



AUTO & SPECIAL TOOLS V3



FORCE®

®

Power you on

13pc Spark plug maintenance kit

K913G5



Content: 3/8"DR.

| | |
|-----------------|--|
| 8323 18...24 | 2-Torque adapter 18Nm; 24Nm |
| 802318 | 1-Flexible ratchet handle |
| 807316M...20.6M | 2-Magnetic spark plug socket 16; 20.6 mm |
| 8043150 | 1-Extension 150mm-6" |
| 61802 | 1-26 sizes Feeler gauges (SAE & Metric) |
| 63001 | 1-Spark plug hole thread chaser |
| 63004 | 1-14mm Spark plug hole rethreader |
| 9U3001 | 1-Brass & Nylon scrape brushes |
| 9G3101 | 1-Calibrated ignition tester (HEI system) |
| 9G3102 | 1-Calibrated ignition tester (Standard system) |
| 9G0107 | 1-Spark plug boot pliers |

6/16.3/17.3/1.5'

2720g

2pc Torque adapter (spark plug special)

K3021



Content: 3/8"DR.

| | |
|---------------|-----------------------------|
| 832 318...324 | 2-Torque adapter 18Nm; 24Nm |
|---------------|-----------------------------|

24/12.0/13.0/0.8'

500g

3/8" DR. Preset torques wrench

647...P



| Part no. | Capacity | <i>l</i> | |
|----------|----------|----------|------|
| | Nm | mm | g |
| 647318P | 18 | 245 | 1500 |
| 647324P | 24 | 245 | 1500 |



56pc Spark plug rethread kit

956G1

NEW



- Completed set for repairing spark plug thread - M10, M12, and M14
- Contents: Screw-coil: 15PC M10-1.0 X 3/8
15PC M12-1.25 X 3/4
15PC M14-1.25 X 7/16
- Tap: M10-1.0, M12-1.25, M14-1.25
- Coil installation shank (length: 90mm): M10-1.0, M12-1.25, M14-1.25
- Coil shielding collar (internal thread): M10-1.0, M12-1.25, M14-1.25
- 1PC Main tool
- 1PC Hex key

 10/12.8/13.8/2.3'  1234.5g

Spark plug hole rethreader

63001 / 63002 / 63003



- Applying company with 13/16" standard deep socket.



| Part no. | Thread mm |  packing |  g |
|----------|--------------|---|---|
| 63001 | 14&18 | 100/15.0/16.0/1.5' | 150 |
| 63002 | 12&14 | 100/13.5/14.5/1.5' | 135 |
| 63003 | 10&12 | 100/10.0/11.0/1' | 100 |

14mm Spark plug hole rethreader

63004



- Use it to clean and restore the threads on 14mm spark plug hole prior to installation of spark plug.
- Features extra-long neck for access to recessed spark plug cavities.
- Apply it accompanied with 3/8" drive or 5/8" standard socket.

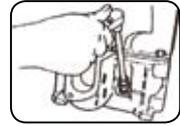
 250/14.5/15.5/1.25'  58g

■ **5pc Spark plug rethreader set**

64101

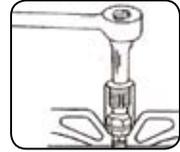


- Repairing stripped or damaged threads in aluminum cylinder heads.
- Solid steel inserts replace damaged threads.



Content:

1pc 14mm Spark plug rethreader
4pc inserts 3/8"; 7/16"; 1/2"; 3/4" long



72/10.4/11.4/0.9' 144g

■ **3/8" DR. Universal spark plug socket (ball type)**

8073...B



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|-----------|--------|----------------|-----|--------|
| 807316B | 16mm | 95 | 114 | 10 |
| 807320.6B | 20.6mm | 95 | 150 | 10 |

■ **3/8" DR. Universal magnetic spark plug socket (ball type)**

8073...BM



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|------------|--------|----------------|-----|--------|
| 807314BM | 14mm | 95 | 90 | 10 |
| 807316BM | 16mm | 95 | 118 | 10 |
| 807320.6BM | 20.6mm | 95 | 154 | 10 |

■ **3/8" DR. Universal spark plug socket (joint type)**

8073...U



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|-----------|--------|----------------|-----|--------|
| 807316U | 16mm | 95 | 114 | 10 |
| 807320.6U | 20.6mm | 95 | 150 | 10 |



■ 1/2" DR. Universal spark plug socket (joint type)

8074...U



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|-----------|--------|----------------|-----|--------|
| 807416U | 16mm | 95 | 102 | 10 |
| 807420.6U | 20.6mm | 95 | 164 | 10 |

■ 3/8" DR. Universal magnetic spark plug socket (joint type)

8073...UM



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|------------|--------|----------------|-----|--------|
| 807314UM | 14mm | 95 | 88 | 10 |
| 807316UM | 16mm | 95 | 114 | 10 |
| 807320.6UM | 20.6mm | 95 | 150 | 10 |

■ 1/2" DR. Universal magnetic spark plug socket (joint type)

8074...UM



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|------------|--------|----------------|-----|--------|
| 807416UM | 16mm | 100 | 102 | 10 |
| 807420.6UM | 20.6mm | 100 | 164 | 10 |

■ 3/8" DR. Universal spark T wrench(ball type)

8073...B



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|--------------|--------|----------------|-----|--------|
| 807330016B | 16mm | 300 | 354 | 40 |
| 807330020.6B | 20.6mm | 300 | 392 | 40 |
| 807350016B | 16mm | 500 | 552 | 40 |
| 807350020.6B | 20.6mm | 500 | 590 | 40 |

■ **3/8" DR. Universal magnetic spark T wrench (ball type)**

8073...BM



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|---------------|--------|----------------|-----|--------|
| 807330016BM | 16mm | 300 | 354 | 40 |
| 807330020.6BM | 20.6mm | 300 | 392 | 40 |
| 807350016BM | 16mm | 500 | 554 | 40 |
| 807350020.6BM | 20.6mm | 500 | 592 | 40 |

■ **3/8" DR. Universal spark T wrench (joint type)**

8073...U



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|--------------|--------|----------------|-----|--------|
| 807330016U | 16mm | 300 | 354 | 40 |
| 807330020.6U | 20.6mm | 300 | 392 | 40 |
| 807350016U | 16mm | 500 | 552 | 40 |
| 807350020.6U | 20.6mm | 500 | 590 | 40 |
| 807380016U | 16mm | 800 | 850 | 15 |
| 807380020.6U | 20.6mm | 800 | 888 | 15 |

■ **1/2" DR. Universal spark T wrench (joint type)**

8074...U



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|--------------|--------|----------------|------|--------|
| 807430016U | 16mm | 300 | 646 | 30 |
| 807430020.6U | 20.6mm | 300 | 684 | 30 |
| 807450016U | 16mm | 500 | 936 | 30 |
| 807450020.6U | 20.6mm | 500 | 974 | 30 |
| 807480016U | 16mm | 800 | 1150 | 15 |
| 807480020.6U | 20.6mm | 800 | 1188 | 15 |

■ **3/8" DR. Universal magnetic spark T wrench (joint type)**

8073...UM



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|---------------|--------|----------------|-----|--------|
| 807330016UM | 16mm | 300 | 356 | 40 |
| 807330020.6UM | 20.6mm | 300 | 394 | 40 |
| 807350016UM | 16mm | 500 | 554 | 40 |
| 807350020.6UM | 20.6mm | 500 | 592 | 40 |
| 807380016UM | 16mm | 800 | 852 | 15 |
| 807380020.6UM | 20.6mm | 800 | 890 | 15 |



■ 1/2" DR. Universal magnetic spark T wrench (joint type)

8074...UM



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|---------------|--------|----------------|-----|--------|
| 807430016UM | 16mm | 300 | 356 | 30 |
| 807430020.6UM | 20.6mm | 300 | 394 | 30 |
| 807450016UM | 16mm | 500 | 554 | 20 |
| 807450020.6UM | 20.6mm | 500 | 592 | 20 |
| 807480016UM | 16mm | 800 | 852 | 15 |
| 807480020.6UM | 20.6mm | 800 | 890 | 15 |

■ 3/8" DR. Magnetic long spark plug socket

8073250...M



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|--------------|--------|----------------|-----|--------|
| 807325014M | 14mm | 250 | 316 | 10 |
| 807325016M | 16mm | 250 | 344 | 10 |
| 807325020.6M | 20.6mm | 250 | 440 | 10 |

■ 3/8"DR. Spark plug socket

8073



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|----------|--------|----------------|-----|--------|
| 807314 | 14mm | 65 | 65 | 10 |
| 807316 | 16mm | 63 | 96 | 10 |
| 807318 | 18mm | 63 | 125 | 10 |
| 807320.6 | 20.6mm | 63 | 150 | 10 |

■ 1/2" DR. Spark plug socket

8074



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|----------|--------|----------------|-----|--------|
| 807414 | 14mm | 65 | 65 | 10 |
| 807416 | 16mm | 65 | 92 | 10 |
| 807418 | 18mm | 65 | 133 | 10 |
| 807420.6 | 20.6mm | 65 | 156 | 10 |

3/8" DR. Magnetic spark plug socket

8073...M



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|-----------|--------|----------------|-----|--------|
| 807314M | 14mm | 70 | 74 | 10 |
| 807316M | 16mm | 70 | 80 | 10 |
| 807318M | 18mm | 70 | 122 | 10 |
| 807320.6M | 20.6mm | 70 | 151 | 10 |

1/2" DR. Magnetic spark plug socket

8074...M



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|-----------|--------|----------------|-----|--------|
| 807414M | 14mm | 70 | 72 | 10 |
| 807416M | 16mm | 70 | 86 | 10 |
| 807418M | 18mm | 70 | 146 | 10 |
| 807420.6M | 20.6mm | 70 | 148 | 10 |

Spark plug gauge

63008



- This popular solid steel spark plug gauge is designed with a tapered edge for gauging spark plugs and with a flanged hole to adjust the side wire of plugs without pressuring center electrode. Marked in standard and metric sizes.
- Size range: 0.020" to 0.100" (0.5mm to 2.53mm)



288/5.5/6.5/0.5'

26g

Spark plug terminal pliers

9G0101



- Safely remove spark plug cables and prevent cable damage.
- Handles and jaws of the pliers are coated with a heavy-duty plastic for a sure grip.



96/28.8/29.8/2.2'

300g



■ Spark plug socket remover

9G0206 / 9G0207



- Designed to separate the electric wire from spark plug.



| Part no. | <i>l</i> mm |  packing |  g |
|----------|----------------|---|--|
| 9G0206 | 352 | 24/5/6/1.9' | 210 |
| 9G0207 | 225 | 36/4.9/5.9/1' | 135 |

■ 4pc VW, AUDI Ignition coils puller set

904T5



- Use for VW BORA, GOLF, NEW BEETLE, PASSAT, POLO, TOURAN 1.4/1.6L, LUPO 4-ZYL. FSI, PHAETON AND T4, BBY. BKY1.4.
- Use for VW BORA, GOLF, PASSAT, SHARAN, TOUAREG, R32, PHAETON AND T5, V5 2.3, V6 3.2.
- Use for VW 8- and 12 cylinder engines e.g. PHAETON, B5 1.8T, GTI. FSI 2.0.
- This tool can use for most of VW-AUDI injection engines.



 10/9.5/10.5/1.1'

 950g

■ Calibrated ignition tester

9G3101 / 9G3102



- **9G3101** is for HEI system
- **9G3102** is for standard system



 100/6/7/2'

 60g

■ In-line spark plug tester

88409



- Handy pocket screwdriver type.
- Checks dead spark plugs in automotive.
- CE approved.



 100/9.0/10.0/1.8'  65g

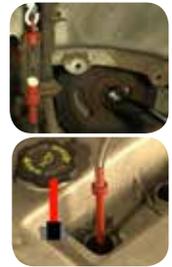
■ Top dead center (TDC) indicator set

912G9

NEW



- Application: Diesel and Petrol Engines for car and Vans.
- A pneumatic indicator for finding top dead center (TDC) position on Petrol and Diesel engines.
- The TDC Indicator is located into the spark plug/glow plug hole, and as the engine is rotated, clearly shows when the piston has achieved TDC by visible movement of the indicator float.
- Adaptors for 8mm to 18mm spark plug and glow plug holes.
- Magnetic Attachment for hand free use.



 40/7.7/8.7/1.2'  195g

■ 13pc Diesel and petrol engine timing kit

913G3



- For use on Audi, Citroen, Peugeot, Volkswagen and Volvo diesel and petrol engined cars and light commercial vehicles.
- After use, remove all setting pins & locking plates. Turn the engine over twice by hand to complete a full cycle. Regain T.D.C. (top dead center) & insert setting tools to re-check the alignment is correct. Remove setting tools and check there is no obstruction by turning the engine over twice by hand again to complete a full cycle.

 20/22.1/23.5/1.4'  1.1Kg



■ 5pc Timing locking tool kit

905G3



- The kit supplied with adequate tools to lock the camshafts on twin-cam (multi-valve) engines in order to stop them rotating out of timed position when the timing belt is replaced and removed.
- For V6 engine



 10/24.5/25.5/1.4'  2.45Kg

■ 8pc Timing locking tool kit

908G4



- The kit supplied with adequate tools to lock the camshafts on twin cam (multi-valve) engines in order to stop them rotating out of timed position when the timing belt is replaced and removed.
- Application for:
auxhall, Opel, SAAB, Rover, Volkswagen, Citroen, Fiat, Ford, Peugeot and Isuzu etc...

 10/10.1/11.1/1.1'  1Kg

■ 14pc Timing locking tool kit

914G2



- The kit supplied with adequate tools to lock the camshafts on twin cam (multi-valve) engines in order to stop them rotating out of timed position when the timing belt is replaced and removed.
- Application for:
Vauxhall, Opel, SAAB, Rover, Volkswagen, Citroen, Fiat, Ford, Peugeot and Isuzu etc...

 10/16.0/17.0/0.8'  1.6Kg

16pc Timing tool kit

916G1



- The kit supplied with adequate tools to lock the camshafts on twin cam (multi-valve) engines in order to stop them rotating out of timed position when the timing belt is replaced and removed.
- Application for:
Vauxhall, Opel, SAAB, Rover, Volkswagen, Citroen, Fiat, Ford, Peugeot and Isuzu etc...

 5/13.4/14.4/1.4'  2.7Kg

19pc Petrol engine twin cam locking / setting tool and flywheel holding tool kit

919G1



Content:

- 10-Camshaft locking tool
- 4-Locking pins
- 1-Setting and locking plate
- 1-Balancer pin
- 2-TDC location pin and flywheel holding tool

Suitable for a range of vehicles including:

Ford, Honda, Land Rover, Rover, VW, Renault, Citroen, Peugeot, Fiat and Vauxhall / Opel.

 10/15.0/16.0/1.6'  1.5Kg

Camshaft locking tool

9G1201



ECOTEC suitable for 16V 1.8/2.0 liter engines.



 36/3.24/4.24/2.6'  90g

Camshaft locking tool

9G1202



ECOTEC suitable for 16V 1.4/1.6L engines



 72/9.36/10.36/1.5'  130g



Camshaft locking tool

9G1203



- For use on SAAB & VAUXHALL OPEL
- VAUXHALL CAVALIER 2.5I, CALIBRA 2.5I
- VECTRA 2.50, MEGA 2.5/3LIT, SINTRA 3LIT
- SAAB 900 2.5, 9000 3.0 V6



 36/2.52/3.52/2.8'  70g

Camshaft locking tool

9G1204



- For use on SAAB & OPEL
- VAUXHALL CAVALIER 2.5I, CALIBRA 2.5I
- VECTRA 2.5/3, OLIT, SINTRA 3LIT
- SAAB 900 2.5, 9000 3.0 V6

 48/3.36/4.36/4.36/1'  70g

Camshaft locking tool

9G1205



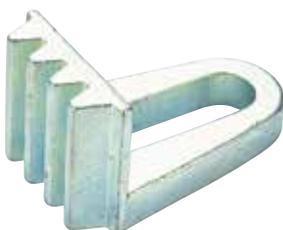
- For rover K16 DOHC engines. Locks camshaft during servicing etc.
- Before use refer to the vehicle manufacturers workshop manual.



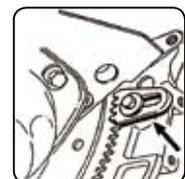
 60/3.75/4.75/3.3'  63g

Flywheel holding tool

9G0605



For use on CITROEN, FIAT LDV & PEUGEOT.



 120/9.0/10.0/1.5'  750g

■ Universal twin/4 cam lock (gas and diesel engines)

9G2401



- It's designed to lock twin camshafts to timing marks during timing belt replacement. Fit onto sprockets and extend to lock in to sprocket teeth adjustable arms.
- To fit various diameters and tooth pitch. Also suitable for locking between cam and diesel injection. pump sprockets.
- One man operation.



 32/11.8/12.8/4.2'  370g

■ Cam pulley lock tool

905G11



- Used on a fixed cam pulley, making replacement gears will not be so arbitrary rotation.
- Simple and fast assembly for labor-saving.
- Can use on majority part of type of cars.
- Adjust a variety of sizes to cope with different types of vehicles.



 24/23.0/24.0/1.4'  970g

■ Universal camshaft alignment tool

902G1



- Using sockets to lock onto camshaft central screw.
- Adjustable to fit most kinds of vehicle.
- Special design to align camshaft and for removing or installing the guide rail pin.



 48/16.3/17.3/1.1'  340g

■ Engine timing tools set for Vauxhall/Opel diesel 1.9 CDTI

905G16



- Suitable for timing belt replacement on Vauxhall/ Opel and Saab vehicles fitted with 1.9CDTi/TiD engines.
- Kit contains camshaft alignment screws, crankshaft pulley alignment tool and tensioner pin.



 20/13.4/14.0/0.9'  670g



Engine timing Tool set for Vauxhall/Opel

920G2



- Changing the timing belt Suitable for identical engines in e.g: Saab, Renault, etc.
- Locking the camshaft and crankshaft.
- Diesel engine 1.3CDTi 16V , 1.9CDTi , 2.0DTi , 2.2DTi
- Application for Agila, Combo-C, Corsa, Frontera , Omega, Sintra , Tigr Petrol engine 1.0 12V / 1.2 16V(since 97) 1.4 / 1.6 / 1.8 / 2.0 / 2.2 16V (since 95) Application for Agila , Astra , Corsa , Frontera , Omega , Sintra , Speedster, Tigr , Vectra , Zaira

 5/19.0/21.5/1.7'  3800g

Engine timing tool set for Vauxhall/Opel

907G17

NEW



- For checking and adjustment of engine timing.
- Applications:Adam, Ampera, Astra-J, Aveo, Corsa-D, Insignia, Meriva-B, Mokka, Zafira-C Tourer (1.0, 1.2 and 1.4 petrol engines).



 5/10.5/11.5/0.8'  2100g

Engine timing tool set for Vauxhall/Opel

907G18

NEW



- For checking and adjustment of engine timing.
- Application:Adam, Agila - B, Astra - J, Cascada, Combo, Corsa - D, Meriva - B, Mokka, Zafira Tourer (1.0, 1.2 and 1.4 petrol engines).



 5/7.9/8.9/0.8'  1580g

Valve camshaft setting tool (GM / OPEL / VAUXHALL up to 1987)

904G2



For camshaft alignment without adjusting top dead center position on 1.6 & 1.7 cc OHC diesel engines



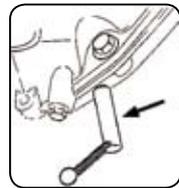
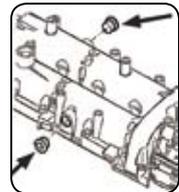
 24/22.7/23.7/0.8'  945g

Timing tool kit (for GM 1.3 CDTI diesel engine)

904G5



- This set use for GM 1.3 CDTI diesel engine.
- The kit include flywheel locking pin, camshaft setting tools, tension locking pin.



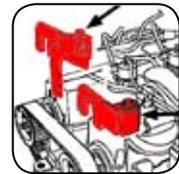
 48/22.0/23.0/2.7'  280g

Diesel engine locking tool set for Opel / Renault / Nissan

911G5



- Prevent the belt tensioner of engine camshaft from turning when changing a timing belt or during other engine repairs.
- Applicable:
Renault: Clic, Megane, Scenic, Kangoo, Trafic, Master (99-04).
Nissan: Micra, Kubistar, Primastar.
Opel: Vivaro, Movano engine: 1.5, 1.9, 2.2, 2.5 DCI. (K9K G9U).



 10/20.4/21.0/1.4'  2040g



Engine timing tool set - Renault

917G1



- This comprehensive timing tool set can correct engine timing when replacing the timing belt.
- Applicable : Renault

 5/26.1/27.1/3.5'  5.2Kg

Engine timing tool set for Renault

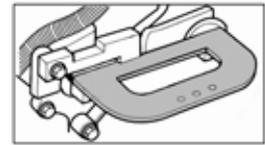
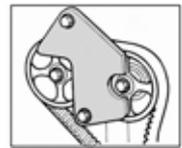
905G20

NEW



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

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



 10/22.7/23.7/2.6'  2270Kg

Diesel engine timing tool set for RENAULT, NISSAN, OPEL

908G12



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



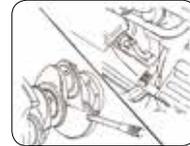
 10/22.0/23.0/1.6'  2200g

■ Timing locking tools - Renault

902G5



- Can be used for RENAULT LAGUNA 2.0 IDE (2001-2005) F5R engine.



 30/16.0/17.0/1.6'  530g

■ Renault timing kit (DCI engines)

903G5



- LAGUNA, KANGOO and CLIO-DIESEL
- Crankshaft timing PIN-MOT 1489 1.5 DCI
- Camshaft timing PIN-MOT 1430 1.5 DCI
- Crankshaft timing PIN-MOT 1054 1.9 DCI

 10/24.5/25.5/1.4'  2.45Kg

■ Engine timing tool set for RENAULT 1.8 / 2.0 16V

907G15



NEW

- Specially designed to lock the camshaft sprockets on Renault 1.8/2.0 16v petrol engines.
- Required for releasing the camshaft sprocket bolts when timing engines, after belt replacement.
- Applicable: RENAULT 1.8 16V-



F4P 770/722/770/771/772/773/774/775

RENAULT 2.0 16V -

F4R 700/701/712/713/714/715/720/730/732/736/738/740/741/744/746/747/760/761/762/763/764/765/766/767/770/771/774/776/784/786/787/790/792/794/795/797/830

 15/15.0/16.0/0.86'  1000g

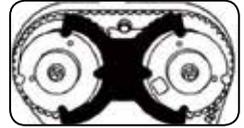


■ Timing locking tools for FORD

905G8



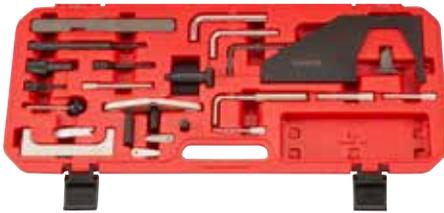
- This set is essential for replacing the cam belt on FORD FOCUS/CMAX 1.6 TI-VCT with engine code HXDA (2003-2007) and 2.0 TDCI with engine codes G6DA, G6DB & G6DC 2003-2007.
- Also required flywheel locking tool and adaptors.



