0.63" to 1.69")
 - 1PC Wrench for threaded type adaptors

APB00178

VACUUM TYPE COOLANT REFILL KIT FOR TESLA MODELS



- Vacuum-type coolant refill tool has large internal passages to allow coolant to be refilled fast.
- Provided with adaptors for all Tesla models.
- Designed with only two valves, it's easy to use.
- Tool with a hook, ideal for hanging under the hood.
- Recommend to work with an air compressor to create a vacuum in the cooling system.
- Contents:
 - Coolant suction hose 1500mm (4.9 ft)
 - Drain hose 600mm (2 ft)
 - Coolant valve
 - Hook
 - Gauge -1 to 0 bar (-76 to 0 cmHg)
 - Air valve
 - Air compressor connector
 - Coolant refill hose 700mm (2.3 ft)
 - Hose connector to adaptors

APB00179 、 APB00180
OIL FILTER REMOVAL CUP


- Remove oil filter without spillage of messy oil.
- Made of industrial plastic with excellent oil resistance.
- Special flute design provides good gripping force.
- Large capacity to catch dripping oil during operation.
- Dimension: 73-76 x 138mm (H)
- APB00179 Capacity: 180ml
- APB00180 Capacity: 240ml

APB00181
RADIATOR / COOLANT CAP WRENCH (BMW)

**3/8"
dr.**


- Can be used to loosen caps on radiators and reservoirs.
- Especially suitable for use in tight spaces.
- Works on BMW vehicles:
 E60, E61, E63, E64, E70, E71, E72, E81, E82, E84, E87, E88, E89, E90, E91, E92, E93.
 F01, F02, F03, F04, F06, F07, F10, F11, F12, F13, F15, F16, F18, F20, F21, F25, F26, F30, F31,
 F32, F33, F34, F35, F36, F80, F82, F83, F85, F86

APB00182

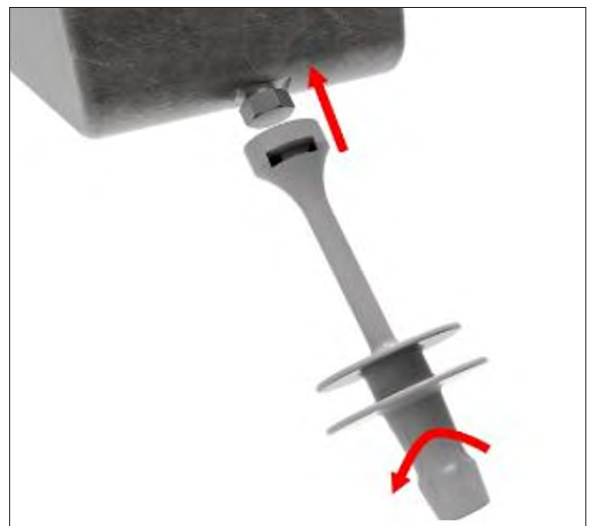
12PC DIESEL FUEL LINE PLUGS



- Contains six pairs of male and female connectors.
- Designed to stop the flow of fuel from disconnected fuel pipes.
- Applications: Ford, PSA, and Renault
- Connector Size: 7.9mm, 9.5mm, 9.9mm, 5/16", 3/8", 10mm

APB00183

DRAIN PLUG CATCHER



- Prevents hand stains and burns from exhausting oil for safe and comfortable work.
- Magnet and special corner shape inside for various drain plugs.
- Can be cleaned and installed with the drain plug attached to the tip.
- Made of elastomer with excellent oil and heat resistance.

APB00184
DRAIN PLUG CATCHER


- Contents:
 - 1PC Crankshaft Sprocket Tool
 - 1PC Crankshaft Seal Installer
 - 1PC Flywheel Locking Tool
- Use crankshaft sprocket tool to remove or install the timing sprocket.
- Pressing the seal into the timing cover by using crankshaft seal installer.
- Flywheel locking tool can be used to hold the crankshaft in position.
- Suitable for VAG 1.2 TSI/TFSI petrol engine. (CBZA/ CBZB/ CBZ)

APB00185
RADIATOR / COOLANT CAP WRENCH (BMW)


- Used to loosen and tighten fuel lines at the fuel injector nozzle or fuel injection pump.
- Fits 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm, 25mm, 26mm, and 27mm fuel line nuts.

APB00186

AC DISCONNECT TOOL FOR TOYOTA



- Double ended design can be used to release the connector from either edge.
- Works on the high and low-pressure air conditioning lines on Toyota Corolla, Land Cruiser, Avalon, Camry, Solara, Sequoia and Sienna.
- Fittings on the high and low-pressure air conditioning lines on most 1998 and newer Toyota vehicles.

APB00187

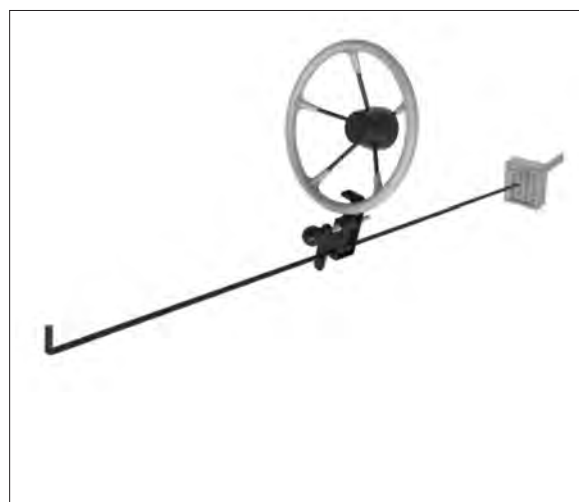
7PC 3/8" DRIVE OIL FILTER SOCKET SET



- Low profile design for removing paper cartridge style oil filters on BMW, Mercedes A Class, GM/ Opel, Astra G, Corsa B, Zafira, Ford, Mondeo 2.0D Duratorq, Transit 2.0, Omega, Vectra B, Vauxhall Vectra 2.0D.
- Made of chrome vanadium steel.
- Socket sizes: 24mm, 27mm, 29mm, 30mm, 32mm, 36mm, 38mm

APB00188
7PC OIL FILTER OFFSET WRENCH SET


- Special design for removing oil filters in confined areas.
- Low profile design with offset drive.
- Sizes: 24mm, 27mm, 29mm, 30mm, 32mm, 36mm, 38mm

APB00189
THROTTLE PEDAL DEPRESSOR


- Use the adjustment screw to quickly adjust RPM to the desired setting.
- Hold the nylon clasp under the steering wheel and spread the depressor stick to the accelerator pedal.
- Overall length: 690mm

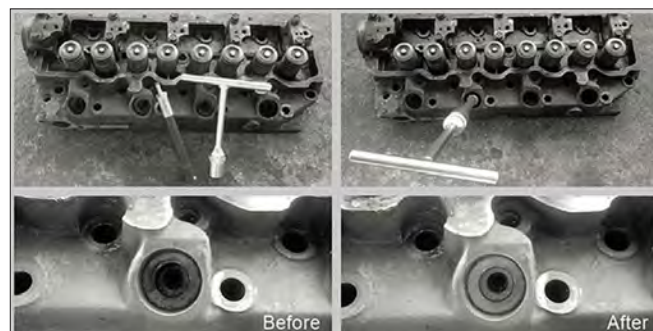
APB00191

RADIATOR / COOLANT CAP WRENCH (BMW)



- For counter holding the camshafts during engine timing, setting and adjustment procedures.
- OEM Ref. Fiat 1.871.008.600, Ford 303-1475, Suzuki 09917-68221, Peugeot / Citroen 0104-B.

Manufacturer	Model	Year	Engine
Fiat (JTD)	500 / 500C	07-15	169A1.000 (FD4), 169B1.000, 169A5.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 223A9.000, 263A2.000, 263A2.000, 843A2.000
	Panda / Panda Classic	03-11	
	Punto / Punto Classic	03-11	
	Punto Evo	09-12	
	Grande Punto	05-11	
	Qubo	08-13	
	Doblo / Doblo Cargo	04-10	
	Idea	04-11	
	Linea	07-11	
	Fiorino	08-11	
	Strada Pickup	06-13	
Lancia (JTD)	Ypsilon	03-13	(LDV) A13DTC,(LSF) A13DTE, A13DTR, D13A, Y13DT, Y13DTH, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR
	Musa	04-11	
Alfa Romeo (JTD)	MiTo	08-13	
Ford (TDCI)	Ka	09-14	
Opel Vauxhall Holden (CDTi)	Agila / Agila-B	03-10	
	Combo-C / Combo-D	03-13	
	Corsa-C / Corsa-D	03-13	
	Meriva-A / Meriva-B	04-13	
	Astra-H / Astra-J	04-13	
	Tigra-B	04-10	
Suzuki (DDiS)	Swift	04-13	
	Ignis	03-09	
	Wagon R+	03-08	
	Splash	08-11	
Peugot (HDi)	Bipper	10-15	FHZ (F13DTE5)
Citroen (HDi)	Nemo	10-15	

APB00192
DIESEL INJECTOR SEAT CLEANER SET


- Used to clean and decarbonise injector seats when changing injectors.
- Helps to avoid blow-back due to poorly seated injectors.
- Suitable for a wide range of vehicles.

CONTENT

Reamer (angled)	17 mm	Reamer (flat)	14 x 14 mm
Reamer (flat)	17 x 17 mm	Reamer (angled)	15.5 x 15.5 mm
Reamer (flat)	15 x 19 mm	Reamer (flat)	15.5 x 15.5 mm
Reamer (flat)	17 x 19 mm	Reamer (flat)	17 x 17.5 mm
Reamer (angled)	17 x 21 mm	Reamer (flat)	17 x 19.5 mm
Reamer	18 x 21 mm	Reamer (flat)	17 x 20 mm
Reamer	20 x 21 mm	Reamer (angled)	17.5 x 20.5 mm
Reamer (long)	15.5 mm	Cleaner (injector)	19 mm
Pilot post	T - handle	Hex key	

APB00193

MANN/MAHLE/KNECHT FUEL FILTER REMOVAL TOOL



- For Volkswagen, Audi, Seat, Volvo and other models of oil filters where space is restricted
- Sturdy welded T-shaped head that engages the filter removal slot found in Mann/Mahle/Knecht: Mann - W920, W920/7, W930, W930/9, W940, W940/15, W940/20, W940/25, W950, W950/1, W950/5, W962/2, W962/7, W962/14, W1130/1, W940/4, W950/4, W962/5, W931, W962/, Mahle / Knecht - OC51, OC83, OC214...

APB00400

FORD TRANSIT - DIESEL FILTER WRENCH



- Specially designed for removal and installation of the fuel filter on Ford Transit 2.2L TDCi engine.
- OEM ref.: Ford 1781617

Ford			
Transit 2014~	Transit 2006~2014	Transit Custom 2012~	Tourneo Custom 2012~

APB00402
EGR VALVE REMOVAL TOOL


- Used to remove the exhaust gas recirculation(EGR) valve without damaging the parts.
- Over time carbon accumulation will occur and may interfere with the operation of the EGR valve flap.
- Suitable for: Hyundai and Kia 2.0L or 2.2L.

APB00404
47PC PROFESSIONAL OIL SERVICE KIT

THREAD REPAIR TOOL

MAGNETIC DRAIN PLUG TOOL

PITCH GAUGE


- Drain plug repair tool sizes:
 - M11 x 1.5, 13 x 1.5, M15 x 1.5, M17 x 1.5, M20 x 1.5
- Magnetic drain plug tool:
 - Help the mechanic to drain hot and dirty engine oil without having a direct physical contact with the oil.
- Pitch gauge:
 - Help the mechanic to determine a fastener's diameter, pitch and length with most common sizes without needing several tools at hand.

APB00405

8PC COOLANT REFILLING FUNNEL SET



- For anti-spill coolant refilling and air bleeding.
- Transparent lower chamber displays the amount of air bubbles remaining in the radiator.
- Includes 3 steel connector caps and one universal adapter with 3 rubber rings.
- Special design of connector to adapters provides anti-spill feature.
- Large capacity suitable for works on trucks and heavy duty vehicles.
- Funnel capacity: 1,600 ml.

APB00410

24&30MM NOX & SOOT SENSOR SOCKET WRENCH SET



- Kit fits 24 & 30mm NOX & SOOT Sensors.
- Crow Foot design provided access to sensor W/O cutting wires and limited access applications.
- 1/2" Hex allows 1/2" breaker bars to be used for high break away torques required to remove sensors.
- 6 and 12 Pt SP Grip Drive contacts the sensor hex body.
- For Chrysler, Dodge, Jeep Diesels and other manufactures using NOX and SOOT sensors.

APB00554
EGT SENSOR SOCKET SET


- Specially designed to remove most Exhaust Gas Temperature(EGT) sensors used on cars, light, medium, and heavy-duty trucks.
- Designed to drive all 6 sides of the hex equally to reduce the chance of damage.
- Set includes: 13mm, 14mm and 17mm.

APB00569
FILTER WRENCH - DODGE ECODIESEL


- Specially designed to remove and install the fuel filter on Ram EcoDiesel.
- The wrench grabs four tabs on outside fuel filter canister for easier removal.
- Suitable for Dodge Ram 1500 EcoDiesel(3.0L V6 turbo) from 2014.

APB00570

HEAD BOLT TORQUE ADAPTER - FORD 6.0L POWER STROKE DIESEL



- Suitable for :
Ford F250/350 truck (2003-2007)
Ford Excursion (2003-2005)
Ford E-Series van (2003-2010)
- Use with 3/4" drive ratchet/torque wrench to loosen and tighten head bolts.
- When used with 18mm socket, the tool can access all the head bolts.
- Allows access to rear head bolts by eliminating the need to remove the cab from the chassis, prevents damage to rear heat shield and eliminates the need to remove the evaporator housing

APB00574

OIL FILTER PLUG TOOL - DODGE



- Threads the plug into the oil filter to secure the seal, and remove the oil filter from tight space without spilling oil.
- The tool also allows technicians to pre-lubricate the oil filter before installation.
- U-handle make removal and installation easier.
- Suitable for 2013~2017 Dodge Ram 6.7L Cummins diesel 2500/3500 heavy-duty trucks.

APB00580
6PCS BMW DRAIN PLUG SET


Diameter	Ø36 mm
Thread Size	M24 × P1.5
Max. Torque	8 Nm
Internal Hex	10 mm

- Nylon oil drain plug used on BMW.
- Replace oil drain plugs each time after oil change.
- Work with an Allen wrench for removal.

Make	Model	Year	Make	Model	Year
BMW	1 Series F20	2010-2018	BMW	4 Series F32, F82	2013-2018
BMW	1 Series F20 LCI	2014-2016	BMW	4 Series F33	2013-2018
BMW	1 Series F21	2011-2018	BMW	4 Series F36	2014-2018
BMW	1 Series F21 LCI	2014-2016	BMW	5 Series F07 GT LCI	2012-2015
BMW	2 Series F22	2013-2018	BMW	5 Series F10	2010-2017
BMW	2 Series F23	2014-2018	BMW	5 Series F10 LCI	2012-2016
BMW	3 Series F30	2011-2018	BMW	5 Series F11	2010-2018
BMW	3 Series F30 LCI	2014-2016	BMW	5 Series F11 LCI	2013-2015
BMW	3 Series F31	2011-2017	BMW	X1 E84	2009-2015
BMW	3 Series F34 GT	2013-2017	BMW	Z4 E89	2009-2018

APB00581
6PCS DRAIN PLUG SET - CITROEN, FORD, PEUGEOT


Diameter	Ø37 mm
Height	21 mm

- Nylon oil drain plug used on Citroen, Ford, and Peugeot.
- Replace oil drain plugs each time after oil change
- Work with an Allen wrench for removal.

APB00582**COOLANT REFILLING FUNNEL SET WITH EXTENSION PIPES**

- Used for anti-spill coolant refilling and air bleeding.
- Includes 4 extension pipes for narrow spaces or tricky angles.
- Transparent lower chamber displays the amount of air bubbles remaining in the radiator.
- Includes adapters with nylon cover to reduce heat transfer caused by exhaust gas.
- Specially designed connectors to provide an anti-spill adapter.
- Funnel capacity: 1,600 ml.
- Large capacity suitable for works on trucks and heavy duty vehicles.

APB00583**DIESEL ENGINE LOW PRESSURE DIAGNOSTIC KIT**

- Is used to inspect the low pressure or return fuel side of diesel engines
- Two manometers with different scales (-1 - 5 bar and -1 - 15 bar) offer more accurate test results.
- Ten fuel line adapters cover a wide range of diesel engine and vehicle manufacturing.
- Translucent tube on adapters help observe impurities and bubbles in the fuel.
- 2 meter long hoses help connections in confined areas in engine compartment.

APB00587
PISTON RING PLIERS

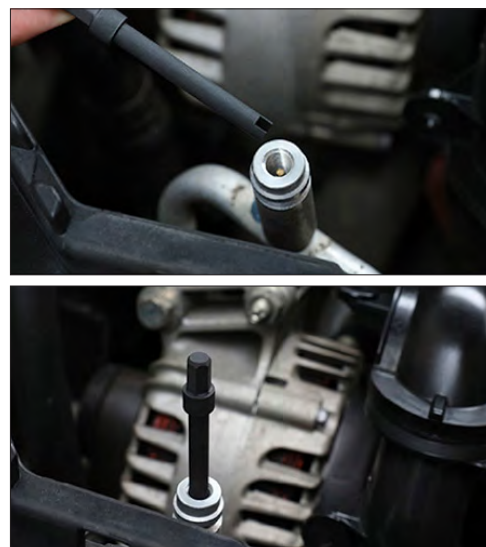

- With prism holder for safe grip of various piston ring types.
- Size: ϕ 60~ ϕ 120 mm
- Material: Alloy steel

APB00592
FUEL LINE PLIERS FOR DIESEL FILTER - JTD MULTIJET


- Quick release clamp for connecting in Fiat JTD Multijet diesel filter, Fiat JTD Multijet diesel filter, Lancia, Alfa Romeo, Opel, Peugeot, Citroen, Ford and Suzuki.

APB00596

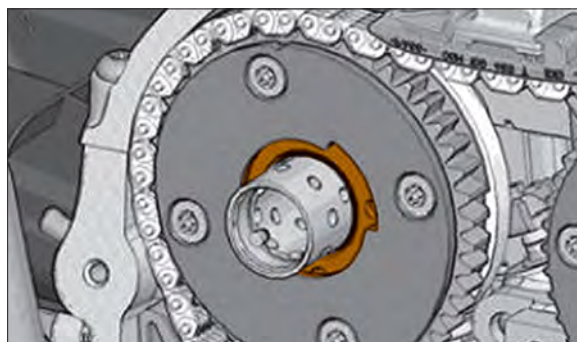
114" HEX VALVE CORE TOOL



- For torque-controlled tightening with a torque screwdriver / wrench.

APB00599

VAG CAMSHAFT ADAPTER SOCKET



- The new special tool is required on account of the modified contour in the camshaft adjuster.
- OEM Ref. T10567
- Suitable for : VW Tiguan 2016~ ; AU DI A4 2016~
- Used to rotate and hold intake camshaft during timing chain service on 4-cylinder 1.8 and 2.0 liter 4V TFSI direct in action engine (generation 111)
- OEM Ref. T40266
- Suitable for engine codes:
 - 1.8 TFSI - CDAA, CDAB, CDHA, CDHB, CJSA, CJSB, CJEB
 - 2.0 TFSI - CNDC, CDN B, CDNC, CFKA, CPSA, CNCD

APB00603
INJECTOR SHAFT CLEANING SET


- To clean the injector shaft and seat as the injector surface.

APB00664
FUEL SOLENOID WRENCH 1/2"D - FORD


- An essential tool for removing the high pressure pump fuel solenoid on many Ford non-common rail engines.
- Application: Ford-Tourneo Connect/Transit Pre 2010/Transit Connect Pre 06/Mondeo Pre 07 and Focus Pre 04.
- For engines 1.8i/2.0/2.2/2.4 non-common rail Duratorq engines TDCi/TDDi 1.8i Endura-Di/2.0/ Duratorq-Di/TDCi/TDDi Duratorq 2.2/2.4.
- Equivalent to OEM 303-1286.

APB00665

BMW (B38/B48) FUEL INJECTOR REMOVAL / INSTALLATION TOOL KIT



- This tool kit is designed for the removal and installation of the injector.
- Application: BMW B38/B48 engine
- Equivalent to OEM 83 30 2 385 417

APB00669

HIGH PRESSURE FUEL INJECTION PUMP SPROCKET TOOL



- Applications:
Chain driven CRDi diesel engines 2.0 & 2.2 CRDi fitted to Hyundai and KIA models
- Equivalent to OEM 09331-1M100

APB00671
TOOL SET FOR PLASTIC OIL DRAIN PLUG


A:for FORD/PEUGEOT/CITROEN Oil Drain Plug

■ Suitable for FORD 2.0 TDCi

FORD:C-Max (2015-), Focus (2014-), Galaxy(2015-), Kuga (2014-), Mondeo (2014-), S-Max (2015-)

■ Suitable for PSA 2.0 HDi

PEUGEOT:308 (2013-), 508 (2014-), 3008 (2009-).5008 (2009-), Traveller (2016-)

B:for FORD Oil Drain Plug

■ Suitable for FORD 1.5, 1.6 TDCi 1.0, 1.6 EcoBoost

FORD:Transit / Tourneo Connect (2013-)

■ Suitable for FORD 1.5, 2.0, 2.3, 2.5, 2.7, 3.5, 3.7, 5.0, 5.2 petrol / 6.2, 6.7, 6.8 diesel

FORD:Edge (2015-2017), F-150 (2015-2016). Fusion (2017), Mustang (2015-2017), F-250/350/450/550 Super Duty - diesel (2011-2012)

■ Suitable for LINCOLN 2.0, 2.7, 3.7 petrol

LINCOLN:MKX (2016-2017)

C:for BMW Oil Drain Plug

■ Suitable for FORD 2.0 TDCi

BMW:F07, F10, F11, F18, F20, F21, F22, F23, F30, F31, F32. F33, F34, F35, F36, F80, F82, F83, F87, E84, E89

D:for VW/AUDI/SKODA/SEAT Oil Drain/Cam Cover Plug

■ Suitable for VAG 1.8, 2.0 TSI / TFSI ; 1.6, 2.0 TDI

VW:Beetle, Caddy, CC, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran

AUDI:A1, A3, A4, A5, A6, A7, Q3, Q5, Q7, TT, TTS

SKODA:Ibiza. Octavia, Rapid, Superb. Yeti

SEAT:Alhambra, Leon, Toledo



OEM Ref. VAG 06L103801
OEM Ref. PORSCHE 95810380100



OEM Ref. FORD 1871598 / 1871600
OEM Ref. PSA 9801444780



OEM Ref. FORD 1830727 / 2072363
OEM Ref. FORD BC3Z6730A / FT4Z6730A



OEM Ref. BMW 11137605018

APB00676

PLASTIC OIL DRAIN PLUG



- For FORD Oil Drain Plug
- Suitable for FORD 1.5, 1.6 TDCi 1.0, 1.6 EcoBoost
FORD:Transit / Tourneo Connect (2013-)
- Suitable for FORD 1.5, 2.0, 2.3, 2.5, 2.7, 3.5, 3.7, 5.0, 5.2 petrol / 6.2, 6.7, 6.8 diesel
FORD:Edge (2015-2017), F-150 (2015-2016). Fusion (2017), Mustang (2015-2017),
F-250/350/450/550 Super Duty - diesel (2011-2012)
- Suitable for LINCOLN 2.0, 2.7, 3.7 petrol
LINCOLN:MKX (2016-2017)

APB00677

PLASTIC OIL DRAIN PLUG



- For VW/AUDI/SKODA/SEAT Oil Drain/Cam Cover Plug
- Suitable for VAG 1.8, 2.0 TSI / TFSI ; 1.6, 2.0 TDI
VW:Beetle, Caddy, CC, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran
AUDI:A1, A3, A4, A5, A6, A7, Q3, Q5, Q7, TT, TTS
SKODA:Ibiza, Octavia, Rapid, Superb, Yeti
SEAT:Alhambra, Leon, Toledo

APB00678
PETROL INJECTOR PULLER (BOSCH - GDI)


1.6L EcoBoost Fuel Injector



1.0L/1.5L EcoBoost Fuel Injector



2.0L/2.3L/3.5L/3.7L

- Pulls Bosch GDI petrol injector straight out, without damaging the injector or head.
- The 2PCS jaw design with slide lock easily accesses and grips recessed injector.
- Suitable for Bosch GDI Injectors found on many European, American and Asian vehicles.
- Works on Ford GTDI EcoBoost engine from 1.0L to 3.7L. Also for GM SIDI Ecotec engine from 2009.
- OEM Ref. FORD 310-206, GM J-37281-A

APB00684
PIEZO DIESEL INJECTOR PULLER (MERCEDES)

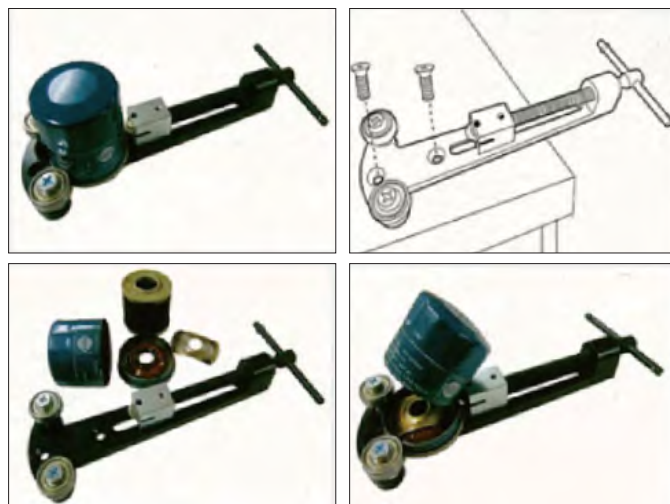

Application	
A-class	Type 176
B-class	Type 246
C-class	Type 204, 205
E-class	Type 212
S-class	Type 221, 222
V-class	Type 639, 447
CLA	Type 117
GLA	Type X156
GLK	Type X204
CLS	Type 218
ML	Type 166
SLK / SLC	Type 172
GLC	Type X253



- For removing extreme seized diesel injector without removing the cylinder head.
- Suitable for Mercedes diesel engine OM651.

APB00705

OIL FILTER CUTTER TOOL



- This tool is designed for cutting oil filter before recycle it.
- Two bearing design may save power and more easily when rotary the oil filter.
- The material of blade is SKH9 , main body is aluminum alloy steel, lighter, sharper and stronger construction.
- This cutter incorporates a longer plate that allows cutting filters from 60 mm to 140 mm in diameter.

APB00734

4PC FCR CARBURETOR TOOL



- Convenient compact tool set for servicing carburetors.
- Contain longer bits for reaching into recessed cavities to adjust Keihin FCR carburetors.
- The set includes: 2 slotted for pilot jets, 6mm Hex for main jets and 3mm Allen for removing the float bowl.

APB00762**INJECTOR NOZZLE REMOVER - MERCEDES BENZ (M278)**

- Designed for removing petrol injector by a slide hammer or T bar.
- Applications:
Mercedes-Benz M133, M152, M157, M270, M274, M276, M278 engines.
- Equal to OEM 278589003300

APB00763**INJECTOR NOZZLE INSTALLER - MERCEDES BENZ (M278)**

- Clean surface for sealing ring on fuel injector and restore immediately after calibrating the sealing rings.
- Applications:
Mercedes-Benz with M133, M152, M157, M270, M274, M276, M278 engines.
- Equal to OEM 272589004300

APB00764

DIESEL INJECTOR PULLER - BOSCH



- For removing diesel injector without removing the cylinder head.
- Suitable for BOSCH diesel injector.

APB00773

CRANKSHAFT FRONT SEAL INSTALLATION TOOL - AUDI



- Used to install the oil seal on front crankshaft.
- Applications:
Audi SQ7 2016-, 8-cyl. Common rail 4.0L TDI,
engine code: CZAC EA898

APB00774
DIESEL PUMP SPROCKET PULLER - RENAULT/NISSAN/OPEL/VAUXHALL


- Used to install the oil seal on front crankshaft.
- Applications:
Audi SQ7 2016-, 8-cyl. Common rail 4.0L TDI,
engine code: CZAC EA898

Applications		
G9T diesel engine-2.2L	RENAULT	Master II (1999-2003)
		Espace IV (2001-)
		Laguna II (2002-2006)
		Avantime (2001-2003)
		Vel Satis (2001-2009)
	NISSAN	Interstar (1999-2003)
G9U diesel engine-2.5L	Opel	Movano I (1999-2003)
	VAUXHALL	
	RENAULT	Master II (1999-2003)
		Trafic II (2001-2011)
	NISSAN	Interstar (1999-2003)
		Primastar (2001-2011)
	Opel	Movano I (1999-2003)
		Vivaro (2001-2011)
	VAUXHALL	

APB00777

CRANKSHAFT REAR SEAL INSTALLATION TOOL - LAND ROVER



- A specialised tool for installing the rear crankshaft oil seal (flywheel end) on 2.2L diesel engines, to reduce the risk of damaging the seal's sealing lip.
- Application: Land Rover Freelander 2, Range Rover Evoque.
- Engine Applications include: 2.2Lt Diesel (224DT)
- Equivalent to OEM 303-1271

APB00799

CRANKSHAFT FRONT OIL SEAL FITTING TOOLS



- Required tool for replacing the crank seal and removing the front engine cover to replace the chain.
- Applications:
Ford Transit, Ranger with 2.0/2.2/2.4/3.2 TDCi/TDDi engines plus JAGUAR X Type X400 and Land Rover Defender.

APB00807
FUEL INJECTION PUMP SPROCKET LOCKING TOOL

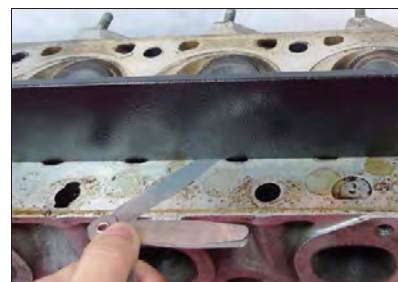

- Maintains engine timing and timing chain position while removing the chain driven high pressure diesel injection pump.
- Applications:
Ford Transit (2.2L) and Ford Ranger (3.2L) Puma engines.
- Equivalent to OEM 303-1317

APB00808
HIGH PRESSURE FUEL PUMP TOOLS - FORD


- Allows the removal of the chain driven high pressure diesel injection pump without removing the timing chain or disturbing the engine timing.

APB00811

CYLINDER HEAD SURFACE RECTIFIER



- Work with a feeler gauge for testing on the engine block and cylinder head.
- Fit for 4 and 6 cylinder engines.
- Length: 160mm

APB00812

TOYOTA & LEXUS OIL FILTER WRENCH



- Designed for removing Toyota and Lexus oil filter covers.
- Features with special teeth design grips oil filter cover firmly without sliding.

APB00813

OIL FUNNEL SET



- Transparent chamber designed clearly shows oil flow process.
- Large oil passage allows oil to be refilled more rapidly.

APB00819

COOLANT FILLING KIT



- Controls unattended filling of the cooling system.
- Eliminates squeaky belts caused by coolant overflow.

APB00822

TOPPING UP ENGINE OIL FUNNEL SET



- The funnel is made of strong plastic with bayonet fitting.
- Capacity: 2 liter

APB00872

5PC PLASTIC OIL PLUG DRIVER SET



- Designed for use with connect 31775 Peugeot/Citroen (OEM 9801444780 plug) and Ford (OEM 1871598 plug).
- Plus connect 31776 Ford (OEM 1830727 plug) and connect 31774 BMW (OEM 11137605018 plug).
- Plus connect 31771 VAG (OEM Sump and Cam cover plug 06L 103 801).
- Contents: 3/8" Dr T-handle (80mm long, shank length 100mm), 3/8" Dr slot socket, 3/8" Dr >1/4"Dr adaptor, 10mm Hex bit with 1/4" hex shank and VAG oil plug bit with 1/4"hex shank.

APB00873
OIL FILTER HOUSING REMOVAL TOOL-FORD


- Designed to remove and install the oil filter covers in confined areas.
- Easily replace the oil filter cartridge by using the indispensable tool.
- Applications:
 Oil filters on Ford / PSA 2.0 L Durotorq, TDCI / HDI (DW10C) and 2.2 L Durotorq, TDCI / HDI (DW12C) diesel engines.
 Used with bi hex 1/2" drive.

APB00874
OIL FILTER WRENCH- OPEL/VAUXHALL


- Equivalent to OEM KM-6150.
- 1/2" Drive.
- Applications:
 Vauxhall and Opel cars with 2 litre, 2.2 litre petrol engines with A - Z codes.
 Models: Astra-G, Vectra-B, Vectra-C, VX220 Speedster, Zafira-A, Omega-B, Astra-H, Signum, Zafira-B, Zafira Family, Insignia.

APB00897

DIESEL INJECTOR EXTRACTOR FOR JLR 2.7/3.6 ENGINES



- Specifically designed to extract the common rail injectors used on the Jaguar Land Rover 2.7 TDi V6 & 3.6 TDi V8 diesel engines found across the Jaguar and Land Rover ranges.
- Applications:
Land Rover Discovery 3, Discovery 4, New Range Rover, Range Rover Sport. Jaguar X200, S Type, X250(XF), X350(XJ) OEM:303-1127

APB00898

COOLANT PUMP THERMOSTAT KEY FOR VW/AUDI



- Removal and assembly of water pump thermostat
- Type / model: Audi A3 2013 >, Golf 2013 >
- Assembly group: 4-cyl. injection engine (1.4 l direct injection engine, turbocharger)
- OEM No.: T10508

APB00900
SYRINGE PUMP REMOVAL AND INSTALLATION TOOL FOR FORD 2.0


- Designed to remove and replace the high pressure fuel pump from the drive gear of the listed applications. The gears will remain in the correct timing position, so there is no need to adjust the time when reinstalling the pump.
- Applications:
Ford Transit, Transit Custom and TourneoCustom with 2.0lit Ecoblue TDCi engines: AWD, FWD, RWD 2016 onwards. Engine codes: YLFS, YMFS, YNFS, YLF6, YMF6, YNF6, YLR6, YMR6, YNRS.
- OEM NO.: 303-1635

APB00904
8PC HEAD GASKET ALIGNMENT TOOL FOR VAG


- The pins allow the mechanic to place the gasket on the block accurately.
- Application: Beetle 2.0L (1999-2004)
- OEM No. 3450(3450-1, 3450-2, 3450-2a, 3450-3)
- Includes:
 - 1pc M6 X 1.0mm Pin Extraction Tool
 - 1pc M6 X 1.0mm Pin Extraction Tool(No Handle)
 - 2pc M10 X 1.5mm Long Pins
 - 2pc M9 X 1.25mm Long Pins
 - 2pc M10 X 1.5mm Short Pins

APB00905

STEEL BOLT FOR TURBO HOUSING



- Application range:
Renault Master, Traffic, Opel Movano, Nissan Primastar Turbo.
Size: Crenellated in 8 deges, diamer 10mm

APB00906

GEAR FOR ENGINE FLYWHEEL ROTATION- IVECO



- Designed for dual gear engine flywheel rotation for timing.
- Applications:
Euro Cargo, Cargo 150E27R PR, FPR 320E27T, PT Euro Tech, Eurostar models.
Engine models: 8360.46, F3A, F3B.
Equivalent to OEM 99360321

APB00907
GEAR FOR ENGINE FLYWHEEL-MAN / MERCEDES BENZ


- Enables manual adjustment of the crankshaft.
- H : 90 mm
- 1/2" Drive.
- Applications:
Mercedes Benz with 400 engine for 6, 8, 10 cylinder engines and MAN 12 cylinder engines.
Models: 401, 404, 407, 409, 421, 424, 427, 429, 441, 444, and 447

APB00908
FLYWHEEL ROTATING TOOL


- The tool is required for placing the fuel pump timing and engine timing.
- Application:
Renault Magnum
Drive: 1/2"

APB00909

CRANKSHAFT ROTATING TOOL FOR MAN/MERCEDES BENZ



- Flywheel rotating tool with 3 gear wheels.
- Enables manual adjustment of the crankshaft.
- H:120mm
- 1/2" Drive
- Applications: Mercedes-Benz Actros and Atego 904 and 906 engine, Man engines with 5, 6 and 8 cylinders.

APB00910

FLYWHEEL ROTATING TOOL



- Used to remove plugs flywheel cover and place the rotation tool.
- Application:
Volvo truck (MP8 & MP10),(FH, D13A520)
Drive: 1/2"
Inner Dia.: 19mm
Outer Dia.: 38.8mm
Height: 71 mm

APB00911**GEAR FOR ENGINE FLYWHEEL ROTATION**

- Designed for dual gear engine flywheel rotation for timing.
- Suitable for Euro Cargo, Cargo Eurotech, Heavyon, Off Road, Bus.
- Engine models: 8040-25-45, 8060-25-45, 8460, 8260, 8280, 8210.42, 190.38, 190.42

APB00913**VOLVO FLYWHEEL ROTATING TOOL**

- Provide an easier way to physically rotate the D12, D16 engines



TRANSMISSION SYSTEM SERVICE TOOLS

- TRANSMISSION SERVICE TOOLS
- CLUTCH SERVICE TOOLS
- AXLE AND PROPELLER SHAFT SERVICE TOOLS
- CHAIN SERVICE TOOLS
- TESTERS AND GAUGES
- OTHERS

APC00001
TRANSMISSION GEAR PULLER - VAG


- Used to pull the 5th and 6th gears on VAG gearboxes.
- Equivalent to OEM T10309A (made up of T10309/1/2/3/4/5).
- Applications: Audi A3, TT. Volkswagen Beetle, Caddy, Eos, Golf, Jetta, Passat, Polo, Scirocco, Touran. Seat Altea, Leon, Toledo and Skoda Fabia, Octavia, Superb, Yeti.

APC00002
CLUTCH ALIGNMENT TOOL - MINI


- Used to install a new clutch in the manual transmission.
- Applications: MINI One 2001 to 2006, MINI Cooper 2001 to 2006, MINI Convertible 2005 to 2008 with 5-speed gearbox.
- Engine applications: W10 B14A & W10 B16A petrol fitted with 5-speed gearbox.
- Equivalent to OEM 21 6 100 (83 30 0 493 999)

APC00003

CLUTCH ALIGNMENT TOOL - MINI



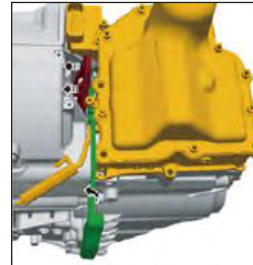
- Used to install a new clutch in the 6-speed manual transmission.
- Applications: MINI One D 2001 to 2006, MINI Cooper S 2001 to 2006, Cooper S JCW 2001 to 2006, MINI Convertible 2005 to 2008 with 6-speed gear box.
- Equivalent to OEM 21 2 210 (83 30 0 494 261)

APC00004

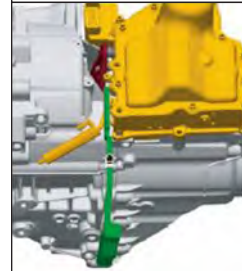
PLIERS FOR CLUTCH MASTER CYLINDER PISTON ROD



- Suitable for Vauxhall / Opel: Astra-J, Signum, Vectra-C; Audi: A1 (8X), A3 (8P), A4 (B7), A6 (C6); VW: Golf (1K1), Passat (3B6), Eos (1F)...etc.
- The pliers are designed to release quickly and easily the clutch master cylinder piston rod from the clutch pedal.
- Very useful tool when removing a clutch master cylinder/pedal support bracket.

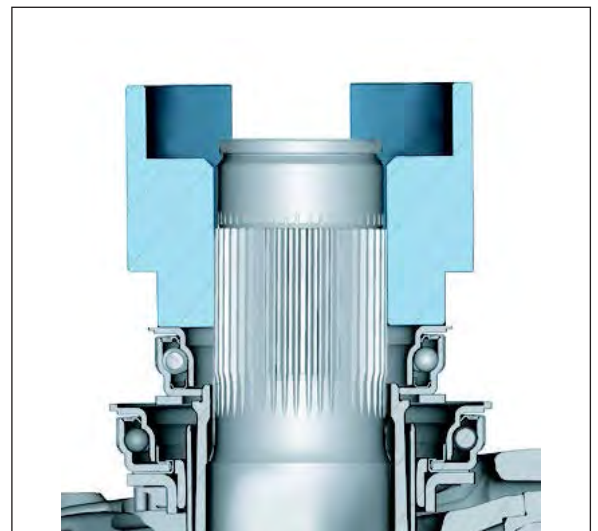
APC00005
7-SPEED DUAL-CLUTCH GEARBOX ASSEMBLY LEVER


Assembly lever APC-00005 should make contact with gearbox housing with it's entire "rear face"



Turn assembly lever APC-00005 anticlockwise. In this way,engaging levers are pressed away from plungers.

- Used to operate the engaging lever during dismantling and mounting of the mechatronics unit on 7-speed (DSG) dual clutch gearbox 0AM(DQ200).

APC00006
CLUTCH BEARING GAUGE BLOCK (VW/Audi)


- Application: DSG (7-speed) gearboxes used in the Volkswagen/Audi range (VAG) from 2011 onwards.
- Used to set and adjust the position of the clutch engagement bearing.
- OEM Ref. T10466

APC00007

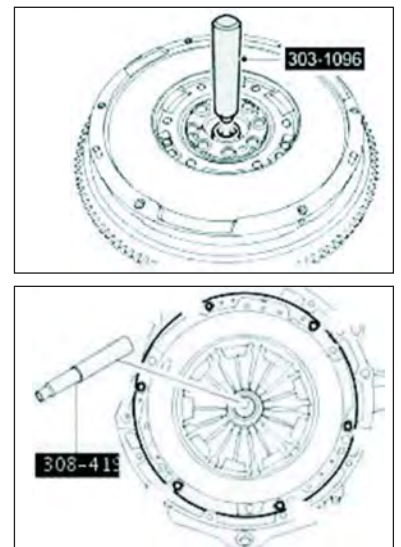
OUTPUT SHAFT REMOVAL FORK (BMW)



- For removing the output shaft from the front axle gearbox (AWD).
- Suitable for: BMW E53, E60, E61, E83, E90, E91, E92.
- OEM Ref. 31 5 110

APC00008

JAGUAR / LAND ROVER CLUTCH ALIGNMENT TOOL (DOUBLE-ENDED)



- Replace two tools for one with this cost-effective clutch tool.
- End 1: Aligner (OEM 308-419) Defender-Puma TD4 2.4L diesel(2007 onwards) to align the clutch disc and pressure plate on installation.
- End 2: Adaptor/installer (OEM 303-1096) Jaguar X200-S-type (2003-2007) to align the clutch drive plate and install the spigot bearing. Discovery 3 /Discovery 4 TDV6 2.7L diesel (2005~2012) to install the pilot bearing.

APC00009
DCT CLUTCH INSTALLATION TOOL / REMOVAL TOOL (Volvo, Ford, Chrysler, Dodge)


- For 6 speed DCT-dual clutch transmission (Getrag 6DCT450 / MPS6)
- Suitable for Volvo: C30, C70(06~), S40(04~), S60(11~), S80(07~) S80L, V40(13~), V40 Cross Country, V50, V60, V70(08~), XC60; Ford: Focus(04~), C-Max, S-Max, Galaxy, Mondeo(07~), Kuga(13~); Chrysler: Sebring; Dodge: Avenger, Journey.
- OEM Ref. 9997435(Volvo) / 308-763 (Ford)

APC00010
SAC CLUTCH MANDREL SET (BMW)


Choose the appropriate centring tool depending on the hub profile diameter of the clutch disc.

- Suitable for BMW vehicles
- For centering the clutch disc on the flywheel while installing self-adjusting clutch (SAC).
- Designed to align the clutch disc before installing or re-installing a self adjusting clutch (SAC).
- Can also be used to align new and already pretensioned SAC clutches.
- $\Phi 15\text{mm} \times 23\text{mm}$, $\Phi 15\text{mm} \times 26.5\text{mm}$, $\Phi 15\text{mm} \times 28\text{mm}$, $\Phi 15\text{mm} \times 32.5\text{mm}$, $\Phi 15\text{mm} \times 34\text{mm}$, Φ Centering sleeve 15mm/32mm

APC00011

HEAVY DUTY CLUTCH ADJUSTING WRENCH



- For spacer-built heavy-duty clutches.
- Used for the internal adjustment of spicer angle-spring and multiple-lever clutches.

APC00013

SAC CLUTCH TOOL MASTER KIT



- This kit allows the professional disassembling and assembling of all self-adjusting clutches(SAC).
- The pre-tightening of the pressure plate is required to avoid clutch deformations.
- The 6-arm plate is designed for SAC clutches with 6/8 locking holes.

APC00015
CLUTCH REMOVER AND INSTALLER FIXTURE SET - FORD

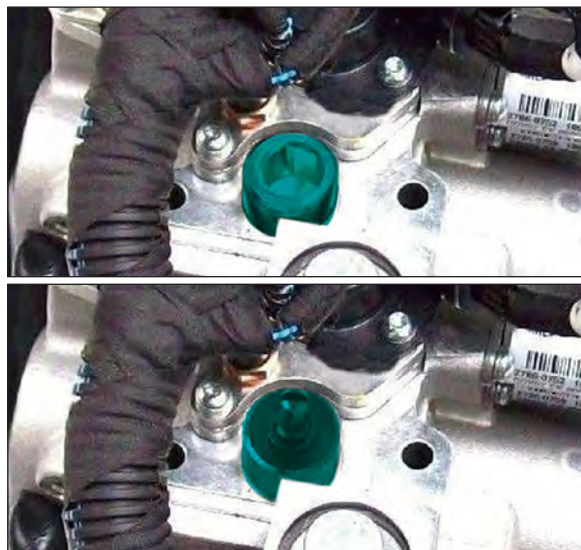

- Removal: Remove and discard the hollow input shaft snap ring, then install the fixture tool and remove the clutch as an assembly with the tool.
- Installation: Remove the fixture tool from the clutch and install the tool onto the transaxle case.
- Application: Ford B-MAX 2012~, EcoSport 2012~, Fiesta 2008-2019, Focus 2010-2018, Focus RS 2016-2018
- Equivalent to OEM 307-675

APC00016
CLUTCH ALIGNMENT TOOL SET


- Designed to align the clutch disc either relative to the clutch pressure plate or via the pilot bearing relative to the flywheel.
- For single/two disc clutches. (Clutch hub $\Phi 15-16\text{mm}$).
- For passenger cars and light commercial vehicles.
- For vehicles with/without pilot bearings.

APC00017

POSITIONING ELECTRONIC CLUTCH TOOL



- Designed to lock the selection lever inside the actuation hydraulic unit.
- The tool should be fully tightened and should not be removed to allow the hydraulic unit to be correctly fitted.
- Suitable for 1.3 MultiJet robotized gearbox.

APC00018
CLUTCH ALIGNMENT TOOL SET


- Align the clutch disc either relative to the clutch pressure plate or via the pilot bearing relative to the flywheel.
- The self-centering mechanism ensures the tool is being exactly positioned in the clutch disc hub.
- Suitable for clutch hub $\varnothing 15-28\text{mm}$

APC00019
UNIVERSAL CLUTCH ALIGNMENT TOOL


- Align the clutch disc either relative to the clutch pressure plate or via the pilot bearing relative to the flywheel.
- The self-centring mechanism ensures the tool is being exactly positioned in the clutch disc hub.
- Suitable for clutch hub $\varnothing 15-28\text{mm}$
- For pilot bearing $\varnothing 12, 14, 15, 16, 17, 18, 19\text{mm}$

APC00020

PULLER FOR CLUTCH RELEASE SHAFT



- Professional tool for extracting the clutch release shaft on Fiat Ducato (1994) with pulling clutch.
- Extracting the chain guide rail bolt on BMW and Mercedes engines
- Required for clutch replacement and gearbox repair.

APC00021

CLUTCH CABLE CLAMP



- Use this tool to clamp the clutch cable while exchanging a clutch.
- Suitable for Volkswagen Golf (II and III), etc.

APC00022
CLUTCH ALIGNMENT TOOL SET


- An essential tool for perfectly aligning clutch plates to ensure easy engine installation.
- Application: Volkswagen, Audi, Seat, Skoda engines.

APC00023
DISMANTLING MANDREL FOR RELEASE BEARING


- Required to pre-tension the circlip.
- For quick and professional removal of the release bearing from the pressure plate.
- Application: Fiat Ducato, Peugeot Boxer, Citroën Jumper, Peugeot 406 with pull-type clutch.

APC00024

RENAULT CLUTCH CENTERING TOOL SET-23 TO 35MM



- Universally applicable for light commercial vehicles with a hub diameter from 23 to 35mm.
- Includes 6-centering sleeves.
- Ideal for quick assembly for single and 2-disc dry clutches.
- Also suitable for custom-fit centering of the clutch disc via the guide bearing in the crankshaft.
- Applications: vans and small lorries, especially Renault.
- Variably adjustable in diameter from 23 to 35mm.
- Including knurled clamping screw.

APC00025

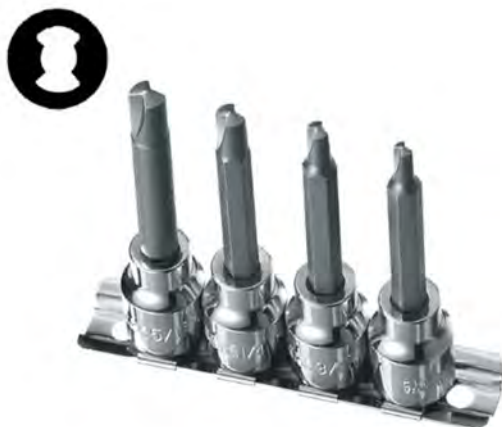
RENAULT CLUTCH CENTERING TOOL SET-24 TO 36MM



- Universally applicable for light commercial vehicles with a hub diameter from 24 to 36mm.
- Includes 6-centering sleeves.
- Ideal for quick assembly for single and 2-disc dry clutches.
- Also suitable for custom-fit centering of the clutch disc via the guide bearing in the crankshaft.
- Applications: vans and small lorries, especially Renault.
- Variably adjustable in diameter from 24 to 36mm.
- Including knurled clamping screw.

APC00026
CLUTCH ALIGNER SET - 15 TO 28MM


- Universal clutch aligner for hub diameter from 15 to 28mm.
- Also suitable for trucks with single or double-disc clutches.
- Kit contains 8pc centering sleeves for vehicles including $\Phi 12$, 14, 15, 16, 17, 18, 19, and 20mm; 4pc centering sleeves for trucks including $\Phi 20$, 25, 27, and 30mm
- Mandrel No.1 is applicable on interior clutch hub diameters from 36 to 45mm.
- Mandrel No.2 is applicable on interior clutch hub diameters from 42 to 52mm inside.

APC00027
4PC CLUTCH HEAD BIT SOCKET SET


- Designed for servicing special fasteners found on older GM vehicles.
- Use with 3/8" square drive.
- Provides hard-to-find clutch head bit sockets.
- Also designed for use when servicing "figure 8" screws on older Chevy cars and trucks.
- Set includes 5/32", 3/16", 1/4", and 5/16" required for use when working with headlight buckets, hood braces, steering columns, and more.

APC00028

MACK KINGPIN SOCKET



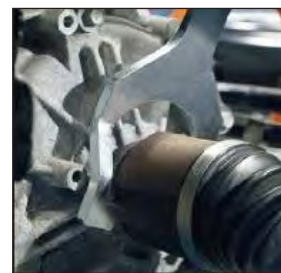
- Designed to fit the slotted adjusting screw-on tapered king pins found on most Mack front axles.
- Applications: 12,000 lbs, 16,000 lbs, 18,000 lbs, and 20,000 lbs Axles.
- This new cross design of king pin caps are designed to reduce the camming or working action caused by other methods.
- Use a 1/2" square drive ratchet or breaker bar to safely remove the pin.

APC00029

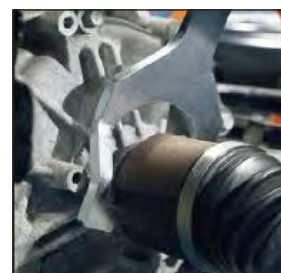
CLAMPING SCREW DISASSEMBLY TOOL KIT



- Specially tool for loosening the clamping screw on the four-link axle.
- Suitable for VAG vehicles, Audi A4, A6, etc.
- Can also be used in aluminum axle knuckles.
- Contents:
 - 3 x high-performance drills (HSS cobalt)
sizes: 6, 8.5, 10 mm
 - 1 x pressure bar
 - 1 x rash tool

APC00030**INNER-DRIVE SHAFT EXTRACTOR FORK TOOL**

- Designed to engage between the inner driveshaft and the gearbox housing to lever out the driveshaft.
- Applications: Ford, Mazda, Volvo, Renault, Dacia, and other front-wheel drive vehicles.

APC00031**TRANSMISSION AXLE HOLDER WRENCH**

- Suitable for 2005 and later Land Rover with V8 engines.

APC00032

HEAVY-DUTY YOKE PULLER



- Manufactured from high-grade steel for strength and durability.
- Designed to remove the heavy-duty yokes on drive shafts, transmissions, and rear-end differentials without damaging the components.
- Engineered for use with a 1" impact tool.
- Capable of generating over 25,000 lbs of pulling power.
- Applications:
 - Yokes with a bearing diameter between 1-7/8" to 2-3/16"
 - Spicer and Meritor 1610, 1710, 1760, 1810 series
 - Meritor/Rockwell RPL 20, 25 series

APC00033

AXLE SHAFT PULLER



- Quick and easy to install by fully adjustable pulling arms and stud adaptors.
- This tool can reduce the risk of damage to axle studs.
- Application:
 - All medium to heavy-duty Eaton and Rockwell drive axles.

APC00034
SAC CLUTCH TENSIONING TOOL FOR BMW


- Used on BMW vehicles equipped with manual transmissions and SAC clutch.
- For resetting the adjustment ring and installing self-adjusting clutch (SAC) on the flywheel without tension.
- OEM Ref. 21 2 170.

APC00035
SAC CLUTCH LOCATING RING FOR BMW


- Used on BMW vehicles equipped with manual transmissions and SAC clutch.
- For locating and resetting the adjustment ring of the SAC clutch on all 6 and 7-cylinder engines.
- OEM Ref. 21 2 180.

APC00036

SAC CLUTCH MANDREL FOR BMW



- For centering clutch disc on flywheel while installing self-adjusting clutch (SAC).
- Designed to align the clutch disc before installing or re-installing a self-adjusting clutch (SAC).
- Can also be used to align new and already pre-tensioned SAC clutches.
- Suitable for transmission: GS6-37BZ, GS6-37DZ.
- OEM Ref. 212200.
- Size: Ø15mm x 26.5mm x 60mm (L)

APC00037

SAC CLUTCH MANDREL FOR BMW



- For centering clutch disc on flywheel while installing self-adjusting clutch (SAC).
- Designed to align the clutch disc before installing or re-installing a self-adjusting clutch (SAC).
- Can also be used to align new and already pre-tensioned SAC clutches.
- Suitable for transmission: GS6-17BG, GS6-17DG, S5D- 250G.
- OEM Ref. 212250.
- Size: Ø15mm x 26.5mm x 80mm (L)

APC00038
SAC CLUTCH MANDREL FOR BMW


- For centering clutch disc on flywheel while installing self-adjusting clutch (SAC).
- Designed to align the clutch disc before installing or re-installing a self-adjusting clutch (SAC).
- Can also be used to align new and already pre-tensioned SAC clutches.
- Suitable for transmission: GS6-53DG with S65(V8), S85(V10), E92(M3), E60(M5), E63(M6).
- OEM Ref. 212280.
- Size: Ø15mm x 32.5mm x 100mm (L)

APC00040
REAR RESERVOIR REMOVAL WRENCH


- Used to remove the leakage reservoir tank on the rear axle.
- Application: Audi e-tron (2019~)
- OEM Ref. T40409

APC00446

7-SPEED DSG CLUTCH INSTALLER & REMOVER - VW/AUDI



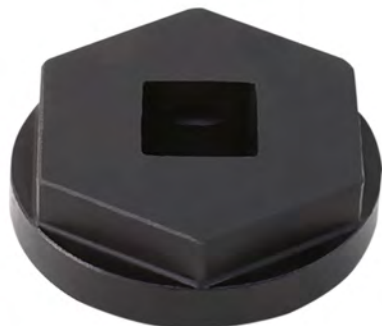
- The tool is used to repair the clutch unit to disassemble and assemble the clutch housing.
- The special design installs and removes the clutch of the gearbox.
- OEM NO.:
T10373A, T10374, T10376, T10323, T10466, T40100, T10407
- Applications:
Model: VW:Golf 2004 >, Golf Plus 2005 >
Audi: A3 2004 > with 7 speed gearbox (code 0 AM), Touareg 2003> with 6-speed gearbox (code 08 D)

APC00479

BMW DRIVE SHAFT NUT REMOVER AND INSTALLER TOOL SET



- Designed for installing and removing the screw nut between the rear drive axle and the differential. Also can be used to replace the seal of the differential shaft.
- OEM NO.: 335040, 230020, 335050, 335060, 335080
- Applicable: BMW RWD and 4WD series.

APC00572**DIFFERENTIAL BEARING PRELOAD SOCKET - CHRYSLER/DODGE**

- Used to set the differential bearing adjuster in Chrysler/Dodge vehicles with 7-1/4", 8-1/4", and 9-1/4" rear ends.
- OEM Ref. Miller tool C-4164

APC00667**VW DUAL CLUTCH GEARBOX RETAINING BAR**

- Used to remove or install the multi-plate clutch stack.
- Applications: VAG DSG 02E 6-speed transmission.
- Equivalent to OEM T10303

APC00802

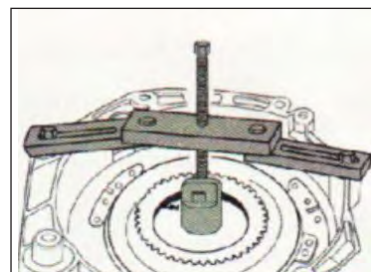
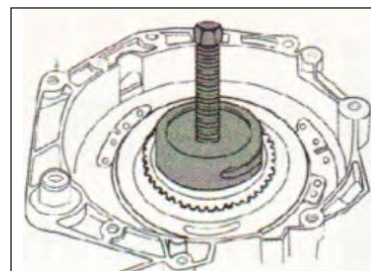
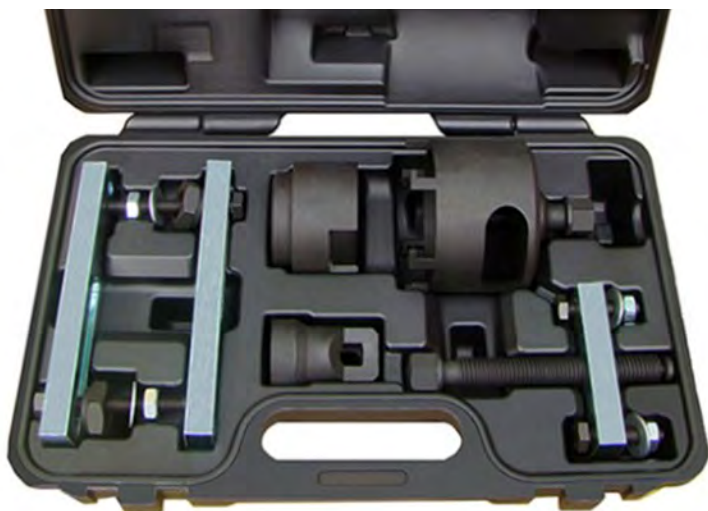
6PC CLUTCH ALIGNMENT TOOL KIT



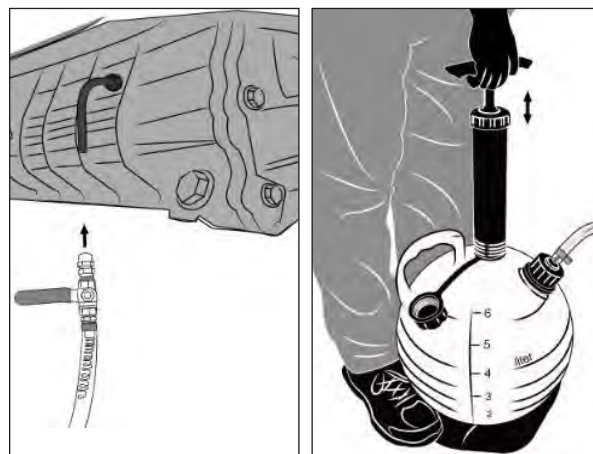
- General alignment kit for single or double disc clutches.
- Support close alignment by four-centering sleeves.
- Supplied with two mandrels which can be used with interior clutch hub 36-45 mm / 42-52 mm ID.
- Spigot adaptors: 20, 25, 27, 30 mm Dia.

APC00806

DSG CLUTCH REMOVAL KIT - VAG



- Allows safe removal and re-installation of the dual-clutch used in the VAG 7-speed gearbox.
- Equivalent to OEM T10323, T10373, T10374, T10376

APC00814
MANUAL ATF FILLING SET


- Refill ATF on automatic transmissions with manual type pressure tank.
- Nylon adaptors provide lightweight but durable features.
- Tank capacity: 6 liters.
- Adaptors applications: Audi, Cadillac, Chevrolet, Ford, Honda, Hyundai, Infiniti, Mercedes-Benz, Nissan, Toyota, Volkswagen, and Volvo.

APC00815
MERCEDES 9G-TRONIC TRANSMISSION DRAIN AND REFILL TOOL SET


- Special design for draining and refilling ATF on Mercedes-Benz 9G-Tronic transmissions.

1	Stick-type drainer	To turn overflow pipe to drain old ATF
2	Cup-type drainer	To hold small volume of old ATF when drain plug is released
3	Refill adapter	To refill new ATF by connecting to drain plug hole

APC00876

DRIVE SHAFT JOINT INSERTER



- Compress the circlip to fix the fixed joint.
- C-rings provide reliability and ensure assembly performance.
- The screw-type designed tool is ideal for compressing the circlip evenly.
- Max open range: 50 mm

APC09132

17PC CLUTCH ALIGNMENT TOOL KIT



- 16 pieces of SAE and Metric pilot bearing adapters serve most alignments of the clutch plate for assembly on vehicles: Audi, Opel, Fiat, Honda, Citroën, Mazda, Nissan, Mitsubishi, Peugeot, Renault, Rover, Saab, Vauxhall, Toyota, Volvo, and Volkswagen.



STEERING AND SUSPENSION SYSTEM SERVICE TOOLS

- STEERING SERVICE TOOLS
- TIE ROD AND BALL JOINT SERVICE TOOLS
- C.V JOINT SERVICE TOOLS
- SHOCK ABSORBER SERVICE TOOLS
- OTHERS

APD00001

BALLJOINT PULLER SET (SCREW TYPE)



- Application: Audi, BMW, Ford, Chrysler, Opel, Saab, Volvo, Volkswagen, Nissan, Toyota.
- Suitable for most types of vehicles.
- Sizes: 16 (DIA.) x 45(L) mm, 19 (DIA.) x 50(L) mm, 23 (DIA.) x 55(L) mm, 28 (DIA.) x 55(L) mm, 34 (DIA.) x 63(L) mm, 28(DIA.) x 74(L) mm, BMW 7 series, BENZ S series.

APD00002

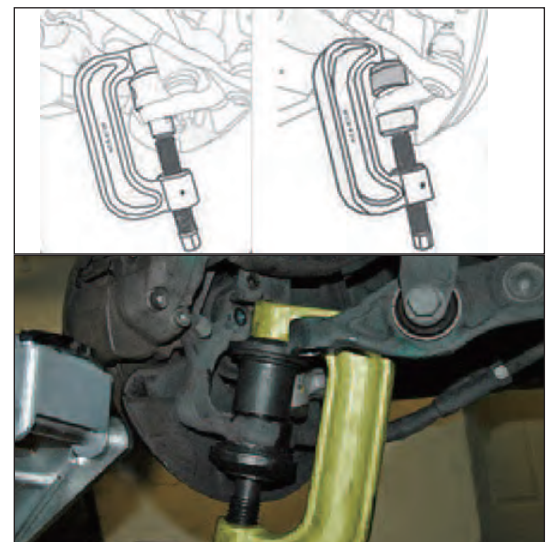
REAR TRAILING ARM BUSH TOOL KIT - FIAT



- For dismounting and mounting of the rear trailing arm bush.
- No need to change the entire trailing arm.
- Suitable for Fiat Panda 169 (2003~2012).
- Equivalent to OEM 51856881, 51856882, 51932971, 51932972

APD000003
HYDRAULIC PRESS TOOL SET FOR VOLVO

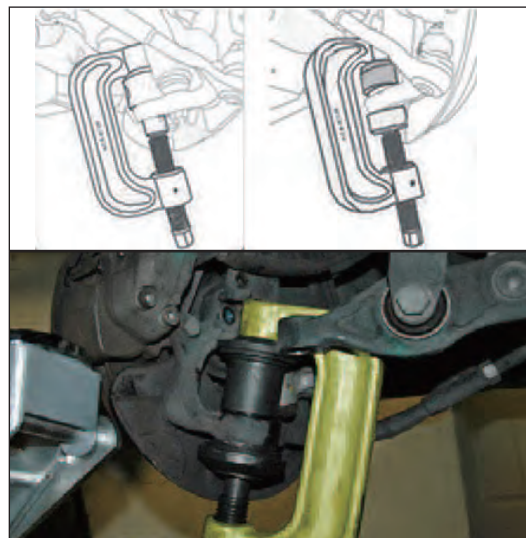
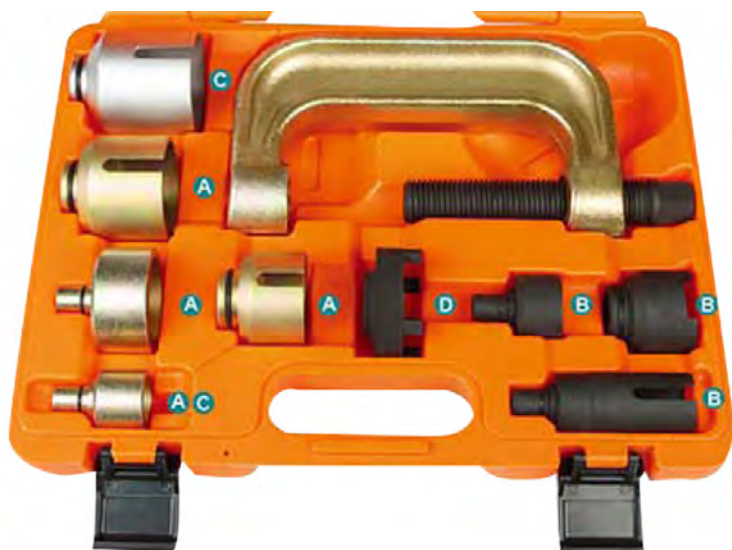

- Safe and quick removal enables for installation of ball joints on suspension.
- Ball joints can be replaced directly on the car without removing the wishbone.
- Heavily corroded ball joints also can be replaced easily.
- Suitable for VOLVO S40 / V40 front axle wishbone.
- Contents:
 - 17t hydraulic cylinder
 - 2 adapters
 - Press frame
 - M20 x 350mm long spindle
 - Press sleeve short: 38 mm and 54 mm
 - Press sleeve long: 50 mm and 54 mm

APD000004
MERCEDES BENZ BALL JOINT TOOL KIT


- 8 pcs of installation and removal tool kit for servicing of the specified ball joints in the Mercedes suspensions without removing arms or spindle.
- A: Front suspension ball Joint press fixtures for W211 / W215 / W219 / W220 / W(R)230 chassis.
- B: Front sway bar ball Joint (pressed into control arm) press fixtures for W211 / W219 / W220.

APD000005

MERCEDES BENZ BALL JOINT TOOL MASTER KIT



- 10 pcs of installation and removal tool kit for servicing of the specified ball joints in the Mercedes suspensions without removing arms or spindle.
- A: Front suspension ball joint press fixtures for W211 / W215 / W219 / W22Q / W(R)23Q chassis.
- B: Front sway bar ball joint (pressed into control arm) press fixtures for W211 / W219 / W220.
- C: Front & rear suspension ball Joint press fixtures for W163 / W164 chassis.
- D: Ball joint socket for servicing front & rear ball Joint on W163 / W164 chassis.

APD000006

LOWER SAIL JOINT SOCKET (PEUGEOT/CITROËN)



- Suitable for removal of OEM and aftermarket lower ball joints on Peugeot and Citroën.
- Size: 35mm(Φ51mm)

APD000007
LOWER SAIL JOINT SOCKET (PEUGEOT/CITROËN)


- Suitable for removal of OEM and aftermarket lower ball joints on Peugeot and Citroën.
- Size: 38mm(Ø60mm)

APD000008
BMW CAMBER ADJUSTING TOOL


- For setting front camber on the following BMW models: FT-997A: E38, E39, E46, E53, E65, E66, E67, E81, E83, E85, E86, E87, E90, E91, E92, E93; FT-997B: E60, E61, E63, E64.

APD00009

AUDI BALL JOINT TOOL



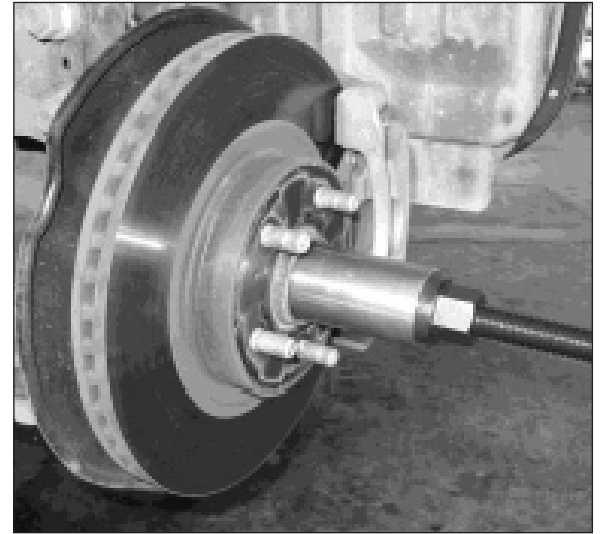
- For repair work of the front lower ball joint used on Audi A4/ A5/ A6/ A7/ Q5.

APD00010

20PC SLEEVE SOCKET SET



- For removing and installing bushings and bearings.
- Sizes: 62-80 mm (ID) and 70-88 mm (OD)
- Long sleeves are 110 mm in length and short sleeves are 40 mm in length.
- Suitable for trucks.

APD00011
DRIVE SHAFT INSERTION TOOL


- These vehicles have strict tolerances between the drive shaft splines and the wheel hub and must be used by special tools like DA-N1491 for assembly work.
- This insertion tool can be simple and quickly used, putting the drive shaft fitted into the wheel hub.
- With wide application in various specifications for the drive shaft.
- Mainly used for Volkswagen (TOUAREG, etc.), Audi, Mercedes, BMW, Porsche (Cayenne, etc.), Peugeot, Renault, Opel, Vauxhall, etc.
- Set Includes :
 - Shoulder nut
 - Housing outer $\Phi 39$ mm inner $\Phi 29$ mm
 - Housing outer $\Phi 46$ mm inner $\Phi 36$ mm
 - Spindle M16x1.5 inner thread
 - Spindle M18x1.5 inner thread
 - Spindle M20x1.5 inner thread
 - Spindle M22x1.5 inner thread
 - Spindle M24x1.5 inner thread
 - Spindle M27x1.5 inner thread
 - Spindle M30x1.5 inner thread
 - Spindle M14x1.5 outer thread
 - Spindle M16x1.5 outer thread

APD00015

BMW BALL JOINT PULLER



- Sizes: 24 mm, 27 mm, 31 mm, and 36 mm.
- For quick and easy separation of ball joint connections.
- Application: BMW E38, E39, E52, E53, E60, E61, E70, E83, E90, E91, E92, R50, R52, R53, PR1, PR2, X5.
- 24 mm can use for Mercedes E-CLASS(W211), CLS(W219), S-CLASS(W220) and SL(W230); PORSCHE 996; Audi A4 and A6 carrera lower suspension ball joint.
- 36mm can be used on BMW(E70).

APD00016

STEERING WHEEL PULLER SET



- Two special pullers in one set, including one flange type puller for removal of harmonic balancer timing gears and other parts with two or three tapped holes, and a steering wheel, pulley, and flywheel puller.

APD00017
TIE ROD END (BALL JOINT) BOOT INSTALLER


- Install passenger car tie rod end boots (press-in type).
- Can also be used for ball joint boots.
- Does not damage the boots.

APD00018
STEERING DROP ARM PULLER (LAND ROVER)


- This tool is designed to remove the steering drop arm from the steering box.
- Over time, the Steering drop arm and the steering box splines may corrode together, making it difficult to remove the steering drop arm.
- Using this tool will ensure your steering box splined shaft and oil seal will remain intact.

APD00019

STEERING DROP ARM PULLER (LAND ROVER)



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APD00020

STEERING WHEEL LEVEL



- This is a sturdy and simple tool used to assure a level steering wheel during a front-end alignment procedure.
- The tool can easily be attached to the steering wheel at the beginning of the alignment procedure.
- It is spring-loaded for automatic centering and self-retaining.
- Suitable for the inside diameter of the steering wheel from 154 to 355mm

APD00021**REAR TRAILING ARM SOCKET FOR HONDA/ACURA**

- For removing rear clearance arms on Honda Civic, CR-V, and Acura RSX.
- Special 10-point socket.
- Use with a 3/8" square drive.
- Heavy-duty construction ensures strength and durability.

APD00022**SPECIAL SHOCK ABSORBER RELEASE TOOL FOR MERCEDES - 3/8 INCH**

- Ideal tool for the assembly and disassembly of shock absorbers on V-class vehicles.
- Operation range from 7 mm to 21 mm for opening the cap nut.
- Application: Mercedes-Benz type 639 (Viana and Vito).

APD00023

INTERNAL COIL SPRING COMPRESSOR FOR SPRING DIAMETER 75MM TO 155MM



- Suitable for coil springs with internal diameter > $\Phi 75$ mm and external diameter < $\Phi 155$ mm.
- Special pins on the tool body engage with the grooves on the disc to establish a firm connection.
- Can be operated with an air/impact wrench.
- Breakpoint: 12,900 kgf (ca. 126,505 N)
- Max load: 6,525 kgf (ca. 64,000 N)

APD00024

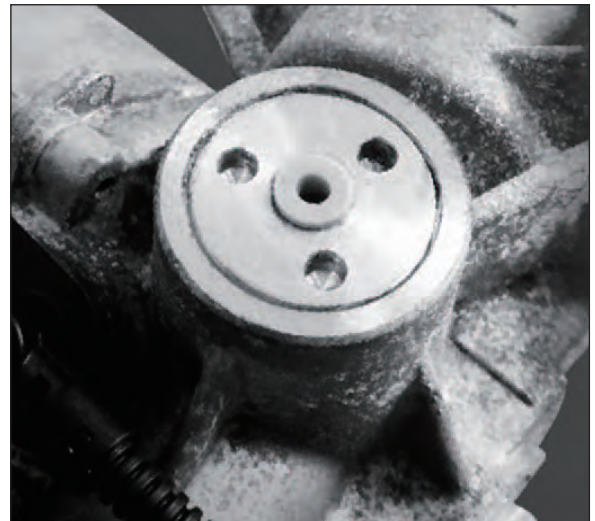
MACPHERSON DAMPER SPRING EXTRACTOR WITH REPLACEABLE JAWS



- Designed for compressing Macpherson shock absorber coil springs.
- Includes three pairs of C jaws for fitting various sizes.
- Jaw covers are RoHS certified, containing no SVHC materials.
- Includes an extension bracket for conical springs.
- Breakpoint 4,275 kgf (about 41,900N)
- Max load 1,710 kgf (about 16,760 N)

APD00026
BMW ELECTRIC POWER STEERING RACK SOCKET


- For installation and removal of Electric Power Steering rack adjusting screw.
- Suitable for BMW:
 - 1 series: E81, E82, E87, E88
 - 3 series: E90, E91, E92, E93
 - Z4: E89

APD00027
ELECTRIC POWER STEERING RACK SOCKET FOR BMW, MERCEDES-BENZ


- For installation and removal of Electric Power Steering rack adjusting screw.
- Suitable for BMW:
 - 1 series: F20, F21
 - 2 series: F22, F23
 - 3 series: F30, F31, F34, F35
 - 4 series: F32, F33, F36
 - X1: F48, F49* X3: F25
 - X4: F26
- Also, for Mercedes-Benz:
 - C-Class: W205* S-Class: W222, V222, X222

APD00028

44MM BALL JOINT SOCKET FOR PEUGEOT, CITROEN, TOYOTA



- Suitable for a range of Citroën, Peugeot and Toyota vehicles.
- Design allows the suspension joint center to pass through.

APD00029

VOLVO STRUT NUT SOCKET SET



- Used to remove and install the top shock retaining nut.
- Includes: a 10 mm holding socket and a 27 mm strut nut socket.
- Equivalent to OEM part number 9995468 and 9995469.

APD00030
SHOCK ABSORBER COUNTER HOLDING WRENCH


- Ideal for counter-holding rear shock absorber piston rods during assembly and disassembly at the strut.
- With two different key sizes 5 x 8 mm and 6 x 9 mm.
- Suitable for Volkswagen, Audi, Ford, Opel, Vauxhall, Japanese cars, etc.

APD00031
INTERNAL COIL SPRING COMPRESSOR


- Suitable for coil springs between $\Phi 75$ mm and $\Phi 155$ mm.
- Can be operated with an air/impact wrench.
- Application: Audi, BMW, Citroën, Fiat, Ford, Hyundai, Mercedes-Benz, Nissan, Opel, Peugeot, Renault, Volvo and Tesla Model 3.

APD00032

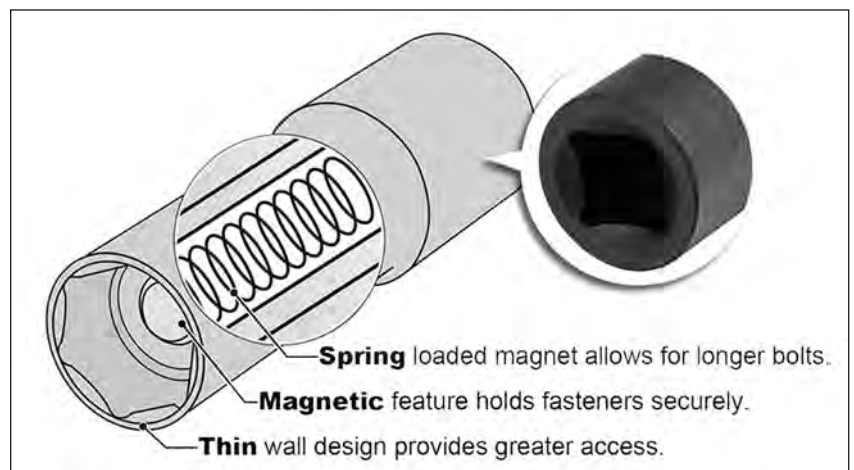
STRUT SUPPORT TOOL FOR MCPHERSON



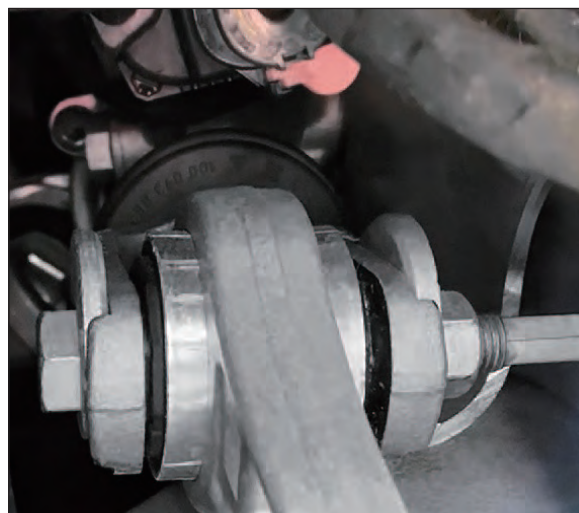
- Used to support and secure the strut when working on suspension units.
- To prevent the strut from moving downwards when dismounting from the suspension arm.
- Use a transmission jack fitted with a 30mm diameter top shaft.

APD00033

TESLA STRUT MAGNET NUT SOCKET - 13MM



- Used to remove and install the front strut mounting nuts on Tesla Model 3.
- Spring loaded allows for longer bolts.
- Use with a 3/8" square drive.
- Similar to OEM Ref. 1467109-00-A

APD00034
REAR TOE ADJUSTMENT TOOL FOR PORSCHE/AUDI


- Specially designed to adjust the toe on the rear axle.
- Suitable for Porsche Taycan 2020~, Audi e-Tron GT 2021~
- OEM Ref. T90009

APD00035
BALL JOINT SOCKET FOR RENAULT


- For removing and installing screw-in type front lower ball joints.
- Size: 1/2" square drive x 40mm long
- Application: Renault Twingo II Sport 133 (2007 - 2014).

APD00036

PITMAN ARM SPREADER



- Safely and efficiently remove pitman arms on 2-ton and larger trucks.
- High-strength pulling arms adjust to fit various pitman arm widths.
- Eliminates dangerous hammering and cutting torch methods.
- Can be used with a 1/2" impact tool.
- Simple to slip on for instant results.
- Application: Commonly found on class 3-8 trucks and equipment.
(Ram 3500/5500, Chevrolet 3500/5500, Ford F-350/550, Isuzu NPR, Kenworth, Peterbilt, Freightliner, Mack, Volvo, etc.)

APD00039

PITMAN ARM PULLER FOR SHEPPARD M100



- Easily and safely removes difficult or seized pitman arms from M100 steering gears of class 6-8 vehicles.
- Applicable to highway transportation vehicles, buses, RVs, and equipment.
- Can be used with an impact gun (up to 3/4").

APD00040
SUBARU BALL JOINT PULLER


- Remove the stubborn front suspension ball joints for Subaru/Saab Vehicles.
- 19mm (3/4") hexagon drive spindle can be turned with a wrench or impact wrench.
- Applications:
 Impreza (1993-2014), Forester (1998-2015), Legacy (1994-2014), Outback (1994-2014), Baja (2003-2006), and Saab-9-2X (2005-2006).

APD00041
MASTER INNER TIE ROD TOOL KIT


- The inner tie rod can be removed and installed without removing the rack.
- The long socket slips over the tie rod end and the crowfoot engages on the socket for easy removal and installation.
- Crowfoot adaptors are nickel plated for durability.
- Includes 12 sizes of crowfoot style adaptors: 1-3/16", 1-1/4", 1-5/16", 1-3/8", 1-7/16", 1-1/2", and 29mm, 32.5mm, 33.6mm, 38.4mm, 40mm, 42mm.
- The tube handle's inner diameter is 2.125" to service small cars, pick-ups, and SUVs.

APD00042 、 APD00043 TOE MEASURING GAUGE



- Easily adapts to a variety of tread widths to give fast and accurate toe readings.

Part No.	Specification
APD00042	102-174CM
APD00043	84-136CM

APD00109 UNIVERSAL SUPPORT HOOK



- This tool can be the third hand to hold the steering knuckle or brake caliper.
- Can prevent the oil pipe or wire be tearing.
- Range: 200 ~ 520 mm

APD00145
3/8" DRIVE STEERING RACK SOCKET


- Allows steering rack to remain in the vehicle for repairs without using a screwdriver and hammer, preventing damage when using 3/8" square drive tools.
- Removing and installing cylinder end stopper on '04-'09 Lexus RX330 and RX350
- Material: Carbon Steel

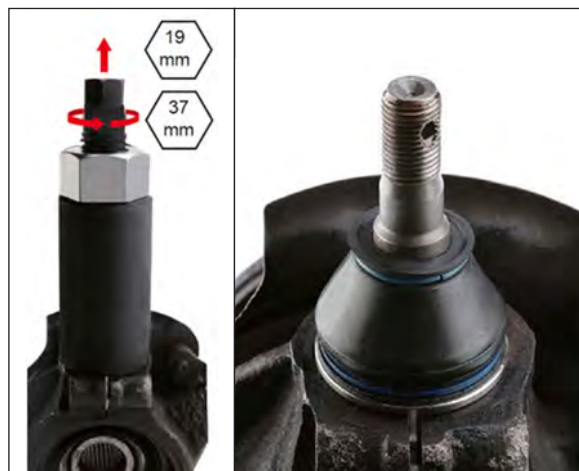
APD00183
CAMBER ADJUSTING TOOL (VAG)


- Special 18 mm offset wrench for adjustment of rear axle camber.
- OEM Ref. T10179

VW	Caddy 2004 ; Eos 2006 ; Golf 2004 ; Golf 2009 , Golf Plus 2005 ; Jetta 2006 ; Passat 2006 ; Passat CC 2009 ; Polo 2002 ; Polo 2010 , Scirocco 2009 ; Sharan 1996 ; Tiguan 2008 ; Touran 2004
Audi	A3 2004 ; Audi A4 2001 , Audi A6 2005 ; Audi A8 2003 ; Audi TT 2007
Skoda	Octavia II 2004 > ; Octavia III 2013 > ; Superb II 2008 > ; Yeti 2009 > , Citigo 2011 >
Seat	Alhambra 2011 -> ; Alhambra ; Altea 2005 ; Toledo 2005 ; Ibiza02/Córdoba03 , Leon 2006 , AlteaXL 2007 ; AlteaFreetrack 2007 , Ibiza 2008 -> ; Altea 2009 ; Leon 2009 ; Altea XL 2009 ; Altea Freetrack 2009 ; Toledo 2013 ; León 2013 ; Ateca

APD00397

SUBARU & SAAB - BALL JOINT REMOVAL TOOL

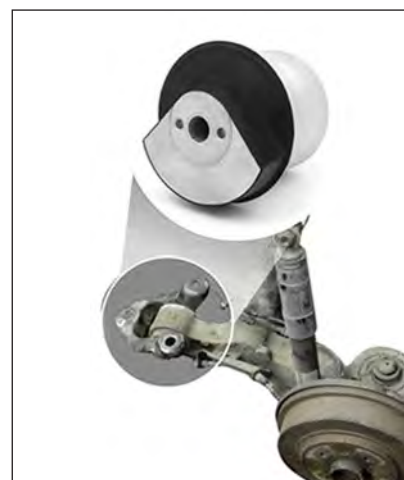


- Remove the front stubborn suspension ball joints for Subaru, and Saab vehicles.
- Will not damage the suspension knuckles and will also save time.

Subaru	
Outback	1994~2014
Forester	1998~2015
Impreza	1993~2014
Legacy	1994~2014
Tribeca	2006~2012
Baja	2003~2006
Saab	
9-2X	2005~2006

APD00399

OPEL & VAUXHALL - REAR AXLE BEAM BUSH TOOL SET



- Used for disassembly and assembly of the rear axle beam bush.
- In a car solution - no need to remove the suspension arm.
- Suitable for Opel/Vauxhall Astra H (2004-2014), Meriva B (2010-), Zafira B (2005-2014).
- OEM ref.: Opel/Vauxhall/GM 5402637, 0402952, 402952, 13110418, 13267215

APD00573
CASTER CAMBER ADJUSTING TOOL - GM

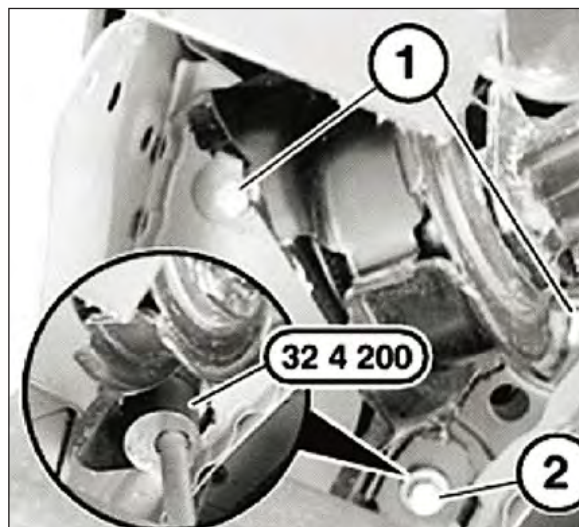

- Designed to adjust the upper control arm cams on GM vehicle platforms - GMT 600, GMT 800, and GMT 900.
- The adjusting tool surrounds the entire perimeter of each cam to provide a solid non-slip device to reach the hard-to-reach and often rusty OE cams.

Chevrolet		GMC	
Avalanche	2007-2013	Canyon	2004-2012
Avalanche 1500	2002-2006	Savana 1500	2003-2014
Avalanche 2500	2002-2006	Savana 2500	2003-2015
Colorado	2004-2012	Savana 3500	2003-2015
Express 1500	2003-2014	Savana 4500	2009-2015
Express 2500	2003-2015	Sierra 1500	1999-2015
Express 3500	2003-2015	Sierra 1500 Classic	2007
Express 4500	2009-2015	Sierra 2500	1999-2010
Silverado 1500	1999-2015	Sierra 2500 Classic	2007
Silverado 1500 Classic	2007	Sierra 3500	2001-2010
Silverado 2500	1999-2010	Sierra 3500 Classic	2007
Silverado 2500 Classic	2007	Yukon	2000-2015
Silverado 3500	2001-2010	Yukon XL 1500	2000-2014
Silverado 3500 Classic	2007	Yukon XL 2500	2000-2013
Suburban 1500	2000-2014	Cadillac	
Suburban 2500	2000-2013	Escalade	2002-2014
Tahoe	2000-2015	Hummer	
		H2	2003-2009

APD00591

REAR TOE ADJUSTMENT TOOL - MINI COOPER

1/2"
dr.



- On 1st generation MINI Coopers (2002~2006), the rear toe angle is adjusted by moving the forward central arm bushing mount with the special tool 32 4 200.
- On 2002~2006 models, the rear toe is adjusted by an eccentric bolt and plate that secures the lower transverse link to the trailing arm. After the three mounting bolts are loosened, the central arm has slotted holes for movement.

APD00606

3PC COIL SPRING CLAMP SET

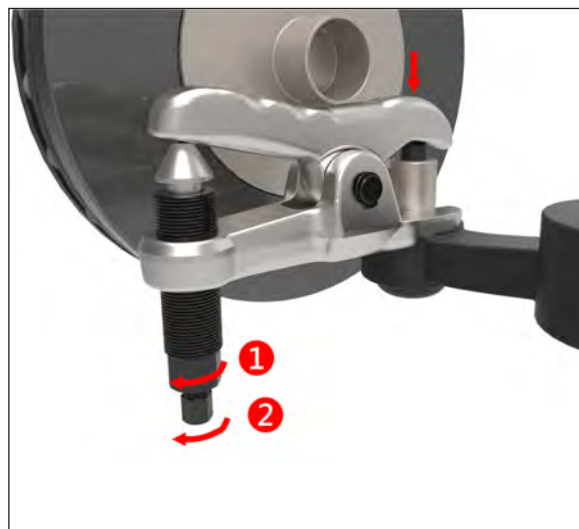


- Lead screw manufactured from carbon steel hardened and tempered with 1/2" Sq. Dr. facility.
- Cast steel claws with safety hooks to prevent accidental release.
- Suitable for most cars and light vans.
- Reversible for left or right handed use.

3pcs Coil Spring Clamp Set



A: Coil Spring Clamp x3 pcs
B: Oil Bottle x1 pcs

APD00710
HYDRAULIC BALL JOINT SEPARATOR


- Hydraulic ball joint separator - 8 tons.
- Jaw opening 56mm, Jaw width 22mm.
- Fork body manufactured from scm440.
- Spindle's maximum torque pressure is 40N-m.

APD00735
SHOCK PRELOAD ADJUSTING TOOL


- Size range: 35mm to 75mm
- Soft grip handle.
- Use to adjust the preload spring collars without damage.

APD00761

2-WAY HEAVY-DUTY CV BOOT BAND PLIERS



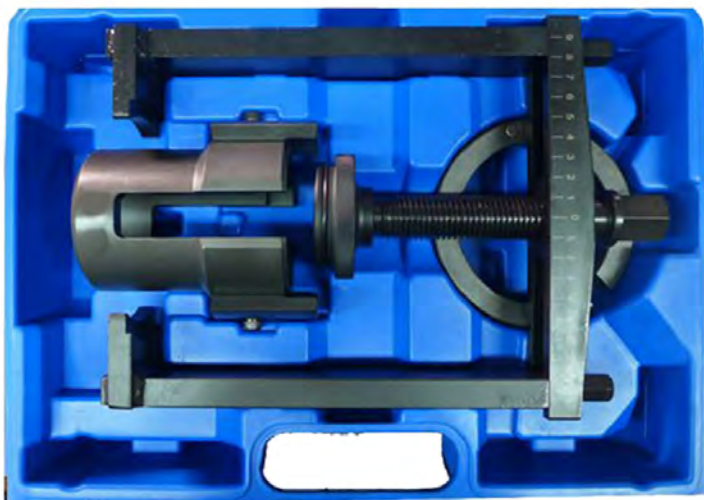
- For assembly of new stainless steel clamp bands on drive-shafts where a torque setting is required.
- Use with 3/8" drive torque wrench.
- Patent design head, one side for straight bend and the other side for 90 degrees bend.

APD00771

CAMBER ADJUSTING TOOL - VW/MERCEDES BENZ



- For the hard-to-access shock absorber screw connection.
- Suitable for Volkswagen Crafter and Mercedes-Benz Sprinter.

APD00801
TRAILING ARM BUSH TOOL - FORD


- For easy removal and replacement of the rear trailing arm bushes without disturbing the trailing arm completely from the vehicle.

APD00803
FRONT SUSPENSION SHOCK ABSORBER TOOL - VOLVO


- The tool is designed specially for separating subframes and shocks.
- Equal to OEM No.9997256
- Applications: S80 (99-06), S60 (01-10), XC60 (09-), XC70 (02-07), V70 (00-07), XC90

APD00804

AIR-POWERED CV BOOT INSTALL TOOL



- Installs flexible steering and CVJ boots without removing the axle from the vehicle or the CV joint from the axle.
- Material: Aluminum steel.
- Capacity: $\Phi 25-110\text{mm}$

APD00893

HEAVY-DUTY COIL SPRING COMPRESSOR



- Adjustable safeguard prevents accidental release of spring.
- Hooks grip springs tightly by turning hex nuts.
- Wide jaw capacity: 23 mm - 280 mm



BRAKE AND WHEELS SYSTEM SERVICE TOOLS

- BRAKE SERVICE TOOLS
- WHEEL AND TYRE SERVICE TOOLS
- TESTERS AND GAUGES
- OTHERS

APE00001

BRAKE LINING THICKNESS GAUGE



- Color coded brake gauge identifies thickness levels for lining inspection green (8, 10, 12mm), yellow (4, 5, 6mm), red (2mm & 3mm), Inches green (.3150 to .4720), yellow (.1575 to .2382), red (.0787 to .1181)
- Material : plastastic (ABS)

APE00002

20PCS BMW WHEEL BOLT LOCK SET



- Applicable for installing and removing locks of BMW F series
- Contents: #41, #42, #43, #44, #45, #46, #47, #48, #49, #50, #51, #52, #53, #54, #55, #56, #57, #58, #59, #60
- This tool enables you to permit servicing of customer vehicles, even customer has lost the key
- Suitable for AUDI vehicle

APE00003
BRAKE DISC RUN-OUT KIT


- Quickly and easily for check for ball joint wear and brake disc runout
- The pliers may facilitate the clamp , and enables tdi to be possible to use in various angles
- Kit includes metric calibrated dti gauge

APE00004
DISC BRAKE SPREADER KIT (3 SIZE)


- Plates size: 88 x 57mm 、 125 x 77mm 、 150 x 87mm
- Capacity Gover 150mm (0-170mm)
- The tool is designed to provide an applicable way for the most 1 、 2 、 3 、 4 、 6 、 8 pistons brake caliper service work that includes Mercedes-Benz S-class BMW 7-series , Porsche , Racing cars.

APE00005

BRAKE SPRING PLIERS



- Suitable for Merced A-Class(e.g. A140), CITROEN, RENAULT, PEUGEOT with LUCAS drum brake on the rear axle.
- Also suitable for LAND ROVER, Ford, HONDA, etc.
- To remove and install the brake shoes.
- The brake shoe retaining spring must be pre-tensioned.

APE00006

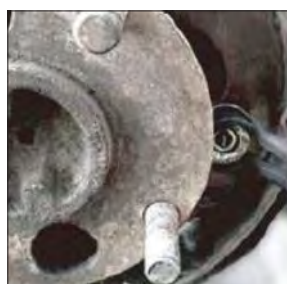
WHEEL NUT CAP PLIERS



- Solid, hard to reach caps of wheel bolts / nuts pull off without damage and fast.
- Enables the damage-free removal of wheel nut caps on aluminium rims.
- The pliers jaw tips are especially shaped for the nut caps.
- Suitable for : Audi, VW and OPEL, etc.

APE00007
WHEEL BEARING MOUNTING SLEEVE SET

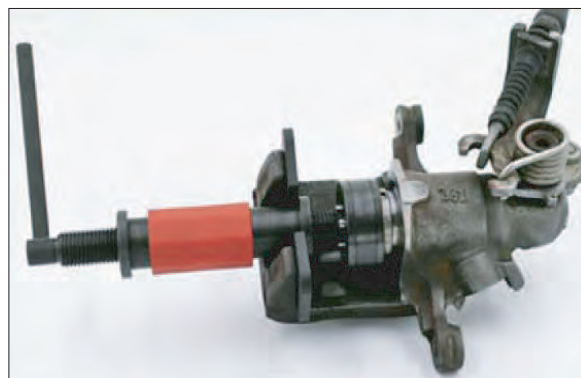

- For vehicles with wheel bearings integrated in the brake disc or drum.
- No damage to the integrated wheel bearings.
- Quick and secure mounting.
- Suitable for RENAULT, PEUGEOT, CITROEN, OPEL, NISSAN, etc.

APE00008
UNIVERSAL DRUM BRAKE SPRING WASHER PLIERS


- Provides universal application for nearly all drum brakes .
- Work on drum brake hold-down retaining spring washers.

APE00009

ADJUSTABLE BRAKE CALIPER REWIND TOOL KIT



- For rewinding the brake piston back into the caliper .
- Adjustable 2 / 3 pin adapter & LH / RH screw thread for a wide variety of vehicles.
- Adjustable 2 pin adapter for hundreds of cars .
- Adjustable 3 pin adapter for Electric Park Brake (EPB).(VAG, BMW, VOLVO, LAND ROVER, RENAULT, IVECO, etc.)

APE00010

WHEEL STUD ALIGNMENT GUIDE TOOL



- Product Specifications/Features :
Assists when mounting wheels, especially late*Models with long lug bolts
- Applicable : all Mercedes models with lug bolts
- Size : 12 mm x 1.25, 12 mm x 1.5, 12 mm x 1.75, 14 mm x 1.25, 14 mm x 1.5, 16 mm x 1.5 & Inner hole thread 12 mm x 1.5

APE00011
WHEEL VALVE CORE TORQUE TOOL


- Installs properly and removes valve cores
- Persistent fastening for quality control
- Audible click at achieved torque with automatic reset
- Helps prevent valve core leaks causing low tire pressure & TPMS alerts
- Preset torque with two-value display for in-lb and N.m.
- Range : 0.35 Nm (3 in-lbs) / 0.45 Nm (4 in-lbs)
- Air valve of wheel
- Length : 150mm

APE00012
WHEEL VALVE CORE TORQUE TOOL


- Installs properly and removes valve cores
- Persistent fastening for quality control
- Audible click at achieved torque with automatic reset
- Helps prevent valve core leaks causing low tire pressure & TPMS alerts
- Preset torque with two-value display for in-lb and N.m
- Range : 0.45 Nm (4 in-lbs) / 0.35 Nm (3 in-lbs)
- Extension rod to reach air valve in the depth
- Length : 155/245mm

APE00013

FLEXIBLE HOSE CLAMP 2 & 3 PIN BRAKE PISTON REWIND BACK TOOL BRAKE PEDAL & THROTTLE PEDAL DEPRESSOR



- A1. Hose clamp tool reaches to the tightest of places where radiator hoses are located without having to guide with your hand!!
- A2. Flexible rigid shaft holds position, and helps to obtain those difficult positions
- A3. Locking arm to keep hoses locked in open position
- B1. The ergonomic tool designed to push and wind back brake calipers. By fast and simple one handed use.
- B2. The adapters enable the tool to work on most common calipers.
- B3. Suitable for use on either way handed wind back calipers.
- C1. This tool kit allowing any test that requires the brakes or throttle to be applied to be carried out by one person rather than two.
- C2. Attaches to steering wheel and depresses throttle pedal.
- C3. Quickly adjusts RPM to desired setting.
- C4. Saves time on air conditioning work, fuel injection cleaning, cylinder balance tests and tune-ups.
- C5. Tool is 750mm in overall length.