 10/8.4/9.4/0.8'  830g

■ Engine timing tool set - Ford, Mazda

922G2



- This comprehensive timing tool set can correct engine timing when replacing the timing belt.
- Applicable : Ford, Mazda



 5/16.5/17.5/2'  3.3Kg

■ Engine timing tool set for FORD

911G6

NEW



- This tool set comes with retention tools and injection pump removal / installation tools for Ford 2.0 and 2.4 Duratorqu diesel engines.
- Application: Ford Mondeo 2.0 / 2.2 TDDi / TDCi (01 - 07) ;
Ford Transit 2.0 / 2.2 / 2.4 TDDi / TDCi (00 - 08) ;
Jaguar X-Type 2.0 / 2.2 D (03 - 08) ;
LDV Convoy 2.4 TD / Tdi (02 - 06)



- Engine Codes: ABFA, D5BA, D6BA, F3FA, FIFA, FMBA, FMBB, D2FA, D3FA, D4FA, D0FA, F4FA, FXFA, H9FA, HJBA, HJBB, HJBC, HJBE, N7BA, N7BB, QJBA, QJBB, QJBC, SDBA

 10/16.0/17.0/1.2'  1864g

■ Engine timing tool set for FORD

916G5

NEW



- Combination kit of setting and locking tools suitable for a wide range of Ford petrol & diesel engines.
- Also suitable for these engines fitted in Land Rover, Mazda, PSA, Suzuki and Volvo vehicles.
- Kit consists of camshaft, crankshaft/flywheel and tensioner locking tools, plus camshaft sprocket remover.
- Application: Petrol: fiesta 1.25/1.4/1.6 (95-08), focus 1.4/1.6/1.8/2.0 (98-08) 1.6 VCT-Ti (04-09), C-Max 1.8/2.0 (02-08) 1.6 VCT-Ti (04-09), fusion 1.25/1.4/1.6 (02-08), Mondeo 1.8/2.0 (98-08), Puma 1.7 (97-02), Tourneo Connect 1.8 (02-06), Transit Connect 1.8 (02-06)
 Diesel: Courier 1.4/1.6/1.8 (00-02), fiesta 1.4/1.6/1.8 (02-09), focus 1.6/1.8/2.0 (98-00), C-Max 1.6/2.0 (03-08), fusion 1.4 (02-08), galaxy 2.0 (06-08), Mondeo 2.0 (07-08), S-Max 2.0 (06-08), Tourneo Connect 1.8 (02-08), Transit Connect 1.8 (02-08)

5/12.3/13.5/1.28 2460g

■ FORD Flywheel locking tool

903G11



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



36/14.5/15.5/2.1' 410g

■ Camshaft setting bar & TDC timing pins (Ford / Mazda)

9G1211



- Camshaft setting and locking plate.
- Updated set now covers ZETEC engines found in FOCUS, MONDEO and COUGAR from 98 on. Also covers FORD 1.6, 1.8 and twin cam 16V petrol engines.
- Crankshaft TDC location for FORD 1.25 and 1.4 engines plus the puma 1.7 engine.
- TDC pin also suitable for MAZDA 121 1.25LTR petrol engines.
- Supplied with warning tags.



100/25.8/26.8/1.7' 260g



■ FORD Timing tool set

904G6



Applicable : Fiesta / Puma, Fiesta / XR2i, Fiesta / Fusion, RS1800, Mondeo, Cougar, Escort / Orion, Focus, 121, Focus / Cmax Ti-VCT, Focus

48/14.0/15.0/0.8' 270g



■ BMW (M52, M54, M56) Timing tool kit

905G1



- BENZ double vanes setup bracket.
- Application: BMW M52, M54, and M56.

5/10.9/11.9/1.35' 2.18kg



■ BMW Double vanes setup bracket M50-TU

9G2701



- Application : BMW M52 、 M54 、 M56

10/9.8/10.8/1.1' 980g



■ Timing tool kit (BMW MINI)

907G6



- This tool kit can use for BMW MINI 2001~2006, MINI COOPER S 2002~2006 and MINI COOPER 2001~2006.

- Contents:

- 1pc - Camshaft sprocket holding tool
- 1set - Engines support bracket
- 1pc - Tensioner assembly tool

5/9.9/10.9/1' 2kg



■ BMW Camshaft alignment tool kit

908G3



- BMW engine models M42 & M50: Includes 2 block swivel lock plate & locking pin for setting camshaft timing.
- Engine models M40 & M70: Include plate & locking pin for setting camshaft timing.
- BMW engine models M60 & M62: Includes 2 block swivel lock plate & locking pin for setting camshaft timing.

 2/14.7/16.0/1.25'  7.35kg

■ BMW Camshaft alignment tool

9G1212



- Includes: plate & locking pin, for setting camshaft timing.
- Applicable: BMW engine models M40 & M70.



 10/11.6/12.6/0.4'  1160g

■ BMW (M42, M50) Camshaft alignment tool

9G1213



- Includes: 2 blocks swivel lock plate & locking pin for setting camshaft timing.
- Application: BMW engine model M42 & M50



 4/9.8/11.0/1.2'  2.45Kg

■ BMW (M60, M62) Camshaft alignment tool

9G1214



- Includes: 2 blocks swivel lock plate & locking pin for setting camshaft timing.
- Application: BMW engine model M60 & M62



 4/16.8/18.0/1.2'  4.2Kg



■ BMW Sprocket extractor / installer

9G1207



- For BMW M50 M52 S50 S52 M42 M44
- For turing sprockets when removing and installing vanos unit.



 60/16.8/17.8/2.5'  280g

■ Engine timing tool set for BMW M41, M51, M47, M57

913G6



- Installation and removal of the camshaft / hydraulic chain tensioner.
- Checking and adjustment of camshaft timing.
- Easily accessible operating instructions including cross references to original part numbers.
- Spare parts optionally available.
- Clear arrangement of tools in high-quality plastic case.
- Application: BMW M41, M51, M47, M57.

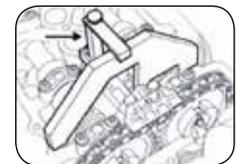
 5/19.0/20.0/1.4'  3800g

■ Engine timing tool set for BMW M47

905G17



- Special design for correcting timing to the marking when servicing BMW M47 2.0 16V Engines.
- Applicable: BMW M47 Engines.



 12/15.4/16.0/1.3'  1283g

■ Diesel engine timing tool set for BMW N47/N47S

904G11



- Installing and removal of camshaft & variable camshaft timing unit.
- Applications: BMW N47/N47S 2.0 twin camshaft diesel chain drive engines.
- BMW N47 / N47S 2.0d Diesel Engine in:
 - 1Series: 118d(E81/E87)
 - 120d(E81/E82/E87)
 - 123d(E81/E82/E87)
 - 3Series: 318d (E90/E91)
 - 320d(E90/E91/E92)
 - 5Series: 520d(E60/E61)
 - X3 2.0d: (E83)



 10/9.5/10.5/0.8'  950g

■ Engine timing tool set for BMW N42, N46, N46T

908G9



- Installing and removal of camshaft/variable camshaft timing unit.
- Checking and adjustment of timing.
- Applicable: E87:118i/120i-N46
 - E46:316i/316ti/318i-N42
 - E90/E91:318i/320i-N46
 - E85:Z4,2.0L-N46



 10/23.8/24.8/1.5'  2400g

■ Engine timing tool set for BMW N42/N46

918G3



- Suitable for the following applications: Camshaft installation and removal as well as removal and installation of the inlet camshaft and carrier assembly / Valvetronic System.
- Easily accessible operating instructions including cross references to original part numbers
- Spare parts optionally available
- Clear arrangement of tools in high-quality plastic case with soft foam insert
- Applicable: E87: 118i / 120i ; N46 engine
 - E46: 316i / 316ti / 318i / 318ti ; N42 engine
 - E90 / E91: 318i / 320i ; N46 engine
 - E85: Z4 , 2.0L ; N46 engine



 5/19.0/20.0/0.8'  3700g



Engine timing tool set for BMW N40/N45/N45T

906G5



- Applications: BMW N40 and N45(T) Twin Camshaft Petrol engine in BMW.
1 series 116. E81/E87.
3 series 316i E46/E90.
316Ci E46.
316ti. E46.



- Contents: VANOS Alignment Plate.
Camshaft Setting Plate (Inlet).
Camshaft Setting Plate (Exhaust).
Timing Chain Tensioner Pre-Load Tool.
Flywheel Locking Pin.
Camshaft Setting Plate Securing Screw.

 10/20.0/21.0/1.3'  2000g

Engine timing tool set for BMW N51/N52/N53/N54

912G5



- Special design to locate camshaft in TDC position.
- Applicable: BMW N51/N52/N53/N54 engines
- Applicable models:
135iS.E82(07-08), 323i.E90/91/92/93(04-08),
325i/xi.E90/91/92/93 (04-08), 330i/xi.E90/91/92/93(04-08),
335i/xi.E90/91/92/93(04-08),
523i/Li.E60/61(04-08),X3 2.5/3.0.E83(06-08),
525i/Li/xi.E60/61(06-08), 528i/Li/xi.E60/61(06-08),
530i/Li/xi.E60/61(05-08), 535i/xi.E63/64(04-08),
630i. E60/61(04-08), 730i/Li.E65/66(04-08),X5 3.0.E70(06-08),
Z4 2.5/3.0.E85/86(05-08).E90/91/92/93(04-08)



 4/24.0/25.0/2.0'  6000g

Engine timing tool set for BMW N62 / N73

905G19

NEW



- Suitable for setting and adjusting the timing on BMW 3.6, 4.0, 4.4, 4.8 N62/N62TU V8 and 6.0 N73 V12 engines.
- Kit includes camshaft setting plates, flywheel locking pin and chain pre-tensioning tool.
- Application: 540i E60/61 (05-10), 545i E60/61 (03-06), 550i E60/61 (05-10), 645i E63/64 (03-06), 650i E63/64 (05-11), 735i E65/66 (02-05), 740i E65/66 (05-08), 745i E65/66 (02-05), 750i E65/66 (05-08), 760i E65/66 (02-08), X5 4.4 E53 (03-07), X5 4.8 E53/E70 (04-10)



 5/7.5/8.5/1.3'  1500g

■ Engine timing tool set for BMW, Mini, Citroen, Peugeot

905G12



- Required for removal/installation of the timing chain assembly.
- Relevant setting/locking tools for particular vehicles/engines will also be required.
- Set contains balance shaft alignment, crankshaft holding and chain tensioner tools.
- Applications: BMW N40/N45/N45T B16, N42/N46 B18, B18A, B20, B20A, B20B, N51/N52/N52K/N53/N54 Valvetronic, N53/N54 Direct Injection Non-Valvetronic, BMW Mini; N12/N14, Citroen/Peugeot; EPS(8FS)/EPS.



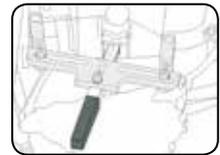
 12/11.4/12.0/1.3'  950g

■ Fly wheel holder tool for BMW

905G15



- When replacing timing chain, this tool can block fly wheel.
- It helps to release and tighten down central bolts on vibration damper.
- Application: BMW (M47T2/M47TU/M57T2/M57TU/M67/N45/N45T/N46/N46T/N51/N52/N53/N54/W17)



 20/18.0/19.0/1.2'  900g

■ Engine timing tool set for BENZ M271

904G18

NEW



- This retaining device makes it possible to position the camshafts into the installation position.
- Includes a Retainer to draw in the timing chain and to retain timing chain with camshaft sprockets in mesh.
- Applicable: CLK 200K (W209), C 180K, C200K, C 230K (W203), C Sportcoupe C 160K, C 180K, C 200K, C 230K, E 200K (W211), SLK 200K (R171), C 180K (W204), CLC 180K, CLC 200K, C 180 CGI, C 200CGI, C 250CGI (W204), E 200CGI, E 250CGI (W212, C207)
- Engine Codes: E18ML (02-), DE18ML (03-05), E16ML (08-), DE18LA (09-)

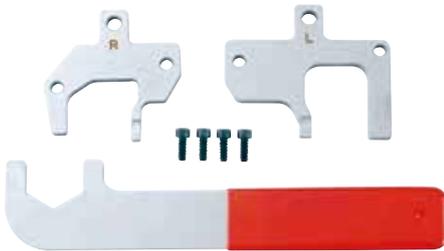


 6/17.1/18.1/2.6'  2850g



■ BENZ Camshaft alignment tool

907G4



- Holds the camshaft in 40 degree TDC position (left/right side).

For use on:

| | |
|-----------------------------------|----------|
| C-CLASS (202) 2.4/2.6/2.8/3.2/4.3 | -1998-00 |
| CLK (208) 3.2/4.3/5.4 | -1997-03 |
| E-CLASS (210) 2.4/3.2/4.3/5.5 | -1997-03 |
| S-CLASS (220) 2.8/3.2/4.3/5.0 | -1998-03 |
| SL-CLASS (129) 2.8/3.2/5.0 | -1998-02 |
| SLK (170) 3.2 | -2000-03 |
| M-CLASS (163) 3.2/4.3/5.4 | -1998-03 |
| G-WAGEN (463) 3.2 | -1993-01 |

Right



Left



10/9.7/10.7/0.4'

970g

■ Engine timing tool set for BENZ

9G1218

NEW



- The use of the mounting device allows a single mechanic to replace a timing chain quickly and without any trouble.
- Application:for the 4-cylinder Mercedes petrol engine M111 - C 180/200/220/230; E 200/230;CLK 200/230;SLK 200/230;ML 230

24/11.5/12.5/2.8'

480g

■ Engine timing tool set for BENZ

906G7

NEW



- A timing tool set which covers a large number of models in the Mercedes range including Petrol and Diesel engines.
- Set includes Flywheel Plate Locking Tools and Camshaft Locking Pin Set.
- Application:Benz engine model 102, 103, 104, 111, 112, 113, 119, 137, 155, 156, 272/979, 273, 601, 602, 603, 604, 605, 606, 611, 612, 613, 628, 629, 640, 642.
- Also suitable for Chrysler PT Cruiser 2.2 CRD and Jeep Grand Cherokee 2.7CRD.



20/22.5/23.5/1.6'

1125g

■ BENZ flywheel locking tool

9G1215



- Use for BENZ M101, M102, M103, M104, M111, M601, M602.
- Used to fix the flywheel gear to remove & install crankshaft pulley center bolt.



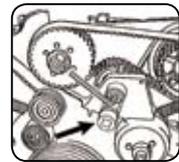
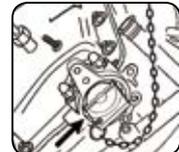
 60/13.3/14.3/0.83'  200g

■ Engine timing tool set for VW, Audi

908G5



- A dedicated set of setting / locking, support and tensioner adjusting tools for VAG V6 TDI petrol engine.
- Applicable: VW 2.5 V6 diesel engines and AUDI A4, A6, A8, A11 road(97~08)



 12/12.5/13.5/1.3'  1030g

■ Engine timing tool set - VW, Audi, Seat and Skoda

928G1



- This comprehensive timing tool set can correct engine timing when replacing the timing belt.
- Applicable : VW, Audi, Seat and Skoda

 5/21.5/22.5/1.9'  4.3Kg



■ Timing setting tool set - VW, Audi, Seat and Skoda

929G1



- Use for AUDI, SEAT, SKODA, VW.
- AUDI: A2(01-06), A3(01-07), A4(99-07), A6(98-07)
- SEAT: AROSA(99-05), IBIZA/CORDOBA(02-07), ALTEA(04-07), LEON(00-07), TOLEDO(04-07), ALHAMBRA(99-07)
- SKODA: FABIA(00-07), ROOMSTER(07), OCTAVIA(00-07), SUPERB(02-07)
- V W : LUPO(99-05), POLO(99-07), FOX(05-07), GOLF/BORA(98-07), JETTA(05-07), BEETLE(00-07), PASSAT(98-07), TOURAN(03-07), SHARAN(99-07), CADDY(03-07), TRANSPORTER(03-07)

 5/21.5/22.5/2'

 4230g

■ Engine timing tool set for AUDI

910G5



- Special designed set of tools for alignment camshaft lock and adjusting.
- Applications: VAG A4/A6/A8 3.2 FSI with engine AUK , A6/Quattro 2.4 with engine BDW.



 5/14.0/15.0/1.2'

 2800g

■ Engine timing tool set for VW / AUDI

913G7

NEW



- A complete set for alignment, adjustment the camshaft, replacement the timing chain and etc...
- To improve your working speed with this complete set.
- Applicable: AUDI Q5 2.0, A6L 2.8, 3.0T



 6/20.0/21.0/2.6'

 3330g

Camshaft clamp for VW / AUDI

902G18

NEW



- Special designed to align camshafts when adjusting timing.
- Applicable: AUDI A6 2005~, Q5 2.0T, A6L 3.0T
- Engine model: 6-cyl. Petrol direct injection 2.8L 4V engine

 20/17.5/18.5/0.26'  875g

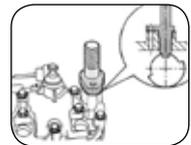
Engine timing tool set for VW

904G15

NEW



- Installing and removal of camshaft / variable camshaft timing unit;
- Checking and adjustment of timing;
- Application: VW: Polo (02-07), Fox (05-08)
Seat: Ibiza (02-08), Cordoba (02-08).
Skoda: Fabia (02-07).
- Engine Codes: VW: AWY, BMD, AZQ, BME
Seat: AWY, BMD
Skoda: AWY, BMD, AZQ, BME



 24/17.0/18.0/1.5'  708g

Engine timing tool set for VW / AUDI

907G13

NEW



- Kit includes camshaft tools, chain tensioner retainer, locking pins and tensioner bolt.
- For 2.0 FSI petrol engines since 2003.
- Application: AUDI: A3 2.0 FSI and FSI SOHC
VW: GOLF 2.0 FSI and 2.0 FSI SOHC and Touran 2.0 FSI SOHC
- Engine Codes: AUDI: AWA, BHD, BMB
VW: AWA, AXW

 20/22.0/23.0/1.7'  1100g

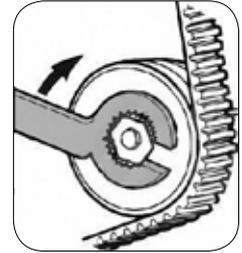


Engine timing tool set for VW

906G6

NEW

- Special designed set of tools for camshaft locking, and adjusting.
- Applicable:VW-Transporter, LT, Crafter 2.4D, 2.5SDI, 2.5TDI, 2.5TDI Common Rail



 10/15.0/16.0/1.31'  1500g

Engine timing tool set for VW / AUDI

904G16

NEW

- For checking and adjusting camshaft timing when replacing timing belts or timing chains, or during repairs.
- Includes TDC adjusting tool, Locking bolt, and Setting gauge for camshaft
- Applicable:VW-AUDI 1.4L and 1.6L FSI petrol engines:



Audi - A3 (03-10)

Skoda – Ocatvia (04-09), Fabia (07-09), Roomster (06-09), Superb (09-10)

VW – Polo (02-08), Golf (03-09), Golf Plus (05-09), Jetta (06-09), Passat (05-09), Touran (03-09).

 10/12.0/13.0/1.2'  1200g

Engine timing tool set for VW / AUDI

914G5

NEW

- Comprehensive kit required for service work on timing chain, cylinder head and HP pump, and engine timing applications on VAG 2.7 - 3.0 TDi V6 and 4.0 - 4.2 TDi V8 common rail diesel engines.
- Applications:Audi - A4, A5, A6, A6 Allroad, A8, Q5, Q7, VW - Phaeton, Touareg



 10/20.0/21.0/1.6'  2000g

■ Engine timing tool set for VW

908G13

NEW



- For removing and installing camshaft drive gear and eliminating play in gear train - for locking of both camshafts and crankshaft.
- Applicable: VW T5 Touareg and Transporter 2.5 TDI PD and 4.9D / TDI models.
- Engine codes: BAC, BLK, BPD, AXD, AXE, BLJ, BPC, and AYH



2/15.5/16.5/0.8'



7750g

■ 3-in-1 Bosch timing tool for VW

904G17

NEW



- Suitable for timing Bosch VE injection pumps.
- Includes M8, M10, and M12 adapters.
- Use in conjunction with Dial gauge
- Applicable: Bosch VE fuel pump, Diesel Kiki, and Nippondenso pumps.



72/8.0/9.0/1.2'



111g

■ Camshaft central valve tool for VW / AUDI

902G13

NEW



- Assembly Tool for installation and removal 4/3-way central valve for camshaft adjustment.
- These tools have offset pins.
- Applicable: Audi A3 (2003up).A4.A5.Q5 , VW Passat (2006 up).Passat CC (2006 up)



50/13.0/14.0/1.2'



250g



Camshaft adjusting socket for AUDI

9G1210



NEW

- Special groove nut socket to turn the camshaft adjuster into position.
- Camshaft adjusting socket used to adjust variable valve timing on the exhaust side camshaft to basic position.
- Applicable: Audi A4 , A6 (3.0L V6 5V)



100/9.1/10.1/2'



91g

Camshaft alignment tool

9G1216



- This tool is used for holding both camshafts at the TDC position when replacing the timing belt.
- Used AUDI & VW models with V8 motors with 5 valves per cylinder (except S4)



10/21.0/22.0/0.46'



2050g

Camshaft alignment tool

903G14



- This tool is used to hold both camshafts at the TDC position while replacing the timing belt.
- Used AUDI models with V6 engine, 2 valves per cylinder.



10/23.2/24.2/1.9'



2220g

Camshaft alignment plate for VW, AUDI

9G1209



- Specially designed to align the camshafts to proper position when adjusting and assembling.
- Applicable: VW-PASSAT, VR-6



| Part no. | Material | packing | g |
|----------|----------|-----------------|----|
| 9G1209 | PVC | 60/5.0/6.0/0.6' | 50 |

Camshaft alignment tool

902G6



- For Audi 3.0L, VG SV used in 2002 ~ 2005
- For Audi A4 and 2002 ~ 2004 Audi A6



 5/12.5/13.5/0.5'

 2.1kg

Camshaft locking tool for VW

9G1206



- For locking the camshaft pulleys when changing the toothed belt.
- Engine repairs on 4-valve, 4-cylinder injection engines VW LUPO since 1999, POLO since 1995, CADDY since 1996, POLO CLASSIC, VARIANT since 1996, NEW BEETLE 1.4L since 1999 GOLF 1.4L, 1.6L since 1998, BORA 1.4L, 1.6L since 1999.



 60/22.5/23.5/1'

 375g

Camshaft locking tool

903G10



- VW: POLO/CLASSIC, GOLF / BORA, BETTLE, CADDY (97-06).
- Enable replacing the timing belt without removing the cylinder head cover.



 60/22.8/23.8/0.65'

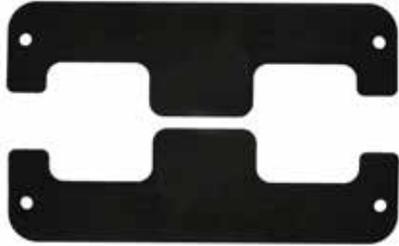
 380g



Engine timing tool set for VW / AUDI

902G15

NEW



- Specially designed to hold and align the camshaft.
- Applicable:VW - Golf 1998~, Bora 1999~, Passat 1997~, Sharan 1996~, Touareg 2003~, Phaeton 2003~, Transporter 1991~
Audi - A8 1994~, Audi TT 1999~
- Engine mode:6-cyl. injection engine (4-valve),
8-cyl. injection engine (W8),
12-cyl. injection engine (W12)



 24/1.5/2.5/1.2'  62g

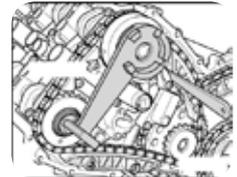
Engine timing tool set for VW / AUDI

902G16

NEW



- Special designed to install Hall sender screens into crankshaft adjuster when setting the crankshaft timing.
- Applicable: Audi A6L, A8L 4.2 engine.
- Engine model: V8 BAT 4.2 engines



 20/1.1/2.1/1.1'  53g

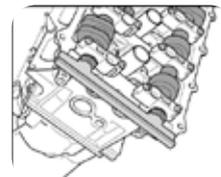
Engine timing tool set for VW / AUDI

902G17

NEW



- For locking camshafts when checking valve timing
- Applicable: Audi A6L, A8L 4.2 engine.
- Engine model: V8 BAT 4.2 engines



 24/1/2/0.65'  41g

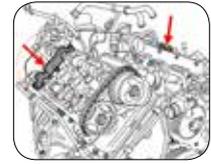
Engine timing tool set for AUDI

902G19

NEW



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



20/1.1/2.1/1.1'

54g

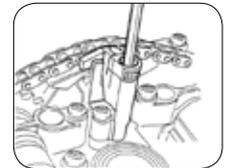
Engine timing tool for VAG

9G0807

NEW



- Special design to hold the chain and tensioner in position during assembly an disassembly.
- Applications: Audi - A3, S3, A4, A6, TT, VW - Beetle, Bora, Golf, Passat, Seat - Ibiza, Cordoba, Leon, Toledo, Alhambra. Skoda - Octavia.