APE00014
7.8.9.10.11MM BRAKE BLEEDER WRENCH WITH CHECK VALVE


- Size: 7.8.9.10.11mm
- Built-in wrench & socket into one convenient makes loosening and tightening easy.
- Ideal for bleeding brake system and hydraulic clutch system without removing the wheels.
- 1.2M silicon hose with check valve for safety operating.
- For universal bleeder nipples.
- High quality material internal seal for long life.

APE00015
BRAKE CALIPER REWIND TOOL KIT - ADJUSTABLE


- For rewinding the brake piston back into the caliper
- Adjustable adaptor fits most of vehicles
- Innovative left and right screw thread that increases the number of vehicles
- Pins will take up to 50Nm torque. Replacement pins

APE00016

21PC WHEEL LOCKING NUT (BMW SERIES)



- Contents: #30/13PT, #31/15PT, #32/16PT, #33/17PT, #34/18PT, #35/19PT, #36/20PT, #37/21PT, #38/22PT, #40/23PT, #11/15PT, #12/14PT, #13/16PT, #14/12PT, #15/11PT, #16/10PT, #17/7PT, #18/13PT, #19/8PT, #20/9PT
- 1/2" DR H17 impact socket

APE00017

AIR LINE DISCONNECT PLIERS



- Disconnect the air line quick connector on heavy duty vehicle air brake system.
- Easy loosening of air lines with diameters 6, 8, 10, 12mm
- Ideal for the straight air line quick connector.

APE00018
20PC WHEEL LOCKING NUT (VW SERIES)

■ Contents:

#521, #522, #523, #524, #525, #526, #527, #528, #529, #530, #531, #532, #533, #534, #535, #536, #537, #538, #539, #540

APE00019
BRAKE PRESSURE BLEEDER SET


- Easy operation on brake bleeding by pressurizing the brake system.
- 3-liter / 3.17-quart tank with a safety pressure relief valve.
- Includes a standard European adaptor with a swivel 90 X fitting to tackle limited space.
- Provided with a 1 liter / quart old brake fluid reservoir bottle.

APE00020

6PC BRAKE BLEEDER ADAPTOR SET



- Designed for applications on master cylinder reservoirs from 2001 to 2020.
- Aluminum adaptor holds pressure up to 3.5 bar/ 50 psi.
- Unique arm-type adaptor to secure on-car fitment.
- Most adaptors have a swivel 90 X fitting to tackle narrow space problems.

APE00021

UNIVERSAL BRAKE REFILLING ADAPTOR



- Specially designed with a 90 X rotating coupling fits almost all vehicles.
- Fits master cylinder filler neck between
Ø28-70mm(1.10" -2.75")
- Maximum pressure up to 3.5 bar (50 psi)

APE00022
BRAKE CALIPER SPRING TOOLS


- The tool provides an efficient way to take out a corroded spring from the gap in the caliper.

APE00023
23PC WHEEL LOCKING NUT (VAG SERIES)

■ Contents:

#51/6PT, #52/7PT, #53/8PT, #54/9PT, #55/10PT, #56/11PT, #57/18PT, #59/14PT, #60/15PT, #61/16PT, #62/17PT, ABC0/10PT, ABC1/11PT, ABC2/13PT, ABC3/14PT, ABC4/15PT, ABC5/16PT, ABC6/17PT, ABC7/19PT, ABC8/20PT, ABC9/21PT

APE00024

20PC BMW WHEEL LOCK SCREW SOCKET SET



■ Contents:

#41, #42, #43, #44, #45, #46, #47, #48, #49, #50, #51, #52, #53, #54, #55, #56, #57, #58, #59, #60

APE00025

20PCS VAG,PORSCHE WHEEL SCREW LOCK SOCKET SET



- Applicable for installing and removing locks of most vag and porsche models
- Contents: #50, #51, #52, #53, #54, #55, #56, #57, #58, #59, #60, #61, #62, #63, #64, #65, #66, #67, #68, #69
- This ool enables you to permit servicing of customer vehicles, even customer has lost the key
- Vm number: T10190

APE00026
TIRE TREAD DAPTH AND BRAKE PAD THICKNESS GAUGE


- Used for measuring thickness of brake pad
- Used for measuring depth of tire tread

APE00029
VACUUM BRAKE FLUID BLEEDER 1L


- Use standard workshop air supply.
- Transparent drain hose allows visual inspection of old fluid extraction.
- Features a convenient hanging hook and locking trigger that allows for hands free operation.
- Capacity : 1 L
- Working pressure: 70 to 110 psi*
- Suitable for most vehicles.

APE00030

AUTO-AIRCHUCK ADAPTER



- Innovative auto securing design to ensure simple and robust valve connection without any leakage.
- High pressure pop-out prevention to ensure operational safety.
- The air chuck can rotate 360 degrees for better operational flexibility.
- The air chuck has a L-shape design to enable an easy connection with hard-to-access tyre valves for improved flexibility.

APE00031

ON CAR BRAKE DISC MEASUREMENT GAUGE



- Design to measure the thickness of the brake with the wheel still on the vehicle
- Time saver without needing to removing the wheels or strip the brake first
- Must be with Vernier caliper

APE00032
UNIVERSAL BRAKE PISTON RESET DISCS


- Adjustable Brake Piston Reset Discs
- Professional reset of the rear axle brake pistons.
- The exact distance of the rotating disc adapts automatically to the bores of the brake piston by tuning the basic unit of the disc
- Repair almost every car with these two discs
- Time saver

APE00033
2 & 3 PIN BRAKE PISTON REWIND BACK TOOL FOR CLOCKWISE/ COUNTER CLOCKWISE


- This tool kit allows to rewind the pistons into brake calipers
- Able to push piston back into caliper simultaneously
- Spindle spanner and sleeve for anti-tooth screw according to the factory operation
- Fits most of cars including Alfa Romeo, Audi, Citroen, Ford, Honda, Jaguar, Land Rover, Mazda, Mercedes, Mini, Mitsubishi, Nissan Lancer, Toyota, VW, Volvo, Vauxhall and others

APE00034

BRAKE FILLING ADAPTER SET (5 PCS)



- Adapter kit for fitting brake master cylinder caps to introduce brake fluid connected from brake service machines
- Includes 3 specific adapters and 1 universal adapter with a fastening chain
- E20 adapter with a 90 degree extension hose and free rotation feature provides unrestricted access to limited spaces
- E20 extension hose made of brake fluid resistant materials
- Uses standard European shop air connector for easy connect-ability

APE00035

3PC 1/2" DR. POWERFUL 3 COLOR DEEP UNIVERSAL SOCKET SET



- Mateaal : CR-MO
- Contents : 17mm, 19mm, 21mm

APE00036
3PC 1/2" DR. POWERFUL TIRE DEEP UNIVERSAL SOCKET SET


- Mateaal : CR-MO
- Contents : 17mm, 19mm, 21mm

APE00037
TOYOTA FRONT HUB NUT SOCKET


- This tool is designed for removing drive pulleys with face grooves
- The tool removes a pulley absolutely free of any risk of damage
- The tool is adaptable to different pulley diameters, as the legs are adjustable
- For removing pulleys with 3, 6, 9 slots
- Surface finish : chrome plated, screw blackened

APE00038

DODGE WHEEL HUB REMOVAL ADAPTOR



- The adaptor is designed to take off the front hubs found on the 3/4 ton(2500 series) and 1 ton(3500series) DODGE pick up trucks
- The sdaptor was designed to cut the flat rate for changing out U joints,front differential service,ball joints and any front hub service
- The adaptor works on both 6pt fasteners for newer models and 12pt fasteners found on older DODGE trucks

APE00039

WHEEL BEARING CIRCLIP PLIERS



- The special design of the pliers' tips enable the easy removal and replacement of wheel bearing circlips without eyelets
- Professional removal and replacement of wheel bearing circlips are almost impossible without this special tool

APE00040
WHEEL LOCK / LUG NUT REMOVAL SET

Instruction :
■ Before Use :

Degrease the inner surface of the socket rough up the inner surface of socket from time to time with a sanding paper for example.

Use the tool in an ambient temperature of more than 20°C do avoid that sockets will crack.

Heat up the sockets in low ambient temperature until they are lukewarm.

■ Removal

The socket you intend to use should fit the related wheel lock approx. half the way over the head.

Please try several sockets until you figured out the related one.

As the sockets are conical you are in the position to match any wheel lock by reducing the length of the socket individually with a sanding paper for example.

Center the socket and hit it with the enclosed rod by using a 1.000 gr hammer until the socket is blocked on the wheel lock.

The socket and the blocked wheel lock can now be unscrewed with a regular wheel wrench.

Do not use an impact wrench.

In case that the socket loose the grip to early, please repeat the first step and hit the socket on the wheel lock again.

Afterwards you can release the wheel lock from the socket by using the related enclosed rod.

Please refer to the illustration on the right side for better understanding.

■ Special Circumstances :

Extremely tight wheel locks could be handled by loosen the other wheel bolts and tighten them afterwards with a slight increase torque (approximate 130 - 140 Nm).

This will produce a tension which should make it more easier to unscrew the wheel lock as described on the previous page.

On older 3 pin systems with rotating outer ring you need to remove or block them first.

The 4 pin systems have a very flat collar but less space to handle.

Here you need to grind the most convenient socket to the required length.

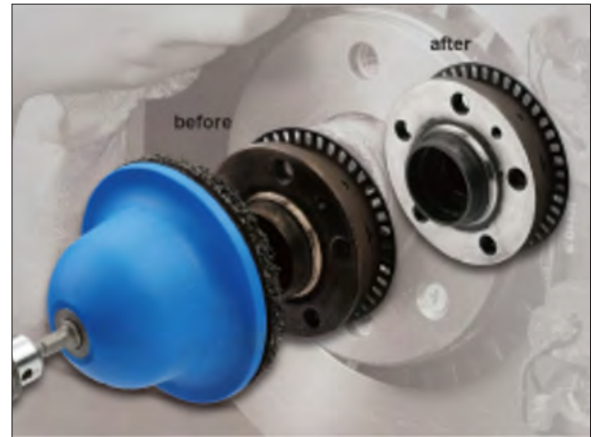
If necessary you also need to grind the outside surface of the socket to make the wall strength thinner.

Be careful with this and always check in-between to avoid that the strength of the socket is too thin and will crack.

Colored wheel locks are slippery. Simply hit the socket slightly two or three times on the wheel lock until the paint is worn.

APE00041

WHEEL HUB GRINDER



- For cleaning the wheel centering device as well as the attachment area between the wheel and hub
- Corrosion between the rim and the wheel hub is removed and torque value can no longer be distorted

APE00042
TOYOTA REAR PARKING BRAKE SPRING TOOL


- This application requires a smaller brake spring tool with more reach
- Special tip is designed to engage the shoe hold down spring cup on TOYOTA vehicles
- For 2000-current TOYOTA Camry, Tacoma, Tundra, FJ Cruiser, 4Runner, and Land Cruiser

APE00043
TOYOTA REAR PARKING BRAKE SPRING TOOL


- To use for controlled change of wheels on cars and all other purposes that require a torque wrench.
- Adjustable torque wrench 1/2 shaped in the style of a cross wrench.
- Torque Range: 70 to 170NM
- The set includes:
 - 1 x Adjustable torque wrench
 - 3 x Sockets of 17, 19 and 21mm

APE00047

UNIVERSAL BRAKE CALIPER REWIND KIT



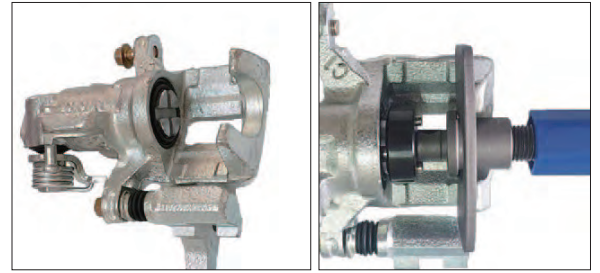
- Lockable and adjustable drive pins are suitable for most caliper pistons on the vehicles.
- Features with spring function to make the tool fix in the caliper while rotating task.
- Two-way rotation spindle can be used on both right and left rotation.

APE00048

UNIVERSAL VACUUM BRAKE FLUID BLEEDER SET



- Vacuum brake bleeder with new fluid supply bottles.
- New fluid bottle adaptor set for different master cylinder designs.
- Unique rubber joint for fluid extraction (avoids leaks).
- Removes fluid via bleed nipples to allow bleeding or entire fluid replacement.
- Specifications:
 - Capacity: 1L.
 - Fluid supply bottle: 700ml.
 - Adaptor sizes: 21 to 30mm, 24 to 32mm, 28 to 37mm, 32 to 41 mm.
 - Power: Air vacuum.

APE00058
BRAKE CALIPER PISTON REWIND TOOL KIT FOR TESLA


- Designed for Tesla rear brake caliper piston rewind.
- Enables retraction of piston as fitted to type brake callipers allowing new brake pads to be installed.
- Supplied with both left and right-handed winders.
- Contents:
 - 1pc Rotating caliper with 3/8" Drive (Right and Left side threaded allow)
 - 1pc Backing pads
 - 2pc Adaptors for brake assemblage

APE00059
10PC WHEEL LOCK LUG NUT SOCKET SET FOR TESLA


- For installing and removing locks of TESLA series.
- Contents: #76, #77, #78, #79, #80, #81, #82, #83, #84, #85
- Enables to permit servicing of customer vehicles, even when customer has lost the key.

APE00060

TYRE TREAD DEPTH GAUGE



- Used to measure tire profile depth.
- Measuring depth 30mm
- Graduation in 0.1mm steps to accurately determine the tread depth.

APE00065

TYRE REPAIR TOOLS



- Tyre repair tools give a simple way to repair or change a tyre.
- T handles are made of heavy duty steel which gives greater comfort and maximum turning power during inserting and rotating.
- There is a sharp blade for cutting wires.
- Contents:
 - 2pc T handle, 2pc Screw drill, 2pc Tyre plug tool
 - 5pc Rubber strip, 1pc Rubber glue
 - 2pc Hex wrench, 1pc Sharp blade

APE00066
TYRE REPAIR KIT


- Tyre repair kit provides an effective way to repair or change a tyre.
- T handles are made of heavy duty steel which gives greater comfort and maximum turning power during inserting and rotating.
- Features with steel canisters containing 16 grams of 100% pure high-velocity CO2 gas.
- Contents:
 1pc T handle screw drill, 1pc T handle tyre plug tool, 5pc Rubber strip, 1pc Valve adaptor, 3pc CO2 cartridges, 1pc Cryo gloves, 1pc Rubber glue, 1pc Sharp blade

APE00067
WHEEL HUB NUT SOCKET


- Suitable for the removal of front wheel hub castle nut on Iveco Daily 35.
- Use with 1/2" square drive with 4 teeth profile.
- Applications: Iveco Daily 35C/ 35S from 2014.
- Equivalent to OEM part number 99355185.

APE00068

MERCEDES-BENZ HAND BRAKE SHOE RETAINING SPRING TOOL



- For easy removal and fitting of the shoe retaining clips on the hand brake shoes.
- Allows easy access to the retaining clips behind the rear drive flange.
- Suitable for Mercedes-Benz V-Class(Vito, Viano):
 - Type 638(1996 to 2003)
 - Type 639(2003 to 2014)
 - Type 447(from 2014)

APE00070

WHEEL STUD INSTALLER SET



- Ensure that the stud is installed at the correct angle.
- Include a bearing seat and nut.
- Sizes:
 - 7/16"x20 UNF
 - 1/2"-20 UNF
 - M12x1.25
 - M12x1.5
 - M12x1.75
 - M14x1.5

APE00071
BRAKE DISC MEASURING TOOL SET


- For measuring radial and axial offsets of brake disks, wheel hubs, etc.
- Transverse arm, for fixing dial gauge to obtain accurate measurement results.
- The 3-point clamp can be safely installed on the shock absorber.
- Includes dial gauge and micrometer for identifying wear limit.

APE00072
9 POINT HUB NUT SOCKET


- Install and remove the axle hub bearing retaining nut.
- Services 292AA(11.5") rear hubs on Dodge (2015+) and GM (2011+).
- Applicable for:
 - 2015 (D2, DD, DJ, DP) - System
 - (3 - Differential and Driveline)
 - 2016 (D2, DD, DJ) - System
 - (3 - Differential and Driveline)
 - 2017 (D2, DD, DJ) - System
 - (3 - Differential and Driveline)
 - 2018 (D2, DD, DJ) - System
 - (3 - Differential and Driveline)
 - 2019 (D2, DD, DJ) - System
 - (3 - Differential and Driveline)

APE00073

HEAVY DUTY HUB DRUM AND ROTOR PULLER KIT



- Three different hub adaptors are included to fit all types of hub sizes.
- The pull arms of the drum and rotor include raised stops that can be used in conjunction with a ratchet belt (not included) for particularly hard work.
- Use with impact wrench to remove hubs, drums and brake rotors.
- Enduring forged design.
- Operation range: Diameter 275mm to 62mm

APE00075

SLACK ADJUSTER ROD PIN PRESS



- Slack adjuster rod pin press removes the 3/16" clevis pin.
- Fits all makes and models of automatic slack adjuster rod pins.
- Spring-loaded plunger positions itself automatically over the brake clevis pin.

APE00076
BRAKE ANCHOR PIN PRESS


- Used to remove brake anchor pins and bushings on virtually all 16-1/2" S-Cam trailer and tractor "Q" brake systems.
- Rigid C-frame with 10-ton capacity.
- Manufactured from high-grade steel for strength and durability.
- For use up to 1/2" impact wrench.

APE00077
BRAKE BLEEDER ADAPTOR FOR TESLA MODEL S & X


- Aluminum-made adaptor holds pressure up to 2.5 bar / 36 psi.
- Fit brake master cylinder reservoir on Tesla Model S and X.

APE00078

BRAKE BLEEDER ADAPTOR FOR GM/TESLA MODEL 3 & Y



- Aluminum-made adaptor holds pressure up to 2.5 bar / 36 psi.
- Fit on GM vehicles: Buick, Cadillac, Chevrolet, and GMC, and Tesla Model 3 and Y.

APE00079

BRAKE PRESSURE BLEEDER ADAPTOR SET



- Specially designed for performing power brake bleeding on Tesla all models.
- Suitable for Tesla Model S and X, Tesla Model 3 and Y.
- Metallic adaptor holds pressure up to 2.5 bar / 36 psi.

APE00080
STANDARD EUROPEAN THREADED BRAKE ADAPTOR


- European straight air plug is compatible with major brake filling machines on the market and is suitable for some reservoirs in tricky locations.
- Working pressure 1-2 bar / 14.5-29 psi.
- Application: Audi, BMW, Citroen, Fiat, Land Rover, Mercedes-Benz, Opel, Peugeot, Renault, Skoda, Volkswagen and Volvo.

APE00081
DOUBLE-SIDED FLIP SOCKET SET FOR HEX-TWIST WHEEL LUG NUTS


- Standard hex on one end, and 6-point twist on the other end.
- Sizes includes: 17 mm, 19 mm, 21 mm, 13/16 , 7/8 (22 mm)
- Do not use the twisted side to install new nuts, use it for removal only.
- NOT designed for air/impact wrench operation.

APE00082

1L CATCH BOTTLE FOR BRAKE FLUID WITH VALVE



- There is a one-way valve on the soft tube to prevent fluid and air being pulled back into the brake system.
- A chain hook for hanging on a wheel cylinder, coil spring, or other car parts while bleeding brake fluid.
- Capacity: 1L

APE00083

1L CATCH BOTTLE FOR BRAKE FLUID



- A hook for hanging on a wheel cylinder, coil spring, or other car parts while bleeding brake fluid.
- Capacity: 1L

APE00084
BRAKE BLEED VALVE


- It can prevent air getting into the system while changing the brake fluid.

APE00085
HUB LOCKNUT 4 PIN SOCKET FOR TOYOTA


- Designed to remove and install the 4-hole locknut on the inside face of the hub.
- Works on Toyota vehicles having 4WD lock-out hubs.
- Applicable for: 4Runner(1996-2020), Sequoia(2001-2007), Tacoma(1995-2020), FJ Cruiser(2007-2014), T100(1996-1998), Tundra(2000-2006).
- OEM Ref. 09318-12010

APE00088

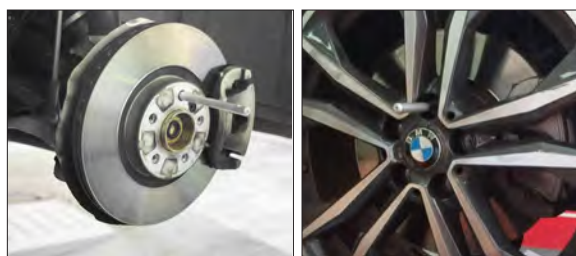
12V BRAKE FLUID EXCHANGE MACHINE



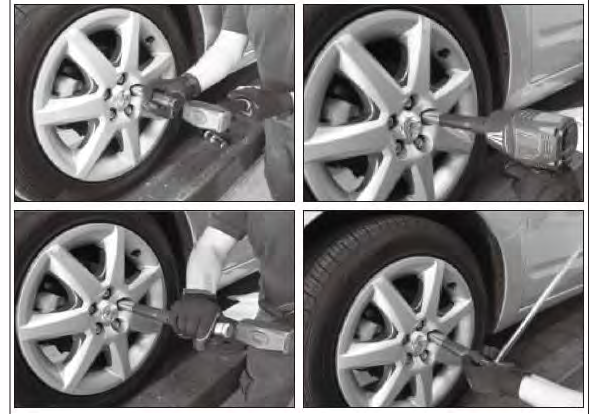
- Pulsating effect to clean debris in brake system effectively.
- Forced drain function to allow the machine to work with different brake fluid specs.
- Buzzer beeps when brake fluid runs low.
- Self purge function is included to prevent air bubbles from being introduced into the brake system.
- Unique 100% transparent and brake fluid resistant 2 liter tank allows users to see the remaining brake fluid volume.

APE00089

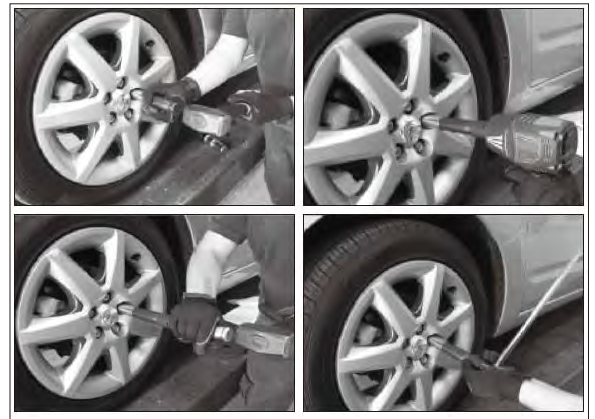
8PC WHEEL HANGER SET



- Ideal for hanging tires while changing tires, stabilizing brake discs, and preventing brake caliper from wobbling.
- Includes:
 - M12 x 1.25
 - M12 x 1.50
 - M14 x 1.25
 - M14 x 1.50

APE00090
UNIVERSAL LOCKING WHEEL NUT REMOVAL KIT


- Ideal for removal of a wheel lock nut without a key wheel; lock bolt removing.
- Kit includes shroud, which protects the wheel against any damage.
- This master tool kit is capable of removing practically any locking wheel nuts.

APE00091
13PC UNIVERSAL LOCKING WHEEL NUT REMOVAL KIT


- Suitable to remove all types of locking wheel nuts.
- Includes a new design of steel wheel protecting shrouds, which protects wheel without damage.
- Capable to remove locking wheel nuts from Ford, Jaguar, and Range Rover.
- Item contents:
 - 1. Impact Driver
 - 2. Center Punch
 - 3. Hand Protection Ring
 - 4. Main body and outer shroud
 - 5. Hand Protection Ring
 - 6. Blade A/ B/ C
 - 7. 1/2" Impact Socket (24mm Hex)
 - 8. Locking wheel nut remover (Jaguar)
 - 9. Locking wheel nut remover (Ford)
 - 10. Locking wheel nut remover (Range Rover)

APE00092

14PC WHEEL LOCATING GUIDE SET



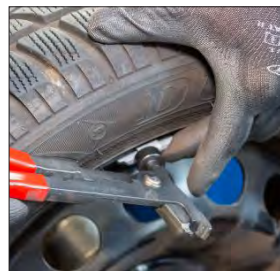
- Set includes seven pairs of locating guides, designed to help align and mount the wheel.
- Male Thread:
 - M12 x 1.25mm / M12 x 1.5mm / M12 x 1.75mm
 - M14 x 1.25mm / M14 x 1.5mm / M16 x 1.5mm
- Female Thread:
 - M12 x 1.5mm

APE00093

BRAKE DISK REMOVAL TOOL KIT



- Ideal for damage-free, smooth removal of the brake disk without a hammer.
- Prevent a shock load on electrical sensors and damage to the steering rack.

APE00094
COMPREHENSIVE WHEEL BALANCING WEIGHT PLIERS


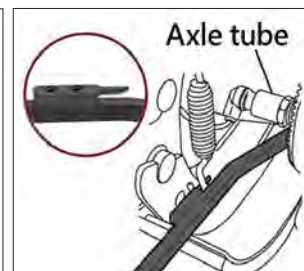
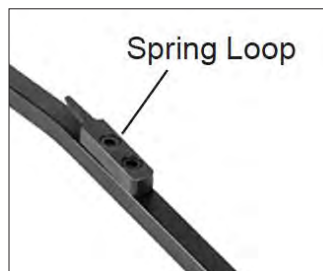
- Pliers jaw is used for two types of wheel balance weights, stick-on wheel weights and clip-on wheel weights.
- Wheel balance weight pliers with plastic coating can prevent damaging rims.
- With an integrated hammer.

APE00095
6 POINT HUB NUT SOCKET


- 6 spread pins for an exact fit for Dodge applications.
- Applications: Dodge RAM 1500-4500 models.
- Suitable for 10-1/2" and 11-1/2" axles.
- 3/8" Square Drive.

APE00096

TRUCK BRAKE SPRING TOOL



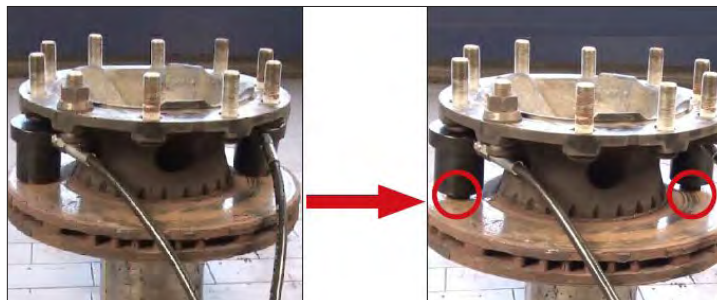
- Provide a safe way to replace the brake shoes on heavy-duty tractors and trailers.
- Remove and install the brake shoes by using the leverage.
- Application: S-cam air brake spring.

APE00097

WHEEL STUD SERVICE KIT



- Designed for fast and effective removal and installation of wheel studs on most disc and drum applications.
- Eliminates the risk of damage to hubs, seals, wheel bearings, and wheel studs.
- Includes interchangeable adaptors for maximum access flexibility.
- For use on disc and drum brakes.

APE00098**HYDRAULIC TRUCK FLOATING BRAKE DISC DISMANTLING SET**

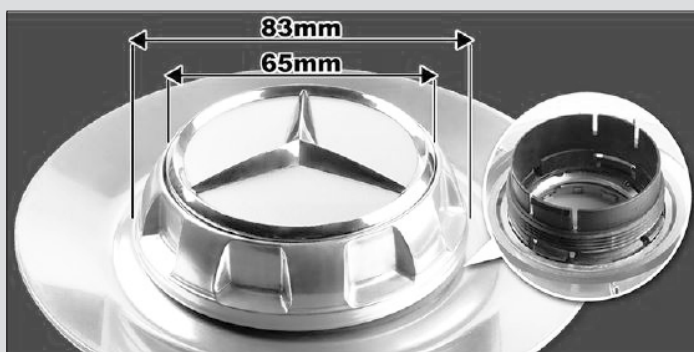
- Specially designed to remove the brake disc which gets stuck caused by rust or dust when changing truck floating brake disc.
- Comes with two compact 14T hydraulic cylinders operated by a control block with individual on/off switch.
- Applications: The trucks equipped with floating brake discs such as Volvo, DAF, Renault, etc.

APE00099

CENTER CAP REMOVAL WRENCH



- Remove or install the center caps on AMG / Mercedes-Benz wheels properly.
- Suitable for AMG / Mercedes-Benz wheels from 2011.
- OEM Ref. A0005810000



Used for properly removing or installing
the center caps on AMG / Mercedes wheels.

Model	Year	Model	Year	Model	Year
A 35 AMG	2020~2021	SL 65 AMG	2013~2018	S 550e	2015~2017
C 450 AMG	2016	AMG GT 53	2019~2021	S 560	2018~2020
C 43 AMG	2017~2020	AMG GT 63 (S)	2019~2021	S 600	2015~2017
C 63 AMG (S)	2015~2020	S 550 Maybach	2017	GLC 300	2016~2020
E 43 AMG	2017~2018	S 560 Maybach	2018~2020	GLC 350e	2018~2020
E 53 AMG	2019~2020	S 600 Maybach	2016~2017	GLE 350	2020~2021
E 63 AMG (S)	2018~2020	S 650 Maybach	2018~2020	GLE 450	2020~2021
S 63 AMG	2013~2020	A 220	2019~2021	GLE 580	2020
S 65 AMG	2015~2020	C 300	2015~2020	GLS 450	2020
GLC 43 AMG	2017~2020	C 350e	2016~2018	GLS 580	2020
GLC 63 AMG (S)	2018~2020	C 400	2015	G 550	2016~2021
G 63 AMG	2013~2021	E 300	2017~2019	CLA 250	2020~2021
G 65 AMG	2016~2018	E 350	2020	CLS 400	2015~2017
CLA 35 AMG	2020~2021	E 400	2015~2018	CLS 550	2012~2018
CLA 45 AMG	2020~2021	E 450	2019~2020	SL 400	2015~2016
CLS 63 AMG (S)	2012	S 450	2018~2020	SL 450	2017~2020
SL 63 AMG	2013	S 550	2014~2017	SL 550	2013~2020

APE00126
BRAKE CALIPER PISTON REWIND TOOL


- For left and right handed thread pistons
- Time-Saving design! This spring type is easy to meet all pitch of piston
- Easy to use the reaction plate connected to the tool
- With 3/8" Dr. adapter(No. 5)

APE00139
BRAKE BLEEDER CATCH BOTTLE


- Designed to connect to the brake bleeder and to catch the fluid as it flows out of the system
- Includes plastic catch bottles and wire lanyards that can be placed momentarily on the vehicle when bleeding the brakes

APE00149

10 PC WHEEL STUD INSTALLER TOOL



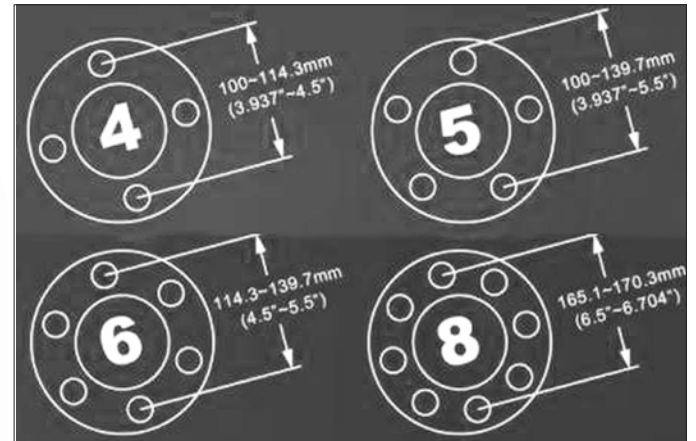
- Self-centering to insure the stud is installed at the correct angle
- Kit includes a bearing seat and nut will not damage wheel stud threads automotive kit

APE00150

TRUCK WHEEL CENTERING SLEEVE SET



- Suitable for: DAF, FORD, MAN, MERCEDES-BENZ, RENAULT, VOLVO
- Prevent damage to the thread and presitioning the sleeve through a tapered rim
- Internal thread: M22 x 1.5mm
- Material: CR-MO
- Finish: Black Oxide
- Total Length: 115mm

APE00182
WHEEL HUB HOLDING TOOL


- Can be used to hold rear differential yoke on solid axle vehicles during pinion seal or bearing service, as well as many other types of machines with drive shafts, yokes and universal joints
- Used to hold the wheel hub in place while the axle nut is removed / installed or wheel bearing service

APE00374
TYRE TRANSPORT DOLLY


- Dolly for transporting stacked car tires.
- Designed for easy one-person movement.
- Space & labor saving for workshop.
- When dollies are not in use can be stacked to facilitate storage.
- Heavy-duty 3" casters include two crushed casters to keep the smooth mobility and stability.
- Dimension: 64 x 64 x 17.5cm
- Weight: 5.5kgs
- Loading capacity: 150kgs
- 3" caster includes:
- Swivel caster x 2pcs
- Brake caster x 2pcs

APE00375**TYRE TRANSPORT DOLLY**

- Dolly for transporting stacked car tires.
- Designed for easy one-person movement.
- Space & labor saving for workshop.
- When dollies are not in use can be stacked to facilitate storage.
- Heavy-duty 3" casters include two crushed casters to keep the smooth mobility and stability.
- Dimension: 64 x 64 x 54.5cm
- Weight: 8.5kgs
- Loading capacity: 150kgs
- 3" caster includes:
 - Swivel caster x 2pcs
 - Brake caster x 2pcs

APE00380**WHEEL STUD THREAD RESTORER (HGV) KIT**

- Designed to accurate alignment and restore damaged wheel nut threads.
- The split design allows the two halves of the thread restorer to be fitted to the good thread (usually at the base of the stud) and then through the damaged thread again.
- The set includes four split dies to suit the most common HGV wheel.
- Stud thread sizes: M18 x 1.5mm, M20 x 1.5mm, M22 x 1.5 - 11 BSF
- Adaptor Hex size: 32mm
- Suitable for:
Bedford, DAF, DAIMER, IVECO, MAN, RENAULT TRUCKS, SCANIA, STEYR-DAIMLER-PUSH, VOLVO, VW LT 35/40/45/50, TRAILERS

APE00394
SLOGGING WRENCH FOR BRAKE CALIPER SCREW


- Using a wrench for assembly and disassembly the brake caliper screw on commercial vehicles connection.
- With a torque wrench to tighten the screw properly conform to the manufacturer's specifications.
- Wrench flat with lasered formula for calculating the correct effective length.
- Size:
 - E18(Torx) for MAN TGL/TGM
 - E20(Torx) for MAN TGL/TGM
 - E24(Torx) for MAN TGA/TGM/TGX
 - M24(12-point) for SAF
 - M26(12-point) for DAF XF/XF95/XF105/XF106

APE00408
VERNIER CALIPER FOR BRAKE DISCS


- Total length mm: 455.0mm
- Jaw width in mm: 200-400mm
- Used to measure the diameter of the brake disc, without the need to remove the wheel from the vehicle.
- Rapid identification of the braking system. Which helps to eliminate the risk of erroneous brake pads or brake discs.
- Reduce the number of returns. Allows professional and cost-effective brake repair work.
- Instruction: Insert vernier caliper into suitable rim holes and carry out the measurement of the brake disc.
- Note: If the measuring tips are in contact with the rim before touching the brake disc at the out diameter, use the slides to compensate for the missing difference in height if conditions allow.

APE00412

BRAKE CALIPER PISTON REWIND TOOL



- For single, single sliding and single pair piston.
- Time-Saving design: This spring type is easy to press the piston to return air.
- Adjustable ring can add extra pressure.
- Visible spring pressure.

APE00415

GEARLESS BRAKE CALIPER TOOL



- Suitable for 1, 2, 4, 6 & 8 multi-piston.
- 3 pair pad include:
 1. 90mm(L) x 60mm(W) for 1 & 2 piston brake calipers.
 2. 148mm(L) x 60mm(W) for 4 piston brake calipers.
 3. 180mm(L) x 60mm(W) for 6 & 8 piston brake calipers.
- Gearless structure for quickly & easily used with small operation angle.

APE00450
WHEEL STUD CLEANING TOOL SET


- Faster and easier to clean studs.
- Only need ONE tool to fit different sizes of brush.
- Quick to change brushes in 5 seconds.
- Come with a 1/2" drive adapter and six brushes.
- Brush size: 12mm (7 /16"), 13mm (1/2"), 14mm (9/16"), 16mm (5/8"), 22mm (7 /8"), 28mm (1-1/8").

APE00451
WHEEL STUD CLEANING TOOL SET


- Easy and quick changing brushes and grinding pad.
- Popular sizes for cleaning wheel studs and grinding wheel hub.
- Can be operated by cordless drill or impact wrench.
- Brush sizes: 13mm, 18mm
- Grinding pad: X23mm x 3pcs, X15mm x 2pcs

APE00478

WHEEL THREAD SERVICE KIT



- Used on wheel bolts on vehicles.
- The unique design allows the two halves of the thread restorer to be fitted on the good thread and wound back over the damaged thread, normally at the end of the stud.
- The traditional thread restorer relies on luck for the restored and the undamaged threads to align.
- The kit contains three most common wheel stud thread sizes: 12 x 1.25 mm, 12 x 1.5 mm, 14 x 1.5 mm.
- Adaptor Holder: 29 mm Hex Drive.

APE00574

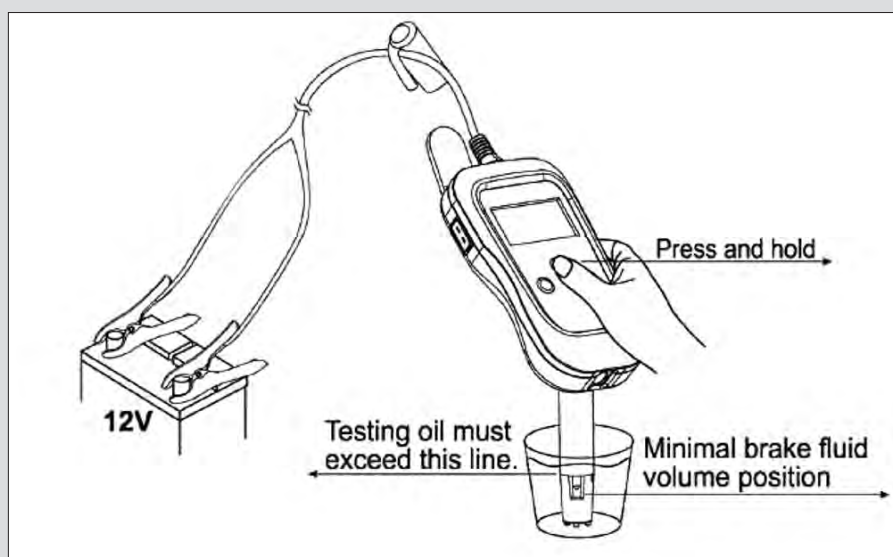
3 IN 1 MULTI-FUNCTION MEASURING TOOL



- This ideal tool is great for quick and accurate measurement of motorcycles, cars and commercial vehicles. Long body design, allows use on some vehicles without the need to remove the wheels.
- Features: available for measurement of brake disc thickness, depth of the tyre tread, thickness of brake pad.
- No need to take out the wheels!

APE00576
BOILING BRAKE FLUID TESTER


- The tester measures the boiling point of the brake fluid.
- It can be the reference if the brake fluid should be changed.
- Power: 12V automotive battery
- Working Environment: 0-50° C
- Wet boiling point is the reference temperature for changing brake fluid.
- Dry boiling point is the reference temperature for new brake fluid.
- Testing accuracy of the tester: $\pm 3^{\circ}\text{C}$ @ $\pm 180^{\circ}\text{C}$ $\pm 5^{\circ}\text{C}$ @ $> 180^{\circ}\text{C}$


About Boiling Point

Brake Fluid Type	DOT 3	DOT 4	DOT 5.1
Dry Boiling Point	$\geq 205^{\circ}\text{C}$	$\geq 230^{\circ}\text{C}$	$\geq 260^{\circ}\text{C}$
Wet Boiling Point	140°C	155°C	180°C

APE00588

REPLACEABLE PLATE FRONT HUB PULLER



- P.C.D 94-145mm(3, 4, 5, 6 bolt)
- Made by: CARBON STEEL.
- Universal application for removing front hubs on front wheel drive cars.

APE00589

UNIVERSAL BRAKE REWIND SET



- Comprehensive truly universal wind back kit designed to replace multiple tools and accessories.
- Right and left hand threads – replacing separate right and left handed thread winders
- Also suitable for static press type calipers.
- Universal and adjustable 4 pin adaptor – replacing 99% of adaptors in the market.
- Can also be used with existing adaptors.
- Can be used to press – replacing caliper press.

APE00590
UNIVERSAL BRAKE REWIND MASTER SET


- Comprehensive truly universal wind back kit designed to replace multiple tools and accessories.
- Right and left hand threads – replacing separate right and left handed thread winders
- Also suitable for static press type calipers.
- Universal and adjustable 4 pin adaptor – replacing 99% of adaptors in the market.
- Can also be used with existing adaptors.
- Can be used to press – replacing caliper press.

APE00602
STICK-ON WHEEL WEIGHT TOOL


- Easy and quick to remove stick-on wheel balancing weights.
- The plastic cover on the jaws and hammer can protect the alloy rims from damaging or scratching.
- Adjustable jaws for different types of wheel weight.

APE00660

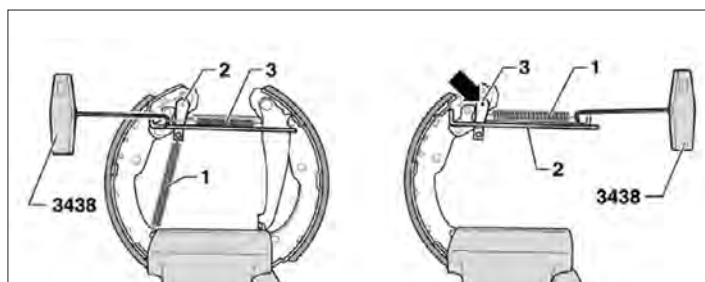
PISTON DETACHING TOOL



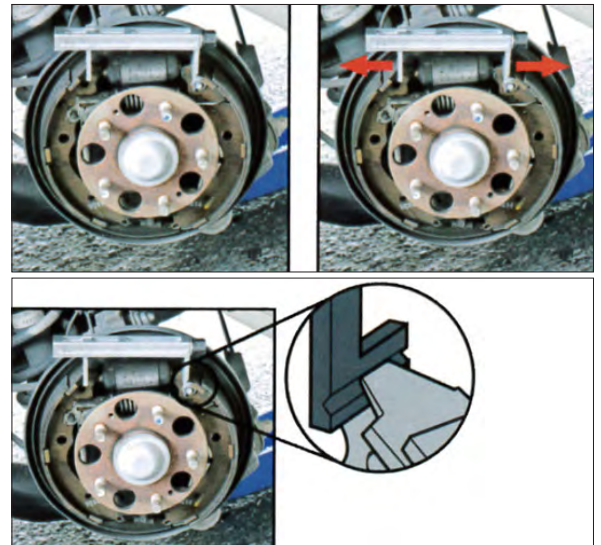
- Material: Stainless (Body)
- Capacity: 16.5mm ~ 40.0mm
- Design to remove piston from the disk brake base without damaging the surface of piston.

APE00687

PULL HOOK TOOL (VW/Mercedes-benz)



- Used for installing and removing the handbrake return spring / removing dashboard trims.
- Suitable for VW Crafter from 2006, LT from 1996 and Mercedes passenger cars with rear disc brakes.
- OEM Ref. VW 3438 / Mercedes 116 589 01 62 00

APE00704
DRUM BRAKE LINING HOLD TOOL


- The tool is holding brake lining , no need to remove brake.
- Lining before replacing brake cylinder.
- Easy and save repair time to replace brake cylinder.
- Hex:17mm
- Square: 3/8"
- Use range:25mm-14.2mm

APE00753
WHEEL WEIGHT PLIER


- New design of pliers are made to remove wheel weights from aluminum rims.
- Special plier mouth is designed to make it easy and fast for removal.
- Pliers ensures the removal of balancing weights from the aluminum wheel without causing notches and scratches.

APE00809

PROFESSIONAL TIRE VALVE TOOL



- Used to reduce the noise when deflating the tire.
- Quick filling or emptying the tire with full bore.

APE00810

BRAKE DISC REMOVAL KIT



- The tool is designed to reduce vibration impact on the wheel bearing, electronic sensors, suspension, ball-joint etc.
- Install the tool by the auto adjusting jaw.
- Capacity range: 170mm - 400mm

APE00824
3PC 1/2" DRIVE DEEP IMPACT SOCKET SET


- CR-MO alloy steel for long service.
- Contents: 17mm, 19mm, 21mm

APE00825
8PC 1/2" DRIVE TORQUE EXTENSION BAR AND DEEP IMPACT SOCKET SET

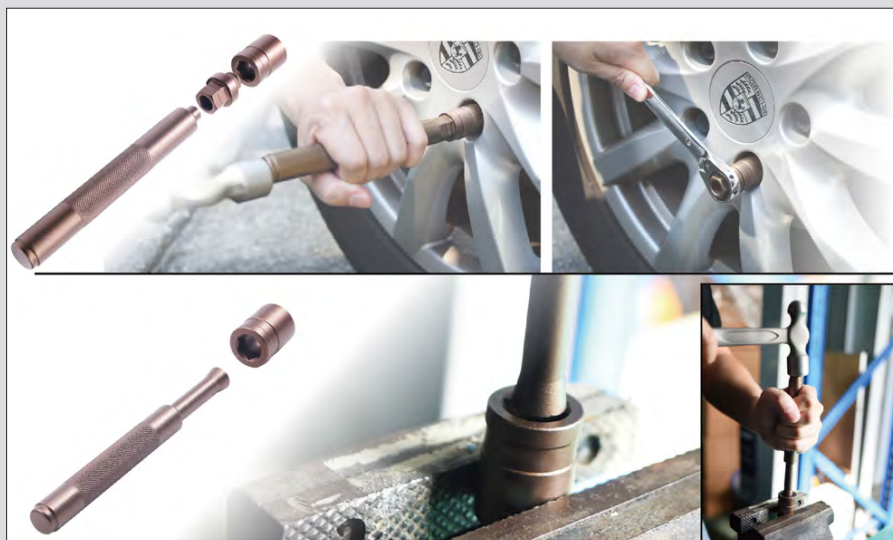

- Deep Impact Socket: 17, 19, 21, 22mm
- Bars: 65, 80, 100, 120 ft. lbs.

APE00842

UNIVERSAL LOCKING WHEEL NUT REMOVAL KIT



- Designed to quickly and efficiently remove locking wheel nuts.
- Conical shaped design allows socket to fit over locking wheel nut.
- Socket is hammered onto nut by using the punch, so nut and socket wedge together.
- Nut can be removed with a breaker bar or impact wrench.
- Includes sockets(outer diameter): 26, 27, 28, 28.8, 30.0, 30.9, 31.8, 34.8, 35.8, 36.8



APE00854
CENTRE LOCK WHEEL NUT SOCKET - PORSCHE


- Special designed 15 teeth profile is ideal for removing or installing center-lock wheel nuts.
- 3/4" drive
- Not to used with impact tools.
- Application: Porsche 991,997,GT2 & GT3, Cayman, Panamera

APE00870
ADJUSTABLE BRAKE REWIND ADAPTOR


- Special telescopic pin design makes the adaptor with 2 pin and 3 pin drive function.
- Adjustable 2 pin adaptor fits most modern vehicles.
- Adjustable 3 pin adaptor is only suitable for Electronic Park Brake (EPB) and VAG vehicles.
- Adjustable adaptor will fit pistons with a pin distance between 20mm to 38mm.

APE00877

TIRE TREAD DEPTH GAUGE



- Precisely determines the amount of tread left on tire.
- Three sides calibrated in 1", in 1/32"
- Three Sides Calibrated in 1", in 25mm

APE00895

REAR HUB NUT SOCKET - FORD TRANSIT



- Heavy duty 4 point specialized impact socket for removing the rear hub nut on RWD Ford Transit.
- Alignment shaft allows accurate location onto castellated nut.
- Services 2014 and up Ford Transit vehicles.
- Hex drive 19mm.
- Outer rim: 69.5mm.
- Equivalent to OEM 205-1007.

APE00902**20PC WHEEL SCREW LOCK SOCKET SET - VAG/SEAT**

- Applicable for installing and removing locks of VW series.
- This tool enables you to permit servicing of customer vehicles, even customer has lost the key.
- Includes: #541,#542,#543,#544,#545,#546,#547,#548,#549,#550 #551,#552,#553,#554,#555,#556,#557,#558,#559,#560
- VM number: T20213



BODY AND INTERIOR SYSTEM SERVICE TOOLS

- BODY SHELL AND PANELS SERVICE TOOLS
- DOORS AND GLASSES SERVICE TOOLS
- INTERIOR AND SEAT SERVICE TOOLS
- RADIO RELEASE SERVICE TOOLS
- OTHERS

APF00001**WINDOW BELT MOLDING REMOVER**

- Slide the tool downward between the window exterior and the door. (The channel side of the tool should face the door.)
- When the tool channel is below the belt molding, push or pull the tool upward
- The tool quickly removes the belt molding without damage to the window or the molding

APF00003**WINDSHIELD WIPER ARM PULLER**

- Specially designed for the rear wiper arm shaft with washer nozzle.
- Suitable for VW, Audi, Skoda, Seat, etc.

APF00005

DOOR HANDLE REMOVAL TOOL



- Used for removal and installation of the lock cylinder housing on doors with no lock cylinder.
- This removal tool for car door handle allows trouble-free loosening of the hard -to -reach locking hook.
- Suitable for: VW Golf(V1), Fox, Tiguan, Passat B6(3C) / Audi Q7, etc.
- OEM Ref. T10389

APF00018

AIRBAG REMOVAL TOOL - LAND ROVER



- Used to release the driver airbag module from steering wheel.
- Suitable for Land Rover Discovery 3-4, Freelander 2 and Range Rover Sport.
- OEM reference: 501-106.