100/5.5/6.5/1.6'

55g

AUDI Crank locking pin

9G1302



- This pin is used to lock the crankshaft at the TDC position while replacing the timing belt.
- Applicable: AUDI 3.0L V6 5 valve.
- Size: M12x1.5



144/15.0/16.0/1.5'

95g

VW/AUDI Crank locking pin

9G1303



- This pin is used to lock the crankshaft at the TDC position while replacing the timing belt or removing the crankshaft bolt.
- Applicable: VW/AUDI models with 2.7 & 2.8 liter V6 engines.
- Size: M18 x 1.5



144/18.0/19.0/1.5'

120g



■ Crank locking pin for AUDI

9G1305

NEW



- This pin is used to lock the crankshaft at the TDC position while replacing the timing belt or removing the crankshaft bolt.
- Size: M14 x 1.5
- Application: AUDI A6 2005 6 cylinder engine 2.4 liter & 3.2 liter FSI



■ Timing tool set for VAG 2.0 TDI PD

906G4



- Timing tool set for VAG 2.0 litre TDI PD DOHC engines fitted to AUDI A4, A6 SKODA OCTAVIA II and VOLKSWAGEN GOLF, GOLF PLUS, JETTA and TOURAN models.



 40/19.0/20.0/2.1'  415g

■ Crankshaft locking tool

9G1208



- For VOLKSWAGEN, AUDI, SEAT, SKODA, 2.0 TDI engines.



 100/20.0/21.0/1.7'  190g

■ Crankshaft locking tool for VW

9G1301



- For use on VOLKSWAGEN BORA, GOLF, LUPO & POLO TDi's.



 100/19.0/20.0/1.7'  1.9Kg

Locking tool set for VW, Audi

902G2



- For use on AUDI, VOLKSWAGEN, SEAT, SKODA with TDI PD and V6 engines.

Contents:

- Injection pump locking pin
- tensioner locking tool
- crankshaft locking tool.



 6/14/15/1.6'

 234g

Engine timing tool set - Peugeot, Citroen

935G1



- This comprehensive timing tool set can correct engine timing when replacing the timing belt.
- Applicable : Peugeot, Citroen

 5/18.0/19.0/2'

 3.6Kg

Engine timing tool set for CITROEN / PEUGEOT

911G7

NEW



- This comprehensive set of tools enables the correct engine timing to be made when replacing the timing belt.
- Suitable for use on most of the recent cars with either HPI (petrol) or HDI (diesel) engines.
- Applicable : Citroen and Peugeot twin cam 16V
 Citroen: Xsara / Picasso C4, C5, Evasion / Synergie, C8, Jumpy / Dispatch
 Peugeot: 206, 307, 406/Coupe, 607, 806, 807, Expert.
- Engine Codes: EW7J4, EW10J4, EW10J4S, EW10D-Hpi, EW12J4

 10/15.0/16.0/1.6'

 1500g



■ Engine timing tool set for FIAT

934G1



- Petrol Engines:
FIAT Brava, Bravo, Barchetta, Cargo, Coupe, Marea, Palio, Weekend, Punto, Multipla, Stilo, Idea Doble, Twin Cam Engines 1.2 1.4 1.6 1.8 16V.
- Diesel Engines:
FIAT Brava, Bravo, Marea/ Weekend, Palio, Punto, Multipla, Doblo, Ulysse, Ducato, Stili JTD Diesel Engines 1.9D/TD 1.9JTD 2.4TD/JTD.

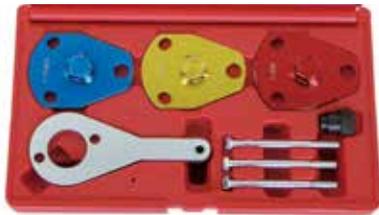


 5/23.4/24.4/1.7'  4680g

■ Engine timing tool set for FIAT

907G16

NEW



- Kit includes all the diesel timing tools for Fiat Punto , Ducato, Tempra, Tipo and models with an adjustable camshaft timing belt pulley.
- Applicable:FIAT : Punto 1.7D/TD/CAT/EGR (96-97) , Ducato 1.9D/ TD (94-02) ,Tempra 1.9D/TD (94-02) , Tipo 1.9D/ TD (94-02)

 10/14.0/15.0/0.9'  1400g

■ Engine timing tool set for Fiat 1.2 8V & 1.4 16V

910G7

NEW



- Kit consists of crankshaft locking tool, camshaft setting plate and belt tensioner adjuster for the 1.2 engine, and additional sprocket locking tool and alignment fixture for the camshaft on the 1.4 WT engine.
- Applicable:New 500(07-08) / Idea(04-08) / Linda(07-08) / Grande Punto(07-08) / Doblo(05-08) / Panda EV02(05-08)
- Engines:1.2 8V / 169A4.000, 199A4.000 / 1.2 8V / 188A4.000 (EVO2) /1.4 16V /350A1.000



 10/10.0/11.0/0.8'  1000g

■ Engine timing tool for VOLVO

912G10

NEW

- For alignment of the cam and crankshafts.
- Also enables correct installation of the camshafts with the cam cover.
- Applicable: VOLVO models 850, 960, S40, S70 and S90.



 4/22.0/23.0/1.6'

 5500g

■ 11pc Universal pulley holder & fan clutch set

911G1

- This set is designed to remove and install fan latches & to hold the camshaft pulley.
- Used for most of the cars.
- Contains different taps to fit any cars and pin width can adjust.
- Can adjust different width from 40m/m to 220m/m.
- Size available:
6mm~10mm, 8mm~11mm, 10mm~12mm, 11mm~16mm



 6/19.1/20.1/3.5'

 3180g

■ Camshaft & injection pump sprocket holding turning tool

9G0606

Can be used for universal.

- Essential tool called for on many timing belt/engine timing application.
- Used to counter-hold camshaft or injection pump sprockets to allow release of retaining bolt.

 24/24/25/2.5'

 990g

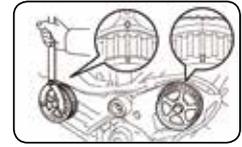


■ TOYOTA Cam wrench tool kit

915G1



- Universal design fits many different types of pulleys having slots or holes, including camshaft pulleys and crankshaft pulleys.
- Wrench is adjustable from 1-1/4 inch to 5 inches; works with 1/2" ratchet or breaker bar.



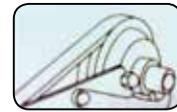
 16/18.3/20.5/2.2'  1140g

■ Viscous fan holding tool

9G0601



- Essential tool to prevent fan hub from rotating when removing retaining nut.
- Unique swivel locking head for universal application.
- BMW: 316, 520I, 525I, 530I, 730I, 735I
FORD: CAPRI, SIERRA, GRANADA
VAUXHALL/OPEL: CARLTON, MANTA, SENATOR



 36/16.0/17.0/1.4'  440g

■ Universal timing gear holder

9G0617

NEW

- Used to hold cam gear while removing cam shaft bolt.
- Allows adjustment of cam gear once installation is completed
- Single sliding design makes it quick and easy to adjust.
- Three positions for wider application range.
- Range: 50 ~ 150 mm.



■ Universal camshaft pulley holding tool

9G0603



- This wrench is designed with grooved pins to hold the camshaft pulley stationary while loosening and tightening the center shaft bolt.
- Useful on most Asian overhead cam engines: NISSAN, TOYOTA and other OHC engines.



 24/21.8/22.5/1.5'  895g

Counter hold tool for VW / AUDI

9G0616

NEW



- This tool is used for stopping the engine crankshaft pulley/vibration damper when center bolt for crankshaft is under installation or disassembly.
- 810mm (32" inches) long, with 4 pins, size 5mm with 42mm pin spacing.
- Application: Mainly used for car Audi A3 (2004 -up), engine 1.8 liter TFSI (chain drive), also fits Audi A4 / A5 / Q5 (2009 -up), engine 2.0 liter TFSI (chain drive).



 6/15.0/16.0/1.1'

 2290g

VW, AUDI belt pulley holder

9G0607



- Special design to hold the belt pulley on VW, AUDI.
- Applicable:
VW: LUPO, POLO/CLASSIC, GOLF, BORA & CADDY.
AUDI: A2



 6/12.3/13.3/1.1'

 2050g

VW, SEAT Belt pulley holder

9G0608



- Special design to hold the belt pulley on VW.
- Applicable:
VW: LUPO, POLO/CLASSIC, BEETLE, GOLF, BORA & CADDY.
SEAT: IBIZA/CORDOBA

 6/12.9/13.9/1.1'

 2150g



■ Pulley holder tool (teeth type belt)

9G0708



- Ideal for removing and assembling any type of grooved pulley. This modern tool keeps the grooved pulley firmly locked.
- Enables to tighten or to untighten without any difficulty, the pulley locking screw.
- Has more functions than a standard strap or chain wrench, and will not damage components. Ideal for alternator and water pump pulleys, but also essential for electric motors of compressors, washing machines, tool machines etc. Also suitable to rotate the camshaft when timing the engine and to remove oil and gasoline filters.



 30/18.5/19.5/2.8'  615g

■ Pulley holder tool (groove type belt)

9G0709



- Ideal for removing and assembling any type of grooved pulley. This modern tool keeps the grooved pulley firmly locked.
- Enables to tighten or to untighten without any difficulty, the pulley locking screw.
- Has more functions than a standard strap or chain wrench, and will not damage components. Ideal for alternator and water pump pulleys, but also essential for electric motors of compressors, washing machines, tool machines etc. Also suitable to rotate the camshaft when timing the engine and to remove oil and gasoline camshaft filters.

 30/17.5/18.5/2.8'  583g

■ Honda & Acura Crankshaft and harmonic balancer holder

903G4



- Allows the crankshaft pulley and/or harmonic balancer bolt to be broken loose.
- Includes tool necessary to properly counter the rotation of the crankshaft pulley/harmonic balancer during removal and reinstallation of crank bolt.
- Secures the pulley in place not allowing it to rotate during removal and reinstallation of crank bolt.
- Specially designed to work on 1990 and newer Honda and Acura models and Honda Civic 1980 and newer models.



 10/35.8/36.8/2'  3580g

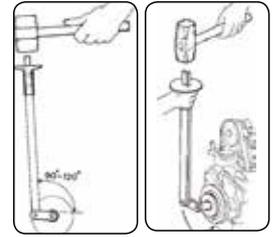
1/2" Dr. Hand impact wrench

9G0712



- Special design to replace the harmonic balancer pulley.
- It will turn when you try to remove the center nut.
- Applicable: flywheels, pulleys, flanges and etc.

12/18.0/19.0/0.9' 1375g



7pc BENZ & BMW Fan service wrench set

907G3



- Removes lock nuts on thermo-Viscous fans found on FORD BMW ... many vehicles.
- Removes lock nuts on thermo-Viscous fans found on FORD Mercedes... many vehicles.
- Allows the technician to hold the water pump pulley in place while loosening the radiator fan.
- To allow removal of the visco-coupling on the cooling fan.
- Required to remove the radiator fan hub, the reaction spanner is bolted to the front face of the hub.
- Special open-ended spanner to allow removal and replacement of the radiator fan hub.
- The three-in-one design allows servicing three separate areas of repair. All of which require a specialty tool due to their confined locations.

5/19.3/22.0/2.7' 3860g

BMW Pulley holder

9G0602



- Needed for securing water pump hub from rotating during R&R of fan clutch nut.
- Applicable Engine: M10, M20, M30, M50, M70, M42, M60.



35/17.0/18.0/1' 470g

65mm Single-ended open wrench

9G0701



- Special open-ended spanner to allow removal and replacement of the radiator fan hub.
- For Mercedes engines: M103 (6-Cylinder), M104 (6-Cylinder 4- Valve), M119 (8-Cylinder 4-Valve), M120 (12-Cylinder 4-Valve). Length: 400mm



30/18.3/19.3/0.98' 625g



Reaction wrench (with 3 holes)

9G0702



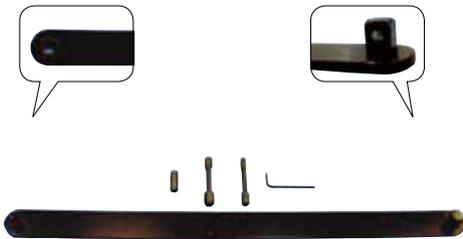
- Required to remove the radiator fan hub. The reaction spanner is bolted to the front face of the hub. The Poly-V belt is not in place and cannot be used to lock the hub.
- For Mercedes engine: M111 (4-Cylinder 4-Valve; C-And E-Class).
- Length: 410mm



 48/19.2/20.2/0.7'  400g

BENZ Fan belt service wrench

9G0707



- This universal tool has been designed to service Mercedes Benz; Nissan Quest; Mercury Villager Radiator fans and pulley belts.
- The three-in-one design allows servicing three separate areas of repair all of which require a specialty tool due to their confined locations.
- This special wrench can be used for loosening the A/C idler pulley tensioner lock-nut for A/C belt adjustment or replacement.
- 8 mm & 10 mm bit included.



 10/8.1/9.1/1.1'  810g

Reaction tool

9G0202



- To allow removal of the visco-coupling on the cooling fan.
- For Mercedes engines.



 120/16.3/17.3/1.1'  135g

Reaction wrench

9G0704



- For locking of deep-drawn water-pump pulleys on VW and Audi engines. As they are used when E.G. an air conditioning is also built in.
- Safe locking of the water-pump pulley.
- Easy loosening of stubborn bolts on the water-pump pulley.



 36/19.8/20.8/2.1'  550g

Reaction wrench (1/2" DR.)

9G0705



- For locking the pulley on the water-pump on VW Polo, Golf, Passat Audi 80/A4.
- The 1/2" drive in the tools handle enables an extension of the tool by E.G. a ratchet.
- Easy loosening of stubborn bolts on the water-pump pulley.



 72/21.0/22.0/1.5'  291g

Power steering pump pulley kit

907G12

NEW



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



 20/19.0/20.0/2.0'  950g

Camshaft drive belt pulley puller

905G4



- Special puller designed for pulling camshaft pulley wheels on 4 & 6 cylinder, V6 & V8 engines on VW and AUDI petrol engines.



 10/16.4/16.9/1.1'  1.64Kg



22pc Alternator repair kit set

922G3



- Removes and installs press-on-type belt drive accessory pulleys.

- Applicable: VW, Audi, Seat, Mercedes Benz, Renault, BMW, Ford Renault, Fiat, etc....

- Specification: A. 17mm HEX Socket ,

B. 22mm HEX Socket

C. 22*28mm HEX Socket , D. 21*28mm HEX Socket

E. 19*28mm HEX Socket , F. 35mm Round W/4pin

G. 38mm HEX W/3pin , H. Ø 17.6*15mm HEX*33T

I. Ø 19.2*15mm HEX*33T , J. Ø 19.3*22mm HEX*33T

K. 3/8" Dr.* M10x72mmL W/ Ø14*12mm HEX*31T

L. 1/2" Dr. * T50x110mmL W/ Ø19.5*17mm HEXx33T

M. 1/2" Dr. * M10x110mmL W/ Ø19.5*17mm HEXx33T

N. Bit H10 socket w/10mm hex drive end



4/8.7/9.7/0.87'

2169g

VW, AUDI V-belt pulley remover

67402



- Special design to stop the pulley and remove the center bolts to remove the V-belt pulley at the generator.

- Use with 17mm wrench.

- Applicable: VW GOLF, VENTO, PASSAT, AUDI A3 and VOLVO



144/5.0/6.0/1.5'

50g

2pc M10 Alternator tools

674



- 1pc 1/2"DR. Spline (XZN) socket bit M10x110mmL

- 1pc Reaction corkscrew cap 33 teeth-Ø19mm-17mm hex

- Application : VW-Audi, Skoda, Porsche, BMW, Ford, Mercedes-Benz etc.



100/18.2/19.2/1.5'

110mm

182g

2pc T50 Alternator tools

678



- 1pc 1/2"DR. Torx socket bit T50x110mmL
- 1pc Reaction corkscrew cap 33 teeth-Ø19mm-17mm hex
- Application: Mercedes A Class.

100/21.2/22.2/1.5' 110mm 212g

Universal camshaft sprocket puller

905G18

NEW



- Hold the sprocket and undo the retaining bolt or nut and remove
- This tool enables the removal of the camshaft sprocket on a wide range of vehicles
- Suitable: 45 – 70mm



Gear puller

909G2



- Depth: A 68mm, B 90mm
- Outside: A 40-120mm, B 132-195mm



6/17.0/18.0/1.2' 2830g

Balancer puller & installer

945G1



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



6/14.6/15.6/1.3' 2430g



■ Heavy duty universal & GM harmonic balancer puller

921G1



- Heavy duty forcing screw & bolt kit suits most harmonic balancers, timing gears & pulleys with 2/3" tapped.
- GM forcing screw & bolts suits gm 3.8 l v6 balancer pulleys.
- Bolt sizes: 1/4" UNF x3" (3 pieces) / 10mm x 50mm (3 pieces)
5/16" x 2"(3 pieces) / 80mm x 80mm (3 pieces)
3/8" x2"(3 pieces) / 3/8" x 4" (2 pieces)

5/14.4/15.4/1.5' 2880g

■ Dual mass flywheel-wear testing tool

922G5

NEW



- Indispensable tool for the quick and professional wear tests of Dual Mass Flywheels (DMF).
- Tests can be performed directly on the vehicle if the clutch has been removed.
- The test involves checking the rock allowance (axial play) and the freeplay angle (torsion of the secondary flywheel against the primary flywheel until the tension of the spring can be felt).



5/15.5/16.5/1.6' 3100g

■ 17pc Clutch alignment tool set

917T2



- Essential for clutch installation on almost all cars and light-duty trucks. Align clutch plate properly by using tapered cones and pilot adapters.
- Includes seven fractional pilot adapters, one clutch disc centering adapter and one alignment shaft.
- Includes five metric pilot adapters, two clutch disc centering adapters and one alignment shaft.



12/15.5/16.5/1.4' 1290g

■ NISSAN Quest fan belt service wrench

9G0703



This special wrench can be used for loosening the questy a/c idler pulley tensioner lock-nut for a/c belt adjustment or replacement.



24/17.2/18.2/2.5' 715g

■ Ratcheting serpentine belt wrench kit

907T2



- Service approximately 90% of all vehicles equipped with spring-loaded serpentine belt tensioners.
- For use when servicing serpentine drive belts or any belt-driven accessories. Specifically designed to fit into tight areas.
- Ratcheting action allows quick and easy positioning of wrench driving end for tensioner access from any angle.
- Heat treated and nickel chrome plated for strength, durability, and appearance.

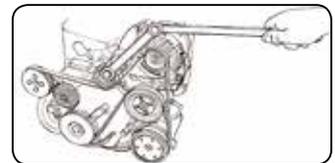
 20/19.0/20.0/1.9'  950g

■ Serpentine belt service tool set

913T1



- Combines the patented innovation of gear wrench with the requirements of the serpentine belt removal tool to provide the user with the best possible combination.
- Provides coverage for all major vehicles with serpentine belt configuration.
- The versatility and strength of the Gear Wrench allows for unlimited access to serpentine pulley tension arms with added attachments for unlimited coverage.



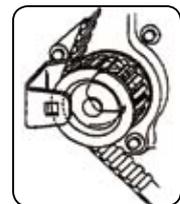
 12/19.6/21.0/1.4'  1633g

■ Belt tensioning adjuster

9G0802



- For GM OPEL engines. Overcomes difficult access.
- Provides high torque without tilt or slip.
- Size: 41mm
- 1.2, 1.3, 1.4, 1.6, 1.6D, 1.8 ('87 onwards).



 48/13.9/14.9/2'  280g

■ Belt tensioning adjuster

9G0803



- For GM OPEL engines. Overcomes difficult access.
- Provides high torque without tilt or slip.
- Size: 46mm
- 1.6(Up to '87), 1.7D, 1.8(Up to '87), 2.0.

 48/13.9/14.9/2'  280g



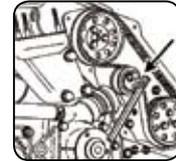
Engine timing tensioner kit

908G6



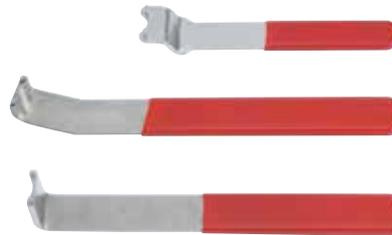
- This set can use for ALFA ROMEO, FIAT, CITROEN, PEUGEOT, RENAULT, VOLKSWAGEN.
- A comprehensive range of tension lever and wrenches required for changing the cam belt on most popular petrol and diesel engines.

10/14.0/15.0/1.2' 1330g



Adjusting tensioner belt set

903G15



- Application: all VAG group.

36/24.7/25.7/1.5' 670g



Belt tension locking pins VW / AUDI / TDi PD engines

903G8



- Timing belt tension PINS-OEM NOS T10115, T40011 AND serpentine tension PIN-T10060/A
- For use on: LUPO. POLO 1.4 TDi PD
GOLF, BORA, POLO 1.9 TDi PD
BEETLE, SHARAN 1.9 TDi PD
PASSAT 1.9 TDi PD
AUDI A2/A3 1.4/1.9 TDi PD
A4/A6 1.9 TDi PD
A4/A6/A8/ALLROAD 2.5 V6 TDi



Tensioner adjusting tool

902G4



- A set of two cam belt tensioner locking tools.
- Required for use on VOLKSWAGEN 4 cylinder TDi/ PD/ SOHC diesel engines.
- Including:
GOLF /GOLF PLUS/ JUTTA/ PASSAT/
EOS TOURAN/ CADDY /CADDY MAXI.

120/13.2/14.2/1' 110g



■ Belt tool kit for elastic- ribbed belts

902G9



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



 30/17.0/18.0/1.3'  567g

■ 3pcs Belt installing tool set

903G20

NEW



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



 100//19.0/20.0/2.2'  190g

■ Universal tensioning gauge for cam belts

9G0804



- This tensioning gauge can be used to adjust the tension on the cam belts where the movement of the timing belt is measured by load.
- Suitable for use on cam belts with various belt thickness.
- Easy to use.
- Clear incremental marking with knurled knob for precise measurement.
- Dual scale allows reading from top or bottom of tool. (large and small numbers for compatibility)



 48/20.6/21.6/2'  338.5g



■ Universal Engine Belt Tension Tester

9G0609



- This tool can be used to confirm tension on the engine belt of cars.
- Simple to check the belt for proper tension.
- Suitable for all common types of engine belt. Including timing, ribbed, tooth and V-belt.



 40/10.5/11.5/0.9'  250g

■ 7pc Hose clamp pliers kit

907G1



Contents:

- Hose clamp pliers
- 2pc Swivel jaw hose clamp pliers
- Angled flat bank hose clamp pliers
- Flat bank hose clamp pliers
- Clic-r collar pliers
- Hose remover pliers



 6/21.0/23.0/3.9'  3.5Kg

■ 9pc Hose clamp pliers kit

909G3



Contents:

- Hose clamp pliers
- 2pc Swivel jaw hose clamp pliers
- Angled flat bank hose clamp pliers
- Flat bank hose clamp pliers
- Clic-r collar pliers
- Hose remover pliers
- Screwdriver
- Hose remover



 6/15.9/16.9/3.0'  2650g

Flat band hose clamp pliers

62518



- Removes and installs new style flat band hose clamps.
- Jaws rotate to grip at any angle.