APF00019
PLASTIC RIVETS BUCKLE CLAMP PLIERS


- Quickly and easily remove car door panel and upholstery clips without damage.
- Jaw design allows clip removal simply by squeezing the handles and the wide nose is designed to prevent breaking or tearing panels when undoing facings.
- Easy to access into confined areas and make you do the work with ease.
- Ideal for door trim clips, various sizes of seals, repair or replacement of broken fasteners, boat covers, tents, canvas, tarpaulins, awnings, canvas.

APF00020-1
**WINDSHIELD WIPER ANGLE ADJUSTMENT TOOL FOR TESLA
MODEL X & S**

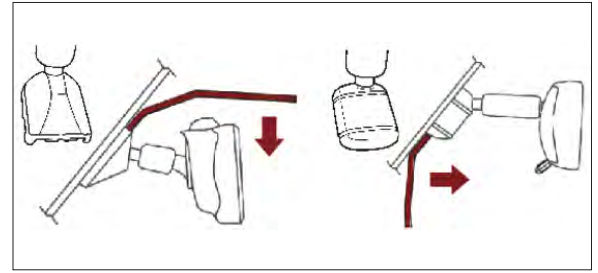

- Used to check and adjust the angle between the windshield wiper arm and windshield for Tesla Model X and S.
- Fixed the tool at the front of the wiper arm and use an open-ended wrench (24mm) to adjust to the desired angle.
- Using range: ± 20 degrees.
- Suitable specification of arm:
 LHD & RHD Vehicle, Driver's side: 1.5 degree \pm 3 degree.
 LHD & RHD Vehicle, Passenger's side: 1.7 degree \pm 3 degree.

APF00020-2

WINDSHIELD WIPER ANGLE ADJUSTMENT TOOL FOR TESLA MODEL 3



- Designed to inspect and adjust the angle between the windshield wiper arm and the windshield for Tesla Model 3.
- Fixed the tool at the front of the wiper arm and use an open-ended wrench (24mm) to adjust to the desired angle.
- Using range: ± 20 degrees.
- Suitable specification of arm:
LHD & RHD Vehicle, Driver's side: 1.5 degree \pm 3 degree.
LHD & RHD Vehicle, Passenger's side: 1.7 degree \pm 3 degree.

APF00021
MIRROR REMOVAL TOOL (FORD)


- A new type of mirror is being installed for the first time in Europe in Maverick (2004~), Kuga (2012~), Transit / Tourneo Connect (2013~), Mondeo (2014~), Mustang (2014~), C-MAX (2015~), Edge (2015~)
- Works on 1999 and newer Ford interior / rearview mirrors that have the detachable (screwless) mount
- Works on these outside door mirrors:
 - Windstar (1997~2002) / Crown Vic, Grand Marq, Marauder, Taurus, Sable, Mustang, town Car (1998~2004) / Ranger, Excursion, Super Crew (F-250--F-550), F-650, F-750 (1999~2004) / Escape (2001~2004) / Thunderbird (2002~2004) / Explorer (1996~2004) / Mountaineer (1997~2004) / Expedition, Navigator, F-150 (1998~2004) / Explorer Sport, Explorer Sport Trac (2001~2004) / Aviator (2003~2004) /
 - Dual arm mirror used on Excursion, Super Crew (F-250~F-550), F-650, F-750 (1999~2004)

APF00036

2PC PANEL GAP CONTROLLER

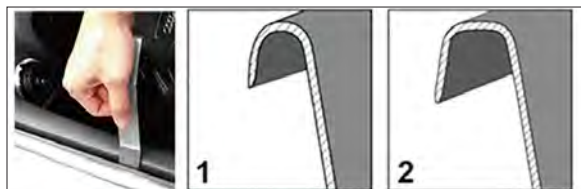


■ For fitting work of vehicle body parts:

1. Allows the gap to be set from 1mm to 10mm (original dimension can be determined in advance.)
2. Can be adjusted to all possible positions.
3. Not only controls the gap but also acts like a bumper during fitting work.
4. No damage or scratching.

APF00037

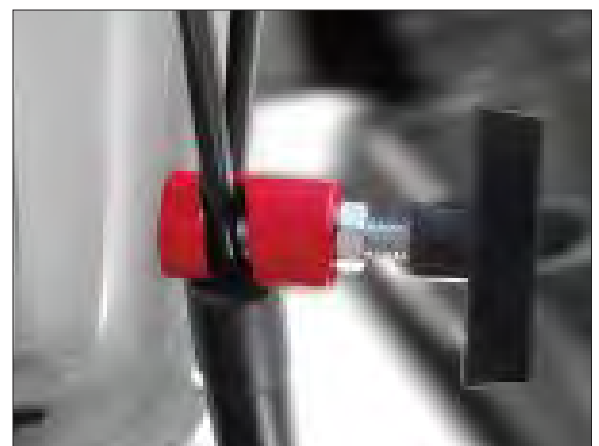
WINDOW BELT MOLDING REMOVER



- The tool quickly removes the belt molding without damage to the window or the molding

APF00038
ALUMINUM BODY HAMMER AND DOLLY SET

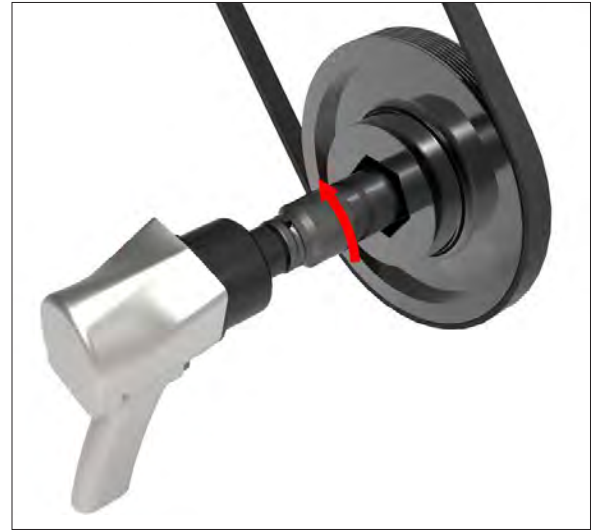

- Aluminum hammers help prevent cross contamination on aluminum bodied vehicles.
- And also provide more forgiving strike than other hammers, avoiding further damage to aluminum panels.
- Rubber dollies provide a lighter option when accessing a tight, confined location behind an aluminum panel.

APF00039
UNIVERSAL LIFT SUPPORT CLAMP - 10.2MM


- Tool holds gas charged lift supports found on hoods, tailgates, hatchbacks, and trunks.
- Securely holds weak lift supports in the extended position to allow access to the engine compartment or luggage area.
- Aluminium body prevents damage to the lift support.
- Capacity: Max 10.2mm

APF00040

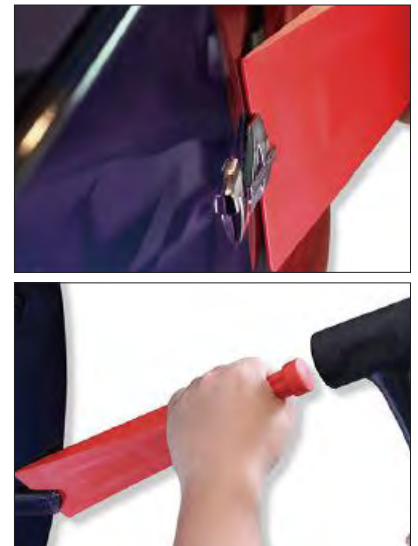
UNIVERSAL LIFT SUPPORT CLAMP - 13MM



- Tool holds gas charged lift supports found on hoods, tailgates, hatchbacks, and trunks.
- Securely holds weak lift supports in the extended position to allow access to the engine compartment or luggage area.
- Aluminium body prevents damage to the lift support.
- Capacity: Max 13mm

APF00041

2PC MOLDING STRIP TOOL SET



- Durable 3" non-marring wedge design help to get under door moldings and emblems easily.
- Allows to use with a mallet on stubborn applications.
- The plastic construction will not mark or scratch vehicle finish.
- Also for the basic opening of car door for insertion of lock out tools.
- Set includes 2pc of wedges (wedge with handle x1 and wedge without handle x1)

APF00042
2PC ONE HAND JACK TOOL SET


- Designed to create enough space to easily insert the air wedge without damaging the vehicle
- Makes opening cars safer and easier
- Rubber pivot gives leverage and protects vehicle
- Includes:
wedge-shaped handle x
*round-shaped handle x1

APF00043-1
PUSH PIN PLIER - STRAIGHT

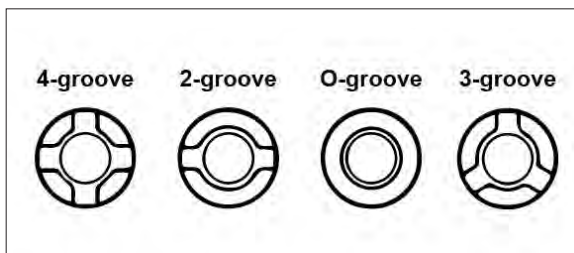

4-groove 2-groove O-groove 3-groove



- Specially designed for removal of push pins with center locking pin.
- Quickly removes plastic anchors without damage to pins or anchors.
- Tool lifts the center pin and pulls anchor in one simple step.

APF00043-2

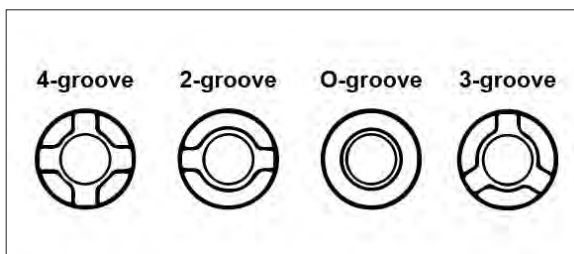
PUSH PIN PLIER - ANGLED



- Specially designed for removal of push pins with center locking pin.
- Quickly removes plastic anchors without damage to pins or anchors.
- Tool lifts the center pin and pulls anchor in one simple step.

APF00043-3

PUSH PIN PLIER



- Specially designed for removal of push pins with center locking pin.
- Quickly removes plastic anchors without damage to pins or anchors.
- Tool lifts the center pin and pulls anchor in one simple step.

APF00044**PNEUMATIC PANEL CRIMPER**

- Used with air hammers to crimp body panels by forming a step in 16 to 18 gauge sheet metal, allowing the patch panel to set flush.
- It features an ergonomically designed side-grip handle, and 0.401" shank size.
- Heavy-duty chisel with 1/2" diameter.
- All parts are forged and heat treated for durability and consistency.

APF00045**LOCK CYLINDER INSTALLATION AID TOOL**

- Used for fast and precise repair of the door lock.
- Application: VW Passat, Vento, Beetle, Lupo, Golf IV (not Golf cabriolet), Seat, Skoda, etc.

APF00046

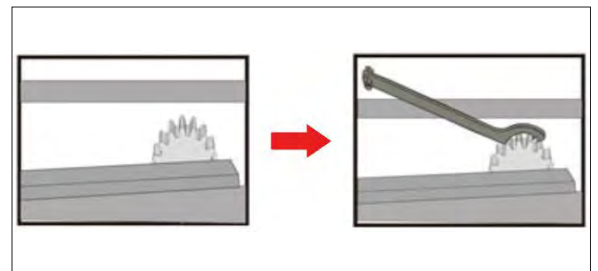
SOCKET SET - 8MM & 10MM X 10PT



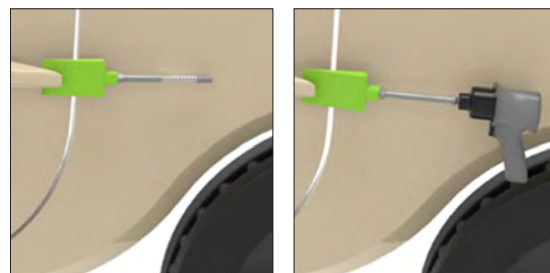
- 8mm and 10mm sizes are required for both the driver and passenger side tracks.
- Use with 1/4" square drive.
- Application: Honda Odyssey (2009 - up) and Pilot seat tracks.
- Material: chromium molybdenum.

APF00047

WINDOW REGULATOR ADJUSTER



- Designed to reinstall and adjust the door glass.
- Applicable: Jaguar and Land Rover.

APF00049
2 IN 1 MOLDING STRIP TOOL


- The wedge angle design makes segregate the double sided tape from the door and the vehicle body easily.
- The high impact polyoxymethylene structure allows to use with a mallet on rigid applications.
- Can be used to replace manual handle and air gun handle.

APF00050
SUBFRAME BUSH INSTALLER AND REMOVER FOR TOYOTA


- Used to remove and install the rear rubber mounts of axle suspension.
- Do not need to remove the subframe while car maintenance.
- Application: Toyota

APF00051

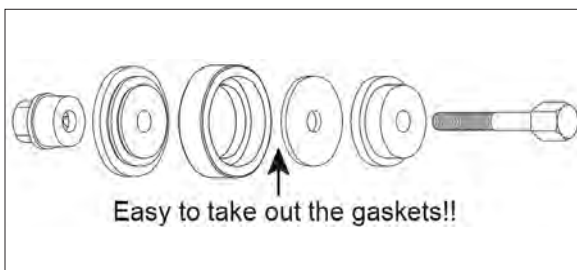
SINGLE SUCTION CUP



- Reliable tool design to remove lamp housing, rear mirror, etc.
- No need for multiple tools and complicated procedures.
- Low investment cost.
- Simple and straightforward operation.

APF00053

PARKING SENSOR AND REVERSING RECORD LENS TOOL SET



- Hole size: 17mm, 18mm, 18.2mm, 19mm, 20mm, 22.5mm, 24mm, 26mm, 26.7mm, 32mm
- Cut hole thickness: <5mm

APF00054**GLASS SHEATH BLADES**

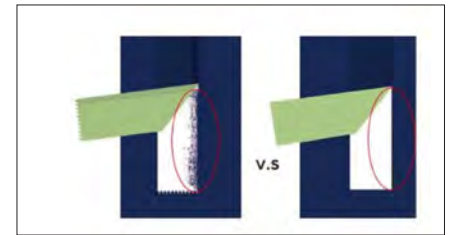
- High carbon spring steel construction.
- Length: 3 x 250mm(10") and 3 x 310mm(12")
- Multi-purpose blade for auto glass.

APF00055**CUTTING KNIVES TOOL KIT**

- Aluminum cutting knives used for cutting in confined corners.
- Total length: 800mm.

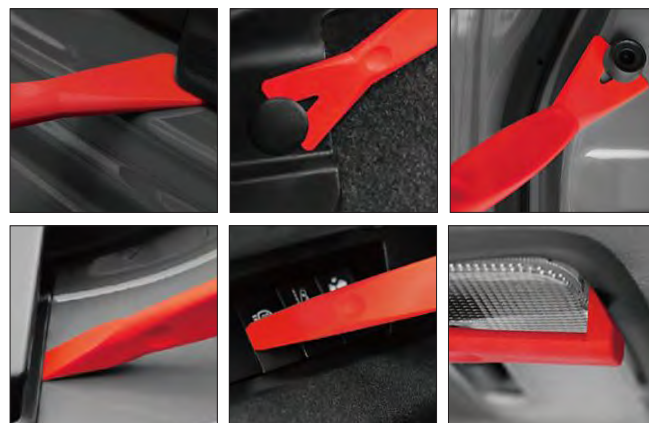
APF00056 、 APF00057

PAINT MASKING TAPE DISPENSER FOR FOLDING SOFT EDGE

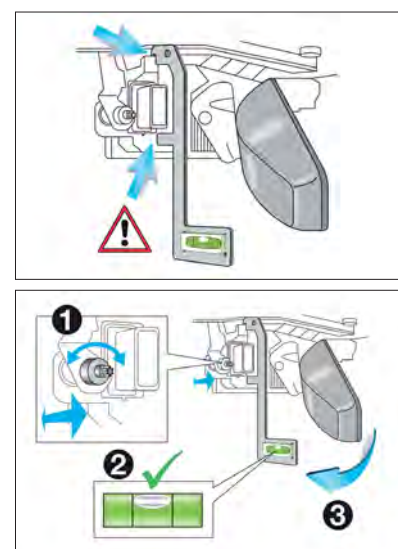


- The tool is designed for folding paint masking tape with a soft edge, the tape floats slightly off the surface allowing paint spray to disperse along the tape line.
- Seat with grooves for fasteners allows fixation on working table or wall.
- The holder is suitable for masking tapes with an inner core Ø76mm (3").

Part No.	Width
APF00056	19mm (3/4")
APF00057	24-25mm (1")

APF00058
COMPOSITE PRY BAR KIT


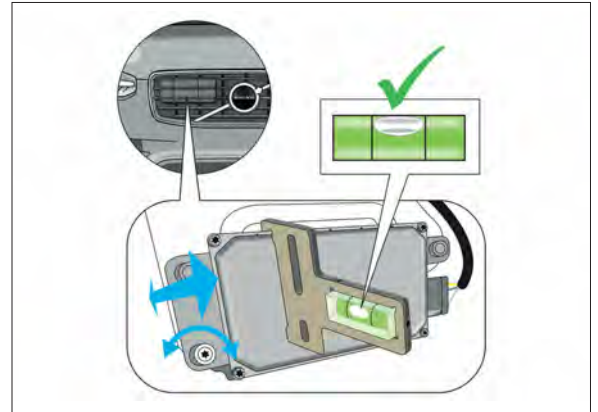
- Easily and safely removes automotive clips, fasteners, molding, or gaskets from interior / exterior applications.
- Special construction prevents scratching and damaging vehicles paint, leather, chrome, and other surfaces.

APF00059
ADAS PARK ASSIST CAMERA POSITIONER FOR VOLVO


- Designed to ensure the correct adjustment of the front facing parking assistance camera unit.
- Applications:
XC90-II, XC60-II, XC40, S90-II, S60-III, V90-II, and V60-II.
- Equivalent to OEM 9997529.

APF00060

ADAS RADAR ANGLE SETTING TOOL FOR VOLVO



- Used to position the front facing radar sensor during calibration.
- Applications: S60/V60 (2010-2018), S80/V70 (2007-2016), XC60 (2008-2017).
- Equivalent to OEM 9997407.

APF00061
WINDSHIELD REMOVAL TOOL KIT


- Works without cutting any blades neither do a metal wire.
- Specially designed fiber line is used to cut through the adhesive bead.
- Self-locking wire lever provides one direction to pull out.
- Long and flexible T-handle piercing tool for getting the wire out easily.
- The suction cup is easy to attach to the windshield with a clamp lever.
- Removing the windshield is possibly done by one person.
- Contents:

Description	Specification	Qty
Cutting line anchor	OD: 145 mm	1
Cutting line pulley	OD: 145 mm	1
Cutting line winder	OD: 145 mm	1
Synthetic fiber wire	L: 100 M	1
Piercing tool	L: 325 mm	1
Chisel installation stick	L: 205 mm, W: 17.3 mm	1
Hook tool	90 degree	1
Ratchet wrench & 1/4" socket	OD: 25 mm, L: 145 mm	1
Protection table board	22 x 18 mm	1

APF00062 、 APF00063

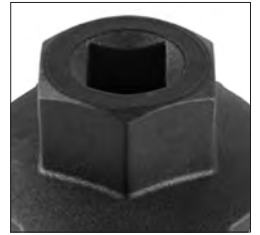
2 IN 1 CAR INTERIOR REMOVER 10.5"



Part No.	Length
APF00062	8.5"(21.6cm)
APF00063	10.5"(26.7cm)

- Great for removal of door panels, window panels, and interior accessories of various car models on the market.
- Angle adjustable for working conditions.
- Easily fit the gap or space where hard to reach, great for saving your time and improving work efficiency.
- Designed to be very sleek and without scratching or damaging your car during use.
- Ergonomic design which can easily hold in hand.
- Choices of 15 types of heads.
- Beam: 12mm



APF00064**TAILLIGHT NUT REMOVAL WRENCH FOR TESLA**

- Designed specifically for the safe removal of this fixing, allowing safe removal of the tail lights.
- 10 sided socket.
- Use with a 3/8" drive spanner.
- Application: Tesla Model 3

APF00065

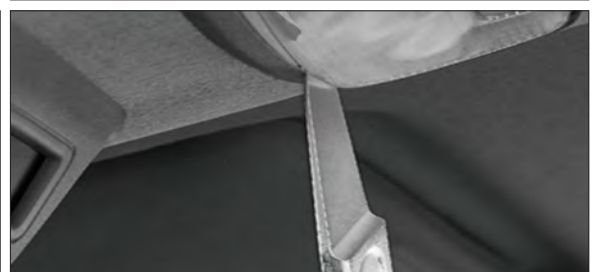
METAL SKIN WEDGE TOOL (CURVED)



- Great for high strength prying of car interior and exterior panels, moldings, fasteners, clips, gaskets, dashboards, and more without scratching.
- Ergonomically designed to fit well into your hand, making it easy to access hard to reach places.
- Made of heat-treated steel to allow the wedge to slightly flex to reduce breakage.
- Length: 178mm
- Width: 25mm
- Thickness: 14mm

APF00066

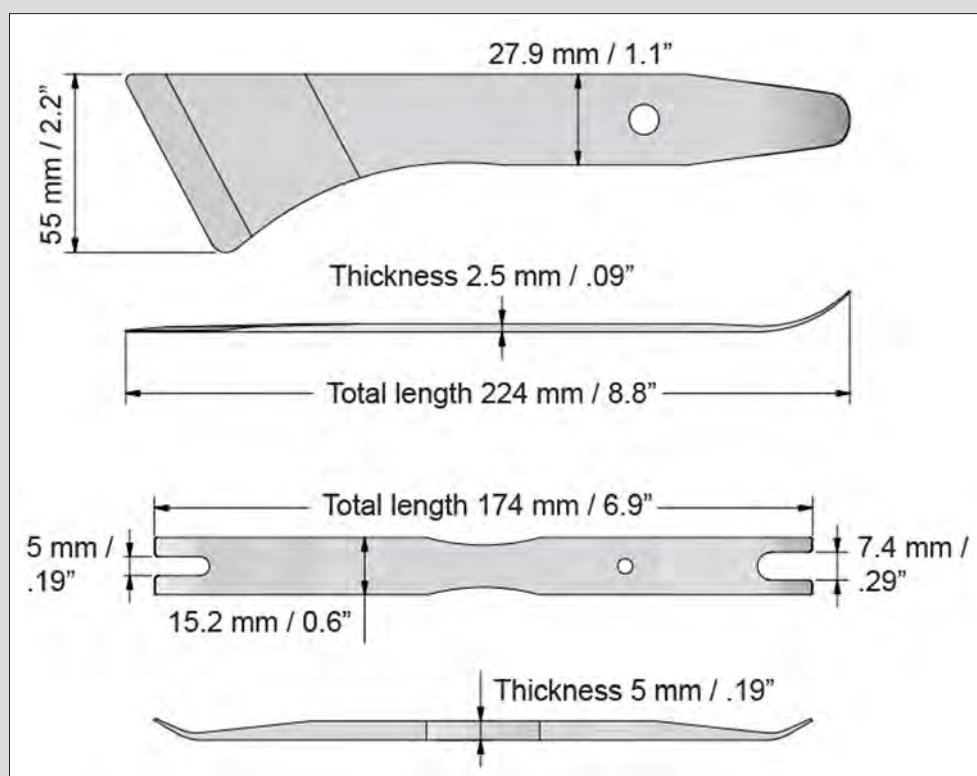
METAL SKIN WEDGE TOOL (CURVED AND STRAIGHT)

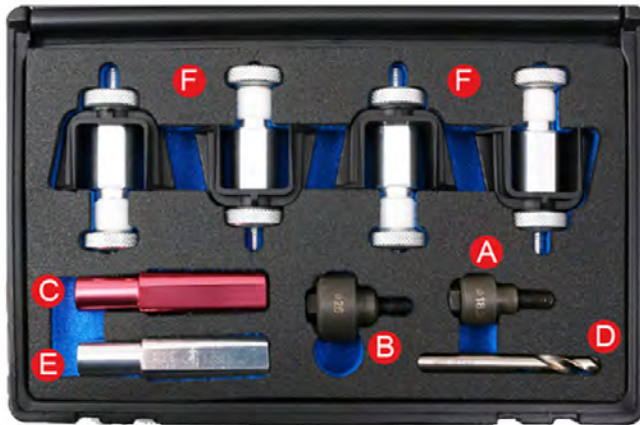


- Great for high strength prying of car interior and exterior panels, moldings, fasteners, clips, gaskets, dashboards, and more without scratching.
- Slim radius taper end for optimum blend of strength and access.
- High strength thin tip ($< 0.0187''$) with very little deflection.
- Double-ended tool with curved and straight tips.
- Length: 210mm
- Width: 25mm
- Thickness: 14mm

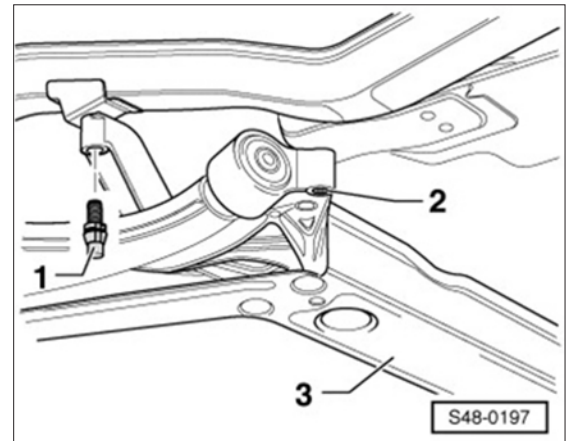
APF00067
TRIM REMOVAL PRY BAR AND CLIP LIFTER TOOL SET


- Set for removing exterior and interior trim, molding, dashboards, door panels and clips.
- Each tool is two-sided to increase its applicability and versatility.
- Strong and superior to plastic pry tools.



APF00115**ASSEMBLY TOOL FOR PDC HOLDER WITH DRILL**

- To install new or replacing defective PDC holders on bumpers
- For retroactive punching of PDC sensor holes A - Screw Hole Punch Φ 18.2mm
- Cutting tool and counter-hold is made by metal. Tightening a hexagon nut caused the stamp and die plate to be pressed against each other
- Replacement part for PDC retainer assembly tool
- For drilling holes in plastic parts B - Screw Hole Punch Φ 26mm
- Cutting tool and counter-hold is made by metal. Tightening a hexagon nut caused the stamp and die plate to be pressed against each other
- Replacement part for PDC retainer assembly tool
- For drilling holes in plastic parts C - 1 Centering Drift Φ 18.2mm
- Pin with support for plastic housing
- Replacement part for PDC retainer assembly tool
- Pin for centering plastic sleeve of PDC retainer D - Drill Bit Φ 10.2mm
- Replacement part for PDC retainer assembly tool For drilling holes in plastic E - 1 Centering Drift Φ 17.8mm
- Pin with red anodized
- The centering pin is used in conjunction with the assembly tool for PDC holder F - 4 Attachment Aids for PDC holder
- The attachment devices are used with the assembly tool for PDC holder
- They serve as a means of attaching the PDC holder during the bonding process on the bumper

APF00168**4PCS SUBFRAME LOCATING PIN SET**

- These pins are screwed into the sub-frame and used to guide it back into place once the task is completed
- M14 is mainly used for the new Volkswagen crafter-OEM T10227 / VW T5 Touareg 2.5 I 5-cylinder TDI engines

APF00414

12PC WEDGE TOOL KIT



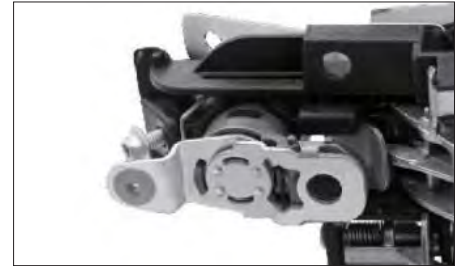
- Hammered without damaging the paint.
- With interchangeable accessories.
- Kit contain:
 - Short handle 90mm
 - Long handle 130mm
 - Cylinder-Shaped impact head
 - Impact head, wedge-shaped, round
 - Impact head, wedge-shaped, square
 - Impact head, wedge-shaped, largeround
 - Impact head, wedge-shaped, smallround
 - Impact head, cone-shaped, tip
 - Impact head, cone-shaped, round
 - Cylinder-Shaped impact head with cone
 - 2pcs of strike plates: 155mm

APF00445

FRONT BODY PANEL GUIDE SET - VW T5



- Instead of using the tool front cover screws, the front cover may be pushed away from the engine (Locking carrier) from the engine without disassembling the hoses.
- Suitable for: Volkswagen T5 (from 2004).
- OEM NO.:T10228

APF00571
DOOR HANDLE SPRING RETAINER TOOL - GM/CHEVROLET/GMC/CADILLAC


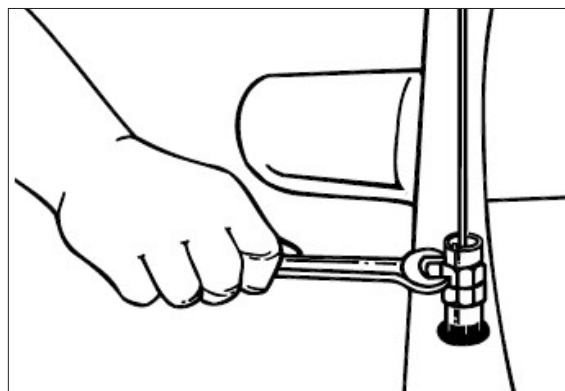
- The outer door handle can be replaced without removing the interior door panel on GM vehicles.
- Suitable for 2014 and newer:
 - Chevrolet - Colorado, Impala, Silverado, Suburban, Tahoe
 - GMC - Canyon Sierra, Yukon
 - Cadillac - ATS, Escalade
- OEM Ref. 80-51363

APF00585
WINDOW BELT MOLDING REMOVAL TOOL


- Slim body helps access to tight spaces.
- Head with a special angle allows the tool to be easily inserted into the belt molding.
- The sloping edges of the head hold the inner liner firmly and helps pry on moldings.
- Rubber covered body prevents scratches on door paints or windows.
- Durable tool body does not break easily.
- Works on belt moldings with and without clips.
- Large handle provides comfortable grip.

APF00586

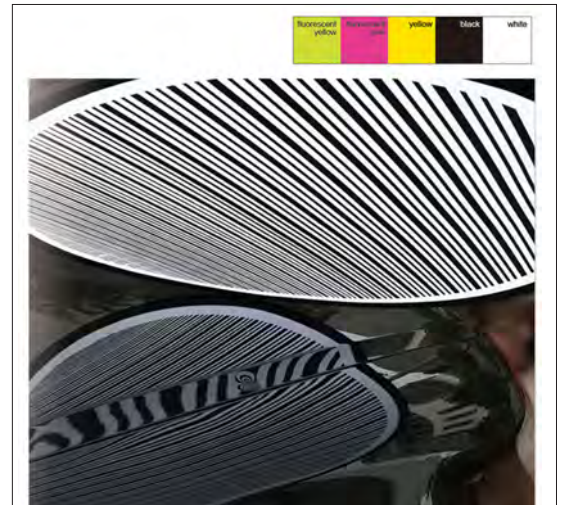
ANTENNA NUT SOCKET SET



- Four double-ended sockets remove and install eight common domestic and foreign antenna nuts.
- Heat-treated alloy steel.
- Smaller sockets: 7/8" hex
- Larger sockets: 1-1/4" hex.
- INSTRUCTIONS:
 1. Select proper socket and place over antenna.
 2. Fully engage socket teeth in nut slots.
 3. Turn socket with wrench.

APPLICATIONS:

MAKE	MODEL	SOCKET	MAKE	MODEL	SOCKET
Acura	'87 to current	#1	Mazda	RX7 '89-'90	#2
Chrysler	'87 to current	#1	Mazda	926 '89-'90	#2
Chrysler	Eclipse	#2	Mazda	626	#2
Chrysler	Laser	#2	Mitsubishi	Galant	#2
Ford	Continental '89-'90	#2	Mitsubishi	Sigma	#2
Ford	Lincoln Mark VII	#3	Nissan	Altima	#4
Ford	Probe '89-'90	#2	Nissan	200ZX	#1
Ford	Sable '85-'90	#3	Nissan	Maxima	#2 or #4
Ford	Taurus '85-'90	#3	Nissan	Pathfinder	#4
Ford	TownCar '89-'90	#2	Nissan	Quest	#2
GM	1977 - current	#3	Nissan	Sentra	#1
GM	Cavalier '88-'90	#2	Nissan	Stanza	#2
GM	GMT400 pickup C & K '89-'90	#2	Toyota	Camry '87-'96	#2
GM	Sunbird '88-'90	#2	Toyota	Celica '90-'97	#2
Honda	Accord	#2	Toyota	Corolla Coupe	#4
Honda	Odyssey	#2	Toyota	Tacoma Truck	#4
Honda	Prelude	#2	Toyota	Truck & 4Runner '90-'95	#2

APF00597
600MM FLEXIBLE PDR LINE BOARD


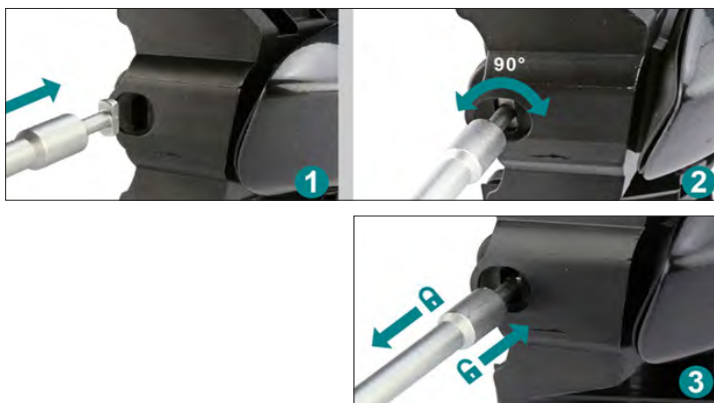
- Great visual aid for PDR (Paintless Dent Repair).
- Applies to insurance adjusters and shoots damaged photos.
- Foldable in few seconds 600mm -+200mm.
- Pattern / Color / Logo can be fully customized.
- Examples of how to use the flexible PDR line board as follows:
 1. Used to record damage during the handover of rental vehicles.
 2. Used to record minor damage to motor vehicles (parking damage).
 3. Used to record the degree of deformation after a road accident
 4. Used to record repair quality (surface finish)
 5. For industrial surface quality control.

APF00600
11PC BODY TRIM TOOL SET


- Remove plastic fasteners that secure the door panel / trim piece without damage.
- Place the tool under edge of the door panel / trim piece, and insert the fastener as much as possible then simplify picking up.
- Different pivot points are designed for proper leverage and prevent distortion that could damage the panel or trim.

APF00681

DOOR HANDLE REMOVAL AND INSTALLATION TOOL (VAG GROUP)



- Used for removal and installation of the exterior door handle.
- Suitable for
VW : Arteon 2017 >, Atlas 2017 >, Caddy 2016 >, Golf Sportsvan 2015 >, Passat 2015 >, Tiguan 2016 >, Touran 2016.
Audi : Q2 2016.
- OEM Ref. T10527

APF00683

ROOF GRAB HANDLE RELEASE TOOL (VAG GROUP)



- The release tool serves to remove the roof grab handle without causing damage.
- Suitable for: VW Golf 2013 >, Golf Variant 2013 >, Golf Estate 2014 >, Tiguan 2016 >; SEAT Ateca 2016 >
- OEM Ref. T10518A / T10518 / T10517

APF00685
FLEXIBLE PDR LINE BOARD (800mm)

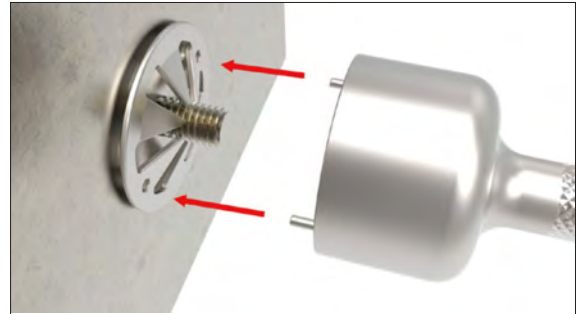

- Great visual aid for PDR (Paintless Dent Repair).
- Works well for insurance adjusters and taking photos of damage.
- Foldable in few seconds , 800mm→300mm.
- Examples of how the flexible pdr line board can be used are as follows:
 For documenting damage during handover of leased vehicles.
 For documenting minor damage to motor vehicles (parking damage).
 For documenting degree of deformation after a road traffic accident.
 For documenting quality of repair (surface finish).
 or quality control of surfaces in industry.

APF00686
UNIVERSAL HOOK TOOL


- The universal hook tool features a couple profiles to choose for the particular application you're dealing with.
- It's small enough to be used in those tight spots where the other tools just can't reach.

APF00759

CLAMPING WASHER TOOL - VAG/FORD



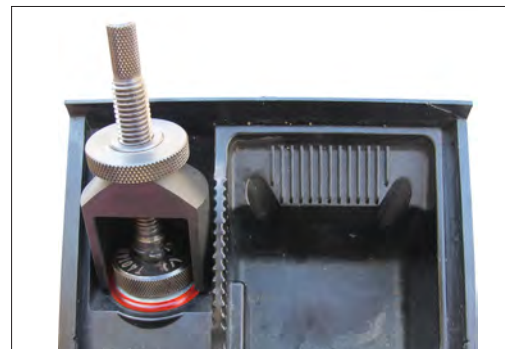
- For the quick and safe removal/fitting of clamping washers which are used on underbody heat shields, etc.
- The Clamping washers are also found on many other vehicle marques.
- 1/4"DR with quick chuck end for use with 1/4"Dr. wrenches, drivers or cordless drills.
- Can compatible with connect clamping discs for VAG.
- Applications:
Audi, SEAT, Ford, VOLKSWAGEN, SKODA.

APF00775

WINDSHIELD WASHER NOZZLES ADJUSTMENT TOOL - MERCEDES BENZ



- Ideal for adjusting the fan washer nozzles for the window cleaning system.
- Applications: for Mercedes-Benz W204, W207, W212, W218.
- Equivalent to OEM 001 589 02 16 00

APF00800
VAG CIGARETTE LIGHTER RELEASE TOOL


- Designed to release the 12V cigarette lighter socket.
- Applications: Audi A4 2001 / Audi A4 2008/ Audi Q5 2008/ Audi A6 2005/ Audi Q7 2007, VAG SERIES VW, Audi, SKODA, SEAT ,etc.

APF00823
CHANNEL-TYPE MOULDING INSTALLATION TOOL


- Used to install the universal mouldings on the glass.
- Soft grip handle for comfortable use.

APF00903

SUBFRAME ALIGNMENT PINS - FORD



- Designed to quickly and simply align the subframe to ensure the vehicle axle, suspension and steering components remain correctly aligned on the vehicle.
- Application:
For a wide range of Ford.
Including: C-Max, Cougar, Escort, Fiesta, Focus, Fusion, Galaxy, Kuga, Mondeo, Orion, Puma, S-Max, Tourneo Connect, Transit, Transit Connect, Transit Custom.
Equivalent to OEM: 205-316A



GENERAL SERVICE TOOLS

- BITS AND SOCKET
- SCREWDRIVERS
- PLIERS AND CUTTER
- WRENCH AND RATCHET
- BEARING / BUSHING / SEAL SERVICE TOOLS
- GEAR PULLER AND SPECIALTY PULLER
- HOSE AND TUBE SERVICE TOOLS
- PICK UP AND MIRROR TOOLS
- SCREW EXTRACTORS AND NUT SPLITTER
- SCRAPER AND HOOK
- PUNCH AND CHISEL
- OIL SERVICE TOOLS
- OTHERS

APG00002

CAMPING AXE



- Ideal for camping, hunting, hiking, the ultimate tool for any outdoor adventure.
- It features an anti-slip handle and comes with a nylon pouch.

APG00003

BRICK HAMMER 300G



- Used to split bricks, tiles, concrete blocks, chip mortar, etc.
- Both striking faces are precision ground, hardened and tempered for strength and durability.
- Shaft is made from good quality hickory wood.
- Head weight: 300g

APG00005**DIGITAL DRUM MEASUREMENT CALLIPER**

- Measurement Range: 0-300mm (Metric & imperial)
- Resolution : 0.01mm
- Accuracy : 0.01mm

APG00006**DIGITAL BRAKE DISC/PAD CALLIPER**

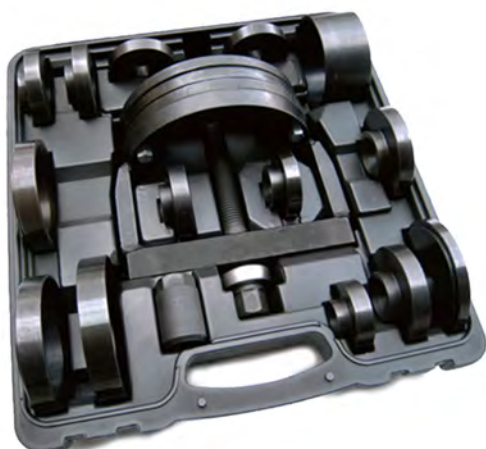
- Measurement Range : 0-150mm (Metric & imperial)
- Resolution : 0.01mm
- Accuracy : 0.01mm

APG00007

MASTER HARMONIC BALANCER INSTALLER SET



- Includes traditional installer adapters as well as long reach adapters for late model applications
- Services harmonic balancers as well as underdrive pulleys and recessed crank threads on Dodge Hemi, GM Gen III/IV, and Ford 4.6 and 5.4 modular engines
- Works on most European vehicles including BMW and VW as well as TOYOTA, HONDA, KIA, HYUNDAI vehicles

APG00008
WHEEL HUB AND BEARING MASTER KIT


- The only equipment designed and accurately and efficiently extract or install hubs and singular wheel bearings of spindle assemblies
- It will tackle front, rear or all wheel drive vehicles with independent suspension and equipped with a solid roller ball bearing
- The application is strictly for wheel assemblies where power is applied from the motor to the wheels, equipped with independent suspension and use a singular solid roller bearing at that wheel
- It's unit on the market to "track arrow straight" when properly assembled on the vehicle under load
- It tackles most front wheel drive Asian, European and some domestic vehicles and within its exclusive design the only unit to tackle Rear wheel drive European vehicles
- Applicable :
 - Rear Wheel Drive
 - BMW, Mercedes, Porsche.
 - Front Wheel Drive
 - European - VW, Audi.
 - American - CHRYSLER, Ford, STARN
 - Asian - TOYOTA / LEXUS, NISSAN /INFINITI, HONDA/ ACURA, MAZDA, HYUNDAI / KIA



APG00009

5PCS DOUBLE EDGE SCREW EXTRACTOR SET



- Double edge design for nonslip right and left turn removal
- Size : NO.1 : 3.5mm, NO.2 : 5.5mm, NO.3 : 7.3mm, NO.4 : 9.3mm, NO.5 : 12mm

APG00010

SELF-GRIPPING PULLER



- A dual-purpose puller.
- Easily removes windshield wiper arm and battery terminal.
- Can be easily positioned to its self-gripping spring mechanism.

APG00011
6PC DISCONNECT TOOL SET


- Works on air conditioning line, fuel line, etc.
- Easily disconnect quick connectors couplings on many vehicles.
- Color-coded products provide easy identification of different sizes.
- Six Sizes: 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"

APG00012
UNIVERSAL SEAL INSTALLER


- The arms of the spider keep the seal centered during installation
- Another benefit to this tool is the spider can be trimmed to fit seals
- The long handle provides good flexibility when installing the pinion seals

APG00013

6PC ANGLED DISCONNECT TOOL SET



- Works on air conditioning line, fuel line, etc.
- Easily disconnect quick connectors couplings on many vehicles.
- The unique offset design allows access in confined or obstructed areas.
- Six Sizes: 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"

APG00014

UNIVERSAL SEAL INSTALLER



- The arms of the spider keep the seal centered during installation
- Another benefit to this tool is the spider can be trimmed to fit seals
- The long handle provides good flexibility when installing the pinion seals

APG00015 、 APG00016 、 APG00017 、 APG00019 、 APG00020 、 APG00021
BALL PEEN HAMMER


Part No.	Head weight
APG00015	8OZ
APG00016	12OZ
APG00017	16OZ
APG00019	24OZ
APG00020	32OZ
APG00021	40OZ

- Ball peen hammer is a tough general purpose tool for striking, punching, riveting, shaping and straightening unhardened metal.
- The hammer features a medium carbon steel head with a tempered striking face and a strength walnut handle.

APG00022
SMALL BEARING SEPARATOR & 2 A3 LEG PULLER KIT


- Bearing separator: 30-50mm
- Separator rod: 115mm
- Separator extension rod: 125mm
- 2 leg work size: 30-125mm
- 3 leg work size: 30-100mm
- Leg size: L 150mm x W16 x D14 x T4-8mm
- Center bolt: 150mm

APG00023

UNIVERSAL TOOL FOR SILENT BLOCKS AND JOINT BEARINGS



- Safe and quick work in replacing silent blocks and joint bearings with ? 40-71mm.
- Very tight-fitting or rusted parts can be easily removed by the 17t hydraulic cylinder.
- Can be used to replace the ball joints with an additional press frame.
- Vital and basic tool set for chassis repair.
- Contents:
 - 17t. hydraulic cylinder; 2 adapters;
 - 570mm long M10 spindle with nut;
 - 570mm long M14 spindle with nut;
 - Press sleeve short: Ø 40mm; Ø 50mm; Ø 58mm; Ø 66mm; Ø 70mm; Ø 80mm
 - Press sleeve long: Ø 50mm; Ø 60mm; Ø 68mm; Ø 76mm; Ø 80mm

APG00024 、 APG00025 、 APG00026

BALL PEEN HAMMER



Part No.	Head weight
APG00024	750g
APG00025	1200g
APG00026	1800g

- Polished copper head fixed with an epoxy resin to securely hold the head in place.
- The hammer features a yellow fiber and black rubber handle.

APG00027
26 PCS 1/2"DR. SPLINE TIP BIT SOCKET SET


- 8-55mm(L) : M5, 6, 8, 9, 10, 12, 14, 16.
- 7-100mm(L) : M5, 6, 8, 9, 10, 12, 14.
- 7-140mm(L) : M5, 6, 8, 9, 10, 12, 14.
- 4-200mm(L) : M8, 10, 12, 14.
- Packing : BMC 4sets / 17.7 / 18.7 / 1.42.

APG00028
30 PCS 1/2"DR. HEXAGON TIP BIT SOCKET SET


- 9-55mm(L) : 5, 6, 7, 8, 10, 12, 14, 17, 19 mm.
- 8-100mm(L) : 5, 6, 7, 8, 10, 11, 12, 13 mm.
- 7-140mm(L) : 5, 6, 7, 8, 10, 12, 14 mm.
- 6-200mm(L) : 5, 6, 7, 8, 10, 12 mm.
- Packing : BMC 4sets / 20.1 / 21.1 / 1.42.

APG00029

HOSE CLAMP REMOVAL TOOL



- Universal design for loosening / opening of HENN clamps as found on coolant hoses / charge air hoses in passenger cars.
- Suitable for VW, Audi, Seat, Skoda, BMW, Peugeot, Citroen, Dacia, Fiat, Ford, Kia, Lexus, Mazda, Mercedes Benz, Nissan, Opel/Vauxhall, Porsche, Renault, Toyota, Volvo, etc.

APG00030

32 PCS 1/2"DR. RIBE TIP BIT SOCKET SET



- 9-55mm(L) : M5, 6, 7, 8, 9, 10, 12, 13, 14.
- 9-100mm(L) : M5, 6, 7, 8, 9, 10, 12, 13, 14.
- 7-140mm(L) : M8, 9, 10, 10.3, 12, 13, 14.
- 7-200mm(L) : M8, 9, 10, 10.3, 12, 13, 14.
- Packing : BMC 4sets / 22.4 / 23.4 / 1.42.

APG00031**6PC NON-MARRING SOCKET/WRENCH INSERT SET - METRIC**

- Large lip for easy removal.
- Prevents damage on soft metals, plated fasteners or powder coated surfaces.

APG00033**QUICK RELEASE GREASE COUPLER**

- Designed for use with air powered, battery powered and hand grease guns.
- Heavy-duty construction withstands higher pressure.
- Four hardened jaws.

APG00034

32 PCS 1/2"DR. TORX TIP BIT SOCKET SET



- 10-55mm(L): T20, 25, 27, 30, 40, 45, 50, 55, 60, 70.
- 10-100mm(L): T20, 25, 27, 30, 40, 45, 50, 55, 60, 70.
- 6-140mm(L): T40, 45, 50, 55, 60, 70.
- 6-200mm(L): T40, 45, 50, 55, 60, 70.
- Packing: BMC 4sets/20.4/21.4/1.42

APG00035

FARM AND SHOP PULLERS WITH 8 MULTI-PURPOSE JAWS



- This economical and versatile model comes with four pairs of multi-purpose jaws that can be reversed for use in both inside and outside pulling.
- The puller comes with four pairs of arms for different jobs.

APG00037**3/4" DR. IMPACT DRIVER**

- Contents:
36L bit - PH1/2/3/5/6/8, 36L bit slotted - 6/8/10,
extension bar(3/4"x4"), adaptor(3/4Fx1/2M),
bit holder(1/2"x5/16")

APG00039**REFILLED BOTTLE**

- Automatic refilling of the master cylinder reservoir while bleeding

APG00040

TORQUE CONTROL OIL DRAIN PLUG KEY SET



- 3/8" Sq drive 18pc torque wrench : Fixed 25 N.m

APG00041

37PC 1/4" DR SOCKET AND BIT SET



- Contents:
1/4 dr. socket
9pc-4/5/6/7/8/10/11/12/13mm, 72-teeth ratchet handle
1pc, one touch quick release bit holder (PAT.)
1PC, bit adaptor
1pc, 1/4x1/4 bit adaptor
1pc, 75L extension bar
1pc 25mmL bit w/color ring
23pc- PH1/2/2/3(red), PZ1/2/2/3(green), SL4/5.5/6.5(blue),
H2.5/3/4/5/6(yellow), TX10/15/20/25/27/30/40 (orange)

APG00043**1/4" T-BAR**

- Size : 1/4"
- Teeth : 72
- Length : 450mm

APG00044**3/8" T-BAR**

- Size : 3/8"
- Teeth : 72
- Length : 450mm

APG00045

1/2" T-BAR



- Size : 1/2"
- Teeth : 72
- Length : 450mm

APG00046

1/4" T-BAR BIT HOLDER



- Size : 1/4"
- Teeth : 72
- Length : 460mm

APG00047**5/16" T-BAR BIT HOLDER**

- Size : 5/16"
- Teeth : 72
- Length : 460mm

APG00048**3/8" T-BAR BIT HOLDER**

- Size : 3/8"
- Teeth : 72
- Length : 460mm

APG00051

FUEL TANK LOCKING RING TOOL (VAG GROUP)



- This tool is designed to remove and install the fuel tank locking ring.
- 120mm internal diameter with 3 slotted teeth to grip ring.
- OEM Ref .T10202(3087)
- Application(2000~)
Audi: A3, A4, A6, A7, A8, Q3, Q5, Q7, R8, TT
VW : Polo, Beetle, Golf, Golf Plus, Golf Cab, Jatta, Eos, Scirocco. Passat, Passat CC, CC, Sharan, Touran, Tiguan, Touareg, Phaeton, Caddy, Transporter including LCV models.
PORSCHE: Cayenne.