 72/18.0/19.0/2.6'  250g

Angled flat band hose clamp pliers

62522



Designed to remove and install flat band hose clamps in hard-to-reach areas. Pliers feature angled jaws with rotating tips to grip clamps at any angle. Locking latch securely holds clamp in position.



 48/10.9/11.9/2.7'  227g

Hose clamp pliers

62530

NEW



- For the operation of spring band hose clamps whose three ends are located on tubes, e.g. on fuel lines and tank ventilation lines on VW, AUDI, SEAT, SKODA

 72/14.5/15.5/2.8'  201g



Flexible hose clamp remover

9G0201



- For replacement of fuel, oil and water hose.
- Hose clamp with flexible 630mm wire.
- Convenient for working hidden areas and long distance.



 36/22.6/23.6/3.5'  630g



Hose clamp pliers (for VW, AUDI 2.0)

9G0208



- Special jaw design for VW, AUDI 2.0 TDI engine lower water hose clamp.
- Max clamp capacity: 55mm.
- Flexible 630mm cable enables user to reach, remove and lock clamp into the open position.



 24/20.5/21.5/2.3'  854g

Hose clip pliers

9G0116



- For removal and replacement of fuel-lines, oil-lines, radiators hoses and heater hoses fitted with space-saving, re-usable, self-clamping spring hose clips.
- Special design ensures that the compressed clips are safely and securely retained.
- For ALFA ROMEO, CITROEN, FIAT, FORD, HYUNDAI, LANCIA, MERCEDES, OPEL/VAUXHALL, PEUGEOT, PORSCHE, RENAULT, SEAT, SKODA, TOYOTA, VOLVO, etc. Especially for the new clips on fuel-lines on VW-AUDI.



 36/15.8/16.8/1.6'  430g

Hose clamp pliers

62528



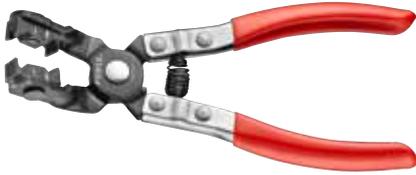
Deep-slotted Jaws can remove and replace all size spring wire hose clamps and lock them safely in an position.



| Part no. | <i>l</i> mm |  packing |  g |
|----------|----------------|--|---|
| 6252807 | 180 | 40/14.7/15.7/1.5' | 370 |
| 6252809 | 230 | 30/12.5/13.5/0.82' | 415 |

■ Hose clamp pliers (angle type)

9G0109



- Designed with angle type to any space.
- Swivel tip designed for refitting and release.
- For CLIC and CLIC-R type hose clamp.

 40/11.4/12.4/2.4'  285g



■ CLIC-R Collar pliers

9G0104



- For releasing and refitting reusable hose clips.
- For type CLIC and CLIC-R.

 48/12.6/13.6/1.9'  260g



■ Hose clip pliers

9G0117



- For fitting 1-lug or 2-lug hose clips.
- The special arrangement of the jaw allow, the clips to be closed either at the end or at the side, depending on the accessibility of the working area.
- Size: 230 mm

 36/15.1/16.1/1.2'  419g



■ 3/8" DR. Hose clip tool

9G0120

NEW



- Designed to fix the hose without removing sensors, duct, hose... etc. that are near the hose clamps.
- The end shape with trapezoidal teeth does not slip and allows various positions. (vertical, horizontal, diagonal...)
- Suits difficult work with pliers type tool of vehicle type.

 10/16/17/1.6'  190g



2pc Hose remover set

902G22

NEW



- Allows the mechanic to easily free stuck or adhered automotive hoses without fear of hose damage or personal injury.
- Perfect for use on coolant, vacuum, oil and power steering hoses of all diameters.

Hose removal pliers

9G0105



For easy removal of 5/32" to 1/2" vacuum and fuel hoses.



72/14.5/15.5/2.4'



200g



Professional hose removal pliers

9G0106



- For easy removal of 4mm to 21mm vacuum and fuel hoses.
- Special mini anti-slip jaw to avoid pipe slip and to make removal easy.



72/14.0/15.0/2.4'



194g

Hose remover pliers

9G0108



- Special JAWS design, one side is flexible to fix on the tube when using, the other side to pull out the hose.
- Hose range: 1/4"~1/2"



60/16.8/17.8/2.5'



280g



Fluid hose clamp

9G0110



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



 96/5.8/16.8/1.4'

 165g

Hose pinch-off tool (bar type)

9G0111



- Suited for both brake and fuel lines.
- Effective pinch action with rounded clamp section to prevent damage to hose lining.



 72/18.5/19.5/0.9'

 257g

4pc Fluid line clamp set

904G8



- Conveniently pinch off fuel, vacuum, transmission, brake, heater lines and more.
- Sizes: 3/8" (~Ø10mm), 1/2" (~Ø15mm), 1" (~Ø25mm) & 1-3/4" (~Ø45mm)



 24/12.0/13.0/1.2'

 470g

3pc Hose pinch-off pliers (8", 10" & 12")

9G0112



- The pinch-off pliers act as a third hand to help you keep hose changed tightly when you are servicing various engine components.
- No need to drain cooling system when changing thermostats and thus can save coolant and time.
- Jaws swivel for parallel clamping.
- Locking ratchet provides tight grip in just about any position.
- Can also be used to pinch-off many other hoses.
- Do not use on wire reinforced radiator hose.

| Part no. | <i>l</i> inch |
|----------|------------------|
| 9G0112A | 8 |
| 9G0112B | 10 |
| 9G0112C | 12 |

 18/22.5/23.5/1.9'

 1.25kg



Locking pinch-off pliers 280mmL

9G0115

- Pinch off and lock on butane gas lines and copper tubing.



 36/17.1/18.1/1.5'

 475g



3pc Hose pinching pliers

903G12

- Smooth, rounded jaw, edged prevent damage to internal hose reinforcement.
- Quick and simple, one handed use.

Size:

Hose clamp for up to 10mm, 15mm, 24mm line diameter



 60/18/19/3.6'

 300g



3pc Hose clamp gripper set 90°

903G18

NEW

- Made of heat resistant nylon.
- Rounded jaw edges prevent damage to internal hose reinforcement.
- Features locking mechanism for simple one-handed use.
- Suitable for brake, coolant, fuel & vacuum hoses.



 24/9.0/10.0/2.4'

 375g



Viscous fan hub spanner

9G0710

For removal of thermo, viscous fan hubs. cranked for easy access.

Size: 32mm

BMW 316, 520i, 525i, 530i, 535i, 730i, & 735i.
 FORD CAPRI, SIERRA, GRANADA 2.0 & 2.8.
 FORD TRANSIT 2.0 1986-90 (with viscous fan)
 LCX 2.0, LCT 2.0, 2.5 Diesel 1980-90,
 LCX 2.5D & LCY 2.5D.



 36/21.4/24.5/1.2'

 595g

Viscous fan hub spanner

9G0710A



For removal of thermo, viscous fan hubs. cranked for easy access.

Size: 36mm
 FORD GRANADA 2.4 & 2.9.
 GM CARLTON MANTA & SENATOR.

36/21.4/24.5/2.5' 595g

Two way viscous fan spanner

9G0710B



For the removal of thermo-viscous fans on BMW, FORD, OPEL & VAUXHALL vehicles.
 Size: 32mm, 36mm

36/21.4/24.5/2.5' 595g

Radiator cap wrench

9U0702



- Quickly and safely removes all standard radiator caps.
- Engage the wrench over the cap and then press down and turn. Easy!

Warning:

1. Do not open cap if radiator is hot.
Hot fluid can erupt and cause burns.
2. Always wear ANSI approved safety goggles when working with tools and equipment.



48/18.2/19.2/3.3' 380g

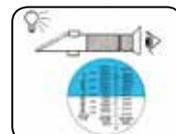
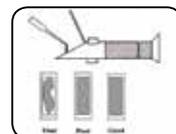
Battery / anti-freeze cleaning fluid tester

9G0303



Testing range:
 Battery fluid: 1.100~1.400
 Ethylene glycol°C: -5(12.4%) ~ -60(66.6%)
 propylene glycol°C: -5(14.8%) ~ -50(62.4%)

40/16.0/18.0/1.8' 400g



■ Anti-freeze tester

9G4001

NEW



- Avoid winter freeze-ups and summer boil-over.
- Test all permanent (Ethylene Glycol) solutions with radiator hot or cold.
- Two scales show freeze point of radiator solution and boiling point of summer coolant.

 100/13/15.2/5.8'

 130g



■ Cooling system vacuum purge & refill kit

906G2



- Designed to pump radiator and cooling system to vacuum.
- Simply refill coolant into radiator without air.
- Gauge: 0~76 cm-Hg, 0~30 in-Hg

 10/15.0/16.5/3.05'

 1400g



■ Cylinder leakage tester

905G10



- This set could test if the wall of cylinder is abrasive.
- The CO2 test liquid is checking volume of CO2 existing in radiator in the car.
- Have blue color of test liquid mixed with stem in the radiator if the liquid become yellow or green then it means that the wall of cylinder is abrasive.
- It offers simple, quick and correct test.
- The CO2 test liquid is recyclable.

 10/13.5/14.5/3.05'

 1200g



■ Cylinder leakage tester

907G8



- This tester kit is used for checking the radiator to see if any water leaked because of the body or the connector not fitted properly or any broken.
- It's tested through pressure increase by using an adapter for closing the master or second inlet of the radiator then pushing the manual pump by hand.
- Applicable: Mercedes, GM (Buick), Jeep, Peugeot, Subaru, Chrysler, Acura, GM (Nova, Spectrum, Sprint), Mitsubishi, Nissan, Mazda, Toyota, Infiniti, Geo, Suzuki, Isuzu, Ford, Honda.
- Gauge: 0~35 PSI, 25 bar



 4/8.8/9.8/2.16'  2200g

■ Cooling system & radiator cap pressure tester

908G2



- Designed to test radiator cap relief pressure and seal condition.
- For use with most vehicle radiators, includes hand pump with gauge, universal cooling system adapters, radiator cap adapters.
- Applicable: Mercedes, GM, Jeep, Peugeot, Chrysler, Acura, Mitsubishi, Nissan, Mazda, Toyota, Infiniti, Geo, Suzuki, Isuzu, Ford, Honda.
- Gauge: 0~35 PSI, 25 bar



 5/17.5/18.5/2.3'  2.9kg

■ Universal radiator pressure tester kit

914G1



- Designed to test the leaks of cooling system.
- Suit for: Suzuki, Isuzu, Lexus, Opel, Peugeot, Jeep, Rover, Citron, Nissan, Mitsubishi, Mazda, Subaru, BMW, Renault, Fiat, Alfa Romeo, Toyota, Honda, Ford, GM, Chrysler, VW, Audi, Volvo, Saab, Mercedes Benz, Infiniti, Geo, Truck.
- Gauge: 0~35 PSI, 25 bar



 4/15.5/16.5/2.9'  3875g



■ Cooling system & Radiator cap pressure tester

922G1



- For use with most vehicle radiators, includes hand pump with gauge, universal cooling system adapters, radiator cap adapters.
- Applicable: Mercedes, GM 4 Cylinder (Buick, Chevrolet, Oldsmobile, Pontiac, Cadillac), Jeep, Peugeot, Chrysler, Acura, GM (Nova, Spectrum, Sprint), Mitsubishi, Nissan, Mazda, Toyota, Infiniti, Geo, Suzuki, Isuzu, Ford, Honda, VW, Audi, Opel, Saab, Volvo, Lexus, BMW, Jaguar.
- Gauge: 0~35 PSI, 25 bar

 3/15.9/16.9/2.4'

 5.3kg

■ Universal multi-purpose cooling system test kit

919G3



NEW

- Kit provides major tests in the cooling system: Pressure test (leaking test), temperature sensor test, water pump, thermostat and cooling fan condition tests.
- Suitable for universal vehicles.
- Including step adapters and hose clamps of various sizes, suitable universal application.
- Including a high-quality displaying device: (e.g. digital LCD, glass screen and a gauge), helping mechanics detect potential problems in cooling system.
- Targeted tests can be operated individually.



■ Image guide scope

9G2203



- Inspects hard-to-reach corners with 18", diameter 4mm flexible cable for easy operations.
- Equipped with illumination lamp for clear viewing.
- Optional 35°, 45° and 60° mirrors are available.
- Optional mirrors:

Option



 5/10.0/11.0/2.3'

 2Kg

■ Mechanic's stethoscope

9G2204



- Provides a fast and easy way to locate noises in engines or bearings and other moving parts.
- Ideal for pinpointing unusual vibrations or suspected leaks (valves, piston rings, gaskets etc.)

 40/9.5/10.5/2.7'

 200g

■ Mechanic's stethoscope

9G2201



- Provides a fast and easy way to locate noises in engines or bearings and other moving parts.
- Plastic earphones shut off outside noises.
- Aluminum alloy probe/needle for finding the exact location of specific noises.
- High quality surgical PVC & rubber parts for increased sound definition.
- Instrument is shockproof.
- Ideal for pinpointing unusual vibrations or suspected leaks (valves, piston rings, gaskets etc.)
- Supplied with a rubber trumpet for checking vacuum & pressure flow.
- Useful for synchronizing multi carburetors.

 48/9.6/11.0/4.4'

 200g

■ Automotive noise finder

902G11

NEW



- This is a portable automotive noise finder which can quickly detect source or location of noises emanated from bearing, gear, valve, valve body, crankshaft, cylinder, gearbox, car body and so on after starting engine.
- It helps the serviceman to pinpoint the actual noise part and severity even in severe ambient noise.

 40/9.0/10.0/3.1'

 225g



■ Combination electronic stethoscope kit

9G2202



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



6/16.0/17.0/4'



2670g

■ Vacuum pump / Brake bleeding kit

906G3



- Check vacuum operated components on cars and trucks.
- Allows you to bleed brake fluid without the mess.

Contents:

1. Vacuum pump (0~30 in.Hg)
2. Connection hose. (600mm x 2 pcs)
3. 200ml fluid reservoir bottle.
4. Fluid transfer and storage lids x 2 pcs.
5. Connection accessories:
(Rubber cupped adapter)
(Accessory hoses: 75mm x 2 pcs)
(Accessory hoses: 95mm x 2 pcs)



5/7.8/8.8/2.5'



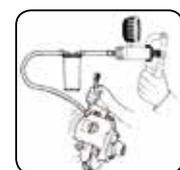
1830g

■ Vacuum testing / Brake bleeding kit

908G8



- The kit includes the vacuum pump, complete fittings and accessories for vacuum testing and brake bleeding, plus a detailed owner manual.
The vacuum pump is field repairable. Re-place worn O-rings, seals and valves with the vacuum pump repair kit
- Pressure range: 0 ~ 60 PSI / -30 ~ 0 PSI



6/11.0/12.0/2.4'



1.8kg

Turbo system tester kit

909G7

NEW



- For fast diagnostics of the charging air system.
- Enables time saving and appropriate determination of leaky intercoolers and invisible cracks in charging air hoses.
- Four pairs of stepped adapters : 85 - 90, 75 - 80, 65 - 70, 55 - 60 mm



Compression tester kit

907G9



- Gauge: 0~300PSI, 21kg/c M²
- Adapter: M10*1.0, M12*1.25, M14*1.25, M18*1.5
- Extension: 45~170 mm

 20/14.8/15.8/1.2  750g



Flex-drive compression tester

903G6



- Easy-Reading 2-1/2" Diameter gauge with color-coded quadruple calibrations, 0~300PSI, 21kg/c M² & 2100KPA.
- A long heavy-duty flexible hose with a 14mm/18mm adaptor.
- Convenient Pressure-holding, side release valve.
- Preparation for compression test:
 1. Start and run engine up to normal operating temperature.
 2. Make sure the battery is fully charged.
 3. Remove dust from spark plug wells. Remove all spark plugs.
 4. Ground Hi-Tension terminal of the ignition coil to avoid spark during test.

 20/14.5/15.5/1.54'  725g



Unique compression tester

903G7



- Easy-reading 2-1/2" diameter rubber covered gauge with color-coded quadruple calibrations, 0-300 PSI, 21 kg/c M², 2100kpa.
- 13" durable rubber hose with 14mm / 18mm adapter.
- 6" heavy-duty stem with universal rubber one adapter fits all plug holes.
- Convenient Pressure-holding, side release valve.



 20/15.2/16.2/1.2'  760g

Heavy duty compression tester set

905G5



- Compression gauge with protective rubber 2-1/2"
- GAUGE: 0~300PSI 0~21kg/c M²
- Extension aluminum tube
- Angled extension aluminum tube
- NBR hose fit NO: M14&M18
- Extension thread head inner: M14
outer: M14

 20/17.5/18.0/1.54'  875g

Gas cylinder compression tester set

908G1



Gauge: 0~300 PSI, 0~21 kg/ cm²

Contents:

Air gauge with quick coupling & release valve. High-tension connecting pipe with safety lock coupling. Crank shaft type test pipe with rubber plug. Transverse axis test pipe with rubber plug.
M10*1.0 Adapter
M12*1.25 Adapter
M14*1.25 Adapter
M18*1.5 Adapter

 10/11.6/12.6/1.26'  1160g

■ Petrol engine compression tester set

909G1



- Gauge: 0~300 PSI, 0~21 kg/ cm², 20 bar
- Comprehensive kit based on petrol compression tester for vehicles with M10, M12, M14 and M18 spark plug threads. Complete with extensions (M10, M12, M14, M18), thread chasers (M14&M18, M10&M12) and service kit.
- Checks condition of valves, piston rings, gaskets & cylinder heads.
- Used on cars, vans & motorcycles.
- Pressure relief valve enables repeated testing of a cylinder without removing the gauge.



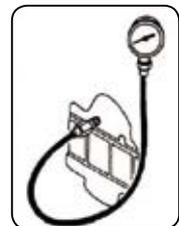
 8/13.5/14.5/2'  1688g

■ Oil pressure tester set

912G1



- Helps to diagnose worn oil pumps and engines, faulty oil pressure switches and warning indicators.
- Accurately tests oil pump pressure, switch & warning indicators.
- Large clear dual scaled gauge.
- Quick coupling adapters, with shut-off valve, for speed & security.
- Permanently oil primed, long, flexible hose.
- Gauge: Scale: 0~150 PSI, 0~10 kg/ cm², 0~10 bar
Thread: R/18 Din 2999, 1/8 x 27 Npt, 1/4 x 18 Npt, 3/8x 20 Unf, 1/2 x 20 Unf, M10 x10, M12 x1.5, M14 x1.5, M16x 1.5, M18 x1.5, 90°Elbow



 6/11.0/12.0/2.3'  1830g

■ Power steering tester

915G5

NEW



- For accurate, reliable power steering analysis.
- Determines if trouble is in front of suspension or steering linkage.
- Saves valuable time when rebuilding or replacing parts not actually defective.
- Set contains 2,000 PSI gauge with metering valve, connection hose, 13 adapters and power steering pressure specifications.
- All packed in a plastic storage case.
- Applications: American Motors, Chrysler Corp, Ford Motor.

 6/9.0/10.0/1.5'  1500g



Transmission pressure gauge set

922G6

NEW



- For all major manufacturer domestic and import vehicles.
- Contains two gauge assemblies for high and low pressure ranges.
- Nine adaptors to test a wide variety of domestic and import automatic transmissions.
- Four special fittings are also included for connection to hard-to-reach test ports in areas requiring a 45° or 90° angle.
- Applications: Acura/Honda, BMW, Chrysler Corp, AMC/Eagle, Jeep, Ford, General Motors, Saturn, Hyundai, Infiniti, Isuzu, Jaguar, Lexus, Mazda, Mercedes, Mitsubishi, Nissan, Peufteot, Saab, Subaru, Suzuki, Toyota, VW, Volvo.

 5/10.0/11.0/1.5'  2000g

Gasoline engine injecting pressure tester set

946G1



- Gauge: 0~120 PSI 8 bar
- This tester is an assembly of fuel injection pressure test.
- The related adaptors are suitable for cars of American, Japanese and European systems.



 4/20.7/21.7/4'  5180g

11pc Deluxe noid lite / IAC test kit plus one fibre optic noid lite extension

88442



- Set includes eight noid lights for testing GM PFI, FORD TBI, GEO TBI, BOSCH PFI, GM TBI, GM SCPI, GM MULTEC 2, BOSCH 2.

One IAC signal test lights for GM1982 or newer GM TBI and PFI fuel injection system, and one for GM Model 1987 or newer GM Model 700 TBI and PFI fuel injection system, Plus one fibre optic Noid Lite extension.

- Kit Comes in a deluxe molded plastic case.



 24/10.6/116/1.8'  442g

Fuel injection cleaner & tester kit

940G1



- Universal for all cars
- Cleaning fuel injector
- Cleaning intake valve
- Cleaning combustion chamber
- Cleaning vacuum system
- Cleaning parts and valves
- Test engine system pressure
- Test fuel pump pressure
- Test the sealing condition of return line diaphragm



 4/19.2/20.2/2.9'  4.8kg

Carburetor synchronize tool set

919G2



- For testing fuel pump carburetor and transmission check auto with 2~4pc carburetors.
- Gauge: Pressure: 0~15 PSI, 0~1 kg/cm²
Vocuum: 0~28 in-Hg (0~70 cm-Hg)



Contents:

- 4 pc 3-1/2" Synchronizer gauges with fixed plate
- 4pc Rubber hose 8 X 5 X 750mm
- 4pc Extension tube 3.9 X 52mm
- 4pc Extension tube 3.9 X 122mm
- 8pc Cone type connector 8 X 40mm
- 4pc Adapters 10 X 53mm (M6 X 0.75)
- 4pc Adapters 10 X 60mm (M6 X 1.0)

 6/20.0/21.0/2.25'  3.33Kg

Professional vacuum & fuel tester set

904G4



- Large 3-1/2" diameter gauge with color-coded easy-reading scales.
- Extra long heavy-duty rubber hose and 14mm/18mm.
- Checks for worn or defective parts in fuel pumps, vacuum system.
- Gauge: Pressure: 0~15 PSI, 0~1 kg/cm²
Vocuum: 0~28 in-Hg (0~70 cm-Hg)

 20/13.0/14.0/1.85'  650g



■ Cylinder leakage tester

902G3



- PSI&BAR percentage gauge
- 26" extra long hose
- Allow you to accurately diagnose engine problems such as bad valves, worn rings.
- Cracked cylinder walls and blown gaskets.
- Works from shop airline and has 14&18mm adaptor fittings to fit most engines.
- Blow-by readings shown in percentages.
- Dual gauges allow mechanic to monitor input line pressure.
- Supplied in plastic blow mold case.
- Gauge: 0~100 PSI 7 bar



 10/11.0/11.5/1.4'  1.1kg

■ Transmission & engine oil pressure tester

912G2



- Designed to check engine oil pressure in automatic transmissions and engines in both cars and trucks.
- With two easy to read dual scale gauges. Both of two gauges with quick set-up. Complete with 6ft(1.8m) of oil proof hose, nine adaptor fittings, and instructions.
- Dual gauge readings:
 - A: 0 to 400psi (0 to 28bar)
 - B: 0 to 150psi (0 to 10bar)
- Gauge diameter: 2.5"



 10/14.0/14.5/1.4'  1.4kg



■ Diesel engine compression tester set (cars)

913G1



- Comprehensive test kit for both direct and indirect diesel injected cars.
- For use on both direct or indirect injection engines.
- Checks engine compression under cranking conditions.
- Small profile, quick coupling adapters for speed & security.
- Built-in pressure relief valve enables repeat tests without dismantling.
- Flexible hose (355mm) gives access to restricted plug & injector ports.
- Dual scale 80mm Dia gauge 0-1000 PSI & 0-70 bar.