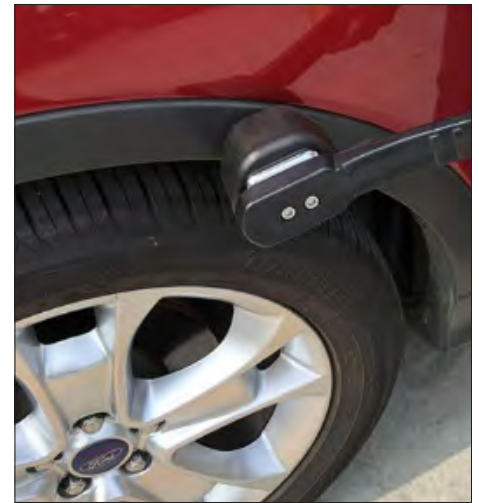
APG00052-1 、 APG00052-2 、 APG00052-3 、 APG00052-4

TUBE-TYPE CLEANER WITH AIR



- Used to clean confined areas, such as filters and radiator.
- 90° angle and 5-port air outlet are designed to increase accessibility and maximize air pressure and volume
- Ergonomic comfort grip handle.

Part No.	Part Name
APG00052-1	TUBE-TYPE CLEANER WITH AIR 12"
APG00052-2	TUBE-TYPE CLEANER WITH AIR 24"
APG00052-3	TUBE-TYPE CLEANER WITH AIR 36"
APG00052-4	TUBE-TYPE CLEANER WITH AIR 48"

APG00053
SPECIAL Mallet


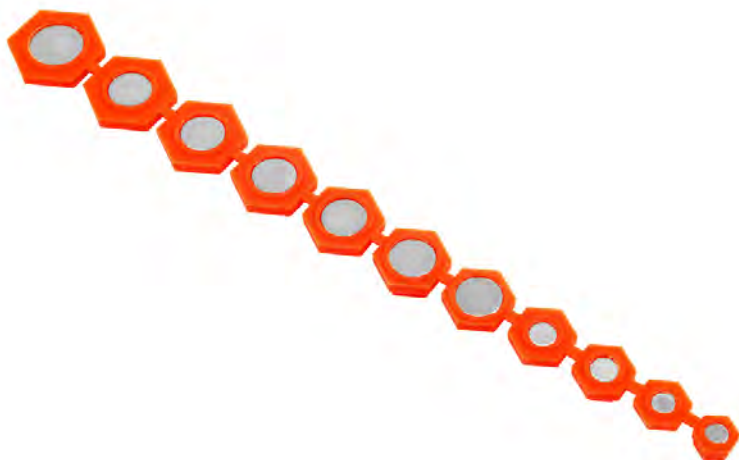
- Mallet with special rubber filler that is elastic in nature, but hard when in use.
- For pushing in and fixing vehicle door weatherstrips, fender flares, and bumpers.
- Avoid scratching and damaging bumpers, panels, and car body in general.

APG00054
GROMMET TOOL KIT


- Provides a fast and easy way to change upper and lower dies.
- Designed to install variety of grommets, eyelets, snap buttons with suitable dies.
- 10 sizes hole punches allows to make perfect rounds on tents, canvas, leather, etc.

APG00056-1

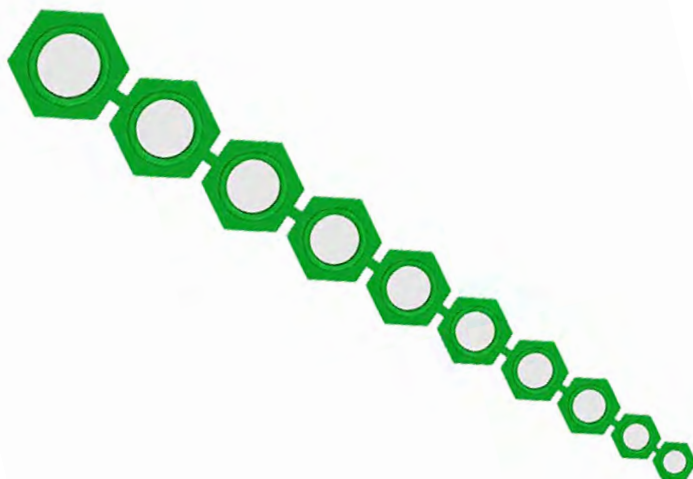
MAGNETIC SOCKET INSERT - METRIC



- Magnetic socket inserts work on both standard and deep sockets and are removable and reusable.
- Ideal for use in areas where access is limited.
- Metric size: 8, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19mm
- SAE size: 5/16", 3/8", 11/32", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16" and 7/8"

APG00056-2

MAGNETIC SOCKET INSERT - SAE



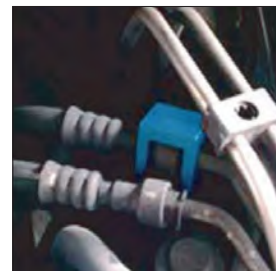
- Magnetic socket inserts work on both standard and deep sockets and are removable and reusable.
- Ideal for use in areas where access is limited.
- Metric size: 8, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19mm
- SAE size: 5/16", 3/8", 11/32", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16" and 7/8"

APG00065
MAGNETIC T-HANDLE DRIVER FOR SOCKET AND BIT


- T-handle driver, provides no stress among fingers.
- For use with 3/8" dr. (socket)/1/4" hex (bit)
- Size: 120mm wide x 150mm long
- Material: CR-V

APG00066
TWO WAY MAGNETIC T-HANDLE DRIVER FOR SOCKET AND BIT


- Ideal for auto field, home, shop, work place and more.
- For use with 3/8" dr. (socket)/1/4" hex (bit)
- Size: 85mm wide X 150mm long
- Body material: CR-V

APG00067**BMW LINE DISCONNECT TOOL**

- Used to disconnect fuel lines on BMW models and is especially useful on 2006 - 2011 BMW 3-Series and 2006 - 2009 X3 (E90&E83).

APG00068**TWO WAY MAGNETIC T-HANDLE DRIVER SOCKETS AND BITS SET**

- Perfect set for everyday use around home and workshop.
- For use with 3/8" dr. (socket)/1/4" hex (bit)
- Diameter: 10 mm
- T-handle: 85mm wide X 150mm long
- Shank Material: CR-V
- Contents:
 - 3/8" dr. socket: 8,10,12,13,14 mm
 - 1/4" 25mmL bit: Tire valve, 3/8" square drive bit, PH2, PH3, SL4, SL5, SL6, H2, H3, H4, T10, T15, T20
 - Two way T-handle driver x1

APG00069
T-HANDLE DRIVER SOCKETS AND BITS SET


- For use with 3/8" dr. (socket)/1/4" hex (bit)
- Size: 120mm wide X 150mm long
- Material: CR-V
- Contents:
 - 3/8" dr. socket: 8, 10, 12, 13, 14 MM
 - 1/4" 25mmL BIT: Tire Valve, 3/8" square drive bit, PH2, PH3, SL4, SL5, SL6, H2, H3, H4, T10, T15, T20

APG00070
UNIVERSAL EXTENDER ADAPTER


- The Universal extender adapter can loosen tight connection of hex, TX and XNZ
- Can use with socket or 3/4" ratchet as a handle

APG00071

UNIVERSAL EXTENDER WRENCH TOOL 400MM



- Universal tool with 400mm length provides a greater leverage, also helps to loosen tight fasteners in hard to reach areas.
- Made of chromium vanadium for maximum performance and durability, heavy duty construction.
- Recommend to wear gloves and goggles in high powered situations.

APG00076

4PC STUD PULLER WRENCH SET



- Designed for hard to get at studs.
- Removes right-hand or left-hand threaded studs without damaging threads.
- Sizes: 2.5, 3, 3.5 and 4mm

APG00077
UNIVERSALHOSE CLAMP REMOVER


- For replacement of fuel; oil and water hose
- Hose clamp with flexible 600mm wire
- Convenient for working hidden areas and long distance
- Clamp open 10 - 63mm

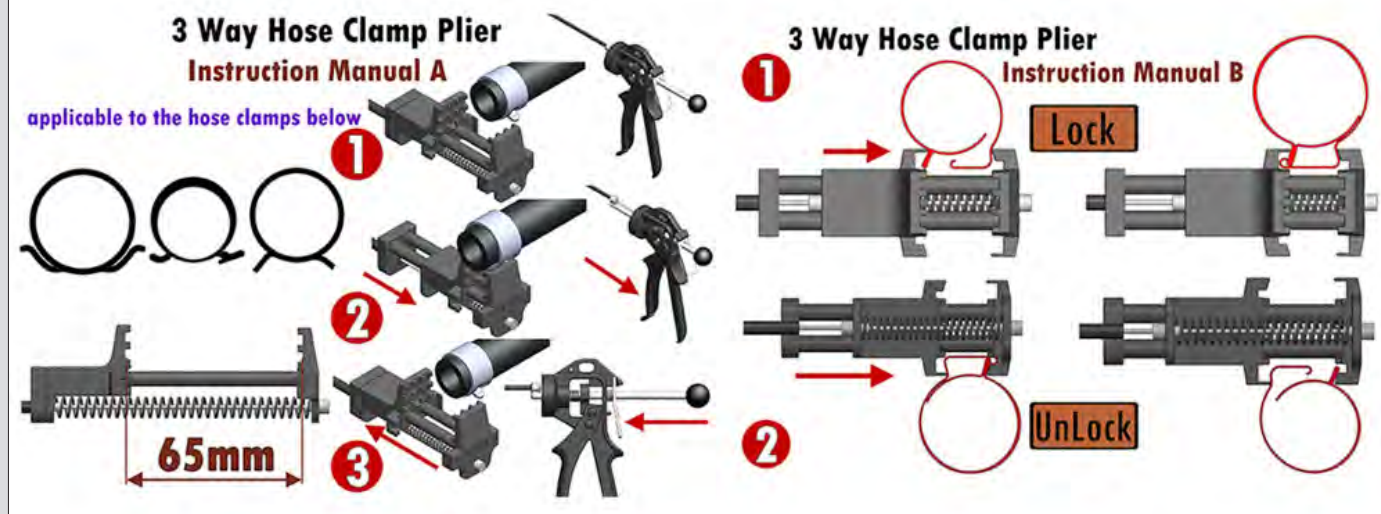


APG00078

3 WAY HOSE CLAMP PLIER(10mm - 65mm)

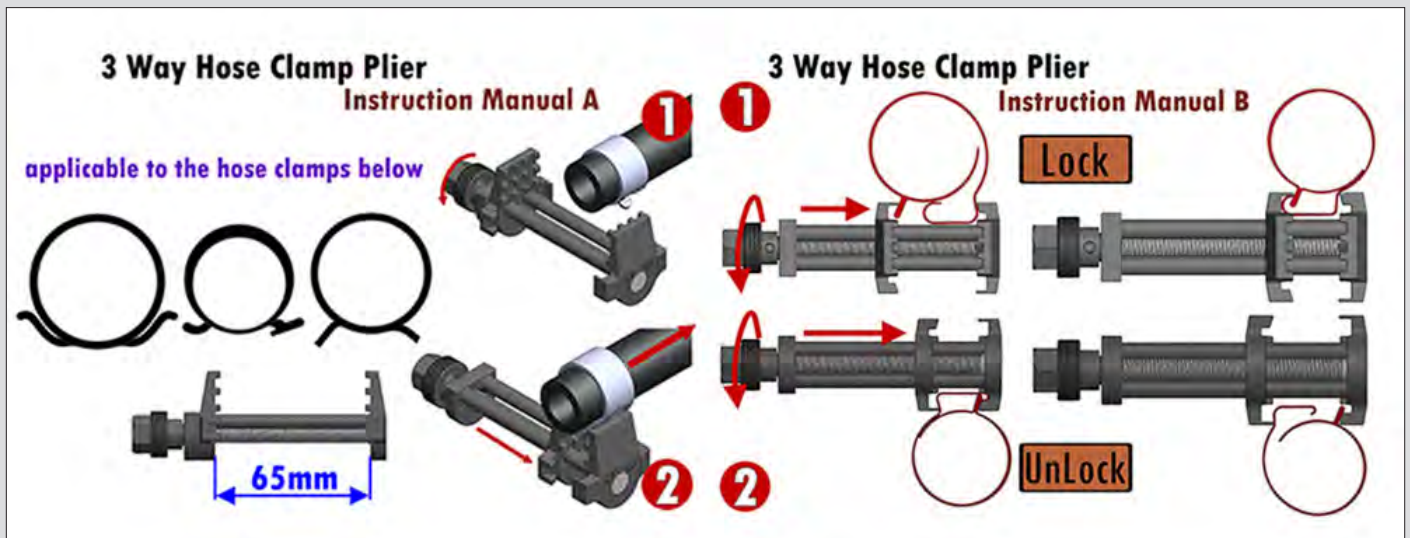


- Allow for removal of hose clips, and for them to be held in an open position.
- Allow for removal of plastic and metal self-clamping clips between 10mm and 65mm.
- Precision clamping at the end of a bent line allows access to clips in hard-to-reach areas.
- Pinchers possess a lock which facilitates work.



APG00079
3 WAY HOSE CLAMP PLIER(10mm - 65mm)


- Allow for removal of hose clips, and for them to be held in an open position
- Allow for removal of plastic and metal self-clamping clips between 10mm and 65mm
- Precision clamping at the end of a bent line allows access to clips in hard-to-reach areas
- Pinchers possess a lock which facilitates work.



APG00080

9PC SCREW EXTRACTOR SET



- Made of high-grade steel.
- For removal of damaged, stripped, rusted, broken, or stuck screws from wood or metal surface with relative ease.
- Suitable for following screw sizes: 1/8 -1/4 (M3-6), 1/4 -5/16 (M6-8), 5/16 -7/16 (M8-11), 7/16 -9/16 (M11-14), 9/16 -3/4 (M14-18), 3/4 -1 (M18-25), 1 -1 1/8 (M25-28), 1 1/8 -1 1/4 (M28-32), 1 1/4 -1 7/16 (M32-36)

APG00081

8PC SCREW EXTRACTOR SET



- Made of high-grade steel.
- For removal of damaged, stripped, rusted, broken, or stuck screws from wood or metal surface with relative ease.
- Suitable for following screw sizes: 1/8 -1/4 (M3-6), 1/4 -5/16 (M6-8), 5/16 -7/16 (M8-11), 7/16 -9/16 (M11-14), 9/16 -3/4 (M14-18), 3/4 -1 (M18-25), 1 -1 1/8 (M25-28), 1 1/8 -1 1/4 (M28-32)

APG00085 、 APG00086 、 APG00087
WATER SENSOR WRENCH FOR DURAMAX


- APG00085 (DODECAGON) : 2001~2011 6.6L Duramax diesel engines.
- APG00086 (HEXAGON) : 2012~ 6.6L Duramax diesel engines.
- APG00087 (OCTAGON) : 2001~2011 6.6L Duramax diesel engines.
- For use when replacing the fuel filter or when servicing the water sensor.
- The plastic sensor is easily damaged by tool that do not specially fit the sensor.

APG00091
UNIVERSAL THREAD REPAIR TOOL


- The Universal Thread Repair tool restores threads in both inch and metric right and left hand threads.
- There is no calibration required and it is self adjusting to any pitch and size within range.
- Can repair 5/32" to 3/4" SAE, 4 to 19mm Metric, and up to 7/16" Pipe Thread.

APG00092

ADJUSTABLE SEAL PULLER



- Head adjusts to 5 positions
- Two hook sizes easily remove most oil and grease seals
- Where clearance is a problem, remove the pin to reposition the head
- The adjustable head works great on front wheel drive trans-axles
- Also works on front crankshaft seals without removing the radiator

APG00093

UNIVERSAL THREAD REPAIR TOOL



- The Universal Thread Repair tool restores threads in both inch and metric right and left hand threads.
- There is no calibration required and it is self adjusting to any pitch and size within range.
- Can repair 11/16 to 1-1/2 SAE, 17 to 38mm Metric, and 3/8 V 1-1/8 Pipe Thread.

APG00094
ADJUSTABLE TORQUE SCREWDRIVER WITH TWIN DISPLAY


- In-lb range: 5 in-lb to 35 in-lb
- Two windows display for in-lb and N.m.
- Accuracy: $\pm 6\%$
- Soft grip handle manufactured from TPR for comfortable use Quick change design W/mini effort
- Application: air bag, crash sensor, inertia reel fixtures

APG00095
UNIVERSAL THREAD REPAIR TOOL


- Restores inch or metric, coarse or fine, right or left handed external fastener threads without the need for measuring.
- Range: 35-152mm (1 3/8 - 6.0)
- Pipe: 1 - 5 1/2

APG00097

AIR POWERED FLUID EXTRACTOR SET



- Designed for extracting engine oil, brake fluid, coolant, and ATF.
- 6 liter / 1.5 gallon tank capacity suitable for most fluid extraction.
- Conical adaptor for pouring dirty fluid with no spills.

APG00098

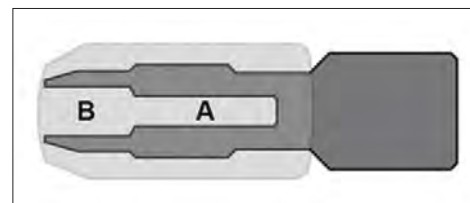
MULTI DIRECTIONAL OFFSET PLIERS



- Long reach pliers to access to confined areas.
- Offset design for awkward locations.

APG00101
ADJUSTABLE TAP SOCKET

 19
mm

 3/8"
dr.


- Designed for use with taps, reamers, screw extractors and other tools with a square shank.
- Two sections design to fit common taps from M4 - M14.
- Fits all 3/8" square drive tools.
- For use in tight workspaces.

APG00102
1/4" DRIVE CROWFOOT WRENCH SET - METRIC

 1/4"
dr


- Use in hard to reach, confined spaces.
- Adapted to low torque applications.
- Sizes: 7, 8, 10, 11, 12, 13, 14mm
- The set includes breaker bar and extension bar.

APG00103

HOOD PROP



- Suitable for all kinds of cars and trucks.
- The stepless, extendable design allows the mechanic to hold the hood in any preferred position.
- Also suitable for repairing on hatchbacks, doors or truck lids.
- Can be extended from 18-1/2" to 46-1/2".

APG00104

MAIN FUEL LINE DISCONNECT FOR TOYOTA & NISSAN



- Disconnects the 5/16" Main Fuel Line from the Fuel Rail on Many TOYOTA and NISSAN Vehicles
- Hinged design and fully tapered end allow tools to be quickly and easily inserted into the fuel line quick connector, even in hard-to-reach areas
- Works on TOYOTA Echo, Scion XB, xA, TC, Solara, Corolla, Sequoia, Celica, RAV 4, Prius, Camry, MR2, Matrix, Tundra and Highlander
- Also for 2004 and newer NISSAN models with a 5/16" fuel rail

APG00106
MASTER PLUS DISCONNECT SET


- Contains Popular Disconnect Tools for A/C, Fuel, Transmission, Oil Cooler and Air Lines
- A complete set of disconnect tools that can be stored in a handy blow-molded case
- All disconnect tools are also available individually

APG00108
DIFFERENTIAL FLANGE NUT SOCKETS FOR VOLVO - 1/2" DRIVE


- 1/2" Drive impact sockets for Volvo truck differential flange nut.
- Suitable to use with an air impact wrench for quick removal.
- Dimensions: 15(H) X 150mm(L), 18(H) X 150mm(L)
- OEM No.: 9996369, 9996785
- Application: Volvo truck

APG00109

JUMBO REFRACTOMETERS WITH LIGHT



- Jumbo size with LED light to read in all environments easily.
- Accurate readings with automatic temperature compensation.
- Easy to read, to use, to clean with excellent precision.

APG00110

PRESET TORQUE SCREWDRIVER



- Two-value display for in-lb and N.m
- Accuracy: $\pm 6\%$
- Soft grip handle manufactured from TPR for comfortable use
- Audible click at achieved torque w/ automatic reset
- Persistent fastening for quality control
- Range: 3.4 Nm to 7.9 Nm (30 to 70 in-lbs)
- An assembly 1/4" tetragonal adapter for 1/4" standard hex. bits
- Length: 175 mm

APG00112**OIL FUNNEL FOR RENAULT/ NISSAN**

- Suitable for Renault and Nissan 1.5 and 1.9 DCI.
- Funnel can be directly connected to oil filler necks, eliminating unsafe oil spills.
- Lower transparent chamber shows oil flows down to engine.
- The perfect-fit funnel reduces airlocks caused by narrow passages.
- Engine oil bottles can be put up side down on funnel.

APG00113**ALUMINUM MITER BOX**

- Lightweight Aluminum mitre box with 3 cutting angles
- Cutting in accurate 45° & 90 ° angle use
- Extended lip for stable positioning on workbench
- Length 135mm
- Plastic (ABS) mitre box is available

APG00114

FLEXIBLE AND MOLDABLE FUNNEL LARGE



- Funnel can be molded into different shapes, making or draining easier.
- Suitable for truck and heavy duty vehicles.
- Temperature range from -35°C to 105°C (-31 °F to 221 °F)

APG00117

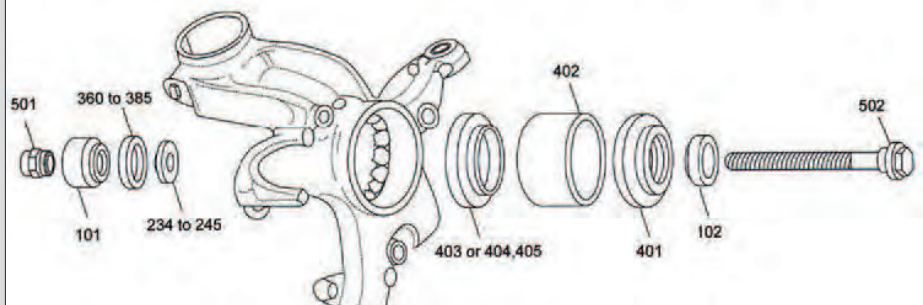
HOSE CLAMP TENSIONER



- Use lever to release hose clamp
- Turn the ring to adjust the distance
- Designed jaw can hold hose clamp well
- Size: 2-53mm
- Suitable for spring clamps:

APG00124
PROFESSIONAL WHEEL BEARING TOOL SET


- Suitable for VW, Audi, SEAT, Ford, OPEL, etc.
- For wheel bearing diameter 60mm-85mm.
- This tool set is for precise, quick and professional replacement and removal of wheel bearing.
- This kit can be accurately centered and alignment when changing wheel bearing, it is also can prevent damage to the new wheel bearing.
- Minimum working effort – high time saving
- Simple and safe handling

Operation example: Disassemble Wheel Bearing


APG00125

MANUAL FLUID EXTRACTOR



- Manual operation.
- Free maintenance .
- Transparent tank to see fluid level.
- Modularized design to provide best performance.

APG00127

HOSE CLAMP TENSIONER



- Quality carts for automotive, shop and maintenance applications.
- Easy assembly with rubber mallet.
- Molded shelves won't rust, dent, or require painting.
- 4" brake wheel x 2 pcs.
- 4" swivel wheel x 2 pcs.
- Will not scratch car finish.
- material: PA + 30% fiber.
- Upright: Aluminum alloy.

Model	KT-4658D
Dimension	575 x 460 x 900 m/m
Weight	PA + 30 % fiber
Each Upright Height	280 mm
Divider	6 pcs

APG00128
5L OIL FLASK AND MEASUREMENT DOUBLE PACK


- Keep half a litre of essential liquids close to hand.
- This container is ideal for touring or keeping a safe margin of liquid with your scooter.
- Can carry oil & similar liquids safely & comes with an accurate pouring spout as standard.

APG00130
SYRINGE FOR FUEL SUPPLY / EXTRACTION


- Transparent design to visualise the fluid.
- Suitable to add or remove gasoline or diesel fuel from filters, etc.
- Rotative switch off.

Model	APG00130
Weight	0.93 kg
Capacity	1.5 L
Usage	Gasoline / Diesel / Fuel

APG00132

ADJUSTMENT WATER PUMP PLIERS



- Induction hardened jaws up to 55 HRC with high wear resistance.
- Fast adjustment on the object by sliding up the handle.
- With 10 smooth position and adjustments.
- Jaw capacity: 60mm

APG00133

CABLE SHEARS WITH TWIN CUTTING EDGE - 200MM



- Suitable for cutting copper and aluminum cables.
- Not suitable for steel wire and hard drawn copper conductors.
- Front section of cutter designed to stripping cable and pre-cut thicker cable.
- This specially designed wave cutter helps prevent the cable slipping.
- Ergonomic handle provides greater power output.

APG00134**MULTIFUNCTIONAL PLIERS**

- Smooth gripping surface prevents damage to materials.
- The jagged grip surface has a better grip.
- Slim size for easy access.
- Invisible spring system.
- Clear the incision on the outer edge for deburring and widening holes.

APG00135**FUEL TANK LID WRENCH FOR TOYOTA & LEXUS**

- Removes and Installs fuel tank lid
- 9 slot design with 173mm OD & 143mm ID
- Use with 1/2" square drive tools
- Suitable for Toyota & Lexus vehicles from 2004 & up

APG00137

DRAIN PAN WITH LEVEL SCALE



- Transparent design to see through the draining volume.
- Very useful in transmission fluid change.
- Check drain old fluid volume before filling new fluid to prevent waste.

APG00138

VOLVO FUEL TANK LOCKING RING TOOL



- This tool is designed special to remove and install the fuel tank locking ring on Volvo diesel or petrol engine
- Suitable for: C30, C70(06~), S40(04~), S60(11~), S80(07~), S80L, V40(13~), V40 Cross Country, V50, V60,
- V70(08~), XC60, XC70(08~)
- OEM Ref. 9997093

APG00139
15 IN 1 RATCHET SCREWDRIVER


- Adjustable ratchet screwdriver for T bar and straight standard style.
- 6pc 1" screwdriver bits
 Slotted: 4, 6mm
 Philips: #1, #2
 Star: T20, T25
- 8pc folding hex key wrench for high torque: 1.5, 2, 2.5, 3, 3.5, 4, 5, 6mm

APG00140
VOLVO FUEL TANK LOCKING RING TOOL


- This specialized tool is designed to remove and install the fuel tank locking ring on all Volvo P2 platform vehicles
- Suitable for the following engines:
 B5204T4, B5204T5, B5234T3, B5234T7, B5244S, B5244S2, B5244S6, B5244SG,
 B5244SG2, B5244T3, B5244T4, B5254T2, B6284T, B6294S, B9294S2, B6294T,
 B6304S3, B8444S, D5244T, D5244T2, D5244T3, F5252T MSA 15.8, B5204T3
- OEM Ref. 9995720

APG00141

FUEL TANK LOCKING RING TOOL



- This tool is designed to remove and install the fuel tank lock rings
- OEM Ref. KM-797
- Suitable for Opel / Vauxhall / Saab / Saturn

APG00144

GUIDE SLEEVE PULLER



- Can be pulled out and replaced without any damages incurred
- The puller works on the principle of an internal collet chuck
- Guide sleeve are used for accurate fixing of the housing valves
- Do not install or remove with tongs or a hammer

APG00145-1**2 IN 1 EXTENSION BAR - 3/8" SQUARE DRIVE**

- Feature with clockwise/anticlockwise operating function and used with electric-powered tool.
- Used with 1/4" bits and 3/8" drive socket.
- Length: 200mm

APG00145-2**2 IN 1 EXTENSION BAR - 1/2" SQUARE DRIVE**

- Feature with clockwise/anticlockwise operating function and used with electric-powered tool.
- Used with 1/4" bits and 1/2" drive socket.
- Length: 200mm

APG00146

2 IN 1 FUEL TANK LOCK RING KIT



- An innovative tool for the removal and fitting of fuel gauge sender collars.
- Channel design on body allows 2 interchangeable sets of legs to regulate and retains the drive centered.
- Operation range: 90 to 170mm
- Applications: -2004 newer Ford F-150 trucks, -2004 newer Chrysler / Dodge mini-vans, PT Cruiser, Dakota, Durango, -2004 newer Chevy trucks.

APG00148

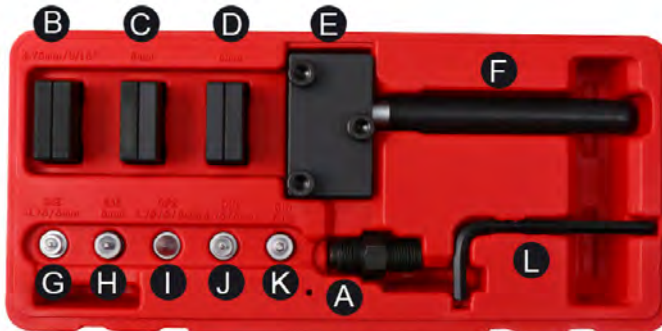
AIR PULSE PARTS CLEANER



- Easy to bring to work place
- Plastic material provides best resistance to water based solvent
- With aluminum extendable pallet

APG00151
PLASTIC WITHOUT DAMAGING PAINT TOOLS


- Offer a broad line of composite-plastic hand tools for prying and scraping
- The material designed to avoid damaging sensitive surfaces is more durable than normal plastic
- Use composite pry bars to pull away automotive trim without damaging the paint job. Scraper can remove gasket material from an engine head without nicking metal
- The flat-bladed paint scrapers feature rounded corners and are perfect for wallpaper removal without tearing the surface of drywall while operating
- The composite tools offer endless applications that avoid marking up or harming a work piece
- Material: High-strength plastic

APG00152
BRAKE FLARING TOOL SET


- A: 1 x Force Screw
- B: 1 x Pair 4.75mm(3/16") Dies
- C: 1 x Pair 5mm Dies
- D: 1 x Pair 6mm Dies
- E: 1 x Main Part
- F: 1 x Handle
- G: 1 x SAE"Operation 1: 4.75(3/16") & 5mm Punch
- H: 1 x SAE"Operation 1: 6(1/4")mm Punch
- I: 1 x SAE"Operation 2: 4.75(3/16") & 5mm 6(1/4")mm Punch
- J: 1 x DIN 4.75(3/16") & 5mm Punch
- K: 1 x DIN 6mm(1/4") Punch
- L: 1 x Hex wrench 5mm
- DIN CONVEX FLARE (DIN)
- SAE CONVEX FLARE (SAE OP1)
- SAE DOUBLE FLARE (SAE OP2)

APG00153

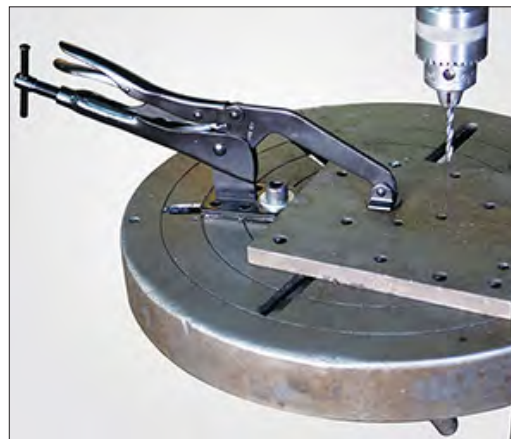
UNIVERSAL SEAL INSTALLER



- A: Long Handle x 1pcs
- B: 3.0" (76mm) Driver x 1pcs
- C: 2.5" (63mm) Driver x 1pcs
- D: 1.7" (45mm) Driver x 1pcs
- Applicable: 1-1/8" (27mm) ~ 2-3/8" (60mm)

APG00155

TABLE MOUNT C-CLAMP



- Five holes in base of tool allow fixing on machinery t-slots or on tables and workbenches
- Constructed of high-grade heat-treated alloy steel for maximum toughness and durability
- Clamps sections for drilling, light milling, welding, gluing, carving, etc...
- Swivel pad holds tapered workpieces without damage
- Can lock firmly or attach loosely to permit sliding and/or pivoting
- Designed to mount directly to your workbench
- Quick lock and release the ideal repetitive clamping
- Use the T-shape screw head for easy adjustment
- Also suitable for use with drilling or sawing machine
- Electrodeposition coating

APG00159
SYRINGE FOR ADBLUE SUPPLY / EXTRACTION


- Transparent design to visualise the fluid
- Suitable to add or remove AD blue liquid from reservoir tanks
- Rotative switch off

APG00162
ADJUSTABLE WRENCH SPANNER


- The Range from 3/4" to 6 1/2"
- Special ratchet structure handle to gain more free movement in small space
- Two types : Pin and Hook for operating

APG00163

FLUID REFILL SET (WITH 15 ADAPTERS)



- Designed for refilling ATF, gear oil and differential oil
- Can be operated pneumatically and manually
- Large tank (12.5L/3.3 gallon) are suitable for transmissions that require volume of ATF
- Tank marked with liter and US quart
- Provided with 15 adapters for transmissions without a dipstick
- Temperature range: -40 to 80°C
- Tank does not have vacuum function

APG00164

RACING CREEPER



- Low profile design with excellent ergonomics and comfortable EVA padding.
- Easy glide 3" TPU wheels feature ball bearings.
- Size: 1045mm x 517mm x 90mm

APG00165
9PC 3/8"DR. IMPACT UNIVERSAL HEX DRIVER SOCKET SET

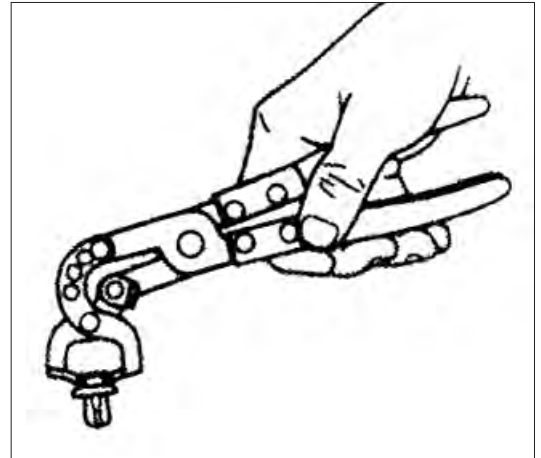

- Material : CR-MO
- Contents : T20, T25, T27, T30, T40, T45, T47, T50, T55?

APG00166
9PC 1/2"DR. IMPACT UNIVERSAL HEX DRIVER SOCKET SET


- Material : CR-MO
- Contents : 8, 9, 10, 12, 13, 14, 16, 17, 19mm

APG00167

CLIP REMOVAL PLIER



- Design to remove & destroy plastic clips
- Can adjust the angle from 0°~90°
- Quick release design

APG00169

HEAVY DUTY LOCKING RING TOOL



- Designed to fit the larger lock rings.
- The adjusting screw has a 3/8" ratchet handle, which provides enough power to easily remove the stuck and rusted lock ring.
- Regardless of the size or position of the locking ring, the grip angle between the tips will always be correct.
- Compared with ordinary pliers, this makes the tool safer, more effective and easier to use.
- Contents:
 - 2pc Circlip Pin 2.2mm
 - 2pc Circlip Pin 2.5mm
 - 2pc Circlip Pin 3.0mm
 - 2pc Circlip Pin 3.5mm
 - 2pc Circlip Pin 3.8mm
 - 2pc Circlip Pin 4.2mm
 - 2pc Circlip Pin 2.2mm with 45 degree angle
 - 2pc Circlip Pin 2.5mm with 45 degree angle
 - 2pc Circlip Pin 3.0mm with 45 degree angle
 - 2pc Circlip Pin 3.5mm with 45 degree angle
 - 2pc Circlip Pin 3.8mm with 45 degree angle
 - 2pc Circlip Pin 4.2mm with 45 degree angle
 - 2pc Circlip Pin 2.2mm with 90 degree angle
 - 2pc Circlip Pin 2.5mm with 90 degree angle
 - 2pc Circlip Pin 3.0mm with 90 degree angle
 - 2pc Circlip Pin 3.5mm with 90 degree angle
 - 2pc Circlip Pin 3.8mm with 90 degree angle
 - 2pc Circlip Pin 4.2mm with 90 degree angle

APG00170

9PC 3/8"DR. IMPACT UNIVERSAL TROX DRIVER SOCKET SET



- Material : CR-MO
- Contents : T20, T25, T27, T30, T40, T45, T47, T50, T55

APG00171

9PC 1/2"DR. IMPACT UNIVERSAL TROX DRIVER SOCKET SET



- Material : CR-MO
- Contents : T30, T40, T45, T47, T50, T55, T60, T70, T80

APG00172
10PC 3/8"DR. POWERFUL IMPACT UNIVERSAL SOCKET SET


- Material : CR-MO
- Contents : 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

APG00173
8PC 1/2"DR. POWERFUL IMPACT UNIVERSAL SOCKET SET


- Material : CR-MO
- Contents : 13, 14, 15, 16, 17, 19, 21,? 22mm

APG00176

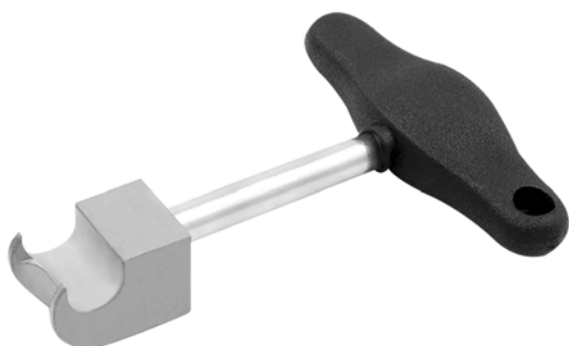
4PC SEAL AND O-RING REMOVAL TOOL SET



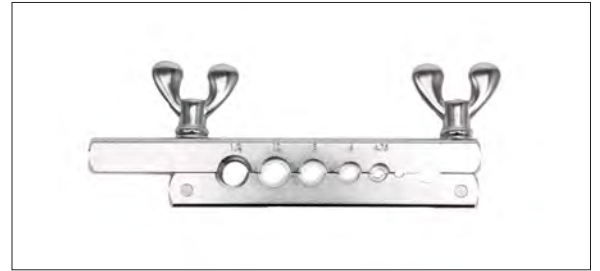
- Rounded tip with blended edge for easy removal of seals and o-rings
- Without damage to seal, o-ring or surface
- 2 tip configurations / 2 blade lengths for most seal removal situations
- Suitable for
 - (1) transmissions (2) fork seals and caliper dust boot on motorcycle (3) steering racks and pumps (4) injectors and fuel rail o-rings (5) heater and vacuum hoses (6) oil pump drive shaft seals (7) inner tie rod rack boots and cv boots

APG00177

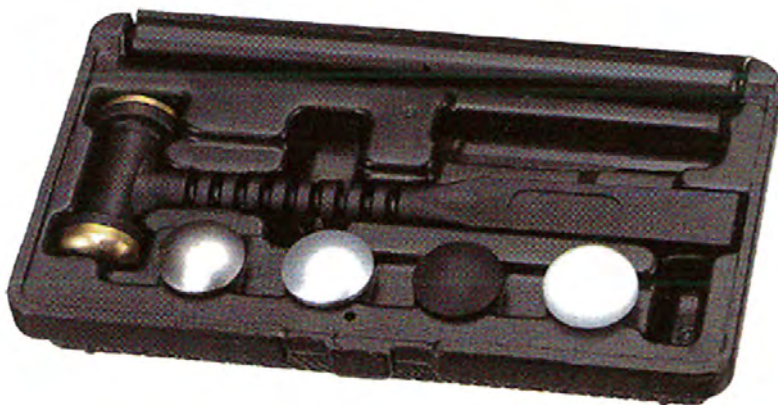
HOSE CLAMP REMOVAL TOOL



- Designed for the professional loosening/opening of HENN Clamps as found on coolant hoses/charge air hoses in passenger cars
- An indispensable tool when removing/installing coolant hoses/charge air hoses etc. The handle of the tool can be unscrewed and repositioned by 90 degrees.
- This allows even HENN Clamps which are difficult to access to be loosened/opened with ease
- Suitable for Volkswagen, Audi, Seat, Skoda, BMW, Peugeot, Citroen, Dacia, Fiat, Renault, Toyota, Volvo, etc ...

APG00178
MASTER FLARING TOOL KIT


- Bar : 3/6", 1/4", 5/16", 3/8", 1/2" & 4, 4.75, 6, 8, 10mm
- Cutter : capacity 1/8"~5/8"(3~16mm)O.D. Tube for copper
- Adapters : Cone 90° : 3/16", 1/4", 5/16", 3/8" & 4, 4.75, 6, 8, 10mm

APG00179
MINI HAMMER MULTIFUNCTIONAL TOOL SET


- Mini hammer with six different interchangeable tips : one round copper, one flat copper, one flat plastic, one round rubber, one round aluminum and one round steel.

APG00181

TURBO POWER FOAM GUN



- Essential tool for car washing, motorcycle, buildings, driveways, floors, windows washing, roofs etc.
- Works with an air compressor.
- Specifications:
 - Working pressure: 0.3 to 1.5Mpa(3 to 15Bar)
 - Material: Body: Aluminum alloy; Bottle: HDPE
 - Capacity: 1L
 - Port size: 1/4 G
 - Air consumption: 8Bar≥300L/M
 - Shooting Range:2.5M (inlet 5Bar)

APG00183

AIR NEEDLE SCALER KIT SET



- Specification:
 - Blow per minute: 4600 (BPM)
 - Needle used: 19pc (3MM)
 - Air inlet: 1/4"
 - Air pressure: 90 (PSI)
 - Sound pressure level: 92DB (A)
 - Sound power level: 104DB (A)
 - Vibration level: 10.2M/S²
- Contents:
 - 1pc Air needle scaler
 - 1pc Quick Change Chuck
 - 2pc Special air chisel

APG00184
AIR FLUX CHIPPER AND NEEDLE SCALER HEAD KIT SET


- Specification:
 - Blow per minute: 4250 (BPM)
 - Needle used: 19pc (3MM)
 - Air inlet: 1/4"
 - Air pressure: 90 (PSI)
- Contents:
 - 1pc Flux chipper
 - 1pc Air needle scaler
 - 4pc Special air chisel

APG00191
5-WAY HIGH TORQUE RATCHET SCREWDRIVER


- 5 way high-torque steel ball buckles ratchet screwdriver (0, 45, 90, 135, 180 degree).
- Special design tool allows customer to connect with bits and sockets optionally.
- Durable polycarbonate handle is virtually indestructible.

APG00192

11PC SAW AND SCREWDRIVER SET



- Handle made from durable ABS material.
- Handle is hinged and locked for in-line use or at a 60 degree angle to form a comfortable pistol grip.
- The handle comes in a nylon belt holster with two 6" blades and seven S2 driver bits with a 1/4" socket adaptor.

APG00193

MINI BULB PLIER



- The rubber-coated handle ensures safe use.
- The cup-shaped ends form a circular grip area.
- Scissor design for easy handling.
- Specially designed for hard to reach bulb areas.

APG00194
12PC CLIP-TYPE BIT BOX & RATCHET SET


- The set with ratchet and magnetic quick release bit holder.
- Supplied in a convenient case with 4 position belt clip CR-MO steel 1/4"x94mm ratchet.
- Quick release magnetic 1/4"x65mm bit holder.
 10pc, 25mm, S2 hardened steel bits:
 Phillips: PH0, PH1, PH2,
 Slotted: 3, 5, 6 mm
 Hex: 3,4 mm
 Torx: T10, T15

APG00195
3PC 2 FUNCTION UNIVERSAL JOINT SET


- Dual function design allows two way extension to be used as a standard extension or as a 360 X swivel universal extension.
- Set includes extensions in sizes 3/8", 1/2" , 1/4"
- Extensions made of Chrome Vanadium Steel (CR-V).

APG00197

21PC 1/2" DRIVE TWO WAY LOCKING FOLDING HANDLE WITH SOCKETS SET



- Both stubby ratchet and 2 way locking folding handle have quick release buttons.

■ THE SET INCLUDES:

- 13 PCS 1/2" Sockets 6PT(CT-V):10,11,12,13,14,15,16,17, 19,22,24,27,30mm
- 1 PC 48T stubby ratchet with square hole (48T)
- 1 PC 2 Way locking folding handle
- 1 PC Adaptor: 1/2"(F)x3/8"(M)
- 1 PC Universal joint: 1/2"
- 1 PC 1/2" Extension bar: 250mm (L)
- 1 PC 1/2" Sliding T bar: 250mm (L)
- 2 PCS Spark-Plug: 16,21mm

APG00198

3PC LOCKING EXTENSION BAR SET



- Includes 1/4"x6"L, 3/8"x10"L, 1/2"x5"L Locking extensions.
- Full polish Nickel chrome plated.
- Made of alloy steel.