 6/16.3/17.3/2'  2720g

■ Diesel engine compression tester set

914G3



- Comprehensive kit for checking compression on both direct and indirect diesel-injected commercial, marine and industrial engines.
- For commercial, marine & industrial engines.
- Checks engine compression when cranking.
- For use on direct or indirect fuel injection engines.
- Built-in pressure release enables complete tests without dismantling.
- Small-profile, quick-release coupling system.
- Dual scale 80mm dia. gauge 0-1000 PSI & 0-70 bar.
- Flexible hose (355mm) to give access in restricted spaces.

 4/20.7/21.7/3.7'

 5180g

■ Diesel compression tester

916G2



- 2-1/2" dial, glycerin filled gauge with glass lens in stainless steel housing 4,500 psi rated nylon jacketed pressure hose assembly.
- Dual scale 0-1,000 psip; Metric scale 0-70 bar. 13 piece adapter set (Deere & BMW adapters included)

 3/15.9/16.9/1.5'

 5300g

■ Diesel engine compression test set

937G1

NEW



- Features 600psi (40bar) gauge with large rubber bumper, straight and right angled quick connect fittings and an extensive range of glow plug and injector adaptors.
- This kit will cover most modern car, van, truck, bus, agricultural and marine engines.
- Glow plug adaptors: Wide range of Alfa, BMW, Chrysler, Daewoo, Fiat, Ford, Hyundai, Isuzu, Land Rover, LDV, Mazda, Mercedes, Mitsubishi, Nissan, Opel, PSA, Renault, Saab, Suzuki, Toyota, VAG, Vauxhall, Volvo diesel engines.
- Injector Adaptors: M20, M22, M24 & Ford Stanadyne Injectors plus Clamp-On Injectors..



■ Diesel engine cylinder leakage test kits

938G1

NEW



- Three diesel engine cylinder leakage test kits that cover the wide range of modern engines ,including HDi, TDCi and Pumpe Duse .
- This kit covers most popular cars and vans, it has additional glow plug adaptors for increased coverage and with further includes an adaptor set for clamp-type injectors to give even wider coverage of car, van, truck and bus, agricultural and marine applications.
- Glow plug Adaptor: Wide range of Alfa , BMW , Chrysler , Daewoo , Fiat , Ford , Hyundai , Izusu , LandRover , LDV , Mazda , Mercedes , Mitsubishi , Nissan , Opel , PSA , Renault , Saab , Suzuki , Toyota , VAG , Vauxhall , Volvo diesel engines
- Injector: M20 , M22 , M24 & Ford Stanadyne injector plus clamp-on injector

■ Common rail injector, return flow pressure measurement tester

912G8

NEW



- For testing the return flow pressure from common rail injectors of Bosch, VDO/Siemens & Delphi engine system. Suitable for testing the condition of a piezo pass or fail statement.

 10/12.6/13.6/1.9'  1260g

■ Return Fuel Volume Tester for Common Rail Injectors

902G8



- Designed for checking the amount of fuel that every injector returns to the tank to find out the damaged injector.
- Can simulate 6 injectors at the same time.

 10/18.0/19.0/1.5'  1.8kg



4pcs Injection nozzle socket

904G13

NEW



- Remove top cap and connector before removing diesel fuel injector.
- Deep and wide configuration.
- Fits virtually all standard injectors for recent motor vehicles.
- 1/2" Dr. Socket can use for Siemens & Bosch injectors.
- Suitable for Peugeot and Citroen with 2.0 engines (110/135HP) HDI engine.
- Sizes: 25, 27, 29, 30mm.
- Length: 100 mm



10/15.0/16.0/1.2'

1488g

4pc Diesel injector socket set

904G3

For use on: ALFA ROMEO, CHRYSLER, BMW, FORD, VW, MERCEDES, AUDI, OPEL, VAUXHALL, SEAT, VOLVO, ROVER also on VOLVO, MAN2.5TD & SCANIA HGVS.



| Diameter | Description | Length |
|----------|--------------------------|--------|
| 22mm | injector socket (6 pt) | 110mm |
| 22mm | injector socket (12 pt) | 75mm |
| 27mm | injector socket (12 pt) | 78mm |
| 28mm | injector socket (12pt) | 78mm |

10/11.4/12.4/0.8'

1.14Kg

Diesel injector puller

9G0114



- Assists removal of stubborn BOSCH and LUCAS diesel injectors, saving time and money when injectors are difficult to remove.
- With M8 /M12 / M14 adaptors
- Applicable: VOLVO, SCANIA



40/16.0/18.0/1.8'

400g



■ Diesel injector nozzle extractor set

903G19

NEW

- Extraction injectors without dismantling the engine.
- Extraction Bosch injectors.
- For CDI engines 2.1 l and 2.2 l.
- Application: Vito, Sprinter, Viano, C and E Class, CLC, CLK.



 6/16/17/1.8'

 2580g

■ Diesel injector nozzle extractor set (PSA HDI engines)

910G3

- Common Rail Injector removal tool set for removal of seized Injectors on Peugeot, Citroen, Suzuki diesel HDI engines.
- Pulling bridge that fits perfectly on PSA cylinder head.
- Special screw system that allows a fast and easy nozzles removal.
- Applicable Engines: PSA 2.0 & 2.2 HDI (110, 135 PS), HDI DW10 and DW12 engines .



 6/22.0/23.0/1.4'

 3660g

■ Diesel injectors remover tool - model FOSI

926G1

- For the extraction of extremely seized injectors.
- With the precisely tailored specification for this job.
- Application designed extractor, the injectors can be extracted hydraulically or mechanically.
- Application: Fiat , Lancia , Alfa , Opel , Suzuki , Ford , Iveco , PSA.



 2/23.0/24.0/1.05'

 11500g

■ Diesel injectors remover for BMW

908G11



- Complete set for removing BMW CR injectors without dismantling the cylinder head.
- Equipped with a blower adapter to clean the injector seats.
- Bosch injectors: common rail injectors mounted on BMW
- Application: BMW Common Rail : M47TU, M57, M57TU.



 2/13.0/13.8/0.9'

 6500g

■ Diesel injectors remover for JTD

9G0119



- Universal injector remover with 4 adjustable feet for JTD diesel engines.
- Remover for common rail injectors.
- Application: FIAT, ALFA, OPEL, SAAB, SUZUKI.

 8/19.0/20.0/1.8'

 2375g

■ Injector puller set for Mercedes CDI

907G11



- For removing adapted tight common rail injectors without having to disassemble cylinder head.
- Applicable: Mercedes - Benz CDI engines 611.612.613, etc.



 6/21.5/22.0/1.0'

 3583g

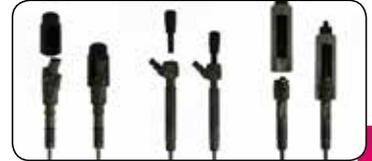


Injector nozzle extractor with spindle

903G17



- This special-designed diesel injector puller set is ideal for the need to remove stubborn diesel injector.
- No need to remove cam cover and the use of slide hammer, either.
- Application: Mercedes C-Class, E-class, Sprinter Vehicles and Chrysler Grand Cherokee 27crd (00).



 12/15.5/16.5/1.1'  1291g

Injector extractor with slide hammer for DB CDI-engines

909G5



- For removing stuck and the seized common-rail injectors without dismount the cylinder head.
- The sturdy construction will enable the swift removal of the most severely seized in injector.
- For Mercedes CDI engines OM 611,612,613 etc and DB CDI-engines.
- Specification: Total length: 350mmL
Slide hammer: 1.75kgs
Adaptor: M17x1
Adaptor: M27x1.0 for Bosch injector nozzle.
Adaptor: Puller w/M12x1.75P



 6/20.0/21.0/1.5'  3333g

VW, AUDI Diesel & gas injection remover tool (TDI & FSI)

912G6



- Use "U" sleeve or two jaws hook to fix the injector and then pull out with slide hammer.
- Special two jaws design to fix the injector and pull out with slide hammer.
- Applicable range: VW, AUDI TDI, AUDI FSI, AUDI, SEAT, SKODA.



 6/22.0/23.0/0.9'  3666g

4pc Diesel injector removal set for Delphi & Bosch

904G9



- Specifically designed for removing Delphi/Bosch diesel injectors using a Slide Hammer with 5/8" UNF thread.
- Adaptors can also be used with an air tool to loosen the injectors by vibration.
- Set of 3 adaptors plus a special tool for removing the internal part of Bosch injectors.

 18/18.5/19.0/1.0'  1027g

33 Teeth socket diesel injection pump for Mercedes

9G0121

NEW



- Multipoint socket for installing and removing the pressure valve holder on the MRSF-ERE fuel injection pump.
- Applications: Mercedes-Benz-diesel engines 601, 602, 603, 605, 606, 615, 616, 617
- Size: 1/2" DR. x 33 teeth



 100/14.0/15.0/1.2'  83g

Diesel pre-chamber collar nut socket for Mercedes

9G0122

NEW



- Spline socket for pre-chamber repair of all diesel engines since 1989.
- Mercedes Diesel Engines 601, 602, 602.91, 603, 604, 605, 606, 661, 662
- Size: 1/2" DR. x 58 teeth



 50/15.0/16.0/1.0'  223g



■ Diesel fuel filter socket (HDi engines)

9G0123

NEW



- Specialist socket required for the removal of diesel fuel filter fitted to 2.0, 2.2 HDi engines.
- Applications: Citroën: C4 2.0 HDi 16v, C4 Picasso 2.0/2.2 HDi, C5/ C8 2.0/2.2 HDi 16V, Jumpy 2.0/ 2.2 HDi
Fiat: Scudo / Ulysse Mk II 2.0 JTD 16V
Ford: Focus/ Focus C-Max/Galaxy/Kuga/S-Max 2.0 TDCi
Peugeot: 307/308/407/607/807/Expert 2.0 HDi 16V
Volvo: C30/C70/S40 Mk II/V50 2.0 Diesel(136 HP)
- Size: 1/2" Dr x 27mm

 100/13.0/14.0/0.6'  139g



■ Diesel injector copper washer removal tool

9G0118



- Collect type - easy to hold the copper washer.
- Size: Inner hole $\phi 7$
- Length: 230mm



 20/16.0/17.0/1.2'  800g

■ Diesel injection pump puller (BMW)

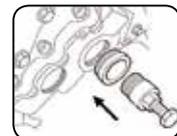
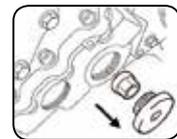
904G7



Large: Pump remover & Sprocket retaining tool covers injection/HP pump removal on BMW models with M74/M47TU and M57/M57TU 2.0 & 3.0 diesel engines.

Small: Pump remover & Sprocket retaining tool covers injection/HP pump removal on LAND ROVER FREELANDER and ROVER 75 model is with Td4 and M47 2.0 engines.

 20/20.0/21.0/0.8'  980g



■ Diesel injection pump puller (BMW)

9G1501

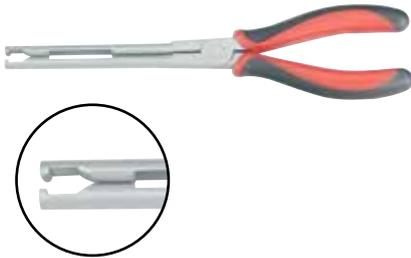


- This tool is specifically designed for holding the sprocket/chain in place when disassembling the VP44 injection pump and high pressure pump.
- Common rail fitted to BMW engines:
318D/COMPACT(E46), 320D/TD COMPACT(46), 330D(E46)
525D(E39), 525D(E60/E61), 530D(E39), 530D(E60/E61),
535D(E60/E61), 730D(E38), X5 3.0D(E53)

 20/11.0/12.0/0.5'  530g

■ Glow-plug connector pliers (Straight)

9G1001

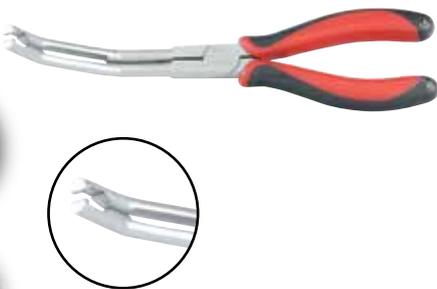


- Designed to remove hard-to-reach glow plug connectors, without damage on the latest diesel engines.
- Applicable: BENZ, BMW, VW, Audi... etc.

 36/10.0/11.0/2.05'  277g

■ Glow-plug connector pliers (Angled)

9G1002



- Special angle designed to remove stubborn and hardly accessible glow plug connectors installed on the latest-generation engines.
- Applicable: BENZ, BMW, VW, Audi... etc.
- Version angled at 90°



 36/10.0/11.0/1.19'  277g



1/4"DR. Glow plug impact socket set

909G6

NEW



- A torque air impact wrench set and designed for the diesel engine glow plugs which hard to removal.
- Special long-reach 8 mm, 9 mm 10 mm, 11 mm and 12 mm sockets for ease of access.
- Also includes: short and long extension, universal joint and special 1/4" air impact wrench.



 6/11.1/12.1/1.4'

 1850g

9pc Pre-heater plug tools

K909G4



- To ream out and clean the bore between the glow plug and pre-combustion chamber.
- Size: M12 x 1.25, M10, pre-heater plugs with 10mm across flats.
- Fasten the glow plug with the correct torque
- 1/4" DR. universal socket size: 8, 9, 10, 12 mm

| Thread Diameter | Tightening Torque |
|-----------------|---------------------|
| 8mm | 8-15Nm(0.8-1.5Kgm) |
| 9mm | 15-20Nm(1.5-2.0Kgm) |
| 10mm | 15-20Nm(1.5-2.0Kgm) |
| 12mm | 20-25Nm(2.0-2.5Kgm) |

 6/9.9/10.9/0.8'

 1650g

3pc Pre-heater plug puller set

903G16



- To ream out and clean the bore between the glow plug and pre-combustion chamber.
- Application : pre-heater plugs with 10mm, glow plug 6 and 7mm.



 24/14.0/15.0/1.6'

 570g

■ Glow plug removal and puller set

916G3



- Simplifies the assembly and disassembly and professional repair of glow plug thread.
- Suitable for most injectors.
- Assembly and disassembly of glow plugs and repair glow plug threads.
- Extractor for fixed glow plugs.
- Step drill to drill out damaged glow plugs 7 x 5.5 mm and 9 x 5.5 mm.
- Taps M8 x 1.0, M10 x 1.0 and 1/4"-28UNF for repairing glow plug threads.
- Tap holder.
- E10 socket .



 10/17.5/18.5/1.6'  1750g

■ 27pc Glow plug tool set

927G3

NEW



- Designed for removal of damaged/broken glow plugs from cylinder heads.
- Suitable for glow plugs with M8-M9-N10 thread.
- Set includes all required adaptors, centering and cleaning tools to safely removal glow plug without damaging engine.



■ 33pc Glow plug thread repair set

933G1

NEW



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



 10/17/18/1.5'  1700g



■ Diesel injector seat cutter set

906G1



- This kit has been specially designed for the clean and re-cutting of injector seats on modern common rail diesel engines.
- The kit includes 4 seat cutting reamers for BOSCH, DELPHI and universal application along with a special angled reamer for IVECO/ FIAT applications.

 36/20.0/21.0/1.2'  570g

■ Diesel injector seat cutter set

907G7



- This kit has been specially design for cleaning and re-cutting injector seats on modern common rail diesel engines.
- 15mm flat reamer for universal injector.
- 17mm flat reamer for DELPHI / BOSCH injectors (BMW / PSA / RENAULT / FORD)
- 19mm flat reamer for BOSCH injectors (MERCEDES CRD)
- 19mm angled reamer for FIAT / IVECO.
- T handle, Pilot post

 20/19.2/19.7/2'  950g

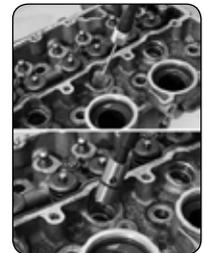
■ Injector sealing seat cleaning & milling set

921G2

NEW



- This is the optimized version of the cleaning and milling tool set.
- The advantages are clearly obvious.
- Can be used with HDI engines, diesel direct injection and common rail engines with BOSCH and DELPHI injectors.
- Shaft cleaning by brushes with machine drive, sealing seat cleaning with cutter 120° Ø21mm; 17mm stepped, miller 0° Ø17mm continuous, miller 0° Ø19mm; 17.0mm; 15.0mm stepped.



 10/17/18/2.5'  1700g

Valve spring compressor

62101



- For large engines, most suitable for commercial vehicles and general garage use.
- Jaw opening 70-200mm, Throat clearance 250mm.



 8/26.4/27.4/1.7'

 3.3Kg

Valve spring compressor

62102



- For overhead cam engines, specially designed for O.H.C. engines.
- Jaw opening 60-155mm, Throat clearance 150mm.



 12/19.6/20.6/1'

 1630g

Valve spring compressor

62103



- For small and medium engines.
- Jaw opening 68-130mm, Throat clearance 150mm.



 10/12.2/13.2/0.5'

 1220g

Valve spring compressor

62104



- For multi-valve petrol and diesel engines, specially designed for difficult access and deep-seated multi-valve cylinder heads.
- Jaw opening 45-145mm, Throat clearance 240mm.



 6/15/16/0.9'

 2650g

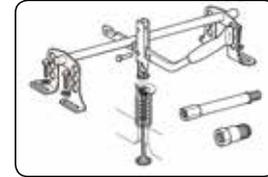


Valve spring compressor

62105



Universal overhead cam Applying for most popular cars engines, including AUDI, CHRYSLER, INFINITI, HONDA, HYUNDAI, LEXUS, MAZDA, MITSUBISHI, NISSAN, PORSCHE, SATURN, TOYOTA, VOLVO and VOLKSWAGEN.



 5/17.5/18.5/2'

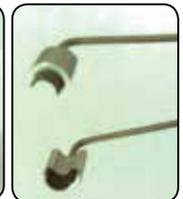
 3.5Kg

Valve spring compressor repair kit

62113



- Completes service tool kit for OHV & OHC petrol or diesel engines.
- Use on AUDI, NISSAN, TOYOTA, CHRYSLER, HONDA, MAZDA, MITSUBISHI, PORSCHE, VOLVO, VW.



 5/20.5/21.5/2.4'

 4050g

Universal valve-spring compressor tool

908G7



- Suitable for the replacement of valve springs and valve stem oil seals without the need to remove the cylinder head
- Application: Opel, BMW, Seat, VW, Audi, Hyundai, Toyota, Ford 16V, Renault 19 and Clio.

 10/18.0/19.0/1.7'

 1600g

Valve spring compressor

62106



- Compresses overhead valve springs with rocker arm studs.
- This tool can be used with the head either on or off the engine.
- Jaws adjust to fit most overhead valve engines.
- Adjustable handle allows for clearance in tight areas.



 24/17.8/18.8/2.1'

 740g

■ Valve spring compressor

62107



- Capacity 55-175mm, throat clearance 165mm designed for use on Multi-Valve Petrol and diesel engines with deep Seated valves.
- Collet release adapters:
Restricted access adapter, 25mm, 30mm
- Suitable for general use on a wide
- Range of OHC, OHV, and CVH engines. Universal model with unique
- Dual cam-action, parallel lift, and Automatic locking. reversible Jaw/ Adaptor.



 10/16.5/17.5/1.2'  1.65Kg

■ Valve spring compressor

62108



- For large engines & diesel engines
- Unique 'Direct Action' compressor lever gives improved visibility & ease of use in areas of difficult access.
- Collet release adapters: Restricted access adapter, 25mm, 30mm
- Jaw opening 35-142mm, Throat clearance 150mm.



 10/19.8/20.8/1.2'  2Kg

■ Overhead valve spring compressor

62109



- For use on a wide range of OHV OHC and CVH engines but not suitable for use on engines with deep seated valves.
- Allows valve springs and valve stem oil seals to be replaced with the cylinder head.
- Features a reversible JAW/ADAPTOR and an automatic cam-action locking to a pre-determined setting.



 20/17.5/18.5/2.1'  875g



Valve spring compressor

62110



- These tools are designed to compress and release valve spring after removing the collets. Pantograph-type levers ensure a consistent coaxial contact with the valve.

Contents:

- 3pc Driving adaptor: 16; 19; 23; 25; 30 mm
- 3pc pressure screw: 70mmL; 110mmL; 120mmL
- 1pc C Clamp



 10/21.5/22.5/2.2'  2150g

Valve spring compressor

62112



- Remove and install valve springs with the heads on or off the engine.
- Fits 3/8" and 7/16" rocker studs.
- Handles springs of 1" -2" diameter.
- Press down to compress coil spring, then remove valve keepers and release slowly.



 24/29.0/30.0/1.8'  1.2Kg

Universal valve lifter

903G3



- For L-head and valve-in-head automotive, truck, tractor, bus and marine engines.
- Easily adjusted with a pin-operated screw to valve spring length.
- Powerful leverage with cam locking handle. Release of spring controlled by one hand lets the operator use the other hand safely to hold the locks on the valve stem.
- Works with it on L-head valves : height 10-1/2" (267mm), width 9-3/4" (248mm). capacity 1" to 2-1/2" (25-63mm) diameter valve springs.
- Includes the following three (3) pairs of spring holding jaws: 7/8"(22mm) Dia.; 1" to 2" (25-51mm) Dia.; 1-1/2" to 2-1/2" (38-63mm) Dia.
- Jaw opening 80-240mm, Throat clearance 230mm.



 5/22.4/23.4/3.6'  4.5Kg

3pc Valve keeper installing & pick-up tool set

903G1



- This tool holds the valve keepers in its magnetic jaws so you can easily maneuver the keepers into the valve stem grooves for installation.
- Easily reaches into recessed spring pocket to retrieve released valvekeepers.
- Retrieves small parts from any recessed or hidden area.

Contents:

- 3 pcs valve keeper installing tool
- Flexible magnetic pick-up tool



 48/15.4/16.4/0.6'  320g

10pc Universal valve adjustment tools

910G1



- For use on all 10mm, 12mm, 13mm, 1/2" & 9/16" jam nut adjustment screws.
- This universal valve adjustment tool has been designed for a wide variety of cars with 10mm, 12mm, 13mm, 1/2" and 9/16" jam nut valve adjustment screws.
- This two-in-one tool features a window in its socket so the technician can see the position of the screwdriver blade holding the adjustment screw as the jam nut is tightened.
- This visual contact in addition to the feel of holding the screwdriver allows for a quicker valve adjustment as the technician can hold the adjustment screw exactly where he wants it to be.



 6/13.0/14.0/1.8'  2170g

Valve seal removal & installer kit

911G2



- Work on valves still seated or removed.
- Precision-machined seal driving adapters guide the seal for proper setting.

Contents:

- 1pc Valve stem seal pliers
- 1pc Drive handle 6" (150mm)
- 2pc Deep seal driving sockets for seals O.D. 10.8-14.8mm.
- 7pc Seal driving adapters fit seals 5mm, 5.5mm, 6mm, 6.6mm, 7mm, 8mm, 3/8"



 10/17.4/18.4/2.1'  1740g



Valve stem seal ring pliers

9G0102



- Long neck designed to reach into confined area of the seal to grip it for removal.
- Gripping serration allows them to grasp both original equipment & aftermarket seals regardless of the configuration.



 72/27.4/28.4/2.6'  380g

Extra long valve stem seal ring pliers

9G0103



- For removing valve stem seals in multi-valve engines.
- Jaw longitudinal-toothed avoiding slipping down.
- For deeply levelled valve stem seals.

 72/27.6/28.6/2.6'  380g

Valve shim remover

9G0402



- For overhead camshaft engines which use space shims.
- Applicable: Opel, Volvo and some other European cars.



 36/16.0/17.0/1.3'  450g

Valve adjusting tool (NISSAN)

9G0403



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



 60/18.0/19.0/1'  300g

Valve adjusting tool (TOYOTA)

9G0404



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



 60/18.0/19.0/1'

 300g

Valve refacing and seating tools

915G3

NEW



- Precision machined Tungsten carbide blades produce valve seats with: Accurate seat angle / Superior seat surface / True, Flat seal / Seats concentric with valve guide
- Application:
 - Cutter Ø52-Ø65 75° and 60°
 - Cutter Ø46-Ø60 45° and 30°
 - Cutter Ø44-Ø52 75° and 30°
 - Cutter Ø37-Ø46 60° and 45°
 - Cutter Ø37-Ø44 75° and 30°
 - Cutter Ø28-Ø37 75° and 45°



5pcs Expandable pilot Ø5.5-Ø12.5 "T" handle drive

 10/18/19/1.5'

 1994g

Vacuum cup valve grinder

902G7



- For grinding flat head, un-slotted valves.
- 1-1/8" and 1-3/8" diameter cups for larger valves.
- 5/8" and 13/16" diameter cups for smaller valves.



 108/16.0/17.0/2.9'

 100g



■ Air valve lapper

62114



- 1pc Air valve body
- 1pc 40mm suction rubber cap
- 1pc 35mm suction rubber cap
- 1pc 30mm suction rubber cap
- 1pc 20mm suction rubber cap



- Apply five or six droplets oil or motor oil to the air valve lapper through its air inlet port. (It is recommended to apply oil from time to time to the valve lapper even during the operation, if the lapper is used continuously for an extended period of time.)
- It's advisable to set air pressure at 6 to 8 kg/cm². (85 psi to 100 psi)

 12/17.0/18.0/1.2'  1730g

■ 9pc Offset feeler gauge

61803



- Size: 0.009"; 0.015"; 0.016"; 0.017"; 0.018"; 0.019"; 0.020"; 0.021"; 0.026"
- Decimal sizes and metric equivalents on each blades.
- Blades LxW: 4" x 1/2" (100 x 13mm)



 100/10.4/11.4/1.1'  104g

■ Torque angle meter (clip)

9G1801 / 9G1801A



- **9G1801** is used with 1/2" DR.
- **9G1801A** is used with 3/4" DR.
- Commonly used for tightening head bolts and other bolts where a torque angle is required.



 24/12.1/13.1/2.1'  500g

Torque angle meter (magnetic)

9G1802 / 9G1802A



- **9G1802** is used with 1/2"DR.
- **9G1802A** is used with 3/4"DR.
- Commonly used for tightening head bolts and other bolts where a torque angle is required.

24/11.3/12.3/2.1' 495g

1/2"DR.100mm Cylinder head bolt tool (M9,M9.5,M10,M12,M14)

348100..

- Size : M9 , M9.5 , M10 , M12,M14
- 1/2" DR. 100mm.
- For cylinder head bolts.



| | | <i>l</i> | | |
|-----------|------|----------|-----|---|
| Part no. | Size | mm | g | Applications |
| 34810009 | M9 | 100 mm | 95 | VW Golf / Jetta / Audi A4 , TT , A8 / Mercedes Benz M102, 103, 104, 110, 116, 117, 119, 120, 615, 616, 617 / TOYOTA MR2 |
| 348100095 | M9.5 | 100 mm | 102 | FIAT |
| 34810010 | M10 | 100 mm | 108 | VW / Audi / Vauxhall / Opel / Mercedes vans / Ford |
| 34810012 | M12 | 100 mm | 151 | TOYOTA Tercel / Mercedes-Benz / New Beetle / Ford / GM / Volkswagen Audi Group |
| 34810014 | M14 | 100 mm | 187 | Volkswagen / Ford / Chrysler / Rover |

M10S Cylinder head bolt tool

34914010V

- 1/2" Drive, 140mm.
- Special for Audi engines, and VW-PASSAT cylinder head screws.



100/13.4/14.4/1.5' 134g



1/2" DR. 150mm Cylinder head bolt tool (E12)

54615012B

- For BMW cylinder head bolts.
- Applications: BMW M42, M43, M44, M50, M52, M60, M62.



| Part no. |  socket | <i>l</i> mm |  g |  pc/box |
|-----------|--|----------------|---|--|
| 54615012B | E12 | 150 | 152 | 10 |

Cylinder head holders set

9G0604

- Sturdy stand holds cylinder heads safely and securely while cracks are repaired.
- Seats are ground, carbon removed, guides knurled and reamed.
- Ample clearance under heads for knurling and reaming valve guides.



 20/20.0/21.0/1.1'  1Kg

Cylinder base surface rectifier

9G0610

- Straight edge works for precision check the cylinder damage or not.
- Length: 600mm
- Width: 16mm
- Height: 36mm



 5/12.2/13.2/0.42'  2450g

4pc Multi-purpose scraper set

904U1



- This set includes a select of multi-purpose scrapers ideal for a variety of general automotive applications.
- Contains 2pc 3M imperial wetordry paper A Wt.
- Short blades ideal for scraping hard-to-reach carbon deposits.
- Long blade used to scrape engine blocks and heads.
- Rigid carbon scrapers.



 10/11.8/12.8/1.6'  1180g

5pc Scraper set

905M3

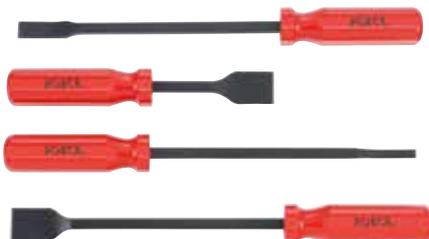


- 1 pc 12''(305mm) multi-purpose scraper, blade 1'' (25.4mm) wide.
- 1 pc 12''(305mm) multi-purpose scraper, blade 3/4''(19mm) wide.
- 1 pc 7-1/2''(195mm) multi-purpose scraper, blade 1'' (25.4mm) wide.
- 1 pc 7-1/2''(195mm) multi-purpose scraper, blade 5/8'' angled.
- 1 pc 7-1/2''(195mm) multi-purpose scraper, blade 9/16'' angled

 12/10.5/11.5/1.55'  875g

4pc Scraper set

904M4



- 1 pc 12''(305mm) multi-purpose scraper, blade 1'' (25.4mm) wide.
- 1 pc 12''(305mm) multi-purpose scraper, blade 1/2''(12.7mm) wide.
- 1 pc 12''(305mm) multi-purpose scraper, blade 1/4'' (6.35mm) wide.
- 1 pc 7-1/2''(195mm) multi-purpose scraper, blade 1'' (25.4mm) wide.

 12/9.5/10.5/1.55'  791g

3pc Scraper knife set

903M1



- Size 15, 20, 30 mm
- Stainless steel, heat treatment of knife
- High grade wooden grip
- Sharp tip



 72/14.2/15.2/2.1'  200g



Engine cylinder hone

9G0901



- Flexible shaft with an adjustable honing tension capacity: 2" ~ 7"
- Stone size: 100 x 10 x 8mm (3pc) (Stone item number : **9G0901S**)
- Sleeve makes insertion in cylinder easy and protects stones when not in use.
- Collar prevents stone breakage.
- Fine surface stones: **9G0901SF**
- Coarse surface stones: **9G0901SC**

24/17.0/18.0/2.5' 680g



Engine cylinder hone – four Stone

9G0903



- A rigid cylinder hone has four stones, or blades, each mounted in a carrier.
- Carrier can be expanded by a turning nut at the top of the hone.
- Adjustable honing tension capacity : 75~110 mm.
- Stone item number: **9G0903S**
- Fine surface stones: **9G0903SF**
- Coarse surface stones: **9G0903SC**

Brake / Engine cylinder hone

9G0902



- Flexible shaft with an adjustable honing tension capacity: 3/4" ~ 2-1/2"
- Stone size: 28.5 x 5 x 3mm (3pc) (Stone item number : **9G0902S**)
- Sleeve makes insertion in cylinder easy and protects stones when not in use.
- Collar prevents stone breakage.
- Fine surface stones: **9G0902SF**.
- Coarse surface stones: **9G0902SC**.

72/8.5/9.5/1.6' 120g



Piston ring service tool set

911G3



- Piston ring compressor w/ratchet key
H:3"(53-125mm), H:3-1/2"(90-175mm),
H:4"(90-175mm)
- Piston ring tool capacity: 50-100mm
- Piston ring groove cleaning
Fits: 2"-5"(51 to 127mm)
Blade 1 size: 1/16" to 3/16"
Blade 2 size: 2.0mm to 4.5mm, 1/4"
Blade 3 size: 1.2mm to 5.5mm
- Offset screwdrivers: ⊕ ⊖

6/15.8/16.8/2.9' 2630g



■ Piston ring compressor

62001



- Install pistons from 2-7/8" to 4-3/8" (73-111mm)
- Ratcheting lock allows the bands to compress in small increments.
- Can be used parallel or perpendicular to the cylinder block.
- Set includes pliers and 6 bands.

• **Contents :**

- 1pc Ratchet pliers
- 1pc Band size 2-7/8" to 3-1/8"
- 1pc Band size 3-1/8" to 3-3/8"
- 1pc Band size 3-3/8" to 3-5/8"
- 1pc Band size 3-5/8" to 3-7/8"
- 1pc Band size 3-7/8" to 4-1/8"
- 1pc Band size 4-1/8" to 4-3/8"



 8/10.9/11.9/1'

 1487g

■ Piston ring compressor

62006

NEW



- Install pistons from 2-7/8" to 4-3/8" (73 - 111mm) and 4-7/8" to 5-1/8" (124 - 130mm)
- Ratcheting lock allows the bands to compress in small increments.
- Can be used parallel vertically perpendicular horizontally.
- Set includes pliers and 7 bands.

• **Contents :**

- 1pc Ratchet pliers
- 1pc Band size 2-7/8" to 3-1/8"
- 1pc Band size 3-1/8" to 3-3/8"
- 1pc Band size 3-3/8" to 3-5/8"
- 1pc Band size 3-5/8" to 3-7/8"
- 1pc Band size 3-7/8" to 4-1/8"
- 1pc Band size 4-1/8" to 4-3/8"
- 1pc Band size 4-7/8" to 5-1/8"

 8/11.4/12.4/1'

 1425g

■ Piston groove cleaner

62003



- Designed for cleaning the piston slots.
- Piston slot size: 2, 2.5, 3, 3.5 mm

 40/24.4/25.4/2.1'

 570g



■ Piston ring compressor

620



| Part no. | mm | l inch | Packing | g |
|----------|--------|-----------|-------------------|-----|
| 6202080 | 40-80 | 2 | 50/7.8/8.8/1' | 156 |
| 6203125 | 53-125 | 3 | 50/15.5/16.5/1.3' | 310 |
| 6203175 | 90-175 | 3 | 50/17.9/18.9/1.3' | 365 |
| 6204125 | 90-125 | 4 | 50/16.7/17.7/1.3' | 335 |
| 6204175 | 90-175 | 4 | 50/18.9/19.9/1.3' | 380 |
| 6206175 | 90-175 | 6 | 20/12.0/13.0/1.6' | 600 |



■ Piston ring pliers

623



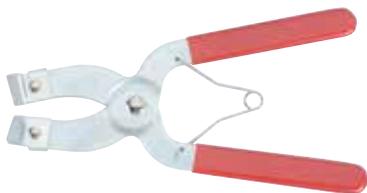
• **62302** is applied to truck.

| Part no. | Packing | w mm | l inch | g |
|----------|-------------------|---------|-----------|-----|
| 62301 | 50/15.0/16.0/2.2' | 55-100 | 3 | 330 |
| 62302 | 50/18.5/19.5/3' | 110-160 | 3 | 420 |
| 62303 | 50/8.5/9.5/2.2' | 80-120 | 2.5 | 170 |



■ Piston ring installer

62002



- Save by reducing ring breakage.
- Tapered jaws to remove and install most passenger car and light truck rings from 3/64" to 1/4" (1.2mm ~6.3mm)



144/18.0/19.0/2' 135g

■ Chain oil filter wrench (1/2" DR.)

61901



- 1/2" sq. driver or 13/16"(21mm) open end spanner.
- Suitable for filters up to 120mm diameter.



72/18.9/19.9/2.6' 262g

Chain locking pliers

61901A



- Cr-Mo jaw and handle
- Welded with a 18" chain

 20/16.5/17.5/1.1'  825g

Filter chain wrench

61911



- Suitable for filter up to 40mm - 120mm diameter.

 60/22.0/23.0/0.82'  410g

20" Chain wrench

61914



- 20" chain

 20/20.0/21.0/0.78'  1kg

Oil filter strap wrench

619



| Part no. |  Packing | <i>l</i> mm |  g |
|----------|---|----------------|---|
| 619 | 60/18.7/19.7/3' | 150 | 310 |



Truck strap oil filter wrench

61902



- The heavy-duty strap can handle any filter up to 6”(150mm) diameter.
- The support pad helps the grip of the filter without crushing it.
- The more leverage applied, the tighter it grips.
- Use with any 1/2” power bar.
- Capacity: 6”(150mm).

 48/17.9/18.9/1.4'  372g



Strap oil filter wrench (1/2” DR. & 3/8” DR.)

61903



- This robust quality strap wrench is capable of removing filters up to 300mm diameter on cars, vans and trucks.
- The design of this wrench makes it ideal for areas where clearance is restricted.
 - The dual drive allows you more flexibility. Besides, the wrench can be used in conjunction with a 13/16”(21mm) open spanner.

 40/16.3/17.3/2.8'  408g

Three-legged oil filter wrench

61904



- Removes all oil filters from 2-1/2” to 4-5/16” (65mm to 110mm) in diameter.
- Used with 3/8” square drive tools.

 36/21.3/22.3/1.2'  590g



Three-legged two way oil filter spiral wrench

61904A



- Fits 1/2” & 3/8” Square Drive Ratchet Handle
- Operated By 21 mm Hex Adaptor: 1/2” Sq. X 3/8” Sq.
- All Chrome Plated. 3-Leg Two Way Operated Range: 63 ~ 102 mm.

 36/15.0/16.0/1.2'  415g



Filter wrench

9B0701 / 9B0702



- Steel jaw grips filter without slipping.
- Use with 3/8" drive.
- The large range enables 9B0701 to fit most standard size filters from 2-1/2" to 3-1/8" (60m/m-80m/m)
- The large range enables 9B0702 to fit most standard size filters from 3-1/8" to 3-7/8" (80m/m-98m/m)



| Part no. | Packing | g |
|----------|-------------------|-----|
| 9B0701 | 48/18.1/19.1/1.7' | 380 |
| 9B0702 | 48/18.7/19.7/1.7' | 380 |

Filter wrench

9B0703 / 9B0703A / 9B0703B



- The tool with serrated design for better grip on oil filter during removal / installation.
- Use with 1/2" DR. or 21mm wrench.



| Part no. | Range mm | Packing | g |
|----------|----------|--------------------|-----|
| 9B0703 | 60-80 | 30/14.3/15.3/0.55' | 475 |
| 9B0703A | 80-120 | 15/13.7/14.7/0.48' | 913 |
| 9B0703B | 110-140 | 15/13.7/14.7/0.58' | 913 |

Self-gripping oil filter wrench

9B0704



- 1/2" DR.
- Suitable for filter 95-165 mm.

10/14.0/15.0/0.81' 1.4Kg



Self-gripping oil filter wrench

9B0704A



- 1/2" Drive
- Suitable for filter 80-120mm

 36/19.3/20.3/1.2'  536g

Three-legged oil filter wrench

61913

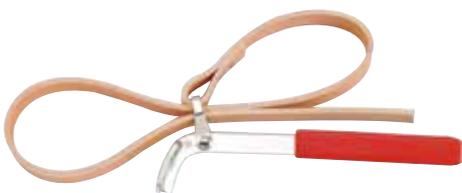


- 3-leg, 1-way, fit 1/2" square drive
- Capacity 75 ~ 130mm (3" to 5-1/8")

 24/24.0/25.0/1.1'  950g

Strap oil filter wrench

61908



- With non-slip rubber-fabric strap
- Especially suitable for plastic pipes
- Strap length: 420 mm
- Capacity: 130 mm diameter

 48/16.2/17.2/2.2'  338g

Strap wrench

61912



- 12" Aluminum handle
- 34" Strap

 50/16/17/1.6'  320g

Adjustable oil filter wrench

61909

- Capacity: 80-110 mm diameter



 50/17.5/18.5/4.83'  350g

Heavy-duty oil filter wrench

61905

- Wide steel bank designed to meet the high torque requirement of truck, bus, RV and heavy duty equipment filters.
- Used with 1/2" square drive tools.



| Part no. |  Packing | <i>l</i> mm |  g |
|----------|---|-------------------------------------|---|
| 61905120 | 36/24.8/25.8/3.0' | 4-1/8" to 4-3/4" (105mm - 120mm) | 690 |
| 61905135 | 36/25.2/26.2/3.0' | 4-1/2" to 5-1/4" (115mm - 135mm) | 700 |
| 61905145 | 36/25.6/26.6/3.0' | 5" to 5-3/4" (125mm - 145mm) | 710 |

Swivel handle oil filter wrench

61906



| Part no. |  Packing | <i>l</i> mm |  g |
|----------|---|------------------------------------|---|
| 61906073 | 36/12.0/13.0/2.6' | 2-3/8" to 2-7/8" (60mm - 73mm) | 335 |
| 61906085 | 36/13.4/14.4/2.6' | 2-7/8" to 3-3/8" (73mm - 85mm) | 372 |
| 61906095 | 36/14.0/15.0/2.6' | 3-3/8" to 3-3/4" (85mm - 95mm) | 389 |
| 61906111 | 36/14.7/15.7/2.6' | 3-3/4" to 4-3/8" (95mm - 111mm) | 408 |



Oil filter wrench

61910



- Spring steel strip
- Aluminium diecast

| part no. | Capacity mm | g |
|----------|----------------|-----|
| 61910 | 65-110 | 210 |
| 61910L | 110-155 | 230 |



* Spare diecast (band) available, 61910-D/61910L-D

Oil filter pliers

639



| Part no. | Size mm | Packing | <i>l</i> inch | g |
|----------|------------|-------------------|------------------|-----|
| 639250 | 60-90 | 60/21.2/22/2.1' | 10 | 354 |
| 639300 | 85-115 | 60/22.7/23.7/2.5' | 12 | 379 |
| 639365 | 100-140 | 20/11/12/1.1' | 14 | 550 |

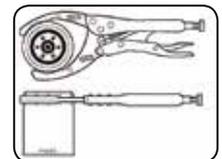


Oil filter master pliers

639230



| Part no. | Size mm | Packing | <i>l</i> mm | g |
|----------|------------|-------------------|----------------|-----|
| 639230 | 53-118mm | 40/19.5/20.5/1.7' | 230 | 480 |



Oil filter wrench -27mm

61927

NEW



- This oil filter housing removal for the removal and installation of the specified difficult to access oil filter covers.
- Application:
FORD / PSA 2.0 L Durotorq TDCI / HDI (DW10C) and 2.2 L Durotorq TDCI / HDI (DW12C) diesel engines - S Max, Mondeo, Galaxy, Euro 6 compliant engines from 2010 onwards.

30/19/20/1.5'

680g

Cup type oil filter wrench set

61915 / 61916 / 61917

61915



6/18.5/19.5/2'
 3200g

61916



5/18.2/19.2/2.4'
 3940g

61917



3/21/22/3.2'
 7060g



| 61915 | 61916 | 61917 | SPCS | Applicate |
|-------|-------|-------|---------------------------|--|
| | ● | ● | 66mm/6P | Flat (Punto, 1.2) Renault (Clio 1.2 Express, Kangoo, Twingo) etc... |
| ● | | ● | 65mm/14P | Fits Champ, Hastings. GM/AC, Wix, Napa, Purolator, Daihatsu, Toyota, Nissan, etc... |
| ● | | ● | 65~67mm/14P | Fits same filters as made in Canada including PH4386, PH4967, PH6017, PH6018. Daihatsu. etc... |
| ● | | ● | 68mm/14P | Fits Hastings, Mazda, Ford Escort, Capri, Subaru, Fran PH6607 (those fram filters made in Korea, motorcraft FL816 etc... |
| ● | | ● | 73mm/14P | Fits Toyota / Lexus, etc... |
| | | ● | 74mm/15P | Fits MF, Audi, #056-115-561g, GM, Rover, Chrysler. etc... |
| ● | ● | ● | 74~76mm/15P | Fits Fram, AC, Saturn, etc... |
| ● | | ● | 75~77mm/15P | Fits VW, Audi, Casite, GM / AC, Hastings, Wix, NAPA Ford. Isuzu Mercedes, Opel, etc... |
| | ● | ● | 76mm/12P | Fiat (z.B. Ducato, Scudo, Ulysee), Renault (Megane, Laguna, Espace III) etc... |
| ● | ● | ● | 76mm/14P | Fits Champion, Champ Lee, Purolator, Mopar, VW, Porsche, Mercedes Benz, BMW, Audi, (I.B.A3TD) Opel. etc... |
| ● | | ● | 76mm/30P | Fits Motorcraft only-FL400A, Ford. etc... |
| | ● | ● | 76mm/8P | Fiat (z.B.Marea), Lancia (z.B.Delta) etc... |
| | | ● | 78mm/15P | Fits Nissan # 15208H8991, Ford, Toyota, Accord, etc... |
| ● | | ● | 80mm/15P | Fits Hastings, Fram, Purolator, Nissan, Honda, Motorcraft, Mazda, Isuzu, Subaru, Opel, Toyota, etc... |
| ● | | ● | 80~82mm/15P | Fits Wix filters. Branded for: Mazda, Subaru, Toyota, Honda, Acura, Nissan, NAPA, etc... |
| | ● | ● | 86mm/16P | Volvo (C40, S60, S70, S80) etc... |
| | ● | ● | 86mm/18P | VW, Golf (MKIII, Tdi, Passat Tdi), Audi A6 Tdi, Renault (Clio, Rapid 1.9D Laguna, Safrane, Espace 2.1D), Cifroen, Peugeot, Renault, etc... |
| ● | | ● | 90mm/15P | Fits Honda Accord, Mitsubishi, Mopar, Isuzu etc... |
| | ● | ● | 92mm/10P | Fiat, Cinquedento, Coupe, Croma, Fiat, Panda, Regata, Ritmo Fiat, Seicento, Tempra, Tipo, Lancia (Beta, Dedra, Kappa, Monte, Carlo, Prisma, Thema, Trevi) etc... |
| ● | ● | ● | 93mm/15P | Fits Casite, Champ, Champion, GM, Fram, Hastings, Opel, Mazda, Volvo, Mitsubishi, Purolator, Wix, Nissan, VW, Porsche, Renault Ford, Honda, Audi, etc... |
| ● | | ● | 93mm/36P | Fits Motorcraft only-FL1A, FLA1B, FL300, FL820, Ford, etc... |
| | ● | ● | 93mm/45P | VW-Audi. (Tdi 2.4.2.6.2.8L) etc... |
| | | ● | 95mm/15P | Toyota # 15600-41010, Alfa, GM, Ford, ALFA, Chrysler, etc... |
| | ● | ● | 96mm/18P | Audi (A4, A6. Tdi), VW (Passat 97 Tdi) Renault (Laguna 2.2d, Safrane 2.2D.) Espace 2.2D, R19, Rapid, Megane 1.9 / 2.1D.TDi) etc... |
| ● | | ● | 100mm/15P | Fits fram, Motorcraft, wix, Isuzu and Mitsubishi, etc... |
| | ● | ● | 106mm/15P | Fiat (Ducato 2.5D. Td) etc... |
| | ● | ● | 108mm/15P | Volvo (C70, S70, V70. Tdi. TD) (Turbo. Diesel. 850 Tdi. Diesel) etc... |
| | ● | ● | 108mm/18P | Renault (Espace, Laguna, Master, Safrane, Traffic 2.4, 2.5, 2.8D,TD) etc... |
| | ● | ● | Two way oil filter wrench | |
| ● | ● | ● | Adaptor | |



Oil filter wrench

631

- Can operate with 1/2" drive.



| part no. | mm | Pt. | Application |
|----------|-----|-----|-------------------------------------|
| 6316514 | 64 | 14 | TOYOTA, NISSAN |
| 6316714 | 67 | 14 | FORD, MAZDA |
| 6317314 | 73 | 14 | TOYOTA, NISSAN |
| 6317330 | 73 | 30 | GM, FORD |
| 6317315 | 73 | 15 | GM, FORD, MITSUBISHI |
| 6317414 | 74 | 14 | BMW, AUDI, WOLKSWAGEN, OPEL, AUSTIN |
| 6317408 | 74 | 8 | FIAT |
| 6317415 | 74 | 15 | GM, CHRYSLER, ROVER |
| 6317515 | 75 | 15 | GM, CHRYSLER |
| 6317612 | 76 | 12 | FORD, MAZDA |
| 6317815 | 78 | 15 | NISSAN, TOYOTA, HONDA ACCORD |
| 6317915 | 79 | 15 | DAIHATSU, FORD |
| 6318418 | 84 | 18 | PEUGEOT, CITROEN, RENAULT |
| 6318614 | 86 | 14 | MAZDA, MITSUBISHI |
| 6318915 | 89 | 15 | HONDA, MITSUBISHI |
| 6319115 | 91 | 15 | TOYOTA, NISSAN |
| 6319112 | 91 | 12 | CITROEN, PEUGEOT, RENAULT |
| 6319115B | 91 | 15 | GM, FORD, CHRYSLER, LANCIA, FIAT |
| 6319215 | 92 | 15 | HONDA, TOYOTA |
| 6319515 | 95 | 15 | GM, FORD, CHRYSLER, ALFA |
| 63110115 | 101 | 15 | DAIHATSU, MAZDA, MITSUBISHI, TOYOTA |

Oil filter wrench for Toyota / Lexus

631B02

NEW



- Special designed for plastic oil filter cap of Toyota and Lexus
- Size: 3/8"DR. , 64.5 mm, 14PT
- Applicable: Allion, Auris, Corolla axio, Corolla fielder, Corolla rumion, Isis, Ist, Noah, Premio, Prius, Wish, RAV4, Yaris, ES350, GS300, GS350, GS450h, IS250, IS350, LS460, LS600h, RX350



4pc Oil filter cap wrench set

61920A



- 3/8" Square drive.
- Size: 27mm, 32mm, 36mm, 38mm
- Applicable: MERCEDES, VAUXHALL/ OPEL, BMW, FORD.