APG00211
TURBO BOOST HOSE CLIP PLIERS (VOLKSWAGEN/Audi/SKODA)


- For use on turbo boost hose clips fitted to : Volkswagen Passat 2.0 TDI(05)/ Touran/Golf V/ Audi A3/ Skoda Octavia
- Essential tool for these specialised clips
- Locking function

APG00212
FUEL TANK LID REMOVER (BENZ / BMW / VOLVO)


- Applicable :
 Benz : W204, W207, W212
 BMW : F01, F02, F10, F12
 Volvo T4, T5 engine, 2010 later
- Special designed to remove fuel tank lid for diesel and petrol cars

APG00214

8PCS STUD PULLER WRENCH SET



- Function : screw without head, screw up, pull up
- Advantage : 1. quick function 2. no.damage to stud
- Ways in use : put stud puller wrench on screw, then handle on it, turn it up or down
- Made of chrome vanadium
- Size : 18mm, 20mm, 22mm, 24mm, 27mm, 28mm, 29mm, 30mm

APG00215

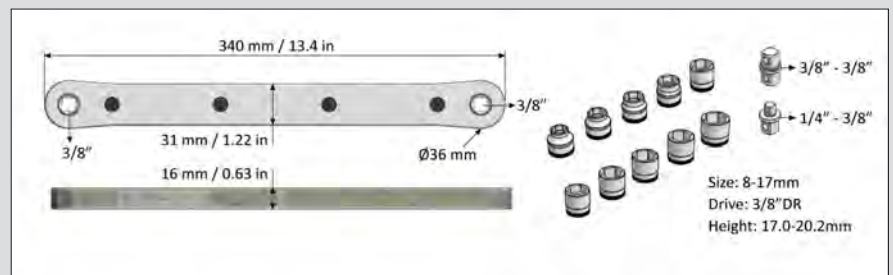
HOSE REMOVAL PLIERS



- Easily disconnects hoses by gripping firmly the tubes/lines
- Jaw grooves for 3/16 , 1/4 and 3/8 tubes and lines
- Especially suitable for hoses connected to tubes or lines with smooth surface, where exercising pushing force is not possible
- Pointed jaw tip allows access to confined spaces
- Special locking design enhances secure gripping

APG00216
RATCHET EXTENSION DRIVE BAR


- 340 mm / 13.4 in length extension drive bar enables easier works in confined spaces, such as water pump, power steering pump, generator, A/C compressor, transmissions and starter fasteners
- Provided with two square drive adapters in 1/4" and 3/8" Chain-driven mechanism enhances working durability and smoothness
- Max torque allowed : 71.87 Nm / 53 ft-lbs.
- Includes 10 low profile socket from 8 to 17 mm in 3/8" DR and height from 17.0 V 20.2 mm


APG00217
1/4" DUAL WAY TORQUE WRENCH


- Square Drive : 1/4"
- Main Torque Range : 5-25 Nm
- Secondary Torque Range : 39.8-225.7 lbf·in
- Fine Scale : 0.1 Nm
- Length : 245 mm
- Width : 27.3 mm
- Weigh : 0.4 kg

APG00218

3/8" DUAL WAY TORQUE WRENCH



- Square Drive : 3/8"
- Main Torque Range : 20-100 Nm
- Secondary Torque Range : 9.2-75.6 lbf·in
- Fine Scale : 0.5 Nm
- Length : 410 mm
- Width : 36.4 mm
- Weigh : 1.2 kg

APG00219

3/4" DUAL WAY TORQUE WRENCH



- Main Torque Range : 60-340 Nm
- Secondary Torque Range : 36.9-258.1 lbf·in
- Fine Scale : 2 Nm
- Length : 610 mm
- Width : 41 mm
- Weigh : 1.76 kg

APG00220**3PC POWERFUL UNIVERSAL JOINT SET**

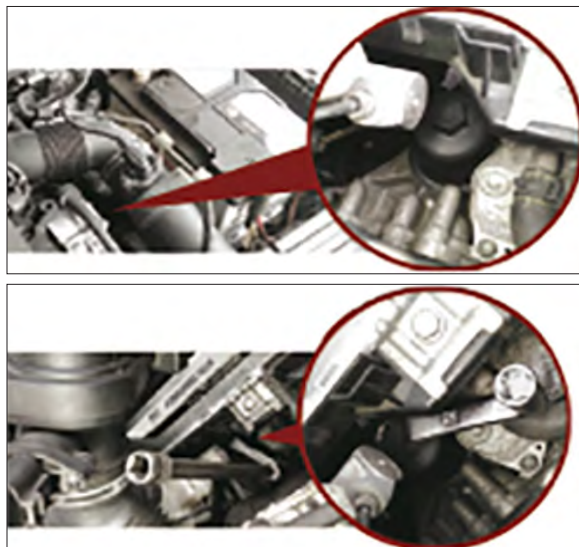
- Mateaal : CR-MO
- Contents : 1/4", 3/8", 1/2"

APG00221**3PC MAGNET POWERFUL UNIVERSAL JOINT SET**

- Mateaal : CR-MO
- Contents : 1/4", 3/8", 1/2"

APG00223

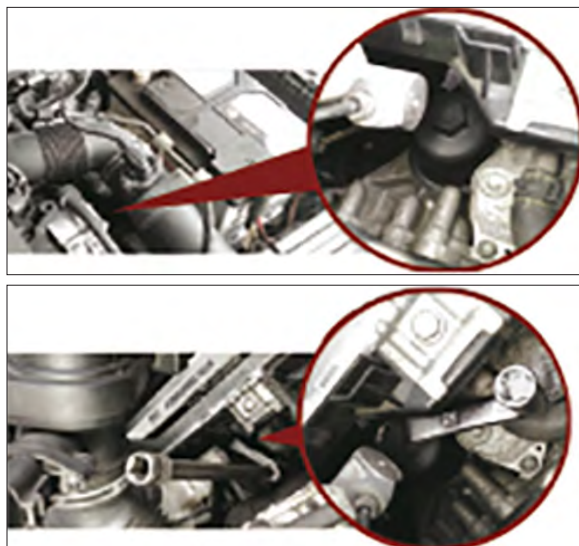
DSG TRANSMISSION FILTER WRENCH



- Specially designed to remove and install the transmission filter housing cover when changing the transmission filter on the DSG gearbox in VW, Audi, Skoda and Seat vehicles
- No removal of batteries or battery holders(time saving)

APG00224

DSG TRANSMISSION FILTER WRENCH



- Specially designed to remove and install the transmission filter housing cover when changing the transmission filter on the DSG gearbox in VW, Audi, Skoda and Seat vehicles
- No removal of batteries or battery holders(time saving)

APG00225**12" LOCKING C-CLAMP W/PAD**

- Wide opening and deepthroat jaws provide universal application in clamping
- Swivel pads hold tapered work, awkward fabrication jobs, and delicate projects without damaging the work surface
- Constructed of high-grade heat-treated alloy steel for maximum toughness and durability

APG00226**1/2"F X 3/4"M 1500NM MINI TORQUE MULTIPLIER**

- Description :
Gear Ratio : 1:16
Torque Ratio : 1: 9.5
Max. Output Torque : 1500 Nm

APG00227

11PC IMPACT SOCKET ADAPTER & UNIVERSAL JOINT SET



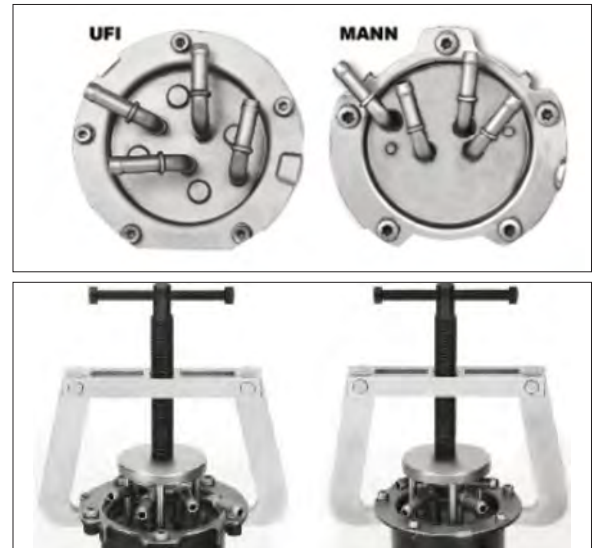
- Material : CR-MO
- Contens :
Adapter 1/4"F x 3/8"M, 3/8"F x 1/4"M
3/8"F x 1/2"M, 1/2"F x 3/8"M,
1/2"F x 3/4"M, 3/4"F x 1/2"M
3/4"F x 1"M, 1"F x 3/4"M
Universal Joint 1/4", 3/8", 1/2"

APG00228

10PC TORQUE LIMITING ALUMINUM EXTENSION SET



- Material : CR-MO
- Contens : 90-100-110-120-135Nm, 150-160-175-190-200Nm

APG00229
FUEL FILTER COVER MOUNTING TOOL (VAG GROUP)


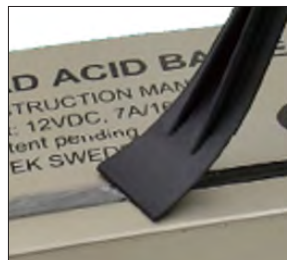
- Application :
 New design for both of "UFI" and "MANN" fuel filter housing VW, Audi, Skoda and seat diesel vehicles
 Also suitable for multicar M27 /M28
 The fuel filter cover mounting tool is designed to press the fuel filter cover evenly and in a torsion-free manner into the seal seat in the fuel filter housing

APG00230
90 DEGREE RAPID ADJUSTMENT HOSE CLAMP


- Works on 3/4" to 2-3/4" (19 to 70mm) hose spring clamps.
- Double-hinged locking mechanism to reduce user's fatigue.
- Patented ratcheting provides unlimited locking positions.
- Locking clamp features maximum toughness and durability.
- Material: Steel and Alloy.
- Length: 185mm

APG00231

3PC LIGHT DUTY PRYING / SMOOTHING TOOL KIT



- Flexible, durable and easy to use
- Non-marring material non-scratch
- Prying apart electronic key fobs (batter replacement)
- Prying dashboard parts and vents
- Prying / smoothing epoxy, adhesives and silicone uniformly
- Paint stripping in confined spaces
- Removing / installing O-rings and gaskets
- Cleaning small parts

APG00232

TORQUE MULTIPLIER



- Accuracy : 6%
- Torque Ratio : low energy input with high torque output ensures operator safety
- Supplied in a plastic box
- APG00232: TORQUE RATIO : OUTPUT/INPUT=10/1
- INPUT : 1/2"DR.(F) MAX : 150 Nm / 110 ft.lb

Range (max)		Input Square	Output Square	W mm	H mm	H1 mm	L mm	L1 mm	kg	Packing
Input	Output									
150 Nm / 110 ft.lb	1500Nm / 1100ft.lb	1/2"	3/4"	75	206	172	193	39	3.4	4 pcs/CTN
400 Nm / 290 ft.lb	4000Nm / 2900 ft.lb	1/2"	1"	108	254	228	263	50	8.9	2 pcs/CTN

APG00233
TORQUE MULTIPLIER


- Accuracy : 6%
- Torque Ratio : low energy input with high torque output ensures operator safety
- Supplied in a plastic box
- APG00233 : TORQUE RATIO : OUTPUT/INPUT=10/1
- INPUT : 1/2 DR.(F) MAX : 400 Nm / 290 ft.lb
- OUTPUT : 1-1/2 DR.(M) MAX : 4000 Nm / 2900 ft.lb

Range (max)		Input Square	Output Square	W mm	H mm	H1 mm	L mm	L1 mm	kg	Packing
Input	Output									
150 Nm / 110 ft.lb	1500Nm / 1100ft.lb	1/2"	3/4"	75	206	172	193	39	3.4	4 pcs/CTN
400 Nm / 290 ft.lb	4000Nm / 2900 ft.lb	1/2"	1"	108	254	228	263	50	8.9	2 pcs/CTN

APG00235
ALUMINUM LINE CLAMP TRIPLE PACK


- Smooth rounded jaw edges prevent damage to internal hose reinforcement.
- Equipped with anti-slip design.
- Material: Aluminum
- Small size ranges from 11mm to 19mm.
- Medium size ranges from 22mm to 42mm.
- Large size ranges from 22mm to 60mm.

APG00246

PNEUMATIC LONG REACH SCRAPER



- The tool makes short work out of cleaning irregular surfaces.
- Features with changeable chisels.
- Length: 47.94" (1220MM)
- Air consumption: 10CFM
- Working pressure: 90PSI (6.2BAR)

APG00247

3/8" AIR RATCHET WRENCH



- Ideal for general engine repair, home projects, and light industrial applications.
- Torque: 130 FT-LBS
- Length: 12.45 (317MM)
- Air consumption: 4.5CFM
- Working pressure: 90PSI (6.2BAR)

APG00249
PUSH TO FIT QUICK CONNECTOR DISCONNECT TOOL


- Designed for disconnecting push-to-fit quick connectors.
- 2 button types which are widely found in fluid/vapor transfer system, including fuel line/EVAP system (petrol/diesel), SCR line(Adblue) system, cooling/heating system, and braking line system, etc.
- Multi-angle jaw design allows various approaches to hard-to-reach access areas.

APG00270
MINI GREASE FUN


- Designed for use in generally confined spaces, or where access to grease nipples is restricted.
- Lightweight, compact and easy to use.
- Spring-loaded handled for constant priming.
- Capacity of grease tube: 3oz

APG00281

12PC ANTI-SHEDDING COMBINATION WRENCH SET



- 12PC 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm
- Ideal tool with a 3-corner and 6-face head.
- The wrench can be fitted on stripped bolts or thin bolts.

APG00284

AIR LINE DISCONNECT TOOL KIT



- Ideal tool for disconnecting air lines even in hard-to-reach areas.
- Angled end allows maximum leverage, straight end fits in tight spots.
- Suitable to disconnect the air lines on heavy-duty trucks, brakes, suspension, steering, engine and transmission.

APG00285
HOSE REMOVAL PLIERS (SCREW LOCK TYPE)


- Easily disconnect hoses by gripping tubes/lines with special screw lock design.
- Jaw with grooves for 3/16", 1/4" and 3/8" tubes and lines.
- Especially suitable for hoses connected to tubes or lines with smooth surface, where exercising pushing force is not possible.
- Pointed jaw tip allows access to confined spaces.

APG00286
HOSE CLAMP PLIERS AND HOSE REMOVER


- The special pyramid design effectively holds the hose clamp and does not slip.
- Long and slim pliers (330mm / 13") can reach deep spaces in engine compartment easily.
- Large jaws are designed to be in round form.
- This can help to work from different angles and suitable for working in confined spaces.

APG00289

RECIPROCATING AIR SAW



- This high speed reciprocating air saw with 10000 SPM for cutting through sheet metal and plastic.
- Adjustable blade guard for controlling cut depth.
- Variable speed with lock-off throttle provides added control and safety
- Includes 18T/ 24T/ 32T reciprocating saw blades.

APG00292

GEAR DRIVEN AIR SAW



- Ideal tool for general auto body modification or any industrial cutting application.
- Safety trigger to prevent accidental start ups.
- Includes 18T/ 24T/ 32T reciprocating saw blades.

APG00293**ALUMINUM HAMMER**

- With flat and round surface.
- Length: 310mm

APG00295**5PC SCRAPER BLADES**

- Replacement blades for angled head seal scraper.

APG00357

36PC TAP & DIE SET



- 14pc. Taps :(Metric)
 - M6 x 0.75, M6 x 1.0, M8x1.0, M8 x1.25
 - M10x1.25, M10 x 1.5, M12 x 1.5, M12 x 1.75
 - M14 x 1.5, M14 x 2.0, M16 x 1.5, M16 x 2.0
 - M18 x 1.5, M18 x 2.5
- 6pc. 25mm OD Dies :(Metric)
 - M6 x 0.75, M6 x 1.0, M8x1.0, M8 x1.25
 - M10x1.25, M10 x 1.5
- 8pc. 38mm OD Dies :(Metric)
 - M12 x 1.5, M12 x 1.75, M14 x 1.5, M14 x 2.0,
 - M16 x 1.5, M16 x 2.0, M18 x 1.5, M18 x 2.5
- 1pc. Gear Wrench (25mm)
- 1pc. Adaptor
- 2pc. Tap Holder (M6-M12) 、 (M12-M18)
- 2pc. Die Stock Holder (25 mm) 、 (38 mm)
- 1pc. Screw Pitch Guage
- 1pc. Screw Driver

APG00389
LOW PROFILE FLUID RECEIVER

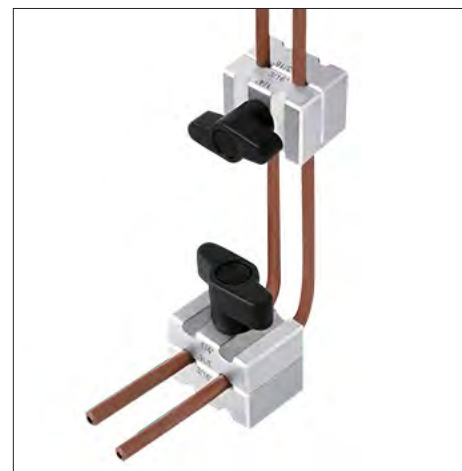
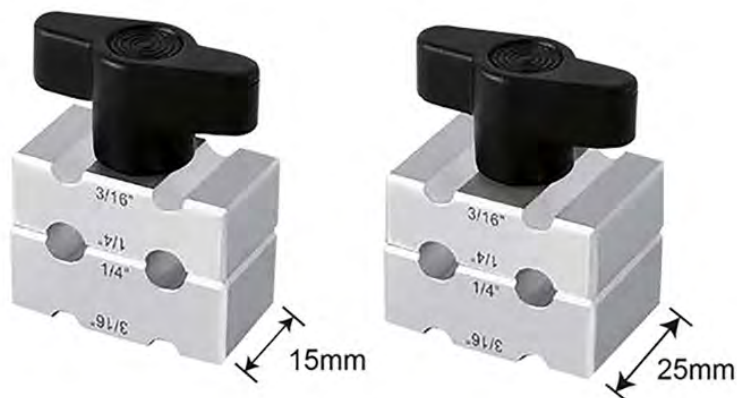

- Designed for waste fluid receiving during operation.
- Very low profile which can slide under passenger car easily.
- Prevent spillage and splashing covered with splash network.
- One piece of polyethylene plastic can be used for antifreeze
- Very suitable for cooling system repairing job.
- Only 125mm high.(including casters).
- Polyethylene material.
- Strong construction for heavy duty use.
- 4 casters installed provide best maneuverability.

APG00396
MINI - ATF FILL PLUG SOCKET


- Saves time when checking, changing and adding transmission fluid.
- There is a little clearance from the fill plug to the power steering unit in the car, which a traditional socket/ratchet may not fit into the car. This design can make it easy to remove and install the fill plug.

APG00398

BRAKE LINE STAPLE TOOL SET



- Brake lines can consist of many angles and these angles should be suitable for the new line.
- Can easily clamp both old and new lines to mark an exact copy.
- For steel, cooper and plastic coated brake lines with 3/16"(4.75MM) or 1/4"(6.3MM).
- Width: 15mm or 25mm.

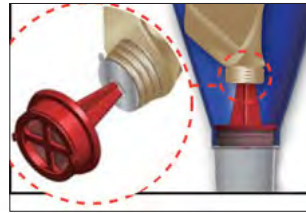
APG00401

FUEL TANK LOCKING RING TOOL



- Specially designed for removal and installation of the fuel tank locking ring of FCA group.
- OEM ref.: 1.870.736.000

Alfa Romeo	GT, 147, 156, 159, 166
Fiat	Grande Punto, Idea, Linea, Multipla, Panda, Nuova 500, Nuova Bravo, Panda 4x4, Punto, Sedici, Doblo, Croma, Stilo, Ducato, Doblo Cargo, Idea Van, Grande Punto Van, Multipla Van, Panda Van, Stilo Van, Scudo
Lancia	Y, Ypsilon, Musa Thesis
Ferrari	360 Spider, 430 Coupe, 430 Scuderia, 430 Scuderia Spider 16M, 430 Spider, 575 Superamerica, 575M Maranello, 599 GTB Fiorano, 612 Scaglietti, Enzo
Maserati	4200 Coupe, 4200 Gransport, 4200 Spyder, GranTurismo, Quattroporte

APG00406**5PC 1000V INSULATED PLIERS AND SCREWDRIVER SET**

- Screw-on type oil funnel prevents unsafe oil spills.
- Transparent lower chamber clearly shows oil flow process.
- Large oil passage allows oil to be refilled more rapidly.
- Includes adapters for most common European vehicles.
- Provided with a storage holder and a drain plate.

APG00407

FRONT WHEEL BEARING PULLER - FORD TRANSIT



- The kit has been developed to remove the front wheel bearing housing from the front drive flange.
- The front bearings are integral with their outer housing and due to their design are rendered unserviceable when separated from the drive flange.
- The tool kit separates the old bearing from the drive flange to allow the bearing to be replaced without having to replace the drive flange.
- Once the outer bearing housing has been removed, the outer inner bearing race ring must be removed.
- For this task, additional equipment is required, traditionally is done with an angle grinder.

Item	Description
A	Impact Force Screw
B	Flange Adaptor
C	Large Adaptor (Ø76.5 mm)
D	Small Adaptor (Ø43.5 mm)
E	Hex Screws/Hex Nuts (M10)
F	Spanner
G	Half Shell Coupling for Bearing Ring
H	Trailing Arm f. Half Shell Coupling , 3 PCS
I	Locking Pin f. Half Shell Coupling, 2 PCS

APG00409
FRONT HUB STUB AXLE WHEEL BEARING TOOL FOR BMW

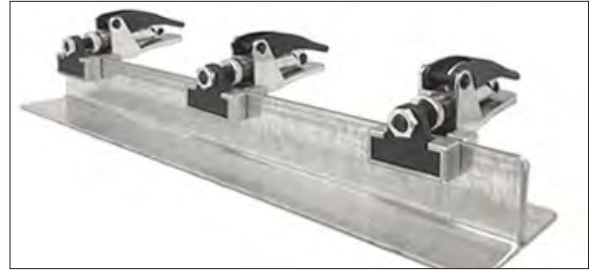
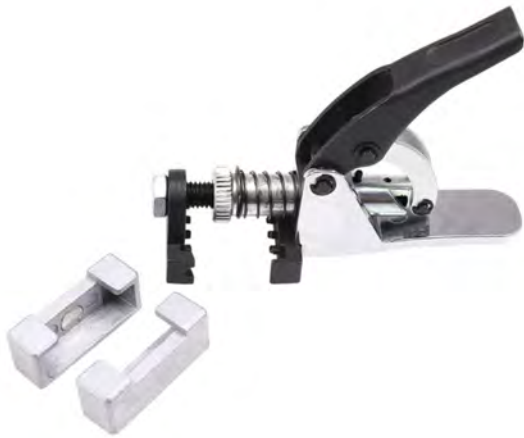

- Used to install the front wheel bearings.
- Allows the installation of front wheels hub and bearing assemblies on BMW models using a stub axle.
- Having the right wheel bearing tool makes it easier, safer and faster installing and replacing front wheel bearings.
- This handy tool helps to ensure that your wheel bearings are properly installed for the first time and fully plumb.
- OEM number: 83300491905
- Suitable for:
 - E36 3 Series (1992-1999 generation),
 - E38 7 Series (1995-2001),
 - E46 3 Series (1999-2005 generation),
 - Z3 Roadster/Coupe (1996-2002)

APG00411
CAP NUT SET 12 PIECES


- The set consists of 6 caps, each M12x1.50 and M14x1.50 with internal thread and sealing cone.
- Suitable for performing various pressure tests on the engine.
- For sealing the injector for subsequent pressure loss test on the engine.
- Also suitable for sealing against pollution.

APG00413

2 IN 1 HOSE CLAMP TENSIONER AND PALM LOCKING PLIERS



- Hose Clamp size: 2-53mm.
- Locking pliers size: 0-48mm.
- Press the lever to lock and pull the lever to release.
- The ring can adjust size.
- Designed jaw can hold the hose clamp well.
- With magnetic vise, the hose clamp can be palm locking pliers.

APG00415

7PC DOUBLE-END PALM RATCHET TOOL SET



- Ideal for getting into tight areas.
- Two way usages - one side is for bits, the other side is a 1/4" driver for sockets.
- Built-in magnet can attract bit firmly.

APG00416
SHAKE-N-BREAK AIR IMPACT SCREW REMOVER

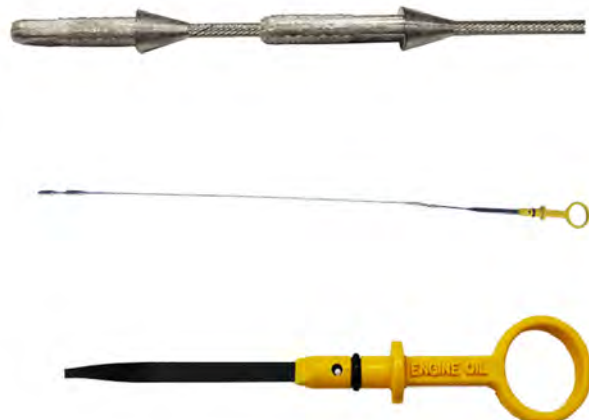

- The air impact screw remover helps in loosening corroded, rusted, dirty, painted, undercoated and overly tightened screws quickly.
- Can easily turn the screw with the help of the attached handle.
- The air impact screw remover works well on cars, trucks boats, motorcycles, and farm equipment.

APG00418
AUTO-FLEXING LINE SOCKETS


- Auto-flexing fuel line socket can reach the fuel line nut in a narrow space.
- These sockets have 45 X of freedom to reach onto the direct fuel line nut quickly and easily.
- In addition to be auto-flexing, the socket can tight the nut without losing torque.

APG00438

OIL DIPSTICK - SUZUKI



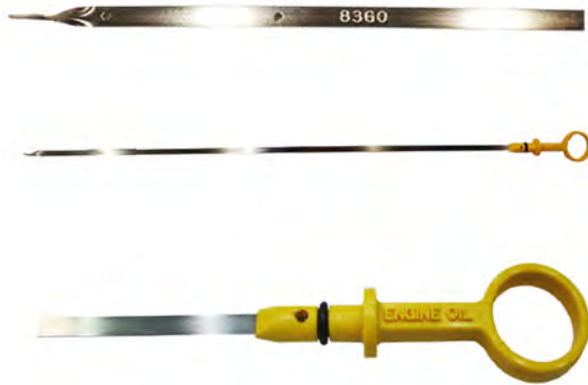
- Used to check the engine oil level and color.
- Application: Suzuki(16910-73H00): HE21S, MF21S

APG00439

OIL DIPSTICK - SUZUKI



- Used to check the engine oil level and color.
- Application:
Suzuki(16910-58J32): Cervo- HG21S, Kei- HN22S
Lapin- HE21S, MR Wagon- MF22S
Swift- HN22S

APG00440**OIL DIPSTICK - SUZUKI**

- Used to check the engine oil level and color.
- Application: Suzuki (16910-83G00) Swift: HN21S, HN11S, HN22S, HN12S

APG00444**2PC CARBIDE SCRAPER SET**

- Use to scrape off old silicone on oil pans, carbon buildup on exhaust manifolds, or rusts on brake calipers.
- Overall length: 300mm
- Width: 1-1/4" and 5/8"

APG00445

TORQUE SCREWDRIVER



- Torque range: 1-9Nm
- Bit holder for 6.35mm

APG00446

TORQUE SCREWDRIVER



- Torque range: 04.-2Nm
- Bit holder for 6.35mm

APG00447
SPRING BAND CLAMP LOCKING TOOL SET


- Three sizes to fit hose clamps used on most engines: 0.45"(11.43mm), 0.35"(8.89mm) and 0.15"(3.81mm).
- The low profile metal clip allows technicians plenty of room to work while the tool is employed.
- Allows technicians to keep the hose clamp open while freeing up hands and pliers for the next clamp.

APG00448
HOSE CUTTER 3-25MM


- The tool allow to bend the new tube compare with old tube.
- Make sure the angle is the same as OEM.
- Do not need to check every move in bending work.
- Save time and have the tube angle accuracy.
- Capacity : < 5mm.

APG00449

10" PLIERS WRENCH



- Ideal for multiple applications including gripping, holding, pressing, bending, and tightening.
- Jaw without teeth to avoid damaging nuts.
- Push button adjustment.
- Jaw capacity: 46mm
- 20 adjustment positions.
- Made from drop forged hardened steel.



- Pliers wrench : pressure, no damage to edges.



- Spanner : edge pressure may cause surface damage.

APG00466

TURBO POWER AIR BLOW GUN



- The spital air can be whirled and beaten to achieve a large-area cleaning effect and prevent rebound of scrap.
- Body with air control valve can adjust the cleaning intensity.
- Light and durable.
- Application:
 1. Car interior cleaning
 2. Motorcycle footpad cleaning
 3. Environment cleaning

APG00467
TURBO POWER CLEANING GUN


- Exclusive patent rights 360 degrees rotating vibration cleaning.
- The spiral air can be whirled and beaten to achieve large-area cleaning effect and prevent rebound of scrap.
- Can be used in two ways: with cock on the body, you can turn off the water and use it as air gun to dry the washing object.
- Application:
Detergent/ Alcohol can be used to do environment disinfection, vehicle, furniture, floor and wall cleaning.

APG00468
CABLE TIE TOOL


- Designed for the automatic tensioning and trimming of cable ties.
 - Equipped with adjustable tension mechanism for 4 levels.
 - Fastens stainless steel cable tie width from 4.5 to 7.9mm, and up to 0.25mm thick.
- Tension strength (For reference only):

Strength Level	Tension Strength
1	31.5kgf
2	47.0kgf
3	58.7kgf
4	65.0kgf

APG00474

HOSE CLIP PLIERS



- For clamping multi-use CLIC-type hose clamps.
- Work can be carried out at various angles due to stepless swivelling jaws.
- Suitable for: Audi, Citroën, Fiat, Mercedes, Opel /Vauxhall, Peugeot, Renault, SMART, VW, etc.

APG00477

FOCUS & MAZDA 3 & VOLVO REAR TRAILING ARM BUSH TOOL



- Easy removal and replacement of the rear trailing arm bushes without removing the trailing arm completely from the vehicle.
- Applicable:
Mazda 3: BK 2003~08, BL 2009~PREMACY 2005~10,
AXELA 2003~09.5 CR 2005~10
Ford: C-Max 2003-2007
FOCUS I CAK 1998-05, CB4 2008-11, II 2004-08
Kuga CBV 2008~
Volvo: S40 & V50 2004-12

APG00478**MANUAL FLUID EXTRACTOR 4L**

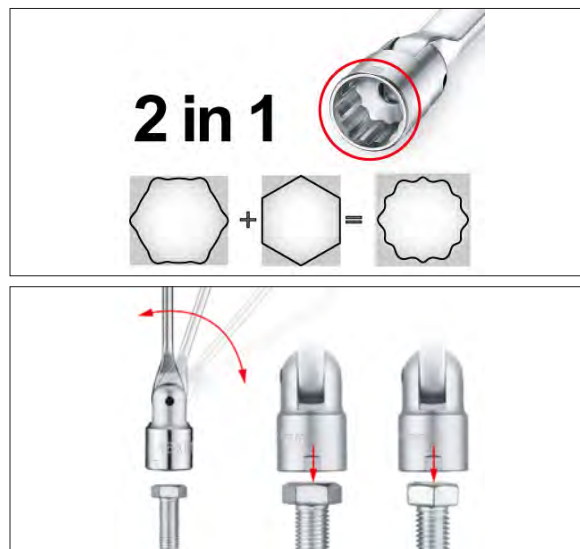
- Designed for the extraction of all types of engine, transmission, and lubricating oils from cars, motorcycles, marine engines, and industrial machinery.
- Also suitable for low viscosity fluids such as water.
- Pressure: 50cmhg
- Rate of pumping: 30 sec./800 ml

APG00479**FLAT TIP POCKET SCREWDRIVER**

- With pocket clip.
- Overall length: 116mm
- Material: Chrome Molybdenum Steel
- Finish: Chrome plating

APG00482

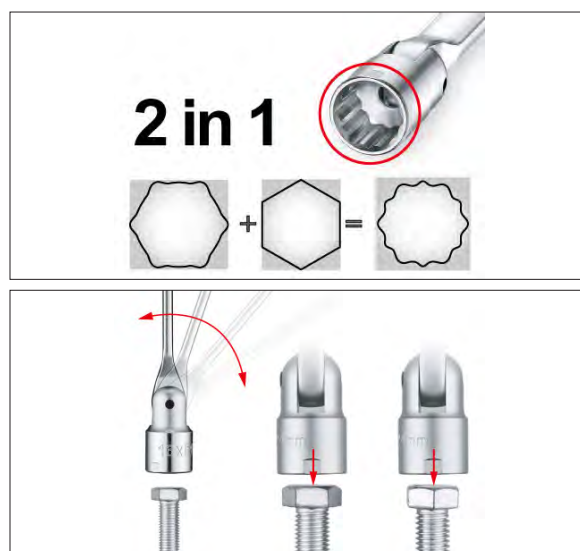
4 IN1 MULTI-SIZE SOCKET WRENCH 14X15/16X17MM



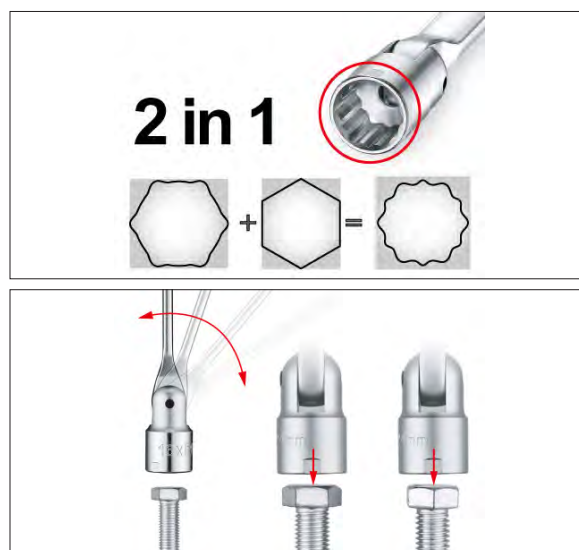
- The wrench is perfect for use in narrow and angle required places.
- Four sizes in one wrench - 14 x 15mm/ 16 x 17mm.
- Material: Chrome Vanadium.

APG00483

4 IN1 MULTI-SIZE SOCKET WRENCH 16X17/18X19MM



- The wrench is perfect for use in narrow and angle required places.
- Four sizes in one wrench - 16 x 17mm/ 18 x 19mm.
- Material: Chrome Vanadium.

APG00484**4 IN1 MULTI-SIZE SOCKET WRENCH 21X22/23X24MM**

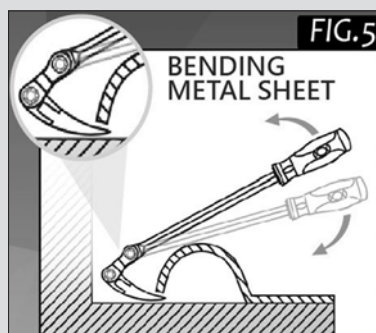
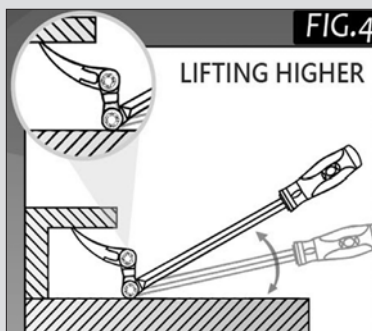
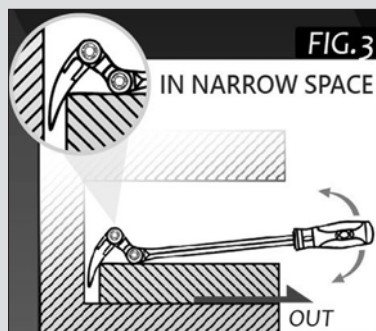
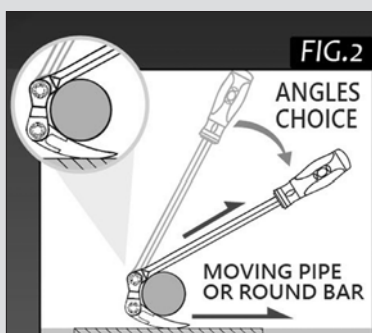
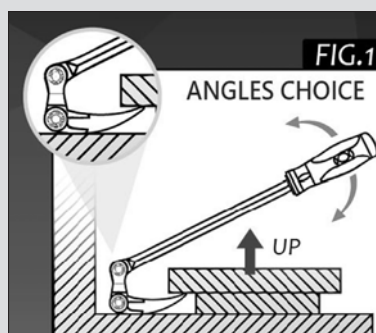
- The wrench is perfect for use in narrow and angle required places.
- Four sizes in one wrench - 21 x 22mm/ 23 x 24mm.
- Material: Chrome Vanadium.

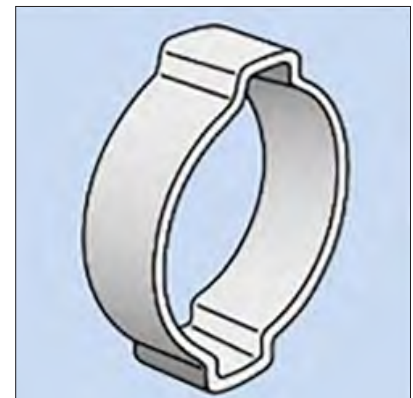
APG00485

DOUBLE JOINT PRY BAR 18.5"

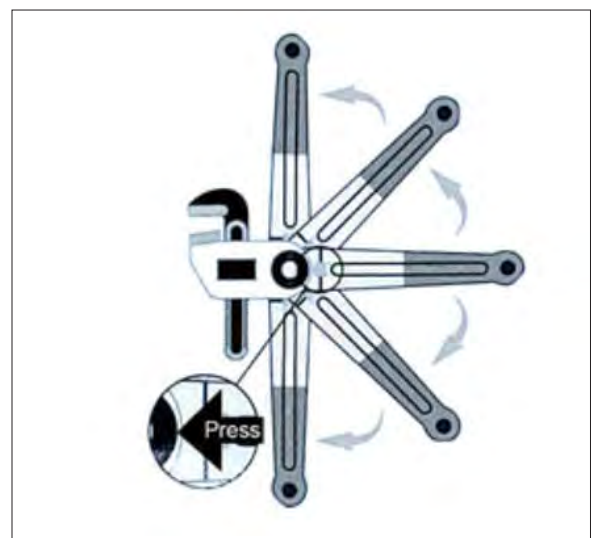


- Feature with extendable shank and adjustable angle of jaw.
- The pry bar has different angle choices.
- Suitable in a narrow space, ideal for bending metal sheets, moving pipe or round bar, and lifting objects higher.
- Mini length: 34cm (13.3")
- Max length: 47cm (18.5")



APG00503
OETIKER COLLAR PLIERS


- For medium-size closed and open collars
- The double setting of the reaction bar allows pre-tensioning and then definite clamping
- A mechanical lock avoids any damage to the collar at the end of the Operation
- The pivot geometry allows minimum clamping effort

APG00512
PIPE WRENCH 10"


- The pipe wrench has 9 angles choices.
- Suitable for working on pipes in confined spaces.
- Forged double T-shaped cross section handle.

APG00514

3/8" DRIVE DRILL CHUCK KEY RATCHET WRENCH SET



■ Socket sizes:

- 9.5 x 19mm
- 7.9 x 13mm
- 6.5 x 10mm
- 6.0 x 10mm
- 5.5 x 10mm



APG00516

MULTI-FUNCTIONAL LONG NOSE PLIERS 220MM



- Ideal for stripping 1.5mm and 2.5mm cable wires.
- This tool can be used on 0.25mm to 2.5mm cord end terminals.

APG00519**CABLE STRIPPING KNIFE**

- Strong and durable stainless-steel blade for long lasting blade life and can easily and efficiently cut the cable sheath without the risk of damaging the cable.
- Insulated 1000V cable knife for use on or around energised systems.
- Two colour moulded insulated handles for optimum user ergonomics and comfort.

APG00520**QUICK ADJUSTING PIPE WRENCH 10"**

- Type "Stillson".
- Serrated execution.
- With loosening lever.
- Length: 10" (250mm).
- Max jaw capacity: 30mm

APG00530

MAGNETIC PARTS BOWL



- Ideal for holding bolts, nuts, crews, nails, and other metal parts together.
- The parts tray is equipped with a magnet on the bottom so that it can be attached to metal surfaces.
- Size: 150mm
- Material: ABS plastic

APG00535 、 APG00536 、 APG00537

SWEDISH PATTERN PIPE WRENCH



- Easily adjust up and down while working in tight spaces.
- Self-gripping, three contact point jaw (S-shaped) securely grips hex, square, or round work pieces without slipping.
- For use on plumbing fittings and auto front end alignment.

Part No.	Size
APG00535	1
APG00536	1.5
APG00537	2

APG00540**UTILITY KNIFE**

- Designed for improved comfort and cutting ability.
- Equipped with 0.6mm blade.
- Blade material: SK2

APG00544**2 POSITION RETRACTABLE UTILITY KNIFE WITH TPR GRIP**

- Designed for improved comfort and cutting ability.
- Equipped with standard blade and hook blade.
- Overall length: 174mm
- Standard blade material: SK2
- Hook blade material: SK5

APG00555

4PC STUD PULLER SOCKET FOR POWER TOOLS



- Suitable for construction work and wood-working projects.
- Used with power tools.
- Set contents: 6mm, 8mm, 10mm, and 12mm

APG00556

UNIVERSAL FLEXIBLE HOSE CLAMP PLIERS (TEETH TYPE)



- Special jaw design fix over 95% hose clamp.
- Useful for removing and fitting spring band clamps.
- Length of wire: 630mm
- Capacity of jaw: 3mm - 43mm

APG00557**TAP SOCKET SET**

- Use in restricted areas.
- Use with 1/4" and 3/8" drive tools from the outside hex flats for extremely low profile usage.
- Works on all tap size up to SAE 1/2" and metric M12 including 1/8" NPT and BSP.

APG00560**STEEL WIRE AND CABLE CUTTER 17"**

- Cutting range for steel wires at 8mm² and cable cutting range at 100mm².
- Parts of the cutting range underwent vacuum heat treatment HRC62 (±2).
- The handle grip is made of high-strength aluminum alloy for the optimum material stiffness.

APG00561

ELECTRIC OIL EXTRACTOR SET



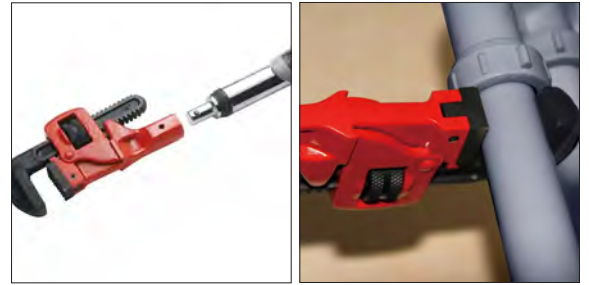
- Easy to carry and move around this cordless and battery powered oil suction tool, no need to connect to an electrical cable or shop air.
- Includes 3 Panasonic rechargeable batteries and a 100-240V charging cable.
- Suitable for extracting engine oil, coolant, and ATF.
- Extension tubes with outer diameters in Ø 4, 6 and 8mm.
- Total tube length: 1,800mm / 5.9ft
- Tank capacity: 5.5L / 5.8 quart

APG00562

3PC HOSE CLAMP PLIERS SET



- Smooth rounded jaw edges prevent damage to internal hose reinforcement.
- Made from durable glass reinforced nylon.
- Equipped with anti-slip design.
- Small size ranges from 11mm to 19mm.
- Medium size ranges from 22mm to 42mm.
- Large size ranges from 22mm to 60mm.

APG00563
INTERCHANGEABLE PIPE WRENCH HEAD 14"


- Can be used with compatible interchangeable-head wrenches to reduce the need for extra torque wrenches.
- All steel construction for rugged duty.

Features:

Description	Specification
Head size	14"
Opening size	2"
Inserting size	Ø18 mm

APG00564
RAPID FLARING TOOL


- Set including multi-size die set: 1/4", 3/8", 1/2", 5/8", 3/4"
- Tube rapid positioning.
- Quick lock/release design.
- Clutch mechanism.

APG00565

5 IN 1 CAULK FINISHING TOOL



- Smooths and finishes the bead of silicone and acrylic sealant.
- Ideal for floor, kitchen, bathroom, and window sealing jobs.
- Includes 5 shapes of spatulas.
- Material: POM

APG00566

HIGH FLOW EXTENSION AIR BLOW GUN

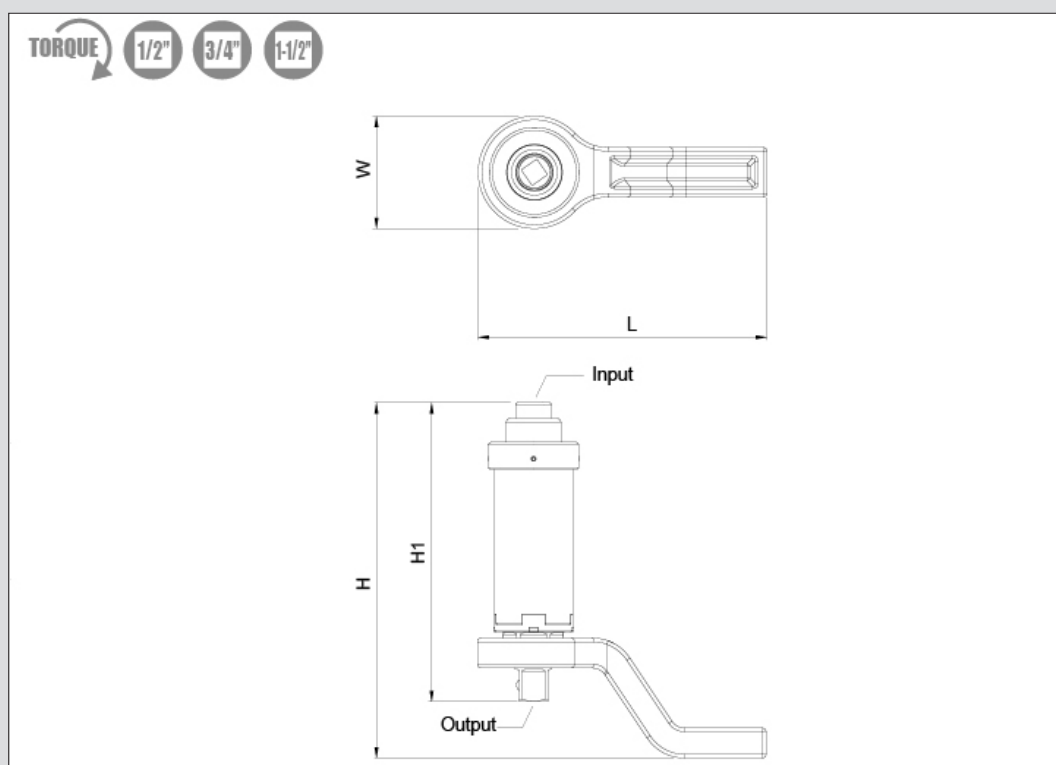


- Maximum flow for easy clean-up and blow off even the heaviest shavings and chips.
- Aluminum body light weight and durable.
- Port Size: 3/8" NPT
- Maximum input pressure: 16bar (232psi /1.6MPa)
- Steel tube length: 90.7cm (35.7")

APG00567
TORQUE MULTIPLIER 4000 NM


- Low energy input with high torque output ensures operator safety.
- Direction and accuracy: C.W. $\pm 6\%$
- Torque ratio: Output / Input = 10 / 1
- Input max range: 400 Nm (300 ft.lb)
- Output max range: 4000 Nm (3000 ft.lb)
- This tool is designed for manual tightening fasteners only. Do not use any impact tool to operate.

ITEM NO.	Torque Ratio	Range (max)		Input Square	Output Square	W	H	H1	L
		Input	Output						
APG00567	1:10	400 Nm / 300 ft.lb	4000 Nm / 3000 ft.lb	1/2"	1-1/2"	108	257.0	228.0	265.0



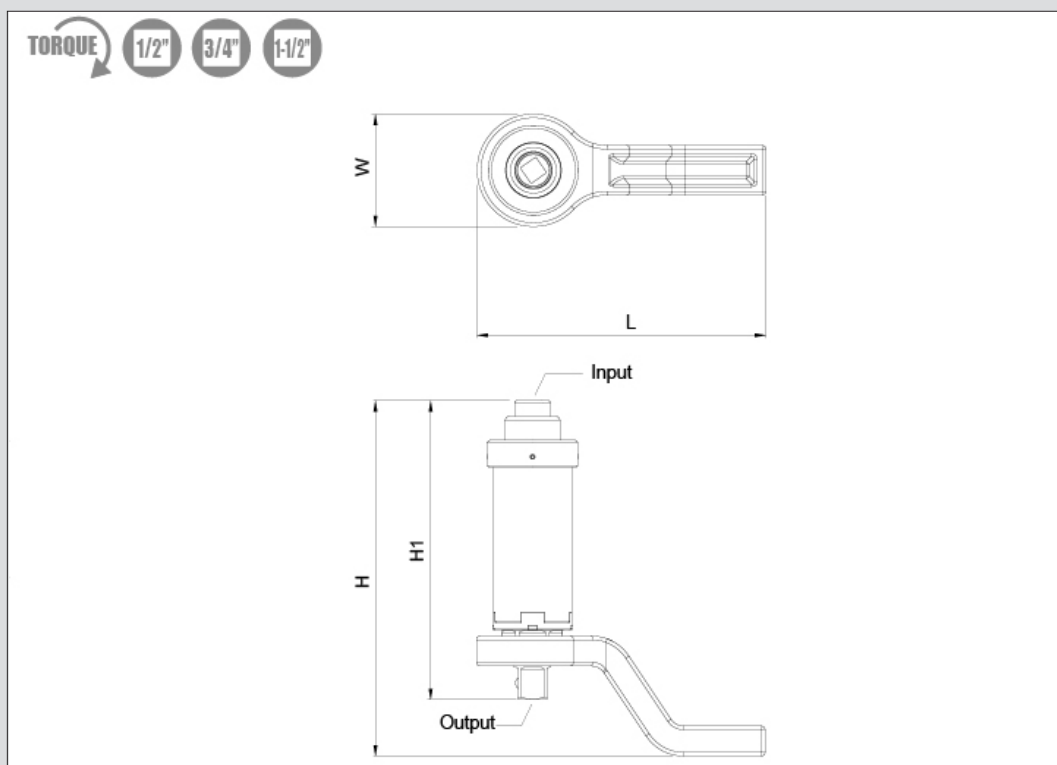
APG00568

TORQUE MULTIPLIER 4500 NM



- Low energy input with high torque output ensures operator safety.
- Direction and accuracy: C.W. $\pm 6\%$
- Torque ratio: Output / Input = 30 / 1
- Input max range: 150 Nm (110 ft.lb)
- Output max range: 4500 Nm (3300 ft.lb)
- This tool is designed for manual tightening fasteners only. Do not use any impact tool to operate.

ITEM NO.	Torque Ratio	Range (max)		Input Square	Output Square	W	H	H1	L
		Input	Output						
APG00568	1:30	150 Nm / 110 ft.lb	4500 Nm / 3300 ft.lb	1/2"	1-1/2"	108	280.6	254.9	263.0



APG00569
4 IN 1 MULTIFUNCTIONAL AIR BLOW GUN KIT


- Air blow gun features:
 1. Equipped with a patent high volume air nozzle.
 2. Piston design can solve leakage problems.
 3. Includes a retaining ring design.
- Turbo air nozzle features:
 1. Make turbo air volume.
 2. Used to expand the range of blowing.
- Slidable spray nozzle features:
 1. Spray atomization liquids for cleaning or lubrication.
- Tyre inflator features:
 1. Measuring, deflating, and inflating pressure by operating the handle.
 2. Adaptor can be rotated 360 degrees.
 3. Adjust air volume by rotating the tyre gauge.
 4. Tyre hose length: 30cm (10")
 5. Gauge size: 2"
 6. Max pressure: 0-200psi (0-15kg/cm²)
- Contents:
 - 1PC Air blow gun
 - 1PC Turbo air nozzle
 - 1PC Slidable spray nozzle
 - 1PC Tyre inflator

APG00570

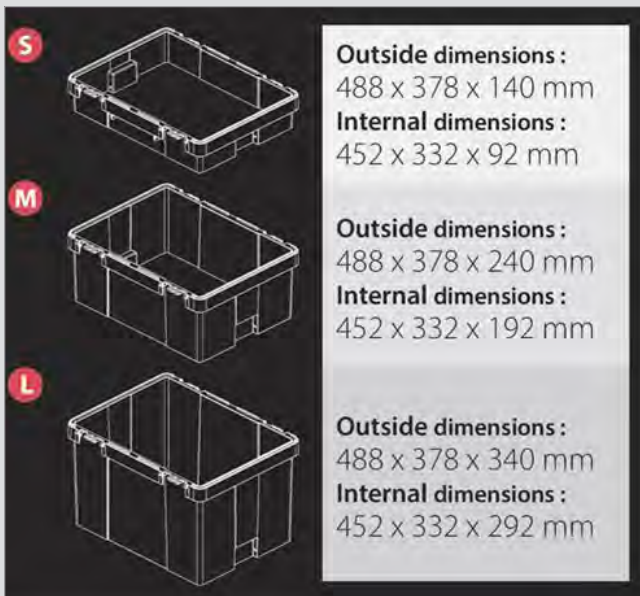
3 IN 1 MULTIFUNCTIONAL AIR BLOW GUN KIT



- Air blow gun features:
 1. Equipped with a patent high volume air nozzle.
 2. Piston design can solve leakage problems.
 3. Includes a retaining ring design.
- Turbo air nozzle features:
 1. Make turbo air volume.
 2. Used to expand the range of blowing.
- Slidable spray nozzle features:
 1. Spray atomization liquids for cleaning or lubrication.
- Contents:
 - 1PC Air blow gun
 - 1PC Turbo air nozzle
 - 1PC Slidable spray nozzle

APG00571
STACKABLE STORAGE TOOL BOX


- Durable auto-lock latches make connecting of stackable units securely.
- Ergonomic handle can be used as supporting stand to avoid box from tilting.
- Removable lid for convenient and quick storage.
- Removal and optional inner tray design keep items organized.



APG00572

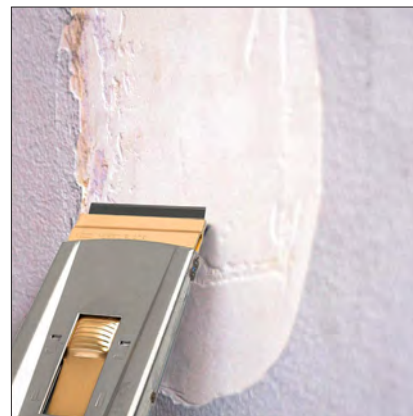
MULTIFUNCTIONAL LIGHT DUTY TRIM AND SEAL TOOL KIT



- Contents:
 - 3PC Prying / Smoothing Kit
 - 3PC O-ring Removal Kit
 - 3PC Angled Scraper Kit
 - 3PC Straight Scraper Kit
 - 3PC Seal / O-ring Removal Kit
 - 1PC Scraper Tool

APG00573

MINI SCRAPER



- Designed to remove excess paint, stickers, labels, and adhesives.
- Blade retracts for safe storage.
- Two blade materials are available: SK5, and POM.