 20/15/16/0.65'

 750g

5pc Oil filter cap wrench set

61920B



- 3/8" Square drive.
- Size: 24mm, 27mm, 32mm, 36mm, 38mm
- Applicable: CADILLAC, MERCEDES, VAUXHALL/ OPEL, BMW, FORD.



 20/16/17/0.65'

 800g



3pc Cap oil filter wrench

61920



- 3/8" Square drive.
- Size: 27mm, 32mm, 36mm
- Applicable: MERCEDES, VAUXHALL/ OPEL, BMW, FORD.

 20/12/13/0.65'

 600g

3pc Cap oil filter wrench

61921



- 3/8" Square drive.
- Size: 27mm, 32mm, 36mm
- Applicable: MERCEDES, SMART, GM, VAUXHALL/ OPEL, BMW, FORD, VW, MINI COPPER.



 36/19.4/20.4/1.5'

 540g

9pc Cup type oil filter wrench kit

61922



- Use with 3/8" DR. or 21mm wrench.
- Size: 27/6P, 32/6P, 36/6P, 76/14P, 75.6/14P, 86/16P, 76/12P, 93/15P
- With a specialized 21mm wrench
- Suitable for Benz, BMW, Volvo, VW, Fiat, Renault, Honda, Mazda, Nissan, Toyota, etc.



 10/19.9/20.9/2.3'

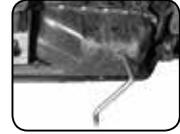
 2Kg

8 & 10mm Oil service wrench

9U0706



Chrome-vanadium, chrome-plated with 8 and 10 mm outside square drive for various French passenger cars, oil drain plug on oil pan, gearbox, differential.



 50/17.3/18.3/1.84'  344g

8 & 8mm Oil service wrench

9U0710



Chrome-vanadium, chrome-plated with 8 and 8 mm outside square drive for various French passenger cars, oil drain plug on oil pan, gearbox and differential.

 50/12.8/14.6/1.6'  255g

Composite drain key

890220



- Size: 8.7mm, 9.5 mm, 10.5 mm, 11.5 mm, 13 mm, 6.8 mm, 15.2 mm, 16.5 mm, 19.7 mm
- Length: 220mm

 20/8.8/9.8/0.56'  440g

5pc Fill / Drain plug key set

5051



Contents:

- 5-Fill / drain plug key
- 5051-1 17mmHex - 14mmHex
- 5051-2 10mmHex - 12mmHex
- 5051-3 9mmHex - 5/16"Hex
- 5051-4 8mmSq. - 13mmSq.
- 5051-5 3/8"Sq. - 11mmSq.



 25/11.5/12.5/0.64'  460g



6pc Fill / Drain plug key set

5061



Contents:

- 5061-1 6-Fill / Drain plug key
- 5061-1 5/16"Hex - 3/8"Hex
- 5061-2 8mmSq. - 3/8"Sq.
- 5061-3 11mmSq. - 12mmHex
- 5061-4 13mmSq. - 14mmHex
- 5061-5 17mmHex - 1/2"Hex
- 5061-6 8mmHex - 10mmHex

 25/17.9/18.9/0.64'  720g

12pc Auto kit set

5122



Contents:

- 5061-1 6- Fill / Drain plug key
- 5061-1 5/16"Hex - 3/8"Hex
- 5061-2 8mmSq. - 3/8"mmSq.
- 5061-3 11mmSq. - 12mmHex
- 5061-4 13mmSq. - 14mmHex
- 5061-5 17mmHex - 1/2"Hex
- 5061-6 8mmHex - 10mmHex
- 8074 16M...20.6M 1/2"DR. Magnetic spark plug socket
16mm; 20.6mm
- 810421 Plug key holder 1/2"(F)x21mm(F)
- 617 Telescope mirror stick / magnetic pick-up
- 618 20pc feeler gauges 0.05mm to 1mm
- 619 Oil filter strap wrench

 6/11.8/12.8/0.9'  1970g

15pc 3/8"DR. Drain nut

915G2



The drain nut set has different external shape to fit different requirements.

We offer also the drain nut set without driver.



-  9.5mm
-  10mm
-  8, 9.5, 11, 12, 13 mm
-  8, 9, 9.5, 10, 12, 14, 17 mm

 10/20.0/21.0/1.3'  750g

1/2" DR. Drain nut socket bit (M16H)

348...T



| Part no. |  size |  mm |  g |  pc/box |
|-----------|--|--|---|--|
| 34805516T | M16H | 55 | 142 | 10 |
| 34810016T | M16H | 100 | 270 | 10 |

- For removal and replacement of the gear box drain plug Audi A3, A4, A6; VW Golf IV, LT.



Magnetic oil drain plier

61933

NEW



- Drain old and hot engine oil, transmission fluid, and gear oil without danger.
- High-power magnet grips oil plug well.
- Pleasant oil changing work.
- Patented handle provides comfortable gripping.
- Universal application.



64pc Oil drain repair kit

964G1



- Renew the diameter and replace a new oil drain plug.
- Four popular sizes fit nearly all applications.
- Specification: M13x1.5P, M15x1.5P, M17x1.5P, M20x1.5P
- Tap: 1 piece / size, material: SKS3
- Oil drain plug: 5 pieces / size, material: 1015
- Washer: 10 pieces / size, material: Copper



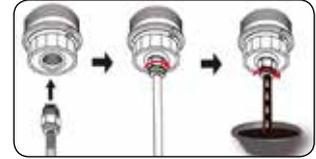
 12/18.0/19.0/2.2'  1460g

Oil filter drain tool (Toyota & Lexus)

61923



- Provide a professional and clean work when changing oil filter.
- Available for many Toyota & Lexus (2006~) 4cyl and 8cyl vehicles.



 50/8.0/8.5/0.48'

 180g

Oil filter drain tool (VW)

61925



- Provide a professional and clean work when changing oil filter.
- Available for many VW 2.0 vehicles.

Golf V 2.0T 2.5
Golf V (all) 2.5T
Jetta V (all) 2.0T
Passat B6 (all) 2.0T



 40/7.4/8.4/3.6'

 170g

Flexible / Moldable funnel

61926



- Flexible funnel provides easy job for draining or refilling wide kinds of fluid and oil.
- Suitable application: engine oil, coolant, brake oil, auto transmission oil...etc.
- Easy to take anywhere, use to limited space, and easy storage.



 50/11.5/12.5/1.0'

 230g

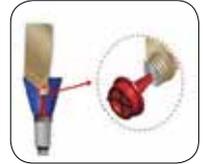
Oil funnel with piercer

61928

NEW



- Oil spill eliminator, no more unpleasant spills.
- Efficiently improves oil-changing process.
- Transparent lower chamber design clearly show oil flow process.
- Hand free design of piercer securely holds bottles.
- Pierces bottle seals and prevents seals from falling into engine.
- Piercing function saves time and prevents engine oil or transmission fluid additives from spilling.
- Special filter mesh efficiently blocks impurities without extending oil-changing time.
- Connect thread-good fitting with thread funnel & current M37 x P3.0 funnels on market.
- Application: Lexus, Toyota, Scion, VW, Audi, BMW, Mercedes, Benz, Porsche, Chevrolet, Geo, Volvo



 10/3.0/4.0/1.57'

 340g

Oil funnel with piercer

61929

NEW



- Oil spill eliminator, no more unpleasant spills.
- Efficiently improves oil-changing process.
- Transparent lower chamber design clearly show oil flow process.
- Hand free design of piercer securely holds bottles.
- Pierces bottle seals and prevents seals from falling into engine.
- Piercing function saves time and prevents engine oil or transmission fluid additives from spilling.
- Special filter mesh efficiently blocks impurities without extending oil-changing time.
- Connect thread-good fitting with thread funnel & current M32 x P3.5 funnels on market.
- Application: Acura, Chevrolet, Chrysler, Dodge, Eagle, Ford, Geo, Hyundai, Honds, Isuzu, Infiniti, Jeep, Kia

 10/2.6/3.6/1.57'

 300g



Transmission oil gauge

9G1803 / 9G1804



9G1803

- Dipstick for determining oil level
- Transmission 722.6

 100/16.5/17.5/1.9'  165g

9G1804

- Dipstick for determining oil level
- Transmission 716.5, 722.7

 100/11.6/13.0/1.9'  116g

Oil gauge

9G1805 / 9G1806



9G1805

- Dipstick for determining oil level and inspecting length of dipstick guide tube

 100/5.4/6.4/1.4'  54g

9G1806

- Measuring rod for measuring oil level and for checking length of oil pipe.

 100/5.2/6.2/1.4'  52g

Oil cooler line pliers

9G0717

NEW



- Release the hydraulic cooling lines that connect to the transmission.
- Front clips fixed by screw can be adjusted at different angle for the convenience of use.
- Applicable: BMW E46, E53, E60, E61, E63, E64, E65, E66, E70, E81, E83, E85, E86, E87, E90, E91, E92, E93, R50, R52, R53, Rr1

 48/18.0/19.0/2.1'  375g



Fuel feed pipe pliers

9G0715

NEW



 72/17.5/18.5/0.94'  243g

- For undoing quick-release connections on fuel feed pipe lines.
- Application: Opel/Vauxhall, Fiat, GM, VW etc.



Fuel line pliers

9G0716

NEW



 48/16.0/17.0/2.4'  335g

- Quick and easy fuel connector removal and replacement
- For use on fuel filter connectors during replacement
- Prevents fuel leakage from damaged fuel connectors
- Applications: Audi, VW, GM, Mercedes including M-class, Toyota, Fiat, Opel.



3pc Fuel line disconnect set

903G2



- Designed for uncoupling quick-release fittings on fuel line to most of the cars.

Contains:

1. 1/4" 5/16" (Ø8mm), for: Ford-Mercury, Dodge-Chrysler, Renault
2. 3/8" (Ø10mm), for: Ford-Mercury, Dodge-Chrysler, Renault
3. For: G.M., Chevrolet, Buick-Pontiac, Renault/Fiat Ford / Opel

 60/7.3/8.3/4.8'  305g



Adjustable fuel tank lid remover

9G0713

NEW



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

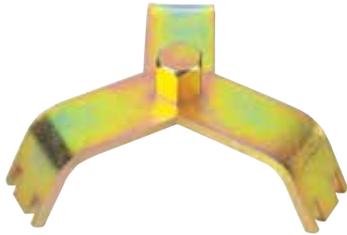


 24/16.0/17.0/1.2'  497g



Ford fuel pump wrench

9G0706



- For removal and installation of the fuel pumps with a plastic retaining nut.
- Suits all Ford falcon models XE, XF to current.
- Diameter: 6-1/8" (155mm)

 36/15.3/16.3/3.1'  425g

3pc Benz fuel tank cap wrench

903U2



Contents:

- 9U0707:** Benz W210 Fuel tank cup wrench
- 9U0708:** BENZ-W202 Fuel tank cap wrench
- 9U0709:** BENZ Fuel tank lid dissembler wrench

 5/10.5/11.5/1.37'  2.1Kg



Fuel pump wrench

9G0711



- Wrench for removal and installation of the fuel pump
- Applications:
VW Passat (1998-2005)
AUDI A4(2000-2004), A6(1999-2004)



 30/12.8/13.8/2'  425g

Fuel transfer tool

63302



- Transferring fuel from car to car.
- Pumping fuel into the heater.
- Extracting fluid from tank.
- Can be used to prime FORD, MONDEO diesel engines.

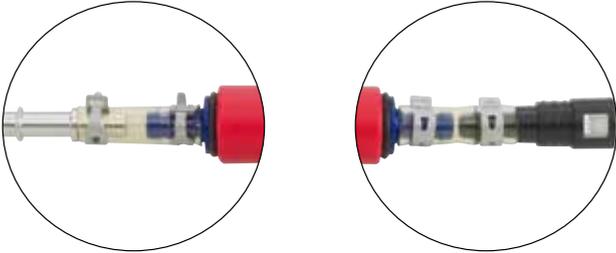
 50/15.3/16.3/2.6'  306g

■ Diesel injection priming tool

63303

NEW

- A Suitable for Vauxhall 2.2Di and 2.0Di Diesel Engines with engine codes X20DTL | X20DTH | X22DTH.
- For the introduction of fuel into the fuel pump after replacement of the fuel filter.



■ Fuel & transmission line disconnect set

912G3

- A complete set of disconnect tools.
- With aluminum disconnect tool (1/4", 5/16", 3/8", 1/2"), two ends disconnect tool (5/16"~3/8"), long disconnect tool (1/2"), round disconnect tool (1/2"), two point disconnect tool & rubber cap x 4.



 36/19.0/20.0/2.5'

 520g



■ A/C Fuel line spring lock coupling tool set

902G21

NEW

- Tools service most types of quick-disconnecting fittings used on Ford, GM & Chrysler vehicles.
- 1pc - Ford/Chrysler/GM fuel line disconnect tool 5/16" & 3/8"
- 1pc - A/C & fuel line spring lock coupling tool 3/8", 1/2", 5/8" & 3/4"



■ BMW line disconnect tool

9G0718

NEW



- Removes covers for both power steering and transmission oil cooler line.
- Made of red-anodized aluminum.
- Applicable: 1999-2005 BMW 3-Series and X5.

 144/5.0/6.0/1.0'

 35g



■ BMW line disconnect tool

9G0719

NEW



- Removes covers for both power steering and transmission oil cooler line.
- Made of blue-anodized aluminum.
- Applicable: 2006-2011 BMW 3-Series and 2006-2009 X3(E90 & E83).

 288/7.5/8.5/1.8'

 26g



■ A/C spring lock coupling tools

904G10



- For 3/8", 1/2", 5/8", 3/4" couplers.
- Designed for separating air conditioning refrigerant pressure lines on these vehicles.
- Used for Ford, Chrysler and Jeep vehicles.

 144/13/14/3.6'

 80g



■ A/C, fuel line disconnect tool set

907G10



- Easily disconnects air conditioning lines, quick connect fuel lines or can be used as push lock connectors on radiator and transmission lines.
- Size include: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"

 72/9.5/10.5/2.7'

 120g



Oil & fuel pipe stopper

904G12

NEW



- Use to plug steel lines once disconnected.
- Prevents fluid leaks and contamination during service.
- Use with any automotive fluid.
- Spring loaded design installs in seconds.
- Specifications: Banjo, 3/8", 5/16", 1/2"



 48/7.5/8.5/2.5'

 157g

Universal steel line stopper

9G4301

NEW



- Suitable for clamping and sealing steel line on braking system, cooling system, fuel line, A/C line etc.
- Provides an effective seal to steel lines when disconnected.
- Prevents fluid loss and contamination in the work area.
- 5/16", 3/8", 1/2" and banjo (10.4mm & 18mm)

 72/14.8/15.8/2.65'

 205g

Universal oxygen sensor socket

9G1401



- Works on most vehicle oxygen sensors.
- A slot provided in the side of the socket allows wire clearance.
- Outside rib provides added strength.
- 1/2" SQ. DR., 1" Male Hex DR
- 7/8" 6PT. Hex socket

 36/16.7/17.7/1.5'

 460g



7pc Sensor & sending unit socket set

907G2

907G2P3



- Designed for removing oxygen sensor.

Content:

- 01-22mm (7/8") Heated oxygen sensor socket (1/2" DR. x 7/8" x 50mmL)
- 02-22mm (7/8") Low profile offset socket (3/8"DR. x 7/8" x 30mmL)
- 03-22mm (7/8") Oxygen sensor socket (3/8" DR.x 7/8"x 6pt.x 80mmL)
- 04-22mm (7/8") Universal vacuum Pvs, Tvs valve & oxygen sensor socket (3/8" DR.x 7/8"x 6pt.x 90mmL)
- 05-1" & 1-1/16" Oil pressure sending socket (3/8" DR.x 1"x 1-1/16"x 74mmL)
- 06-1-3/16" Oil pressure sending socket (1/2" DR.x 29mm x 6pt. x 90mmL)
- 907G2P3** -1-1/16" (27mm) GM Thermal sensor switch socket (1/2" DR.x 27mm x 12pt. x 78mmL)



 10/21.4/22.4/1.2'  2140g

Oxygen sensor socket

9G1403



- Applicable: FORD, TOYOTA, NISSAN, BENZ, BMW and most of European cars, also GM vehicles.
- Flare nut for vacuum switch & oxygen sensor service on the computer-controlled engines.
- Features: 3/8" of the double square DR. 7/8"(22mm) 12 point & 22mm 6 point.



 120/21.8/22.8/2.4'  181g

1/2" DR. Extra long oxygen sensor socket

44315022



- For removing and install lambda sensors with a deep-seated hexagon.
- Size:1/2"DR. 22mm x 6PT x 150L.
- Application:MERCEDES-BENZ C/E, 602, 605, 606 VW/AUDI/ SKODA/SEAT, BMW. FORD, OPEL,ROVER,VOLVOL.

 48/17.4/18.4/1.51'  362g

■ Oxygen sensor rethread tool

63007



- Cleans threads in oxygen sensor holes.
- Use with 3/4" hex socket or 3/8" square drive.
- M18x1.5 also works on M18x1.5 spark plug threads.

 144/14.0/15.0/1.6'  90g

■ Air bag removal tool

907G5



- Airbag removal tool is used to remove driver's airbag from steering wheel on 1999-04 new bodystyle VW Passat, Jetta, Golf and Beetle.
- Mercedes-Benz, BMW (neue Modelle)

 20/11.6/12.6/2'  580g



■ VW Air bag removal tool

9G0301



Air bag removal tool is used to remove driver's air bag from steering wheel on 1999-04 new bodystyle VW PASSAT, JETTA, GOLF AND BEETLE.



 120/3.1/3.2/1.4'  26g

■ Crank seal remover & installer kit

920G1



- Allows the crank seal to be replaced without dismantling the crank case.
- Universal use covering a wide range of cars with oil seals between 27mm and 58mm in diameter.
- Use the existing bolt in the vehicle for installation .
- Screw-type adapter to fit the centering.
- The blue seal adapters are made of aluminum to prevent the damage of crank.

Note: Some cam seals have screws to prevent remove. Do not attempt to use this tool by power.



 10/18.0/19.0/1.8'  1750g

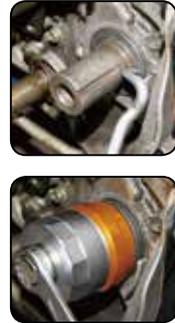


■ Crankshaft & camshaft seal remover and installer set

927G1



- Ideal for both crankshaft and camshaft seal.
- Quick and easy work for both removal and installation work.
- Provided with 2 seal removers with different length and angle fits wide applications.
- Master kit includes wide size seal installers.
- Angled blade seal remover is ideal for removing seals in limited space.



■ 3pc Seal puller

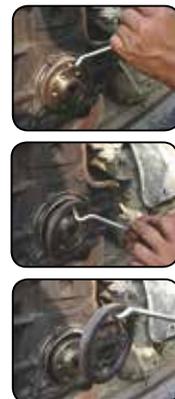
903G13



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

 40/10/11/1.4'

 200g



■ Seal puller

9G0113



- Use to remove oil and grease seals.
- Two different size tips enables this tool to accommodate most applications.

 60/22.2/23.2/3'

 375g



5pc Mini pick and hook set

905G6



- Miniature pick set.
- Removes O-rings in line connections and inside compressors.
- Aluminum handles with 4 stainless tools:
 - 1.awl end
 - 2.hook end
 - 3.45° bent tip
 - 4.90° bent tip

192/8.4/9.6/1.2'

44g



4pc Hook & pick set

904U4



Contents:

- 904U4P1 1-Full hook
- 904U4P2 1-90° hook
- 904U4P3 1-Angel hook
- 904U4P4 1-Straight pick

60/18.5/19.5/2.5'

309g

7pc Universal hook & pick set

907U1



- Tools for household use, repair garages, and factories.
- For punching, marking and line-up work.
- Ideal for separating wires.
- Removing small fuses, stuck parts.
- Pull "O" rings, seals, cotter pins and brushes quickly and easily.
- Remove spring from oil burner relay boxes.
- Retrieve lost nuts, bolts, washers and tools from tight areas.
- Brake spring puller, heavy-duty spring hook.
- Heavy-duty hook and cotter pin extractor.