APG00574**MITRE CUTTER**

- Suitable for cutting plastic pipes, PVC pipes, plastic beads, and water pipes.
- Labor-saving ratchet system reduces wrist stress and saves time.

APG00575**SELF-LOCKING HOSE CLAMP PLIERS (DUAL-USE)**

- Use for self-locking hose clamps.
- Allow for quick and easy installation and removal of Tesla clamps.

APG00584

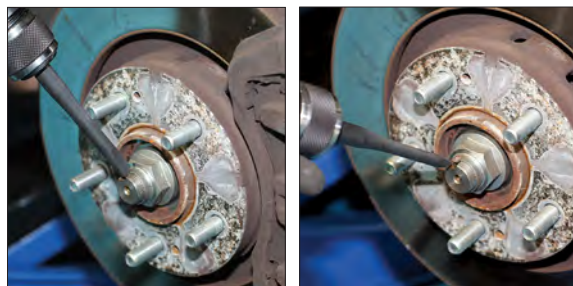
FUEL SYSTEM CLEANING SET



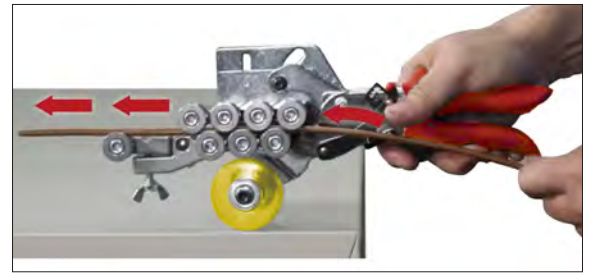
- Set to introduce cleaner into the engine without diluting the cleaner in the fuel tank
- Fuel system can be quickly discharged fuel after disturbance.
- The closed adapter can be used as a seamless fuel plug when the fuel line is disconnected.
- Provided with various adapters for the most common vehicles and models.
- Includes a 12.5-liter container suitable for works requiring large capacity.

APG00587

2PC AXLE STAKED NUT AIR CHISEL PUNCH SET

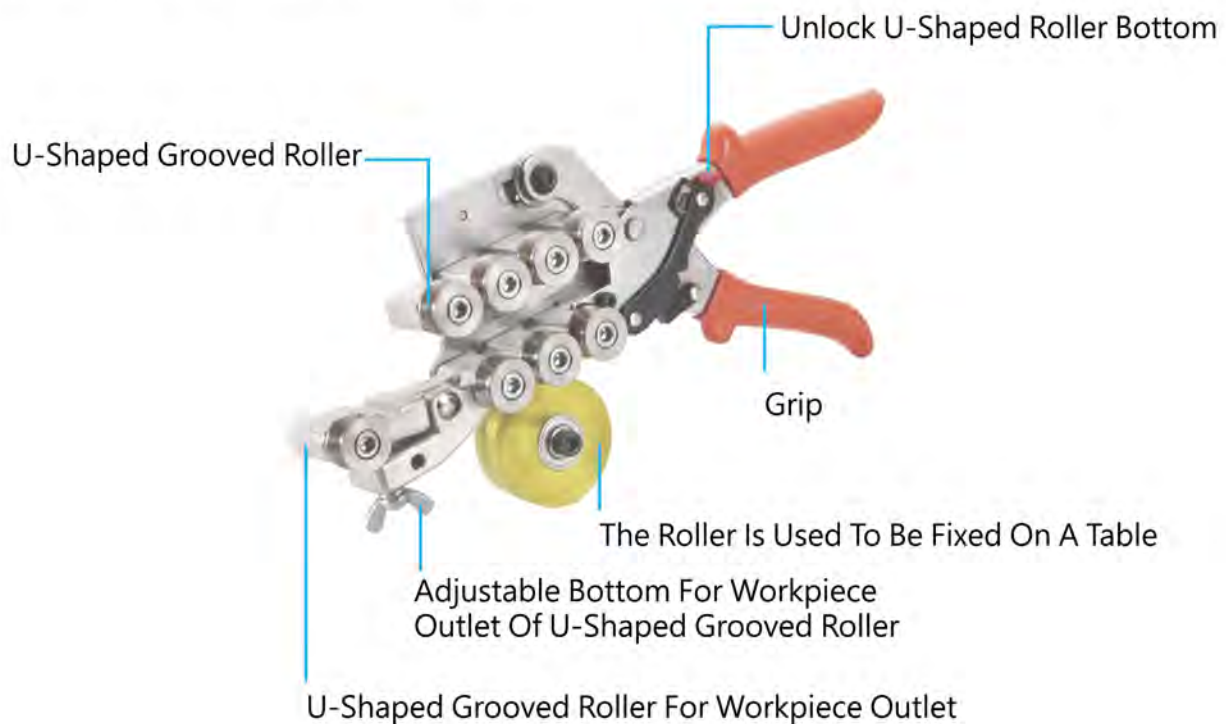


- Easily release and stake crush type axle nuts, reducing the chance of causing damage to axle shaft and threads.
- A removal punch with a curved release tip to disengage the stake (crimp) and release the axle nut.
- A flat-bladed nut punch is used to reset the stake once the nut has been refitted to the axle.
- Applications include wheel bearings, prop-shaft, and drive flange stake nuts across many makes of vehicle.
- Length: 178mm
- Shank: 10mm
- Manufactured from SCM440 alloy steel.

APG00588
TUBE STRAIGHTENER


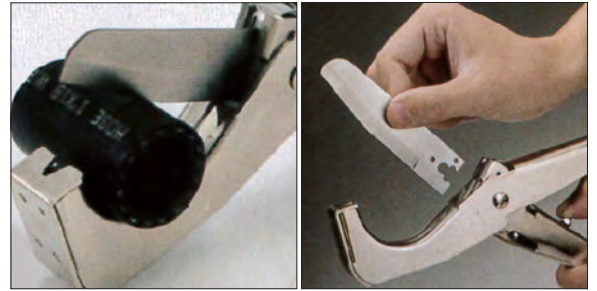
- Designed to straighten copper, aluminium, or soft stainless steel pipes.
- For tube diameters: 4.75 - 5mm (3/16"), 6 - 6.3mm (1/4"), 8mm (5/16"), 10mm (3/8") tubing.
- Equipped with 7 U-shaped grooved rollers to adjust gradually and guide the pipe through the straighteners without causing damage to the profile of the pipe.

Structure Introduction



APG00589

VINYL PIPE CUTTER



- For cutting soft vinyl pipes and hoses.
- Quickly replace the blades without using tools.
- Works on 1-1/2" pipes.
- Applications: plastic pipes, hoses, and water pipes.

APG00590

DOUBLE END TAPER AND GAP GAUGE



- A simple tool for checking car panel and hood gap measurement.
- Measure taper range: 1 - 13mm.
- Material: Fiber-reinforced plastic (FRP).

APG00591
ADJUSTABLE WRENCH


- Compact design is easy to carry and storage.
- Push-type switcher design allows switch specifications quickly.

APG00593
DIESEL FILTER WRENCH - VW / VOLVO

 1/2"
dr.


- Specially designed to remove and install the fuel filter on VW / Volvo diesel engine.
- Suitable for VW Crafter 5-cyl. diesel engine form 2006.
- Volvo C30, C70, S40, S60, S80, VSO, V60, V70, XC60, XC70, XC90.
- OEM Ref. VW T50011 / Volvo 9997084

APG00595

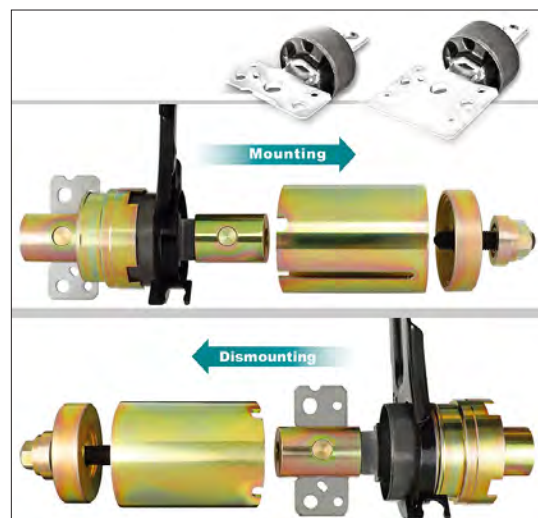
HEATER HOSE DISCONNECT TOOL - FORD



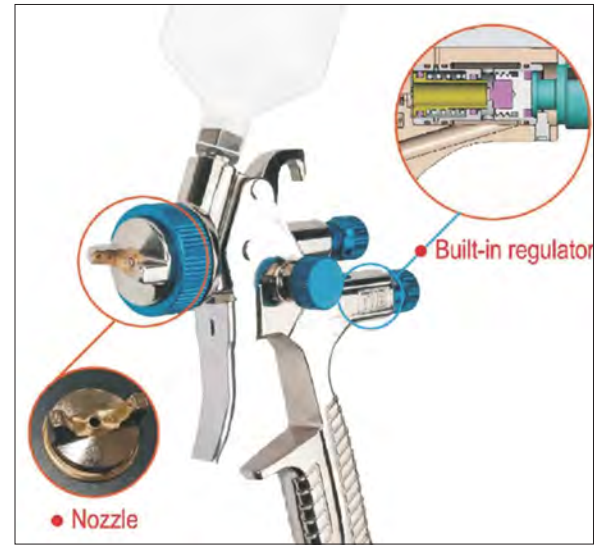
- These type of fittings are close to the Firewall behind the engine and are difficult to turn.
- Disconnect the heater hose fittings on Ford Focus 2.0L(2012~2016)
- Ford Escape / Kuga 2.0L EcoBoost(2013~2016) and more.

APG00601

REAR TRAILING ARM BUSH TOOL SET - FORD, VOLVO



- Used to remove and install rear trailing arm bushes.
- On car solution-no changing of the entire trailing arm necessary.

APG00603
H.V.L.P GRAVITY FLOW CUP SPRAY GUN


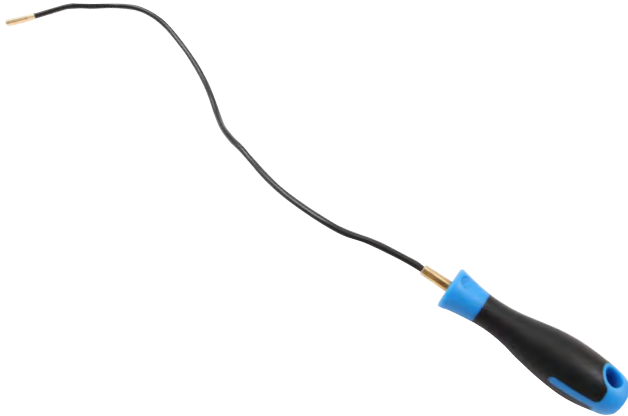
- Built-in regulator for stabilizing output pressure and better atomization.
- Stainless trigger and nozzle are designed for water-based paint.
- Transparent cup with scale for checking paint easily.
- Body material: Aluminum
- Applications: Coating / Sheet metal part painting for automobile and furniture/ Wall painting.

APG00604
SEALING RING MOUNTING TOOL


- Suitable for almost all VW-Audi engines.
- This tool enables the quick and professional installation of a sealing ring on the crankshaft or camshaft without the need to dismantle the engine.

APG00605

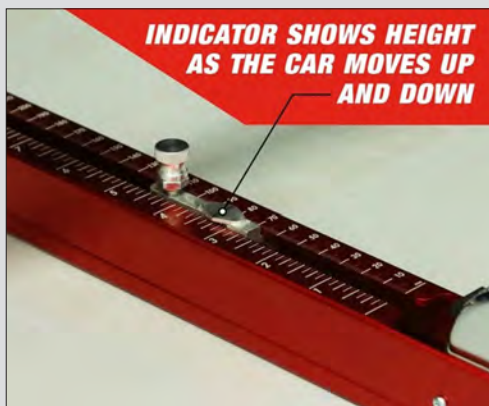
4MM FLEXIBLE MAGNETIC PICK UP TOOL



- For removing broken debris from glow plug apertures and other restricted areas.
- Flexible shaft can be formed into a particular shape and hold it in position.

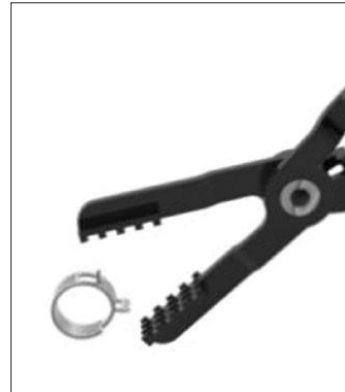
APG00609
CHASSIS HEIGHT MEASUREMENT TOOL (320MM)


- Features with 3 different working styles:
 1. Car on the ground - measures chassis height directly, accurate to 1/16".
 2. Car on scale pads - measures from the top of pads at ground level to frame directly (no subtracting needed here).
 3. Measures chassis height dynamically. Magnet holds tape to frame and indicator shows height as the car moves up and down. Use 4 sets to quickly see height at all 4 corners.
- 36" for straight rail cars on right side.
- Measures height from 2" to 15".
- Works in 3 different ways – with scale pads or not.
- Metric scale available from 50mm to 350mm.



APG00610

ADJUSTABLE UNIVERSAL HOSE CLAMP PLIER



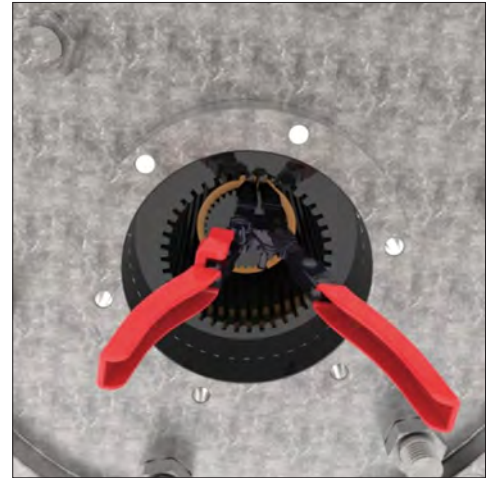
- Special jaw design allows hose clamps to be removed at many different angles.
- Clever spring loaded locking function allows for one-handed operation.
- Fits most of vehicles hose clamps.
- Jaw capacity: 0mm to 50mm

APG00611

ADJUSTABLE PLASTIC SNAP PLIER



- Quickly remove plastic anchors that have center pins.
- Specially designed jaws allow for five different angles.
- Plastic handle grips help avoid shock.

APG00612**SPINDLE SNAP RING PLIERS FOR FORD SUPER DUTY**

- Ratcheting lock mechanism holds the snap ring open for easy removal and installation.
- Used to replace the spindle snap rings found on 2007 and newer Ford Super Duty Pickups.
- Rigid plier design with narrow tips to fit into the 2-1/2" inside diameter of the hub.

APG00687**MANUAL FLUID DISPENSER**

- Capacity: 1 L
- 0.13 oz per stroke
- Type: Piston - Spring Operated
- Maximum Fluid Temperature: 140°F / 60C°
- Wetted Parts: Steel, Aluminum & PVC

APG00688

8PC O-RING AND PICK SET



- Contents: 1 x curved pick, 1 x 90 degree pick, 1 x Offset pick and 1 x straight pick
- Plus 4 spoon type removers that prevent damage to O-rings and seals
- Chrome Vanadium blades
- Soft grip handles
- Packed in a handy wallet:

MATERIAL:

Blade: CR-V

Handle: PP

APG00689

O-RING AND RUBBER REMOVAL TOOLS



- Suitable for a number of applications including the fitting and removal of O rings / seals / bushes / springs / cotter pins / fuses.

APG00690**UNIVERSAL HOSE CLAMP PLIER(EXTENDED)**

- Special angle jaws designed for most kinds of hose clamp.
- Finger tip "position lock" to keep hose clamp spread open.
- Capacity: 0mm-50mm

APG00691**UNIVERSAL HOSE CLAMP PLIER(EXTENDED)**

- Special angle jaws designed for most kinds of hose clamp.
- Finger tip "position lock" to keep hose clamp spread open.
- Capacity: 0mm-50mm

APG00700 **FLARING TOOL**



- Features:
 - easy to use.
 - no more OP0 Operation.
 - no more lubricating oil.
 - save space and no more tool missing.

APG00701 **BUTTON CONNECTOR PLIERS WITH FLEXIBLE CABLE**



- Features:
 - This pliers allows a quick disassembly of 2 button connectors, mainly used for fuel systems, gearbox, brake fluid, urea fluid water, power steering, air system and ac systems.
 - Cable length: 650mm
 - Jaw open range: 3mm to 32mm
 - Changeable cable structure

APG00702
CHANGEABLE HOSE CLAMP PLIERS


- Patent design cable changeable structure for easily & quickly changing cable for different hose clamp.
- 1pc 670mm length cable for standard hose clamp, opening range from 3mm to 52mm.

APG00703
CHANGEABLE HOSE CLAMP PLIERS


- Patent design cable changeable structure for easily & quickly changing cable for different hose clamp.
- 1pc 670mm length cable for standard hose clamp, opening range from 3mm to 52mm.
- 1pc 635mm length cable for clip-type hose clamp, opening range from 0mm to 24mm.
- 1pc 670mm length patent design dual side clamp for spring type & truck hose clamp, opening range from 0mm to 70mm.

APG00706

30PC UPHOLSTERY & SCRAPER MASTER KIT



- Removes most resistant Interior door trim.
- Easily pry into any corners which is hard to reach.
- Quality double-ended pry tool kit with high bending strength.
- Used for installing and removing automotive door and window trim, panels, clips...etc.
- Impact resistant plastic that will not damage surfaces as other tools.

APG00708

ENGINE OIL EXTRACTOR



- Manual type vacuum creator for extracting engine oil (and ATF, coolant...etc).
- Tank capacity 6 liter / 1.5 gallon
- Tank base for feet to step on to stabilize the tank while pumping.
- Transparent hose makes it easier for mechanics to check extracted engine oil quality.
- Conical pour spout for spill-free waste oil discharge.

APG00714
8Pc MINI HOOK AND O-RING SET


- Suitable for removal of bushing, cotter-pins, O-ring and seals.
- Ideal for assembling, repairing, or removing of small parts without damage.
- The set includes: mini straight pick, mini 45-degree, mini 90-degree, mini full hook, 2 spoon tip and 2 contoured tip.

APG00719
GRINDING WHEEL DRESSER


- Material: Cast iron handle
- For cleaning, shaping and dressing grinding wheels.
- Each dresser consists of six individual wheels.
- Suitable to use with any grinders.

APG00727

12PC BIT HOLDER



- Holds up to 12 bits with 1/4" diameter hex shank.
- Material: PP/ Ferrogum
- Size: 131 x 15 x 18 mm

APG00731

12PC QUICK CHANGE SNAP RING PLIERS SET



- Heat-treated CR-MO steel pliers to handle internal and external snap rings.
- Ergonomic design handle provides stable grip and better user experience.
- Special design wing knob allows pliers quickly change between internal and external use.
- Three different tip angles: Straight, 45° and 90°.
- Four different tip sizes: .038", .047", .070" and .090"

APG00737 、 APG00738 、 APG00739 、 APG00740 、 APG00741 、 APG00742 、 APG00743 、 APG00744
HARDENED AND TEMPERED 27 IN 1 LETTER STAMPING TOOL,2MM


Item No.	Character Size(H)	Shank Size(mm)
APG00737	2mm (5/64")	6.35
APG00738	3mm (1/8")	6.35
APG00739	4mm (5/32")	6.35
APG00740	5mm (3/16")	7.93
APG00741	6mm (1/4")	7.93
APG00742	8mm (5/16")	11.11
APG00743	10mm (3/8")	12.7
APG00744	12mm (1/2")	15.87

- The set includes:
9 arabic numbers 0 to 9 (6 is turned upside down for 9).
- Made of fully hardened and tempered steel,hardness for front side is HRC 58-62,tail end is HRC 38-46.
- Size marked on stamp's body for better recognition.
- Suitable for most metals, plastic, leather and wooden items.


APG00745 、 APG00746 、 APG00747 、 APG00748 、 APG00749 、 APG00750 、 APG00751 、 APG00752
HARDENED AND TEMPERED 9 IN 1 NUMBER STAMPING TOOL,2MM


Item No.	Character Size(H)	Shank Size(mm)
APG00745	2mm (5/64")	6.35
APG00746	3mm (1/8")	6.35
APG00747	4mm (5/32")	6.35
APG00748	5mm (3/16")	7.93
APG00749	6mm (1/4")	7.93
APG00750	8mm (5/16")	11.11
APG00751	10mm (3/8")	12.7
APG00752	12mm (1/2")	15.87

- The set includes:
9 arabic numbers 0 to 9 (6 is turned upside down for 9).
- Made of fully hardened and tempered steel,hardness for front side is HRC 58-62,tail end is HRC 38-46.
- Size marked on stamp's body for better recognition.
- Suitable for most metals, plastic, leather and wooden items.



APG00766

FUEL TANK LOCKING RING TOOL - FIAT



- Designed to remove and install the fuel tank locking ring.
- Suitable for Fiat Freemont, 500L, 500X ; JeepRenegade, etc.
- Used with 1/2" Dr. or 21mm wrench or socket.

APG00767

FUEL TANK LOCKING RING TOOL - VAG



- Allow to remove and install the fuel tank locking rings.
- Applications: VAG vehicles, Audi A4 2008-2016, A5 2008-2016, A6 2005-2011, A8 1994-, A8 2003-, etc.
- Suite: 1/2" Dr. (21mm) wrench or socket.

APG00768
FUEL TANK LOCKING RING TOOL


- Can easily remove and install lock ring on the fuel tank when servicing the fuel pump or fuel sending unit.
- Works with 1/2 Dr. ratchet or breaker bar
- Application: Audi, BMW, CHEVROLET, CHRYSLER, FIAT, Ford , GM, HYUNDAI, JAGUAR, KIA, LAND ROVER, Mercedes-Benz, NISSAN, Opel, VAUSHALL, VOLVO,VOLKSWAGEN vehicles, etc.

APG00769
FUEL TANK LOCKING RING TOOL - PEUGEOT / CITROEN


- Ideal for removing and installing the fuel tank locking rings.
- Size: 1/2"Dr. or can be used with a 21mm wrench or socket
- Application: CITROEN, PEUGEOT

APG00770

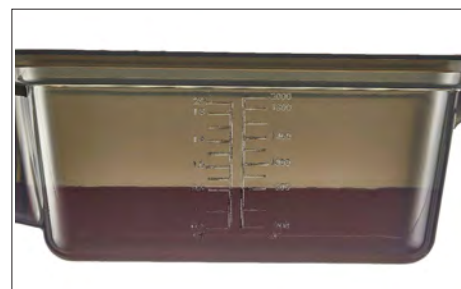
DIESEL FUEL FILTER WRENCH - PEUGEOT / CITROEN / FIAT / LANCIA



- Especially designed to remove and install the fuel filter cap when replacing the fuel cartridge on 2.0L, 2.2L Hdi / JTD engines . Helps to avoid component damage when working on fuel systems.
- Size: 3/8" Dr.
- Applications:
Peugeot: 206 (1999-2001), 306 (1998-2002), 307 (2000-2001), 406 (1998-2004), 607 (2000-2001), 806 (1999-2002), Expert (2000-2006), Partner (2000-2002)
Citroen: Berlingo (1999-2002), C5(2001-2004), Dispatch (1999-2007), Synergie (1999-2002), Xsara(1999-2005)
FIAT: Scudo (1999-2006), Ulysse (1999-2002)
LANCIA: Zeta (1999-2002)

APG00778

OIL DRAIN PAN



- Durable plastic can resist most chemicals and solvents.
- Transparent design with level scale is easy for measuring the volume.
- Capacity: 2 liters.

APG00779
RECHARGEABLE 3 MODE LED WORK AND WARNING LIGHT

Specification

Charging time	up to 3 hours
Operating time	3 hours (side and flash), 7 hours (front)
Light color	white / red and blue
Portable charger	rechargeable lithium-ion battery (2600mAh). A USB cable is provided.
Output	5V/1A (USB)
Input	5V/1A (Micro USB)

■ Features:

1. USB rechargeable: comes with a portable charger, you can also use it to charge your mobile phone and other digital devices.
2. 3 light modes: constant side light ; constant front light ; red and blue flashing mode.
3. Magnetic base with easy-to-position flexible arm suitable for a number of work environments and conditions.

■ Applications:

1. Emergency Light: study room, bedroom, dormitory.
2. Portable Light: automobile examining and repairing, garage lighting, outdoor camping.
3. Alert/Warning Light: road warning, SOS for help.

THREAD COIL-INSERT REPAIR KIT



Drill



Tang Puncher



Tap



Screw Coil

12PC THREAD COIL-INSERT REPAIR KIT

Part No.	Specification	Screw coil quantity
APG00780	M14 X 1.25	8
APG00781	M14 X 1.5	

14PC THREAD COIL-INSERT REPAIR KIT

Part No.	Specification	Screw coil quantity
APG00782	M11 X 1.5	10
APG00783	M12 X 1.25	
APG00784	M12 X 1.5	
APG00785	M12 X 1.75	

19PC THREAD COIL-INSERT REPAIR KIT

Part No.	Specification	Screw coil quantity
APG00786	M9 X 1.25	15
APG00787	M10 X 1.0	
APG00788	M10 X 1.25	
APG00789	M10 X 1.5	

24PC THREAD COIL-INSERT REPAIR KIT

Part No.	Specification	Screw coil quantity
APG00790	M3 X 0.5	20
APG00791	M4 X 0.7	
APG00792	M5 X 0.8	
APG00793	M6 X 1.0	
APG00794	M7 X 1.0	
APG00795	M8 X 1.25	

- Ideal for repairing damaged, worn or stripped internal threads.
- Suitable for machine construction, engine repair and other automotive applications. For most commonly used metric bolt sizes.
- Each kit contents:
drill bit x 1, thread tap x 1, pin breaking tools x 1,
install main tool x 1
- How to use:
 1. Drilling - Clear the damaged thread with a correctly sized drill bit.
 2. Tapping - Use the thread tap for cutting the holding thread into the cleared hole.
 3. Load coiled insert into applicator.
 4. Screw coil into casting.
 5. Using pin breaking tool to break off tag on insert.
 6. Thread is repaired and ready to use.



APG00796**AIR LINE DISCONNECT TOOL SET**

- Disconnects air systems on brakes, suspension, steering, engine, transmission, and other auxillary equipment found on heavy-duty trucks.
- Can also disconnect other quick connect push-in connectors.
- Each tool is double-ended to disconnect air lines even in con reas, angled end allows maximum leverage.
- Sizes: 1/2", 1/4", 3/8", 5/8"

APG00820**5PC EXTREME EDGE SCRAPER TOOL KIT**

- Unique 5 pcs scraper set contains a range of universal tip shapes enabling heavy-duty gasket and sealant removal.

APG00821

6PC WIRE INSTALLATION TOOL KIT



- Non-conductive feature provides a safty working place.

APG00826 、 APG00827 、 APG00828

1/2" DRIVE SLIDING T BAR



Part No.	Specification
APG00826	1/2" x 300L
APG00827	3/4" x 500L
APG00828	1" x 760L

- Material: Chromium Vnadium steel.

APG00829 、 APG00830 、 APG00831 、 APG00832 、 APG00833 、 APG00834 、 APG00835
INTERCHANGEABLE-TIP MALLETS


Part No.	Ø	L (mm)
APG00829	22mm	250
APG00830	27mm	270
APG00831	32mm	290
APG00832	35mm	300
APG00833	40mm	330
APG00834	50mm	350
APG00835	60mm	380

- Bamboo handle provides good elastic force and lighter weight.
- Material: Nylon white tip and PU yellow tip.
- Head Material : Zine alloy.

APG00836 、 APG00837 、 APG00838 、 APG00839 、 APG00840
INTERCHANGEABLE-TIP MALLETS


Part No.	Ø	L (mm)
APG00836	22mm	264
APG00837	27mm	266
APG00838	32mm	310
APG00839	35mm	310
APG00840	40mm	316



- Material: Nylon white tip and PU yellow tip.
- Head Material : Zine alloy.

APG00841

INTERCHANGEABLE-TIP MALLETS



Part No.	Ø	Gram
APG00841	16oz	454 gm



- Material: TPR black tip and Acetate yellow tip.
- Head Material : Zine alloy.

APG00843

HYDRAULIC PULLER SET



- Comprehensive kit ideal for most agricultural, automotive, industrial, marine and mining applications.
- For easy removal of gears, sprockets and bearings etc.
- Specially designed of quick lock unit helps the jaws to be assembled as a 3 jaw or 2 jaw puller in a snap.
- Automatic tensioning and centering of the extractor jaws.
 External spread Min. - Max.: 75-200mm
 Internal spread Min. - Max.: 90-150mm
 Forcing screw reach Max: 160mm
 Hydraulic ram reach Max: 140mm
- Contents:
 - 1 x 12 tonne Hydraulic ram with nose piece
 - 1 x Multi-head
 - 1 x Forcing screw with beam coverter
 - 1 x Ram extension - 50mm
 - 1 x Ram extension - 100mm
 - 3 x Legs - 100mm(4")
 - 3 x Legs - 150mm(6")
 - 3 x Legs - 200mm(8")

APG00875

60-DEGREE UNIVERSAL THREAD RESTORING FILE



- Restores damaged threads on bolts and shafts.
- Works for any type of 60 degree thread.
- Fractional metric, NPT and NPS pipe thread sizes of any diameter.
- Length x size: 9" x 7/8" x 1/8"



TIMING AND BELT SYSTEM SERVICE TOOLS

- MERCEDES BENZ & BMW
- VW & AUDI
- EUROPEAN CARS
- AMERICAN CARS
- ASIAN CARS
- BELT AND PULLEY SYSTEM SERVICE TOOLS

APH00007

HYBRID BELT TENSIONER TOOL V HYUNDAI /KIA



- Used to compress the stiffer hydraulic tensioners as part of the Hybrid Starter Generator(HSG) belt removal steps.
- Suitable for: Hyundai Sonata / Ioniq/ Kia Optima / Niro

APH00013

CAM HOLDING TOOL FOR Mercedes-Benz ENGINES



- Special designed to lock the left intake cam in place while servicing the cam chain drive system.
- Lock placed in rear intake cam and bolted to cylinder head locking the cam keeping it from rotating- reduces chance of mistake in the cam timing.
- Keeps related components in time with each other eliminating need for additional man hours to hold cam in place.
- Applications:Used on 272 and 273 Series Mercedes Benz engines

APH00014
BMW / MINI BELT INSTALLATION TOOL (N62/W17)


- Used for installing the drive belt that is a stretch belt and no belt tensioner is used.
- Applicable :
 BMW N62 (V8) engine with the stretch belt.
 MINI W17 (diesel) engine with the stretch belt.
- Comparable : BMW #641040 & 83800494518.

APH00015
SUBARU CAMSHAFT LOCKING TOOL


- Locks the LH side cam sprockets from turning when the timing belt is removed.
- Prevents cam sprockets from spinning when belt is removed.
- Makes timing belt changes faster and easier with one person.
- Corred plate allows easy viewing of sprocket timing marks.

APH00016

SUBARU CRANKSHAFT HOLDING TOOL



- This tool is designed to hold the SUBARU crankshaft pulley stationary while loosening or tightening the crankshaft bolt.
- Two sets of pins to service both styles of pulleys.
- Perfect for timing belt service or other engine services .
- OEM Ref. #499977100, #499977300, #499977400

APH00017

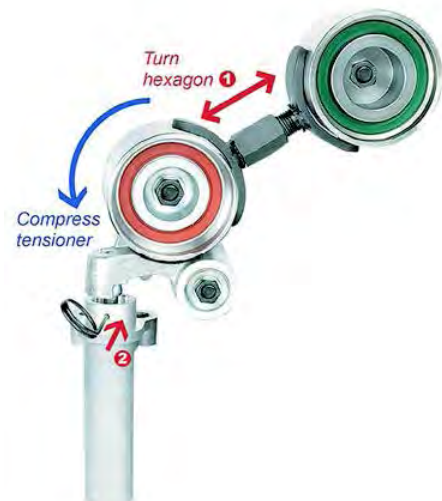
VOLVO CAMSHAFT LOCKING TOOL



- The tool holds the camshafts in place during timing belt replacement to prevent unexpected movement and ensure proper camshaft alignment.
- Work on 1998 and earlier VOLVO models without CVVT (constant variable valve timing)
- Suitable for : VOLVO 850 (1993~1997), C70 (1998), S70 (1998), V70(1998)

APH00018
CAM-BELT TOOL KIT


- Designed to provide the crankshaft holding tool and crankshaft / camshaft locking pins to allow the replacement of the camshaft drive belt.
- Suitable for Volvo 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5, 2.8, 2.9, 4 and 5 cylinder petrol engines 2.0 and 2.4, 5 cylinder diesel engines.
- Volvo: C30, C70, S40, S60, S70, S80, V40, V50, V60, V70, CV60, XC70, XC90

APH00023
TOYOTA TIMING BELT TENSIONER TOOL


- Effectively compresses hydraulically activated timing belt tensioners on 1995 and later TOYOTA T-100, Tacoma and 4-Runner trucks.
- Also works on TOYOTA 5VZ-FE 3.4L V-6 and 4.0L, 4.3L, 4.7L V8 engines.

APH00024

MOUNTING DEVICE FOR TIMING CHAIN (FOR MERCEDES M111)



- The use of this mounting device allows a single mechanic to replace a timing chain quickly and without any trouble.
- Application: C 180/ 200/ 220/ 230, E 200/ 230, CLK 200/ 230, SLK 200/ 230, ML 230
- Advantages:
 - Substantial time savings, only one mechanic required.
 - No risk of the timing chain falling or skipping a tooth.
 - Additional time savings on some vehicles where it is not necessary to remove the Radiator, Cooling Fan, etc.

APH00025
ENGINE TIMING TOOL - VAUXHALL / OPEL


- Designed to lock the cam and crankshafts in position to allow the removal and replacement of the timing chain fitted to the VAUXHALL / OPEL twin cam engines.

Item	Description	OEM
A	Camshaft Sensor Disc Setting Tool	EN-49977-100
B	Inlet Camshaft Adjuster Tool	EN-49977-200
C	Camshaft Sensor Locating Tool	EN-49978
D	Chain Tensioner Pin 4mm	EN-955-1
E	Belt Tensioner Pin 2.5mm	EN-955-2
F	Camshaft Locking Plate	FN-953-A
G	Crankshaft Locking Pin	EN-952

Application :

Manufacturer	Model	Size	Engine Code	Year
Vauxhall / Opel	Adam	1.2	LWD	2012
	Adam	1.4	L2Z	2012
	Adam	1.4	LDD	2012
	Ampera	1.4	LUU / A14XFL	2011
	Astra-J	1.4	LDD / A14XER	2009
	Astra-J	1.4	LDD / A14XEL	2009
	Astra-J	1.4	LUJ / A14NEL	2011
	Astra-J	1.4	LUJ / A14NET	2009
	Astra-J	1.4	LUJ / A14NET	2011
	Corsa-D	1.0	A10XEP	2009
	Corsa-D	1.2	A12XEL	2009
	Corsa-D	1.2	A12XER	2009
	Corsa-D	1.2	A12XER	2011
	Corsa-D	1.4	A14XEL	2009
	Corsa-D	1.4	A14XER	2009
	Corsa-D	1.4	A14NEL	2012
	Insignia	1.4	LUJ / A14NET	2011
	Meriva-B	1.4	LDD / A14XER	2010
	Meriva-B	1.4	LUJ / A14NET	2010
	Meriva-B	1.4	LUH / A14NEL	2011
	Mokka	1.4	LUJ / A14NET	2012
	Zafira-C Tourer	1.4	LUJ / A14NEL	2011
	Zafira-C Tourer	1.4	LUJ / A14NET	2011
	Aveo	1.2	L2Q / A12XEL	2011
	Aveo	1.2	LDC / A12XER	2011
	Aveo	1.2	LWD / A12XEL	2011
	Aveo	1.4	LDD / A14XEL	2011
	Aveo	1.4	LDD / A14XER	2011

APH00026

BMW CRANKSHAFT PULLEY HOLDER (N47)



- Used to remove and replace vibration damper on N47, N57 engine.
- For holding the crankshaft pulley while loosening or tightening the middle pulley bolt.

Item	OEM
A	11 7 222
B	11 7 223
C	11 7 221

APH00027
DIESEL ENGINE SETTING/LOCKING & HP PUMP REMOVAL KIT- VAG 2.7D, 3.0D TDi V6, 4.0D, 4.2D TDi V8 CHAIN DRIVE


- Comprehensive kit required for service work on timing chain, cylinder head, HP pump and engine timing applications on VAG 2.7D -3.0D TDi V6 and 4.2D TDi V8 common rail diesel engines.
- Kit includes HP pump remover and required locking pin.
- Also includes tools to cover the later 3.0D TDi V6 and 4.2D TDi V8 common rail second generation engines.
- Application:
 Audi GA4(05-13), A5(07-13), A6(04-13), A6 Allroad(06-11),
 Volkswagen GPhaeton(04-13), Touareg(05-13)
 Engine Code:
 2.7D TDiV6 GBPP, BSG, CAMA, CAMB, CANA, CANB, CANC, CAND CHKA, CGKB
 3.0D TDiV6 GASB, BKN, BKS, BMK, BMZ, BNG, BUG, BUN, CAPA, CARA, CASA, CASB, CASC,
 CASD, CATA, CCLA, CCMA, CCWA, CCWB, CDTA, CDTB, CDUC, CDYA, CDYB, CDYC, CEXA,
 CIGA, CIGB, CJGA, CJGB, CKVB, CLAA, CLAB, CLZB
 4.0D TDiV8 GASE
 4.2D TDiV8 GBTB, BVN, CDSB, CCFA, CCFC, CKDA

Item	Description	OEM
A	Crankshaft Adjuster (Pulley End)	T40058
B	Camshaft Locking Pin (*2 per kit)	T40060
C	Tensioner Retaining Pin (*4 per kit)	
D	Camshaft Adjuster	T40061
E	Camshaft Sprocket Adjuster	T40062
F	Crankshaft Adjuster (Gearbox End)	T40049
G	Tensioner Retaining Pin (*3 per kit)	T40071
H	HP Pump Sprocket Remover	T40064
I	Hp Pump Locking Pin	T40135
J	Crankshaft Locking Pin	3242
K	Balance Shaft Locking Pin	3359
L	Crankshaft Locking Pin (4.2D Tdi)	T402037
M	HP Pump Locking Pin	T40245
N	Chain Tensioner Mounting Bracket	T40246

APH00028

MERCEDES BENZ ENGINE TIMING TOOL SET (M651)



- The retaining device makes it possible to position the camshafts in the installed position.
- Also for turning, installing, and removing the crankshaft pulley.
- Application: Mercedes Benz: M651 engine(07~)

Description	OEM
Camshaft Alignment Tool	651 589 014 000
Crankshaft Pulley Holding Tool	651 589 004 000

APH00029

BMW CAMSHAFT TIMING TOOL - S54 ENGINE)



- For checking and setting camshaft timing when installing VANOS adjustment unit on S54 engines.
- Application :
BMW :E46/M3(S54) Cabriolet(00 ~ 06)
M3(S54)Sports Coupe(99 ~ 06)
M3 CSL(S54)Sports Coupe(03 ~ 04)
E85/Z M Roadst(05-07),E86/Z M Coupe(06-07)

Model	Chassis	Engine	CC	Year (From)
M3	E46	S54(32-6S-4)	3200	2000
Z3(M)	E36	S54(32-6S-4)	3200	2000
Z4(M)	E85/E86	S54(32-6S-4)	3200	2006
M3(CSL)	E46	S54(32-6S-4)	3200	2003

Item	Description	OEM
A	Valve Timing Checking Tool	11 9 140
B	Camshaft Alignment Tool	11 9 130
C	VANOS Spacers	11 9 170
D	Camshaft Alignment Pin	11 7 342
E	Crankshaft Turning Tool	11 5 100
F	VANOS Alignment Lever	11 7 160
G	Crankshaft Locking Pin	11 2 300

APH00031
BMW ENGINE TIMING TOOL COMINATION


- Special designed master timing kit includes crankshaft wrench, angle indicator, 27mm socket, chain tensioner, and camshaft alignment holder and locking pin for BMW N62, N73
- Applicable : BMW N62, N73

APH00032
VAG TENSIONER ADJUSTER


- Special designed for adjusting the tensioning device when changing the V-ribbed belt on VAG
- Applicable : VW Polo, Golf, Passat, and Audi since 1991
- Use with 1/2" DR wrench

APH00033

BELT HOLDER



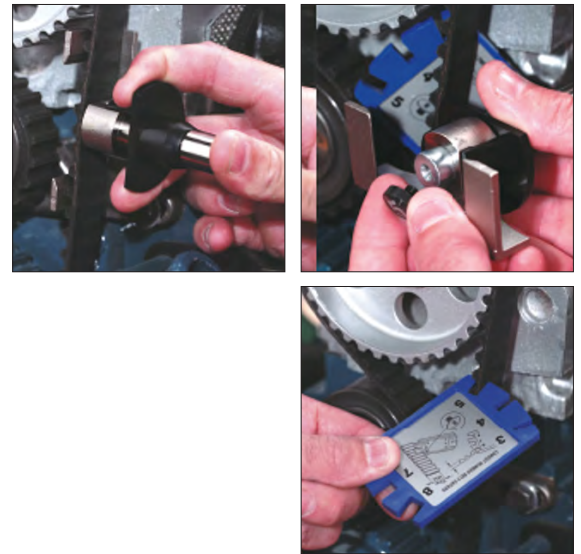
- Holding the belt firmly on the pulley during installation
- Universal design to fit most pulley types
- Durable plastic housing with super strong magnet

APH00035

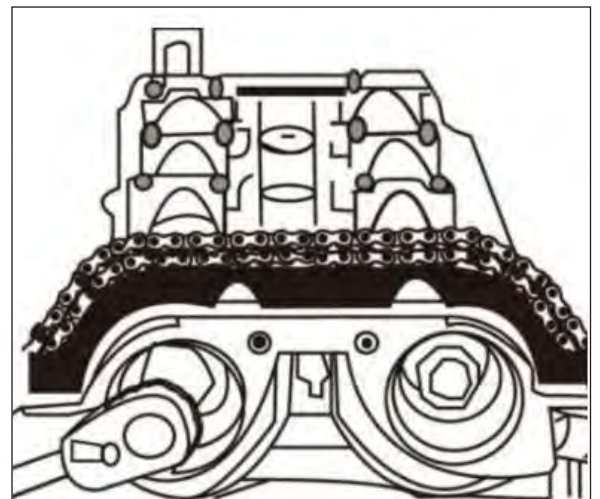
PULLER FOR RIBBED DRIVE PULLEY



- Introduction :
Universal pulley puller for grooved belt pulleys as found on crankshafts, alternators, air conditioning units etc
- 1. Spread : 28–185mm
- 2. Reach : Up to 16mm
- 3. Includes two sets of pulling arms : 33mm and 50mm
- 4. Includes two force screws: short (90mm) and long (175mm) with interchangeable nosepieces - flat and pointed
- 5. Arms adjustable with 16mm hex drive or 3/8 ratchet
- 6. Both arms move into place and lock with one operation
- 7. Force screws can be operated with 3/8 ratchet or 17mm hex
- 8. Designed for both servicing and engine rebuild operations

APH00036
UNIVERSAL TIMING BELT TENSION TESTER


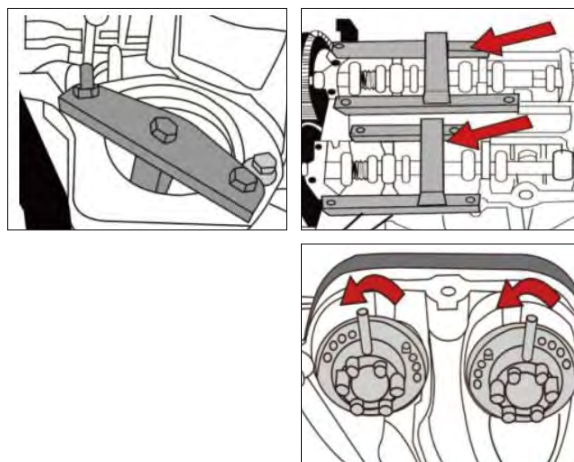
- Provides a simple yet effective and accurate setting up based on thickness of the belt
- Enables the operator to quickly assess the correct timing belt tension for each individual application by using the special belt thickness gauge supplied in the kit to select the appropriate calibration button for the correct setting up of tension tester
- The belt tension status is clearly indicated by position of the tester plunger

APH00037
ENGINE TIMING TOOL SET - VAUXHALL / OPEL / CHEVROLET


- For checking and setting the camshaft and crankshaft to the correct TDC position.
- Suitable for Vauxhall, Opel, Chevrolet 1.0, 1.2, 1.4 petrol engines.
- Engine code:
 1.0: Z10XE, Z10XEP, AXEP.
 1.2: A12XEL, Z12XE, Z12XEP, A12XER.
 1.4: A14XEL, A14XER, LDD/A14XFL, LUJ/A14NET, LUU, Z14XE, Z14XEP, A14NEL.

APH00038

ENGINE TIMING TOOL SET - FORD 1.0 ECOBOOST



- Specially designed for aligning the engine timing for Ford 1.0 EcoBoost (SCTi) engines.
- FM number: 303-393A, T10115
- Engine Code: M1DA, P4JA, XMJA, M1JA, P4JB, XMJB, M2DA, SFJA, M2GA, SFJB.
- Suitable for Ford 1.0 Turbo, 3 Cylinder, EcoBoost (Belt in oil) petrol engine.
- Fiesta, Ecosport, Focus, B-Max, Transit Courier, Focus, Transit Connet, C-Max, Tourneo Connect, Grand C-Max.

APH00047

CRANKSHAFT DAMPER HOLDER TOOL FOR FORD



- Used to hold the crankshaft damper on Ford 2.0L, 2.3L and 2.5L engines.
- Applications:
 - Focus: 2.0L 2005 to 2011, 2.3L 2005 to 2007
 - Transit Connect: 2.0L 2010 to 2011
 - Escape: 2.3L 2005 to 2008, Hybrid 2005 to 2008, 2.5L 2009 to 2011, 2.5L Hybrid 2009 to 2011
 - Fusion: 2.3L 2006 to 2009, 2.5L 2010 to 2011, 2.5L Hybrid 2010 to 2011
 - Mariner: 2.3L 2005 to 2008, Hybrid 2006 to 2008, 2.5L 2009 to 2011, 2.5L Hybrid 2009 to 2011
 - Milan: 2.3L 2006 to 2009, 2.5L 2010 to 2011, 2.5L Hybrid 2010 to 2011
 - MKZ: 2.3L 2007 to 2009, 2.5L 2010 to 2011, 2.5L Hybrid 2011
 - Ranger: 2.3L 2005 to 2011
 - Zephyr: 2.3L 2006

APH00049
HARMONIC DAMPER PULLEY PULLER SET - GM/ CHRYSLER


- Designed for removing damper pulleys in tight engine compartments without removing the radiator.
- Upgraded design with spring loaded legs for optimal position retention.
- Includes a 3-Jaw puller for harmonic balancer Jobs and 3 lengths of forcing rods.
- Removes harmonic damper pulleys found on Chrysler and GM engines.
- Used on automobiles, SUVs, vans and pickups.

APH00050
HARMONIC DAMPER PULLEY PULLER SET - GM/ CHRYSLER/ MAZDA/ HYUNDAI


- Designed to remove and install the harmonic balancer on most Chrysler, Hyundai, and Mazda engines.
- Includes puller which removes the harmonic balancer from the crankshaft.
- Includes holding tool which holds the harmonic balancer when tightening or loosening the crankshaft bolt or removing the balancer.
- It includes a 3-Jaw Puller For Harmonic Balancer Jobs and 3 lengths of forcing rods.

APH00051

HARMONIC-DAMPER CRANK-PULLEY HOLDER



- Special design tool to secure the crankshaft pulley / harmonic balancer on Honda vehicles when removing the crankshaft bolt.
- 50mm hex wrench can engage the pulley while providing sufficient space for a conventional socket or impact wrench to engage the crankshaft bolt.
- Material: carbon steel

APH00052

V-RIBBED BELT ASSEMBLY LEVER



- For the operation of the tensioner roller and for installing the V-Ribbed belt.
- Application: Mercedes-Benz type 168, 169 (A-Class), 245 (B-Class)

APH00053**4PC CAM GEAR HOLDER SET**

- Universal tool for single, dual and quad cam engines lock camshafts to hold valve timing during belt replacement.
- Suitable for diesel injection pump belt replacement.

APH00054**TENSIONER TOOL**

- Used to release the automatic tensioner pulley when replacing a V-Ribber belt.
- The lever head attachment is reversable and interchangeable.
- Suitable for V-Ribbed belts in VW polo, Golf, Passat, T4 and Audi. (Engine codes: ASN, BBJ)

APH00055

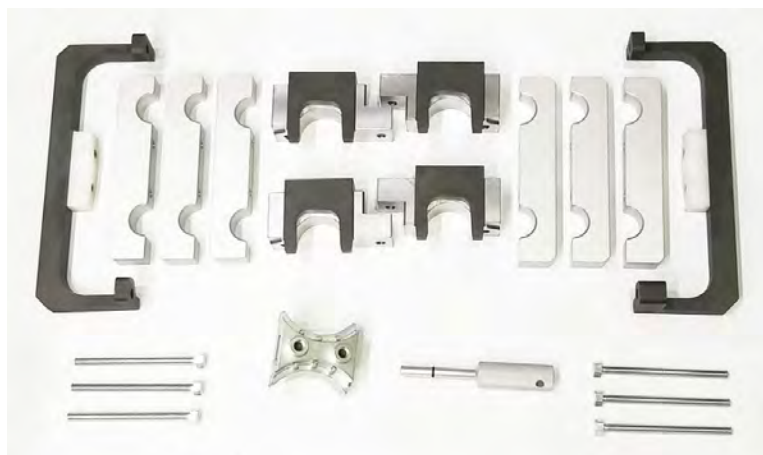
TIMING BELT TENSION TOOL FOR CHRYSLER



- Designed for servicing the timing belt.
- Used for installation on 2.2L and 2.5L Chrysler engines.
- Features special 7 point working end.

APH00057

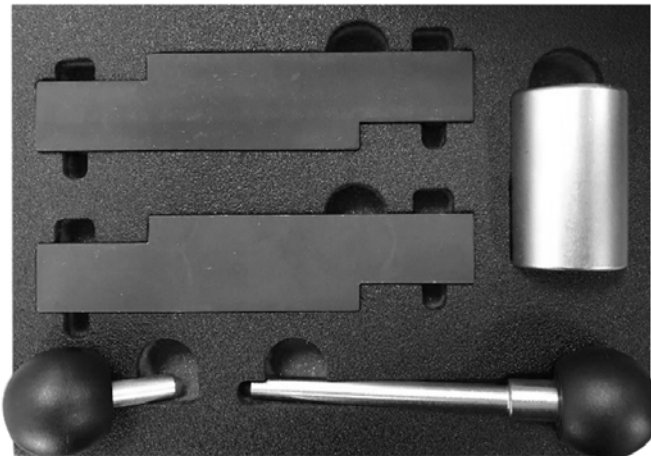
CAMSHAFT TIMING TOOL KIT FOR MERCEDES BENZ M177, M178



- Used for aligning the camshaft to TDC.
- Applications: Mercedes Benz AMG C63, C63S with bi-turbo 4.0L, petrol V8 engine, engine code: M177, M178 (after 2015)
- Equivalent to OEM: 177589014000, 177589001500.

APH00058
CUMMINS ISF 2.8 TIMING KIT


- Designed for positioning the engine timing during repair, replacement of the timing and maintenance of Cummins ISF 2.8 Common-Rail diesel engines.
- Use with a 3/8" female square drive.

APH00059
TIMING TOOL KIT FOR PORCHE


- Specially designed to align the camshaft timing angle to the correct position.
- Applicable for Porsche MACAN 3.0DS/3.6 Turbo.
- Equivalent to OEM 9681, 9863, 9595/1

APH00060

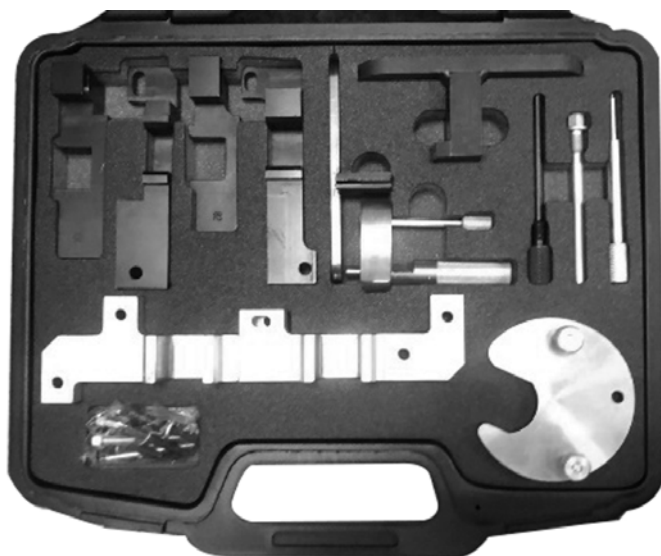
TIMING TOOL KIT FOR MERCEDES-BENZ



- Designed to align the camshaft timing angle to the correct position.
- Retaining tool for mounting the timing chain to the camshaft sprocket.
- Equivalent to OEM 642 589 00 31 00/642 589 01 40 00/642 589 04 40 00/111 589 03 15 00/112 589 03 40 00.
- Applicable: M642 in type 207, 212, 218 except code 927.

APH00061

DIESEL ENGINE TIMING KIT FOR LAND ROVER



- Suitable for Land Rover Evoque 3.6 / 4.4 V8 engines.
- Includes a flywheel locking plate and camshaft rotating pin.
- Equivalent to OEM JLR-303-1568/303-1620/303-1571/310-246/310-247/303-1236/303-1243/303-1239/303-1238.

APH00062
ENGINE TIMING KIT FOR VAUXHALL

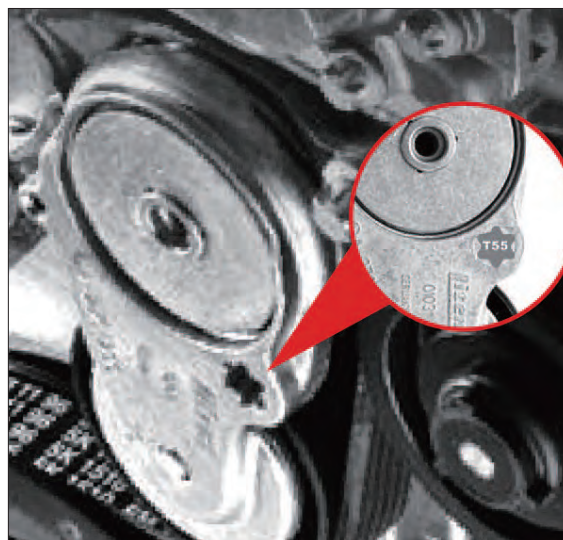

- Applicable for:
 Opel/Vauxhall Corsa-E 2015 to 2017 CDTi.
 Engine codes: 1.3cc
 LKU/B13DTE, LKU/B13DTR, LKV/B13DTC
- Contents:
 Crankshaft pulley hub holding tool - OEM KM-662-C
 Camshaft position (CMP) sensor disc setting tool - OEM EN-51500
 2 pcs inlet camshaft gear alignment tool - OEM EN-50509
 Timing chain front cover alignment tool - OEM EN-46775
 Timing chain tensioner locking pin - OEM KM-955-1
 Crankshaft pin - OEM EN-46785
 2 pcs Camshaft locking tool - OEM EN-50515

APH00063
VOLVO SERPENTINE BELT TENSIONER TOOL


- This tool is used in conjunction with the serpentine belt tensioner to slacken the tension from the belt.
- Specification: T60, T50, and a 14mm hex head
- Suitable for Volvo 240, C30, C70, C70 Convertible, C70 Coupe, S40, S60, S70, S80, V40, V50, V70, V70 XC, XC70, XC90.

APH00064

BENZ SERPENTINE BELT TENSIONER TOOL



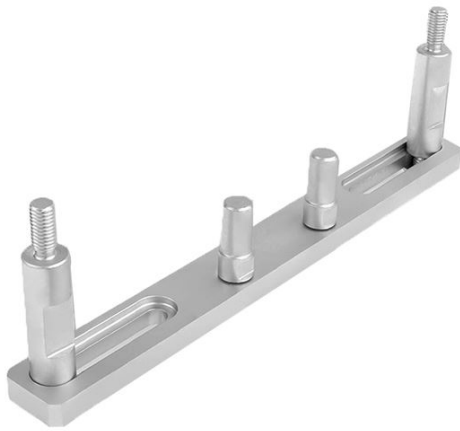
- Release tension on serpentine belts tensioners in confined spaces.
- Specification: T55 head
- Suitable for Mercedes-Benz W176, W246, C/X117, X156.
- Equivalent to OEM part number W270589000700

APH00068

TIMING BELT TOOL KIT



- Suitable for the 2015 4-Cylinder TDI models with engine code CVCA or CRUA.
- Applicable for: 2015 Jetta TDI, Golf TDI, Beetle TDI, Sportwagen TDI and Passat TDI.
- The kit includes:
 - Crankshaft lock
 - Locking pins for camshaft sprocket and HPFP sprocket
 - Camshaft sprocket counter holding tool
 - Timing belt tensioner locking pin

APH00069
CRANKSHAFT PULLEY LOCKING TOOL


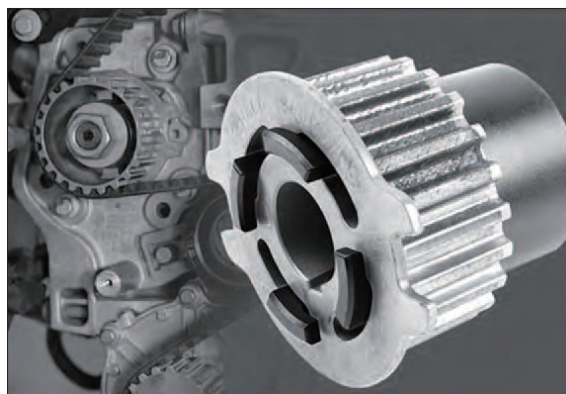
- Specially designed to lock the crankshaft pulley for the removal of the central bolt.
- Applications: Smart:Fortwo, Forfour; Renault: Twingo, Clio, Captur; Dacia: Sandero, Logan; Nissan: Micra
- Suitable for H4Bt 400 / 409 Tce 90 0.9L petrol turbo engine from 2012.
- OEM Ref. MOT.2054, 281589004000.

APH00070
STRETCH BELT INSTALLATION TOOL FOR PSA


- Specially designed to install the water pump belt without damage.
- Applications: Peugeot: 108, 208, 301, 308, 408, 3008, 5008, Partner; Citroen: C1, C3, C3 Picasso, C3 Aircross, C4 Picasso, C4 Cactus, C-Elysee, Berlingo, DS3, DS4, DS4 S, DS5 LS; Opel: CorslandX.
- Suitable for PSA pure tech 1.0L/1.2L engines from 2012.
- OEM Ref. EN-52112-2

APH00071

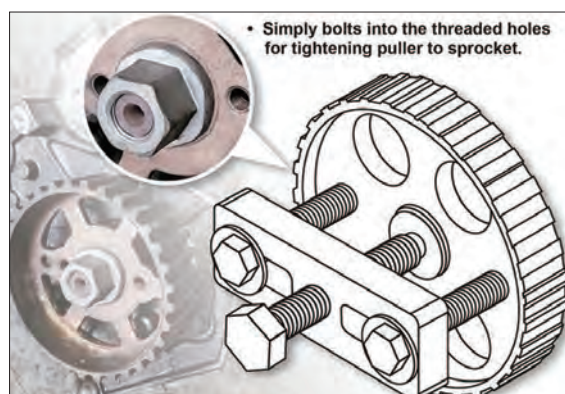
DIESEL PUMP SPROCKET PULLER FOR PSA



- Used for the removal of high pressure fuel pump sprocket on DV6/DLD-416 engine.
- Applications: Peugeot, Citroen, Ford, Volvo, Fiat, Mazda, Mitsubishi, Toyota etc.
- OEM Ref. 0194-X, 9780GN

APH00072

DIESEL PUMP SPROCKET PULLER



- Used for the removal of high pressure fuel pump sprocket on the diesel engine.
- Can also be used to remove the steering wheel, camshaft pulley, crankshaft pulley and other threaded-hole parts.
- Suitable for Alfa, Citroen, Fiat, Ford, Mazda, Opel, Peugeot, Subaru, Suzuki, VW, etc.

APH00074
TIMING TOOL KIT FOR JAGUAR LAND ROVER EVOQUE 2.0T ENGINE


- For locking the engine into the timed position so the engine timing chain can be removed, replaced and the engine timing checked.
- Tool should be used with a fuel pump locking tool.
- Engine codes: AJ 200D, 204DT, AJ200D, AJ200, 204DTD
- OEM NO.: 303-1635, 303-1636, 303-1630
- Vehicle applications include: Jaguar F pace, XE, XF (2015 onwards) and Land Rover Discovery Sport, Range Rover Evoque (2015 onwards)

APH00075
TIMING TOOL KIT FOR JAGUAR LAND ROVER V8 DIESEL ENGINE


- Setting and locking kit for Range Rover V8 3.6 / 4.4 Kit includes a flywheel locking plate and camshaft rotating pin.
- OEM NO. 303-1568, 303-1620, 303-1571, 303-1243

APH00076

TIMING TOOL KIT FOR MERCEDES-BENZ M152/M157/M276/M278



- Special designed to align the camshaft timing angle for correct position for Mercedes Benz.
- OEM NO. 276589014000, 278589002300
- Contents:
 1. Camshaft Position Sensor Reluctor Setting Tool
 2. Camshaft Holding Tools
 3. Fuel Injector Puller
 4. T100 Socket
- Applications:
 - M152 engine: SLK 55 AMG (R172)
 - M157 Engine: M Class (164), R Class (251), CLK (209), E Class (211/2 12), CLS (219), S Class (221), CL Class (216), C class (204)
 - M276 Engine: E Class(212/207), S Class(221), CLS(218), SL Class(231), M Class(166), SLK(172), C Class(204), GLK (204), R Class (251)
 - M278 Engine: S Class (221), CL Class (216), E Class (212/207), CLS (218), SL Class (231), M Class (166), GL Class (166)

APH00077
**V-RIBBED BELT TENSIONER TOOL SET FOR CITROEN/PEUGEOT/FIAT/FORD
1.4L/1.6L DIESEL**


- Facilitates the pre-tensioning and locking of V-ribbed belt tensioners.
- Designed for the removal / installation of the V-ribbed belt in-situ on the vehicle even in very limited space conditions.
- Suitable for Citroën / Peugeot / Fiat / Ford 1.4L and 1.6L diesel engines.
- OEM No.: 0188-Z , G.0194-E3
- Applications:
 Citroën, Peugeot, Ford & Fiat 1.4 & 1.6 diesel engines.
 Citroën: Berlingo, C1, C2, C3, C3 Picasso, C3 Pluriel,
 C4, C4 Picasso, C5, DS3, DS4, Xsara & Xsara Picasso.
 Peugeot: Partner III, 206, 207, 308, 508, 3008, 5008.
 Engines covered include DV4 & DV6 engines.
 Engines: 1.4D and 1.6D

APH00078

ENGINE TIMING CHECK KIT 1.2 GDI PURETECH FOR PSA



- This kit provides an accurate and time saving method to check the timing belt for deterioration and stretch.
- Belt stretch may lead to incorrect camshaft timing.
- Contents:
 1. Intake Camshaft Position Tool
 2. Exhaust Camshaft Position Tool
 3. Timing Belt Tool
 4. Holding Tool
 5. Hex Key

APH00079

CAMSHAFT TURNING ADAPTER SOCKET SET



- The set includes 3 sockets used to rotate and hold the camshaft.
- Suitable for EA888, VAG 1.8 and 2.0 petrol engine.
- 3/8" Square Drive.

APH00082
RATCHETING SERPENTINE BELT TOOL KIT


- Ideal for removing or installing the serpentine belt on vehicles with a spring loaded belt tensioner pulley.
- Long bar can hold sockets directly or attach to the ratcheting wrench for maximum access.
- Drive tools includes: Long Bar, Special GearWrench Ratcheting Wrench, and 3/8", 1/2" and 3/4" adaptors.
- 6 Point sockets includes: 13, 14, 15, 16, 17, 18 and 19mm
- Crowfoots includes: 13, 14 and 15mm

APH00083
FORD ENGINE TIMING KIT FOR 1.5 3 CYLINDER ECOBOOST

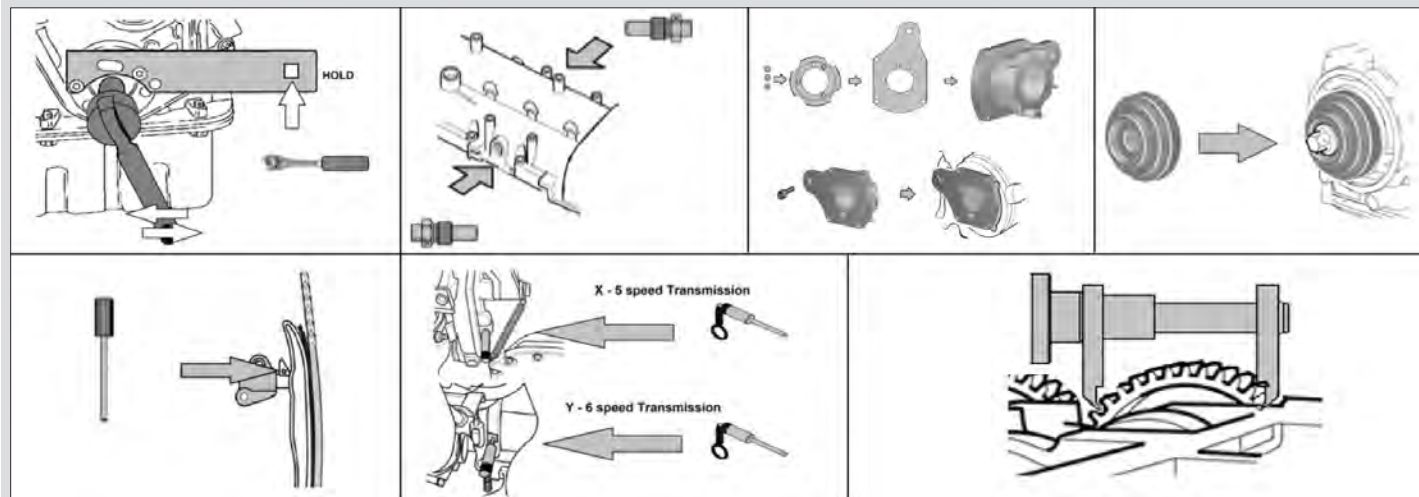

- This kit is a 3 cylinder engine with chain driven camshafts.
- Developed for timing chain to safely remove and replace the camchain or check the camshaft timing.
- Engine applications: 1.5L EcoBoost Petrol YZJA, Y2DA, Y1DA, and YZDA.
- Applications include:
 Ford Focus EcoBoost 2018 and newer
 Ford Focus ST EcoBoost 2018 and newer
 Fiesta Duratec 2018 and newer
 Ford Kuga 1.5L EcoBoost (I3) 2019 and newer
- Equivalent to OEM: 303-1643, 303-1649, and 303-1645.

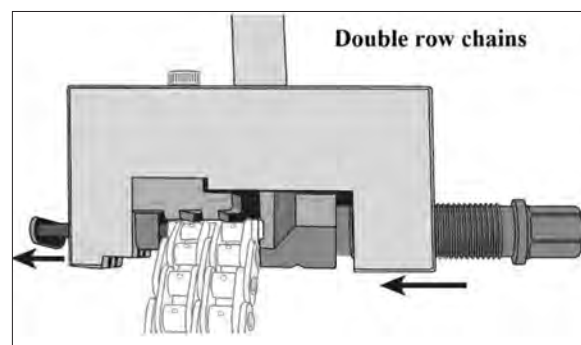
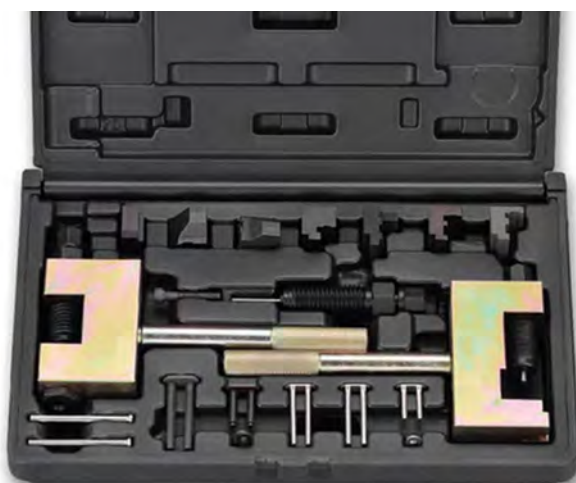
APH00084

ENGINE TIMING TOOL KIT-VAUXHALL



- Application: Opel/Vauxhall Corsa-E 2015 to 2017 CDTi
- Engine Codes: 1.3cc LKU/B13DTE, LKU/B13DTR, LKV/B13DTC
- OEM No.: KM-662-C/ EN-51500/ EN-50509/ EN-46785/ KM-955-1/ EN-46785/ EN-50515/ EN-50509



APH00085
ENGINE TIMING TOOL KIT-MERCEDES-BENZ


- Essential tool for timing chain work on Mercedes-Benz 1.7D, 2.1D, 2.2D, 2.7D, 3.0D, 3.2D, 3.9D, and 4.0D CDI diesel engines.
- The link separating tool and the link assembly tool allow for quick and easy separation and assembly of the timing chain. May also be used on some Chrysler/Jeep 2.2D, 2.7D, and 3.0D CRD diesel engines.

APH00086
ENGINE TIMING AND FUEL PUMP TOOL KIT - JLR 2.0 INGENIUM DIESEL ENGINE


- For locking the engine into the timed position so the engine timing chain can be removed/replaced and the engine timing checked.
- Locks the fuel pump sprocket and chain in a fixed position while the pump is removed and replaced.
- Vehicle applications include: Jaguar F pace, XE, XF (2015 onwards), Land Rover Discovery Sport, Range Rover Evoque (2015 onwards).
- Engine codes: AJ-200D, 204DT, AJ200D, AJ200, 204DTD
- OEM No.: JLR-303-1625, JLR-303-1631, JLR-303-1630, JLR-303-1627

APH00087

DUAL OVERHEAD CAM (DOHC) LOCK TOOL



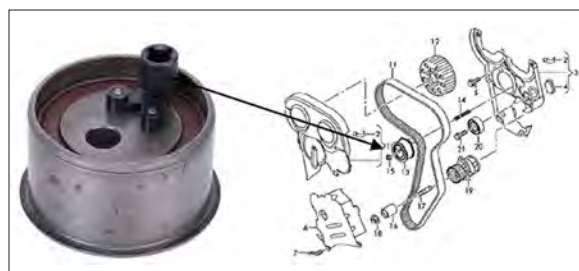
- Easily locks and holds both camshaft sprockets firmly in place.
- The two parallel bars "float" which allows the knurled pins to align with the sprockets.
- Preserves the engine timing during belt or chain replacement.

APH00118 、 APH00119

TIMING BELT EXTENSION TOOL



APH00118 APH00119



- Used to adjust the timing belt at the tensioner pulley
- Adjustable Pin: 8-25mm

Part No.	Pin
APH00118	3.0mm
APH00119	3.1mm

APH00133
CRANK PULLEY TOOL

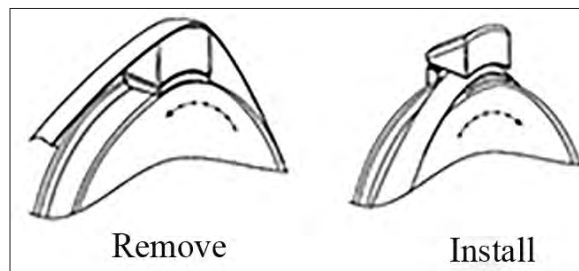

- The tool has new design with small pin reinforcement ring for loosening the toughest of crank pulley bolts
- Integrated low profile handle allows to easily remove the crank pulley while the radiator is still installed in the vehicle
- Suitable for: Subaru (Impreza, BRZ, Legacy, Forester, Outback, Baja, WRX STI), Saab 9-2X, Toyota 86, Scion FR-S

APH00134
CRANK PULLEY REMOVAL TOOL FOR SUBARU


- Includes Plastic Washers (Won't damage surface)
- Uses large 1/2" Socket Wrench
- Suitable for Subaru (Impreza, BRZ, Legacy, Forester, Outback, Baja, WRX STI), Saab 9-2X Toyota 86, Scion FR-S)

APH00146

BELT HOLDING TOOL



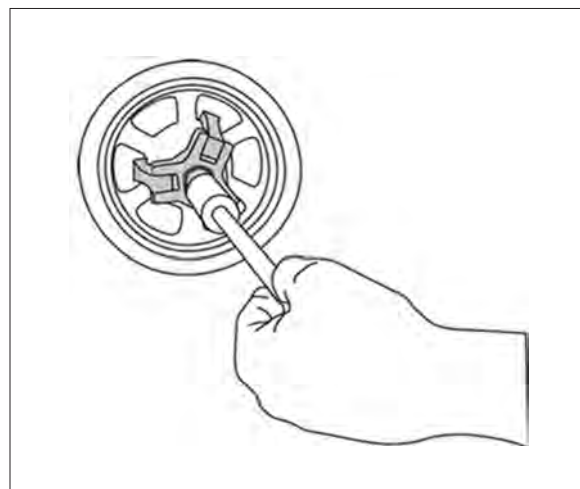
- Keeps belt from falling off of a pulley during belt installation
- Universal design to fit most of pulley styles and sizes

APH00147

VOLVO SERPENTINE BELT TOOL



- The square head wrench fits into idler pulley and turns to release tension for replacement of serpentine belt
- Drive Size: 19mm square
- Length: 310mm
- Suitable for: Volvo vehicles after 1995

APH00156
HARMONIC DAMPER PULLEY PULLER SET

■ Application:CHRYSLER:

1990 & LATER VANS with 3.3L V-6;1993-1997 AUTOMOBILES with 3.3L & 3.5L V-6; 1994 & LATER VANS with 3.8L V-6;1994 & LATER PICKUPS WITH 8.0L V-10; 1995 & LATER AUTOMOBILES with 2.0L 4 CYL,2.4L 4 CYL & 2.5L V-6 1998 & LATER AUTOMOBILES with 2.7L DOHC V-6,3.2L SOHC V-6 & 3.5L SOHC V-6; 1998 and later 4.7L V-8,2004 and later 5.7L V-8 HEMI and 6.1L V8 HEMI G.M. 1997 & LATER GEN III 5.7L V-8, Which includes CAMARO, CORVETTE, FIREBIRD And TRANS-AM 2000 and LATER GEN III TRUCKS & SUV S WITH 4.8L V-8, 5.3L V-8, 6.0L V-8 AND 8.1L V-8. GM 4.2L STRAIGHT 6 CYL. IN CHEVY TRAILBLAZER 2003 AND LATER, GMC ENVOY 2003 andlater, OLDS BRAVADA 2003 AND LATER ALSO BUICK RAINIER 2004 and later; 3.5L STRAIGHT 5 CYL. In CHEVY COLORADO 2004-2006, GMC CANYON 2004-2006; and 3.7L STRAIGHT 5 CYL.2007 and later 2.8L STRAIGHT 4 CYL. IN CHEVY COLORADO 2005-2006 Also GMC CANYON 2005-2006 AND 2.9L STRAIGHT 4 CYL 2007 & LATER.GM 3.5L V-6 2004 and LATER, 3.9L V-6 2006 and later

■ HUMMER H3 3.5L STRAIGHT 5 CYL. 2006 and later and 3.7L STRIGHT 5 CYL. 2007 & Later
■ CADILLAC 1988-1992 4.5L V-8, 1991-1995 4.9L V-8, 1993 & Later 4.6L V-8, 2002-2006 6.0L V8, 2007 AND LATER 6.2L V8
■ MITSUBISHI ECLIPSE 1995-1999 2.0L DOHC NON-TURBO
■ OLDSMOBILE 1995-2004 4.0L V-8 CHEVROLET CAMARO 3.6L Engines

APH00184

ACCESSORY BELT ETNSIONER UNLOADER (GM GROUP)



- Used to service the accessory belt
- OEM Ref.EN-44811

Application			
Engine Mechanical	Astra: 2008-2010	HHR: 2006-2011	Regal: 2013
	AURA: 2007-2010	ION: 2003-2007	Sky: 2007-2010
	BAS Hybrid: 2007-2010	L200/LW200: 2000-2005	Solstice: 2006-2010
	Captiva Sport: 2008-2011	L300/LW300: 2000-2005	Verano: 2013
	Captiva: 2007-2011	Malibu Classic: 2008	VUE - AWD: 2002-2007
	Cobalt: 2005-2012	Malibu: 1998-2001	VUE - FWD: 2002-2007
	Equinox: 2005-2011	Pursuit: 2005-2007	VUE Hybrid: 2008-2010
	G5: 2007-2010	Regal: 1998-2004	VUE: 2002-2010
	G6: 2005-2010	Regal: 2011	
Engine Electrical	Astra: 2008-2010	L200/LW200: 2000-2005	RELAY: 2005-2008
	AURA: 2007-2010	L300/LW300: 2000-2005	Sky: 2007-2009
	BAS Hybrid: 2007-2010	Malibu Classic: 2008	Solstice: 2006-2009
	Cobalt: 2005-2010	Malibu: 1998-2010	VUE - AWD: 2002-2007
	Equinox: 2005-2010	OUTLOOK: 2007-2010	VUE - FWD: 2002-2007
	G5: 2007-2010	Pursuit: 2005-2007	VUE Hybrid: 2008-2010
	G6: 2005-2010	Regal: 1998-2004	VUE: 2002-2010
	HHR: 2006-2010	RELAY - AWD: 2005-2007	
	ION: 2003-2007	RELAY Ext.: 2005-2007	
Body	Astra: 2008	HHR: 2006-2011	RELAY - AWD: 2005-2007
	AURA: 2007-2009	ION: 2003-2007	RELAY Ext.: 2005-2007
	BAS Hybrid: 2007-2009	L100: 2000-2002	RELAY: 2005-2008
	Cobalt: 2005-2010	L200/LW200: 2000-2005	Sky: 2007-2009
	Cobalt: 2012	L300/LW300: 2000-2005	Solstice: 2006-2009
	Equinox: 2005-2011	Malibu Classic: 2008	VUE Hybrid: 2008-2010
	G5: 2007-2010	Malibu: 1998-2009	VUE: 2007-2009
	G6: 2005-2009	OUTLOOK: 2007-2009	
HVAC	Cobalt: 2005-2007	Malibu: 1998-2007	VUE - AWD: 2002-2007
	Equinox: 2005-2007	Pursuit: 2005-2007	VUE - FWD: 2002-2007
	G6: 2005-2007	Regal: 1998-2004	VUE Hybrid: 2008-2010
	HHR: 2006-2007	RELAY - AWD: 2005-2007	VUE: 2002-2008
	ION: 2003-2007	RELAY Ext.: 2005-2007	VUE: 2004-2010
	L200/LW200: 2003-2005	RELAY: 2005-2007	
	L300/LW300: 2000-2005	Solstice: 2006-2007	
Engine	Captiva: 2012	HHR: 2011	Regal: 2011-2013
	Cobalt: 2012	Malibu: 2011-2012	Verano: 2013
	Equinox: 2011	Orlando: 2013	
Gas Mechanical	L100: 2000-2002	L200/LW200: 2000-2003	L300/LW300: 2000-2005

APH00376
CRANKSHAFT LOCKING PIN - FORD


- To secure the crankshaft by the flywheel and is designed to lock the crankshaft through the flywheel at its timing position when the camshaft drive chain is replaced or when the engine is checked.
- To use with Crankshaft pulley holding tool (303-1310)
- OEM NO.: 303-1562
- Suitable for: Ford: Transit(2011-2014), Ranger(2011-2017), RWD 2.2 & 3.2(SAFA), TDCI diesel.
- Engine codes: CVRA, CVRB, CYRA, DRRRA, DRRB, USRA, USRB, SAFA

APH00377
ENGINE TIMING CHAIN TOOL KIT - OPEL / VAUXHALL 2.0 CDTI


- For locking the camshaft of the vehicle listed at its designated position for extracting and replacing the camshaft drive chain and camshaft extraction.
- The kit require to use with APH00379
- OEM NO.: EN-51415, EN-51418
- Suitable for: Opel/Vauxhall: Cascada(2015-2017), Insignia(2014-2017), Insignia Country Tourer(2014-2017), Zafira C Tourer(2014-2017)
- Engine codes: 2.0 D:LFS/B20DTH

APH00378

ENGINE TIMING TOOL KIT - VAG / PORSCHE 6 & 8 CYL FSI



- The kit offers essential camshaft, crankshaft and petrol fuel pump alignment tools for replacing timing chains on VAG and Porsche petrol engines with 6 & 8 cylinder.
- OEM NO.: T10332, T10363, T10068-A, 3242, T40237, T10069
- Suitable for:
 - Audi: A8(2002-2011), S8(2001-2015), Q7(2003-2010), A3/A3 Sportback(2005-2015), A3/A3 Sportback(2011-2012)
 - Porsche: Cayenne(2001-2004)
 - Skoda: Superb II(2010-2016)
 - Volkswagen: Phaeton(2007-2015), Touareg(2008-2012), Passat(2005-2014), Eos(2014-2014), Passat CC(2010-2014), Bora(2001-2004), Sharan(2000-2010), Transporter T4(2000-2003).
- Engine Codes:
 - 2.8: BDE, AYL, AMV
 - 3.2: CBRA, AXZ, BDB, BMJ, BUB
 - 3.6: M55/02, M55/01, CDVA, BWS, CHNA, BHK, BHL, CGRA, CMTA
 - 4.0: BDN, BDP
 - 6.0: BAN, BRN, BRP, BTT, BJN
 - 6.3: CEJA, CTNA

APH00379**ENGINE TIMING CHAIN TOOL KIT - OPEL / VAUXHALL**

- Designed to remove and replace the camshaft drive belt. The kit also include the tool required to look the flywheel on vehicles fitted with automatic transmission.
- The kit require to use with: APH00377.
- OEM NO.: EN-51413, EN-955-2, EN-51412, EN-51414, EN-51411
- Suitable for: Opel/Vauxhall: Cascada(2015-2017), Insignia(2014-2017), Insignia Country Tourer(2014-2017), Zafira C Tourer(2014-2017).
- Engine Codes: 2.0: LFS/B20DTH

APH00441

FLYWHEEL/FRONT PULLEY LOCKING TOOL SET - RENAULT/NISSAN



- This product provides lockup for Reynolds engine flywheel and front pulley.
- The product also provides a key tools for Renault dual cam 1.4, 1.6, 2.0, 2.5 and 3.5 liter petrol engines for timing chain replacement.
- Applications:
Renault: Espace V (15-16), Clio(06-16), Fluence(09-15), Laguna(05-15), Latitude(10-16), Megane(06-15), Scenic/Grand Scenic(06-15), Espace/Grand Espace IV(02-15), Koleos(08-16), Trafic II(07-15), Vel Satis(2000-10), Master III(10-16) Nissan: Primastar(06-15), Qashqai/Qashqai+2(07-14), X-Trail(07-14), NP300 Navara(15-16), NV400(11-16)
- Engine Code:
1.4: H4Jt 700
1.6: M5M 400, M5M, M5M 450
2.0: M4R 700, M4R 701, M4R 714, M4R 750, M4R 751, M4R 752, M4R 753, M4R 737, M4R 704, M4R 726, M4R 730, M4R 735, M4R 746, M4R, M4R 711, M4R 713, M9R 740, M9R 760, M9R 761, M9R 812, M9R 814, M9R 815, M9R 830, M9R 832, M9R 833, M9R 834, M9R 835, M9R 836, M9R 838, M9R 855, M9R 856, M9R 865, M9R 866, M9R 742, M9R 800, M9R 805, M9R 700, M9R 721, M9R 722, M9R 724, M9R 613, M9R 615, M9R 610, M9R 630, M9R 780, M9R 782, M9R 750, M9R 762, M9R 763, M9R 858, M9R 859, M9R 8, M9R 744, M9R 746, M9R 748, M9R 754, M9R 802, M9R 803, M9R 806, M9R 808, M9R 809, M9R 820, M9R 828, M9R 845, M9R 849, M9R 854, M9R 857, M9R 816, M9R 756, M9R 804, M9R 811, M9R 817, M9R 824, M9R 839, M9R 844, M9R 846, M9R 692, M9R 784, M9R 786, M9R 788, M9R
2.3: M9T 670, M9T 672, M9T 676, M9T 678, M9T 680, M9T 686, M9T 690, M9T 692, M9T 694, M9T 696, M9T 698, M9T 700, M9T 702, M9T 870, M9T 880, M9T 890, M9T 896, M9T 898, M9T C6, YS23DDT, YS23DDTT, M9T 706, M9T 708
2.5: 2TR 700, 2TR 700, 2TR 702, 2TR 703, 2TR 704, 2TR 705, 2ZV 604, V4U 604, VQ25
3.5: V4Y 711, V4Y 715, V4Y 701, V4Y 713
- OEM NO.: MOT.2019, MOT.919-02, MOT.1431, MOT.1716

APH00442
TIMING TOOL KIT - CITROEN / PEUGEOT/RENAULT 3.0 V6


- Suitable for setting and locking Renault 3.0 V6 (L7X) engines and Citroen/Peugeot V6 (XFZ) engines (97-01). The kit contains locking pins for camshafts and crankshaft, camshaft holding tool and tensioner tools. Also includes timing pin for checking the valve timing position.
- Application: Citroen; 3.0 V6 - Xantia, XM, Peugeot; 3.0 V6 - 406, 605, Renault; 3.0 V6 Espace, Laguna, Safrane (97-05)
- Engine Code: Citroen/Peugeot; XFZ, Renault; L7X
- OEM Codes: 0187A, 0187B, 0187C, 0187E, 0187F, 0187J, MOT1428, MOT1429, MOT1430, MOT1430 01, MOT1436

APH00443

TIMING TOOL KIT - JAGUAR / LAND ROVER 3.0 V6 & 5.0 V8



- Designed for the locking/positioning of the crankshaft and timing belt tensioner. The kit includes tools to stretch/pre-set the tension on the timing belt.
- An indispensable tool set when replacing a timing belt or performing an engine repair.
- Application:
Renault, Dacia, Nissan, Proton 1.2, 1.4 and 1.6 petrol engines as found in: Renault Clio II / III, Kangoo I / II, Logan, Megane, Modus, Thalia, Twingo I / II, Wind; Nissan Kubistar; Proton Savvy; Dacia Logan.
- Engine codes: D4F, D4F 702, D4F 704, D4F 706, D4F 708, D4F 712, D4F 714, D4F 716, D4F 722, D4F 728, D4F 730, D4F 740, D4F 742, D4F 764, D4F 772, D4F 774, D4Ft 780, D4Ft 782, D4Ft 784, D4Ft 786, D7F 702, D7F 703, D7F 704, D7F 706, D7F 708, D7F 710, D7F 720, D7F 722, D7F 726, D7F 744, D7F 746, D7F 764, D7F 766, D7F 800, D7F B700, D7F C701, E7J 626, E7J 634, E7J 635, E7J 780, K7J 710, K7M 710, K7M 744, K7M 745, K7M 746, K7M 850)
- OEM Codes: MOT 1501/MOT 1386/MOT 1489/MOT 1054/KM 6130/MOT1430/KM-6031/09912-46510/KV113B0280/MOT 1135-1

APH00444

TIMING TOOL KIT - JAGUAR / LAND ROVER 3.0 V6 & 5.0 V8



- OEM NO.: 303-1437, 303-1438, 303-1439, 303-1440, 303-1441, 303-1433, 303-1434, 303-1303, 303-1304, 303-1449-01, 303-1449-02, 310-200-01

APH00598
BELT TENSIONER TOOL - MERCEDES


- Effectively compresses hydraulic belt tensioner on Mercedes W169 and W245 (alternator with start-stop function).

APH00661
VIBRATION DAMPER ASSEMBLY TOOL - 1.8/2.0 TFSi / TSi VAG


- A comprehensive kit used for dismantling and assembling the vibration damper on the vehicles listed.
- The vibration damper fitted to the VAG 1.8/2.0 TFSi/ TSi engines (from 2007) is held in place by a single central bolt. If the pulley bolt is removed without using this tool the crankshaft chain sprocket can easily separate from the crankshaft causing the timing position to be lost.
- This essential kit is required to maintain the engine timing when removing the front vibration damper and should be used whenever the vibration damper is removed for instance when replacing the front crankshaft oil seal.
- Applications: Audi, Seat, Skoda, Volkswagen
- Equivalent to OEM T10531/1, T10531/2, T10

APH00662

ENGINE TIMING CHAIN TOOL -FOR BMW/MINI 1.5/2.0 DIESEL



- Provides the essential tools required to check and set the camshaft and crankshaft timing on the post 2014 BMW/Mini 1.5lt 3 cylinder (B37) and 2.0lt 4 cylinder (B47) Diesel engines.
- Application: BMW : 1, 2, 3, 4, 5 series and X1/3/4/5 models from 2014.*Mini : Clubman (F54), Convertible (F57), Mini Hatch (F55/56) from 2014 on.
- Engine codes:
 - 1.5L-B37 D15A, B37 C15A
 - 2.0L-B47 D20A, B47 D20B, B47 C20A, B47, B47 C20B
- Equivalent to OEM 11 8 760, 2 357 904, 2 288 380, 2 365 488, 11 8 030, 11 4 120

APH00663

INJECTION PUMP SPROCKET LOCKING TOOL - NISSAN 2.5/2.2



- The item is designed to lock the timing sprocket/injection pump sprocket on 2.2/2.5 chain driven engines.
- Equivalent to OEM KV11106030
- Application:
 - Nissan diesel 2.5/ 2.2 fitted to Almera/Almera Tino Cabstar/Navara/Pathfinder/Primera/X-Trail
- Engine codes:
 - YD25ddt i(2.5Di,2.5DDCI) YD22DDTi & YD22DDT (2.2 TURBO DIESEL).

The image contains five separate photographs of mechanical parts:

- Top Left:** A long, black, threaded rod or pin with a hexagonal head on the left and a pointed tip on the right.
- Top Right:** A black, multi-pronged tool or pin with a hexagonal head and a textured grip area on the right.
- Bottom Left:** A small, black, cylindrical pin or bolt.
- Bottom Left (middle):** A black hexagonal nut or washer.
- Bottom Right:** A large, black, rectangular bracket or plate with a central threaded hole and two smaller holes on either side, each with a pin inserted.

- APH00668**

- Applications: Ford Transit, Transit Custom and Tourneo Custom with Ecoblue TDCi engines: AWD, FWD, RWD 2016 onwards
- Equivalent to OEM tools 303-1637, 303-1650, 303-1643

APH00670

CAMSHAFT PULLEY ALIGNMENT PINS - FORD 2.0 DIESEL



- Designed to lock and hold the camshaft while removing and fitting the high pressure fuel pump in accordance with Ford OEM instructions, ensuring the valve timing remains unchanged.
- Applications: Ford C Max from 2015, Edge from 2015, Focus from 2014, Galaxy from 2015, Grand C-Max from 2015, Kuga from 2014, Mondeo from 2014, S-Max from 2015 with DW10F engine
- Equivalent to OEM 303-1667 (pair)

APH00755

CRANKSHAFT TURNING/HOLDING KIT FOR BMW/MINI



- An engine timing support tool for BMW 1.2, 1.5, 2.0 petrol and diesel engines.
- Applications: BMW 1,2,3,5 Series (2014-2017), 4, 7 Series (2015-2017), X1, X3, X4 Series (2014-2017), X5 Series (2015-2017), Mini Clubman (2014-2017), Mini Hatch (2015-2017), Mini convertible (2016-2017)
- Equivalent to OEM tools: 11 6 480, 11 9 811, 11 9 265, 11 4 180

APH00756**CAMSHAFT ADJUSTING SOCKET SET-T10352C**

- Used for removal and installation of 4/3-way central valve for camshaft adjustment.
- Audi A3 with 4 cylinder gas direct injection, 1.8 liter, 2.0 liter, 4v TFSI engine with chain.
- OEM No.: T10352, T10352/1A, T10352/2, T10352/3, T10352/4

APH00757**3PC FAN CLUTCH TOOL SET FOR LAND ROVER**

- Slim design makes access possible in the restricted areas found on some Land Rover and Range Rover vehicles.
- Designed to remove the viscous engine fan from the water pump.
- Used in pairs, one to hold, and one to undo, depending on the specific Land Rover application.
- Length: 650mm
- OEM No.: 303-1167, 303-1143, 303-1142
- Application: Land Rover Discovery 3 & 4, New Range Rover, Range Rover Sport.

APH00758

CRANKSHAFT TRIGGER WHEEL INSTALLER JLR



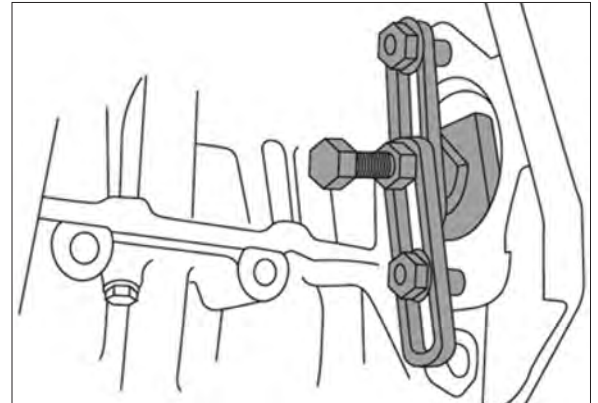
- Designed for the installation of the crankshaft trigger wheel found on Land Rover and Jaguar.
- Equivalent to OEM 303-1130
- Applications:
JAGUAR: X350 XJ, X351 XJ(300 Powertrain), X200 S Type, X250 XF.
Land Rover: Discovery 3/4, Range Rover Sport TDV6 Engine (3 Powertrain).

APH00760

CAMSHAFT LOCKING TOOL - VOLKSWAGEN



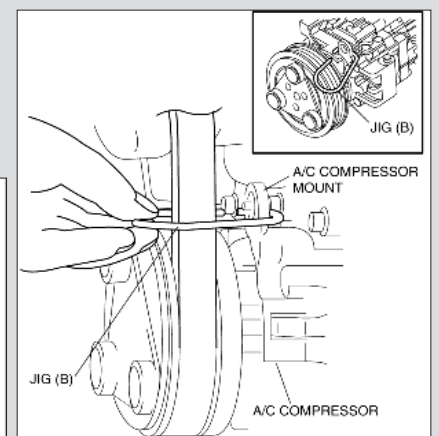
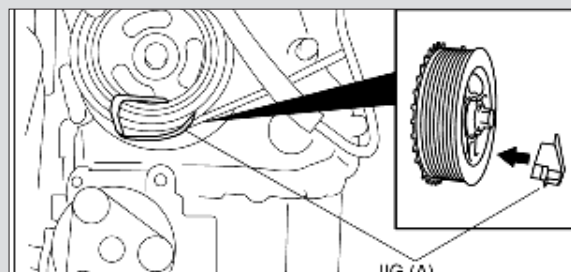
- Used when checking and setting the valve timing.
- Applications : VOLKSWAGEN LT Van 1997 to 2006 2.8lt.
- Equivalent to OEM 3445

APH00776
FLYWHEEL LOCKING TOOL - HYUNDAI / KIA


- Locking tool used when removing and installing the flywheel. It will allow for safe removal and tightening of the flywheel bolts without turning the crankshaft.
- Applications:
 HYUNDAI from as early as 2007 to 2018 including Accent, Elantra, i10, i20, i30, i40, ix20, ix35, Santa fe, Tiburon, Tuscon
 KIA from 2007 include Carens, Cee d, Optima, Picanto, Pro-Cee'd, Rio, Sedona, Sorento, Soul, Sportage, Venga
- Engine codes include: 1.0 G3LA, GELC 1.2, G4LA 1.4, G4LC, G4FA 1.6, G4FC, G4FD, G4FJ 2.0 G4KD, G4KF, G4NC, G4NA, G4ND, G4NE 2.4, G4KE, G4KJ 2.7 G6BA *Equivalent to OEM 09231-2B100

APH00797
A/C COMPRESSOR BELT INSTALLER KIT - FORD / MAZDA


- Used to install the belt on air conditioner compressor.
- Models: MAZDA 3 / MAZDA 5 / Ford Focus.



APH00798

A/C COMPRESSOR STRETCH FIT INSTALLATION TOOL KIT - FORD



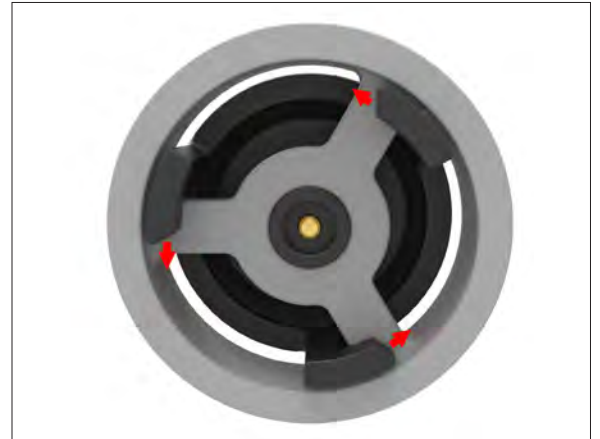
- This tool is designed for proper removal and installation of the stretch fit belts.
- Suits on 2011-2016 Ford Fiestas with 1.6L engines.
- Equivalent to Gates 91032.

APH00805

TIMING TOOL KIT - FIAT



- Used to install Twin Air turbo chain driven engines on Alfa | Fiat | Lancia vehicles.
- Equivalent to OEM 2000035100, 2000035200, 2000035300

APH00816
HARMONIC BALANCER REMOVER


- Suitable for a wide variety of engines which fit with 3 and 6 spoke balancers.

APH00817
FORD CRANKSHAFT VIBRATION DAMPENER ALIGNMENT TOOL


- Applicable to:
 Engine - 1.6L EcoBoost (110kW/150PS) - Sigma/1.6L EcoBoost (132kW/180PS) - Sigma : Focus : 2010 -2013
 Engine - 1.6L EcoBoost (110kW/150PS) - Sigma/1.6L EcoBoost (132kW/180PS) - Sigma : C-Max : 2011
 Engine - 1.6L EcoBoost (132kW/180PS) - Sigma : Fiesta : 2013
 Engine - 1.6L EcoBoost (132kW/180PS) - Sigma : Fusion : 2013
 Engine - 1.6L GTDI : Escape : 2013

APH00896

CRANKSHAFT TURNING TOOL - AUDI V6/V8 PETROL ENGINES



- Applications: Audi A6, A7, A8, RS4, RS5, RS6, RS7, S6, S7, S8 (from approx 2010).
OEM NO.: T40257, T40272
Engine Code: LXB, CPAA, CHVA, CHNA Plus 4.0L and 4.2L include: CEUA, CEUC, CGTA, CRDB, CTFA, CTGA, CTGE, CWUB, CWUC, DDTA, CFSA.

APH00899

FUEL PUMP CAMSHAFT TIMING TOOL - LAND ROVER/JAGUAR 5.0/3.0



- A steel timing tool designed to time the fuel pump camshaft.
- OEM No.: 303-1621, 303-1304, 303-1303

APH00901**SUBARU CRANKSHAFT SOCKET**

- Use to align the crank to T.D.C. while working with the timing chain.
- Also works on older 3 or 6 cylinder DOHC engines.
- APPLICATION:
 - 2013-2015 SUBARU-BRZ
 - 2012-2015 SUBARU-FORESTER
 - 2012-2015 SUBARU-IMPREZA,
 - 2015-2015 SUBARU-IMPREZA WRX
 - 2013-2015 SUBARU-LEGACY,
 - 2013-2015 SUBARU-OUTBACK
 - 2006 SUBARU-OUTBACK,(6-CYL.)
 - 2006 SUBARU-TRIBECA B9
 - 2013-2015 SUBARU-XV CROSSTREK.

DRIVE YOUR MECHANIC SPIRIT



APO TOOL INTERNATIONAL LTD.

TEL: +886 4 7514888

FAX: +886 4 7524888

E-mail: service@apotool.com.tw

No.38, Ping An Street, Changhua City Taiwan 50055

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