10/9.7/10.7/1.3'

970g



4pc Cup rocket set

904T2



- This tool enables cups to be installed smoothly without scratching damage to O ring cylinders
- Available Size:
 - 9/16" (Ø14.4mm – Ø16.0mm)
 - 5/8" (Ø15.9mm – Ø17.5mm)
 - 11/16" (Ø17.5mm – Ø19.1mm)
 - 13/16" (Ø20.7mm – Ø22.4mm)



144/16/17.5/1.5' 11g

7pc Cup rocket set

907T1



- This tool enables cups to be installed smoothly without scratching damage to O ring cylinders
- Available Size:
 - 9/16" (Ø14.4mm – Ø16.0mm)
 - 5/8" (Ø15.9mm – Ø17.5mm)
 - 11/16" (Ø17.5mm – Ø19.1mm)
 - 13/16" (Ø20.7mm – Ø22.4mm)
 - 15/16" (Ø24.0mm – Ø26.0mm)
 - 1" (Ø25.5mm – Ø27.5mm)
 - 1 3/16" (Ø30.3mm – Ø32.3mm)

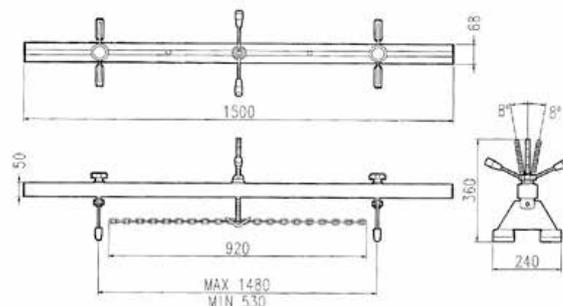
60/20.2/22/2.3' 336g

Transverse engine supports - for General engines

9G0612



- Straddling the inner fender walls and acting as a bridge to support engines.
- Adjustable in height and width to bridge various vehicle fender walls and securely hold engine in place.
- Including slide bolt that can be positioned anywhere on the bar for the best weight distribution.
- Capacity: 500 kg



1/11.5/13.1/1' 11.5kg

■ Transverse engine supports - for general engines and bigger engines, multi-way

9G0613



- Special new design for 5 fixing point to be a bridge to support the engine.
- Adjustable in height, position, width, and angle to bridge various vehicle fender walls and securely hold engine in place.
- Total length of middle part 1510mm, width 40x40mm



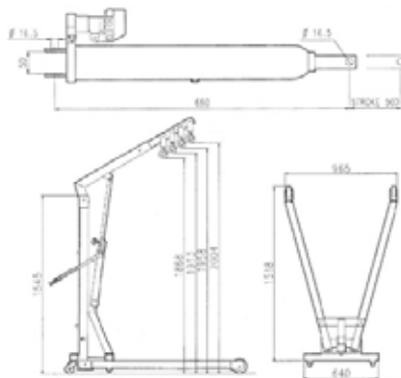
 1/15.5/17.0/1.1'  15.5kg

■ Engine crane 1 ton

9G0615



- Four position telescopic boom with forged steel grab hook.
- Quick foldable legs save shop space and prepare crane for transportation or storage within seconds.
- Four full swivel casters provide easy manoeuvring and positioning.
- New 5 ton capacity long stroke ram is designed with swivel handle to provide fast engine removal and replacement from any direction.
- Capacity: 1000 kg



 1/91.0/106.0/14.0'  91kg

■ Engine lift chain

9G1511



- For removal of car and light commercial vehicle engines.
- Unique self balancing and securing link lock feature, ensures safe and non-slip lifting.
- Never exceed the maximum load of 450 kg.
- Do not attach ends more than 510mm (20") apart.

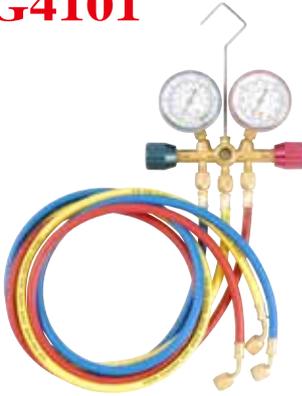


 12/14.0/15.0/0.7'  1080g



Brass R12 , R22 A/C & refrigeration manifold gauge (with 60" hose 1/4" SAE)

9G4101



- R-12 , R22 sight glass manifold with three 60" 1/4" SAE color-coded hoses.
- With sight glasses.
- High pressure:0~500 psi
0~3400 Kpa
- Low pressure:0~250 psi
0~1700 Kpa
- Vacuum:0~76 in/Hg

10/13.4/14.4/2.4' 1344g

Aluminum R12 , R22 , R134a Auto A/C manifold gauge set (with 60" hose 1/4" SAE and 2 couplers)

9G4102



- R-12 , R22 , R134a sight glass manifold with three 60" 1/4" SAE color-coded hoses and 2 couplers.
- With sight glasses.
- High pressure:0~500 psi
0~3400 Kpa
- Low pressure:0~250 psi
0~1700 Kpa
- Vacuum:0~76 in/Hg

10/18.9/19.9/2.4' 1885g

Aluminum R404A , R407C , R507A A/C & refrigeration manifold gauge (with 60" hose 1/4" SAE)

9G4106



- R404A , R407C , R507A sight glass manifold with three 60" 1/4" SAE color-coded hoses.
- With sight glasses.
- High pressure:0~500psi
0~35kg/cm²
- Low pressure:0~350psi
-1~25kg/cm²
- Vacuum:0~76 in/Hg

16/26.0/27.0/3.9' 1625g

■ **Aluminum 4-way R134a Auto A/C manifold 80mm gauge set (with 60" hose 1/4" SAE and 2 couplers)**

9G4108



- R134a 4-way sight glass manifold with three 60" 1/4" SAE color-coded hoses and 2 couplers.
- With sight glasses.
- High pressure: 0~500psi
0~35kg/cm²
- Low pressure: 0~350psi
-1~25kg/cm²
- Vacuum: 0~76 in/Hg

8/24.0/26.0/2.3' 3000g

■ **Aluminum 4-way R410 A/C & refrigeration manifold 80mm gauge set (with 60" hose 5/16" SAE and 2 connector)**

9G4107



- R410 4-way sight glass manifold with four 60" 5/16" SAE color-coded hoses and 2 connector (1/4" SAE)
- With sight glasses.
- High pressure: 0~800psi
0~55kg/cm²
- Low pressure: 0~500psi
-1~35kg/cm²
- Vacuum: 0~76 in/Hg

8/23.0/27.0/4.85' 2875g

■ **Valve core remover & installer tool kit**

911G8

NEW

- Service valve cores without losing the system charge.
- Unique design offers a locking device that holds the shaft in place while removing or installing the valve cores.
- Contents:
 1. Valve assembly
 2. Standard valve core remover / installer
 3. GM large bore valve core remover / installer
 4. JRA R134a valve core remover / installer
 5. Eaton low side valve core remover / installer
 6. Eaton high side valve core remover / installer
 7. 1/4" FL swivel connect
 8. 16mm high side quick connector
 9. 14mm low side quick connector
 10. 1/4" x 3/16" adapter
 11. 1/4" x 1/8" adapter



20/16.4/17.4/0.96' 820g



■ Universal A/C system testing adapter

958G1

NEW



- All brass fittings.
- All HNBR gaskets.
- Special universal design for all systems.
- For leak testing & flush fittings.

■ Scale injector

9G4111

NEW



- Special design with scale to inject the dye and pack oil for R134a and R12 system.
- Capacity: 1/4 oz.(7.5ml) to 2 oz.(60ml).

 20/15.2/16.2/1.9'

 760g

■ 5pcs Auto A/C swivel adaptor kit

9G4121

NEW



- All the adaptors have been combined into a kit ideal for accessing R12 vehicle A/C system, as well as other types of system
- Eight different adaptors are included with 1/4" fittings.
- Two flexible adaptors:1/4"x3/16", 1/4"x1/8"
- Three 90° brass adaptors:1/4"x1/4", 1/4"x3/16", 1/4"x1/8"

 100/25.0/26.0/1.6'

 250g

■ A/C Adapters (GM)

9G4122

NEW

•Applicable: The joint for GM model and most American cars.



 100/4.0/4.5/0.2'

 40g

■ R-134a Quick coupler set

9G4123

NEW

- Included the high side and low side coupler.
- Straight design suitable for confined space.



 100/19.0/20.0/1.3'

 190g

■ R-134a Adjustable quick coupler set

9G4125

NEW

- Included the high side and low side coupler.
- The valve core puller is adjustable to fit the different valve core.



 48/19.2/20.2/1.2'

 400g



A/C compressor clutch remover kit

912G11

NEW

- Replace clutches found on FS6, C171, 6P & 148 computer.
- Also GM R4 & R6, HR-6, DA-6 & V5 A/C compressors.
- Works on compressors of Sanden SD505, 507, 508, 510, 575, 708 and 709.
- 2 & 3 hole puller plate fits most clutches and the mechanical force generated pulls it out.



 12/15.0/16.0/1.28'  1250g

Flush kit

902G20

NEW

- Volume:1L
- Flush solvent performs all mechanical actions required to clean out contaminated systems.
- The cylinder is equipped with a top inlet fitting and a side outlet for connecting to compressed air lines.
- With a gun to control on /off.



 10/7/8/1.6'  695g

12 Volt UV detection light

902G10

NEW

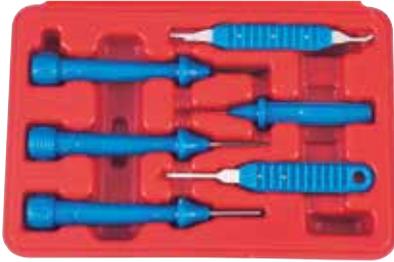
- For air condition leakage check.
- High intensity 12 volt UV lamp.
- Long cord for easy access .
- Detects all dyes.
- UV Safety Glasses Included.



 20/10.4/11.0/2'  520g

6pc Terminal release tool set

906C1



- For car electronics and computers.
- This collection of terminal release tools is the most complete around covering GM, Ford, Chrysler and a variety of vehicles.
- When terminals need cleaning or replacing, these tools are the quickest and easiest way to release them from their plastic connectors without damaging them or delicate computer components.
- Their design makes them easier to hold on to than the key-ring style release tools.

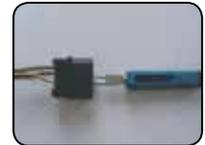
 72 / 17.3 / 18.3 / 2.3'  240g

12pc Universal terminal release tool set

912C1



- Easy, quick and professional repair of malfunctions due to loose contacts.
- Basic set for about 80% all plug-type connections in passenger cars for damage-free releasing of plug-type connectors, e.g. flat and round connectors.
- Universal application in the field of car electricity.
- 2-coloured plastic handles with foldable caps protecting the blades from damage and avoiding the risk of injury.
- Application: FORD, BMW, MERCEDES BENZ, OPEL, VW, FIAT, MAN, SAAB, RENAULT, DIAMLERCHRYLER, PORSCHE, PSA, SKODA, AUDI, MAZDA, TOYOTA.



 10/7.7/8.7/1.1'  770g

Terminal release tool set

923C1

NEW

- Designed especially to release terminals from the plastic connectors without damaging them.
- Release terminals on most of the body wiring connectors.
- Applicable: suitable for most vehicles.



 12/19.0/20.0/4.0'  1583g



10pc Radio removal tool set

910C1



For : FORD/VW/AUDI;BMW;
NEW BEETLE/AUDI;
MERCEDES-BENZ;
VW;BMW



100/10.2/11.2/0.58' 102g

ELECTRICAL/
CABLE

18pc Radio removal tool set

918C1



- Designed to remove radio easily without damage.
- For VW, FORD, AUDI, GRUNDIG, BLAUPUNKT, BMW, BECKER, MERCEDES-BENZ, PORSCHE, OPEL, SKODA.

100/15.4/16.4 /1.2' 154g

20pc Radio removal tool set

920C1



- Designed to remove radio easily without damage.
- For ALFA, FIAT, VW, FORD, RENAULT, AUDI, GRUNDIG, BLAUPUNKT, BMW, BECKER, MERCEDES-BENZ, PORSCHE, OPEL, SKODA, PEUGEOT.
- For JVC, PIONEER, CLARION.

100/17.5/18.5/1.2' 175g

10pc Mercedes-Benz Dashboard service tool set

910C3



- Removal hooks for instrument cluster on models W107, W116, W123, W124, W126, W140, and W201.
- Removal tools for ignition lock on model W126.
- Removal tools for ignition locks on models W124 & W201.
- Radio removal tools on models W129, W140, W202, and W210.



 48/17.9/18.9/3.5'  373g

18pc Radio removal kit with antenna wrenches

918C2



- Kit includes the tools needed to remove the radio from the dash on most of vehicles without damage to the radio or the dash panel.
- Antenna nut sockets fit over antennas and down into deep well locations.
- For BMW, VW, MERCEDES BENZ, AUDI antenna nut socket set: for most of vehicles.



 20/19.5/20.5/2.5'  950g

Bulbs pliers

9G0302



- Special pliers for mounting and dismounting wedge base bulbs.
- Use for most of the car.



 120/5/6/2'  42g



Battery terminal & wiper pick-up tool

9C2001



- To work for battery terminals and windshield wipers etc.
- The tight terminals will be lifted off without damage to the battery case or posts because the sharp jaws are able to engage either below or on the sides of terminals.
- The center screw swivel also makes this puller very effective on the alternator bearings.



 72/22.9/23.9/2'  320g

Battery terminal / alternator bearing puller

9C2002



- The tight terminals will be lifted off without damage to the battery case or posts because the sharp jaws are able to engage either below or on the sides of terminals.
- The center screw swivel also makes this puller very effective on the alternator bearings.



 60/23.6/24.6/1.8'  393g

Battery brush

9U3002



- Designed for cleaning the battery terminals.
- There are two sides for using.



 120/9.7/10.7/1.7'  81g

Battery holder

9C2005



- Self locking design with rubber grip pads provide a secure grip on batteries 4-1/2" to 7" width.
- Suitable for top and side terminal batteries.
- Allow one handed lifting of battery in awkward location.
- Heavy duty zinc-plated steel construction for long life.



 24/13.0/14.0/1.9'  541g

Auto memory saving kit

9C2008



- Maintains the memory of car radios, clocks and computer functions when battery is disconnected.
- Simply attach a 9-volt battery and plug into cigarette lighter.
- Will retain settings up to 4 hours.
- Will not power any lights or other accessories.



 144/10.0/11.0/2.1'  40g

Battery hydrometer tester

9G4005

NEW



- Avoid dead battery and thus help to extend battery life.
- Test battery life - hot or cold, and thus help to prevent overcharge.
- Applicable: 6,12,24 volts system.



 100/13/15.2/5.8"  130g

Dualite high and low voltage trouble shooter

88421



- Checks 6 and 12 volt system, circuit tester & spark plugs tester (two testers in one.)
- On secondary or high voltage circuits check out spark plugs.
- Checks breaks in radio resistant hook ups.
- Pin point minute cracks in distributor caps.
- Use as a continuity tester and check on low voltage circuits.
- Extra long 48-in leads.

 100/5.9/6.9/2.5'  59g



Car light tester

88422



- Checks 6-24V system
- Solid brass body with a test light.
- Prod tip is covered a brass protective screw cap.
- 850mm cable with an alligator clip on the end.

 100/3.6/4.6/2.5'  36g



Car light tester

88423



- Checks 6-24V system
- Solid brass body with a test light.
- Prod tip is covered a brass protective screw cap.
- 850mm cable with an alligator clip on the end.

 100/7.9/8.9/2.5'  79g

Auto battery and charging system analyzer

88424



- Checks 12 volt system
- Auto battery analyzer checks batteries, regulators and alternators.
- With LED indicator that helps pinpoint problems for fast troubleshooting.

 200/9.0/10.0/3'  45g



■ Cordless circuit tester

88425



- Detects from 3 to 28 volts.
- Safe with ECMs, sensors, transducers, airbags, etc..
- No ground wire or clip required.
- Replaceable long-life alkaline batteries included.

 60/3.8/4.8/0.78'

 63g



■ Automotive multi-tester

88426



- Voltage, battery, alternator multi-checker for all 12V DC systems.
- With a "Magnetic board" on the back side to fix on suitable metal sheet of car easily.
- 6 LED indicators to show battery charge situation and high or low output of alternator.

 48/4.1/5.1/1.3'

 86g



■ Auto tester

88427



- Checks 3-48V
- Circuit tester with test lead for either passenger car or trucks.
- Checks circuit between 3~48 volt.
- LED display shows polarity.

 100/8.4/9.4/3.2'

 84g



■ Heavy duty circuit tester

88431



- Checks voltage 6-12-24 V system.
- 5-ft cable with spring relief.
- Tough plastic handle lights up if circuit is good.
- Heavy duty insulated alligator clip.

 60/13.4/14.4/3.4'

 223g



■ Circuit tester

88432



- Checks 6-12-24V
- 48-in cable with insulated alligator clip.
- Tough plastic handle lights up if circuit is good.

 100/9.3/10.3/2'  93g

■ Circuit tester for general & hybrid car

88433



- Compatible with current 12V system plus newer 42V system.
- Safe for low current circuits since tester only draws 3 milliamps at 12V.
- Automatic voltage identification with blue for 12V and red for 42V systems.
- Two super-bright LED's for visibility under all conditions.
- New crystal-clear handle provides 360° visibility, even in bright light.



 100/9.3/10.3/3.2'  220g

ELECTRICAL/
CABLE

■ Terminal test kit

919C1



- Terminals include Weather-Pack, Metri-Pack, and Micro-Pack style terminals.
- Use this tester to check high and low voltages (power and ground) on 6~ 24 Volt system.
- Contents:
 - 1pc Circuit Tester, wire length 12 ft.
 - 14pc terminal adapter kit.
 - 1pc Banana socket.
 - 1pc Testing needle.
 - 2pc Alligator.

 20/13.0/14.0/1.62'  650g

Auto circuit tester

88443



- Checks from 6V to 24V system with LED indicator and illumination.
- Test the automotive electrical system within 6-24 volts.
- Determine the polarity and circuit circumstance (short/open).
- Activating the components with positive or negative current without jumper wire.
- Testing the voltage and continuity of the circuit.
- Illumination
- Include a Cigarette lighter adapter, a Hook-up clip, and extension 20ft(*0.3048=6m) lead.
- Extension Probe (85mm) included.
- Instruction manual included.



 10/11.0/12.0/1.7'  1.1kg

Multi-functional auto circuit tester with LCD display

88444



- Checks from 6V to 24V system with LCD indicator and LED illumination.
- Four modes can be selected by depressing the mode button and cycling through each one.
- Voltage meter
- Locate missing cylinders.
- Measuring rotational speed (Measuring the frequency of the high-tension ignition pulses).
- Peak Detection
- Include a Cigarette lighter adapter, a Hook-up clip, and extension 20ft lead.
- Extension Probe (85mm) included.
- Instruction manual included.



 10/11.0/12.0/1.7'  1.1kg



Multi-purpose connector set

990C1



- When checking the parts, it could connect the back of terminal directly, would not to damage the circuit or cut the electric wires, reduce the circuit rust and avoid adding impedance.
- Apply to any Automotive Multi-meter, the extended line of prove for oscilloscope. More convenient connection and checking rapidly.
- Variable Resister can simulate the pretend signal of coolant temperature sensor, throttle valve sensor and send the pretend signal to computer.
- Equip 2 sets LED light. It can supervise hall effect, photoelectric signal, nozzle, electromagnetic valve, electromagnetic valve of transmission shift gear... and control signals.
- SRS Connector can simulate airbag and routed contracting device of safety belt to avoid accident or miss-judgment



 4/11.2/12.2/2.9'

 2850g

13pc Probe and test adaptor set

913C1

NEW



- Apply to any Automotive Multi-meter, the extended line of probe for oscilloscope.
- More convenient connection and quicker checking .
- When checking the electric current, only use the lines to connect the circuit, do not need to cut the electric wires.
- Various wires in this box, it is suitable for the Europe, America and Japan terminal.



 20/10.3/11.3/1.2'

 515g

2pc Insulator pierce-through clip

902C1

NEW



- Applicative wire diameter: $\varnothing 1.5 \sim \varnothing 4.5$
- Voltage range : 0V ~ 30V
- Current load : Max. 5 A



■ Ratchet terminal tool kit

68013

NEW



- 1pc Terminal pliers.
- 4pc Die nests.
- 1pc Wire stripper.
- 1pc Hex key wrench.
- Crimps insulation, non-insulation & open barrel terminals.
- Built-in ratchet with safety release assures uniform crimp every time.
- It releases and opens automatically when crimping is done.
- Applicable: Insulated Terminal
(0.5-1.0 / 1.5-2.5 / 4.0-6.0 mm²)
- Non-Insulated Terminal
(1 / 2 / 4 / 6-10 mm²)
- Open Barrel Non-Insulated Terminal
(0.5-1.0 / 1.5-2.5 / 4.0-6.0 mm²)
- Cord-End Insulated Terminal
(0.5 / 0.75 / 1.0 / 1.5 / 2.5 / 4.0 mm²)

■ Terminal pliers red, blue, yellow

6801



- For terminal:



(The terminals are not included.)

 30/16.2/17.2/1.5'

 540g

■ Terminal pliers 0.5; 0.75; 1.0; 1.5; 2.5; 4

6802



- For terminal:



(The terminals are not included.)

 30/16.7/17.7/1.5'

 557g



Terminal pliers 0.5-1; 1.1-2.5; 4-6

6803



• For terminal:



(The terminals are not included.)



30/16.1/17.1/1.5'



535g

Crimp lever pliers

6807



• Suitable for RG58, RG59/62, BNC/TNC coaxial connectors

• Size: 0.256(6.48mm), 0.319(8.13mm),
0.068(1.73mm), 0.213(5.41mm)



30/16.5/17.5/1.5'



550g

Terminal pliers 1; 2; 4; 6-10

68015

NEW

• For terminal:



(The terminals are not included.)



30/17.14/18.1/1.5'



570g

Stripper pliers

6804



Two functions:

A cutter & a stripper for electrical cables of 0.2mm² to 3.5mm² in diameter.

 60/14.3/15.5/1.7'

 220g



Heavy duty stripper pliers

6805



- Cut and strip 10-24 AWG copper or aluminum wire, solid or stranded
- Crimp 10-22 AWG insulated terminals
- Crimp 4-22 AWG non-insulated terminals
- Crimp 7-8 mm ignition terminals

 60/23.4/24.4/2.3'

 390g



Multi-purpose crimping tool

6806



Function:

- Wire cutter
- Crimps insulated terminals
- Bolt cutter
- Crimps non-insulated terminals (open barrel)
- Wire stripper

 40/11.7/12.7/1'

 293g



■ Cable, wire stripper

68011



- Remove the layer and cut off the electrical cable
- For wire 0.8~2.6 mm
- Cable stripper for the wire under 9.5mm

 200/25.5/26.5/3.1'  125g



ELECTRICAL/
CABLE

■ Cable Stripper

6808



- Able to strip cable up to 4mm - 28mm(dia.).

 100/10.0/11.0/1.8'  100g

■ Cable Stripper

6809



- Able to strip cable up to 8mm - 28mm(dia.).

 100/11.0/12.0/2.1'  100g

■ Cable Stripper

68010



- Able to strip cable up to 4.5mm - 25mm(dia.).

 100/12.5/13.5/2'  220g

Telecrimper

68012



- Cuts, strips & crimps integral in one tool.
- With built-in length stop for precisely length stripping.
- 2 crimp functions with a single tool without changing dies.
- Advanced ratchet system.
- Precision CNC grounded crimping teeth.
- Crimp RJ45 & RJ11 Modular plugs.



 48/19.0/20.0/1.5'  400g

31pc 3/8" DR. Insulated combination set

3313



Contents:

- 12pt. Flank insulated socket
6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
- Insulated combination wrench
7; 8; 10; 12; 14 mm
- Insulated extension 150, 250 mm
- Insulated ratchet handle
- Screwdriver probe voltage tester 110~250V AC
- Insulated combination pliers 7"
- Insulated long nose pliers 6"
- Insulated diagonal cutting pliers 6"
- Insulated Phillips screwdriver PH.1(80mmL); PH.2(100mmL)
- Insulated Slotted screwdriver 2.5(75mmL); 4(100mmL); 5.5(125mmL)

 3/11.9/12.5/1.5'  4000g

17pc Insulated socket set

3173N



- 14-12pt socket
6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm
- 2-Extension 150, 250 mm
- 1-Ratchet handle

 10/21.0/21.8/1.8'  2100g



■ **3/8" DR. Insulated torque wrench**

6473268N

• 6473268N:3/8"DR.5-25Nm



 12/20.4/21.2/1.12'  1700g

■ **3/8"DR. 12pt. Flank insulated socket**

539N



| Part no. | Size | <i>l</i> |  |
|----------|------|----------|---|
| | mm | mm | g |
| 53906N | 6 | 43 | 28 |
| 53907N | 7 | 43 | 30 |
| 53908N | 8 | 43 | 30 |
| 53909N | 9 | 43 | 30 |
| 53910N | 10 | 43 | 30 |
| 53911N | 11 | 43 | 30 |
| 53912N | 12 | 44 | 30 |
| 53913N | 13 | 44 | 31 |
| 53914N | 14 | 44 | 38 |
| 53915N | 15 | 44 | 47 |
| 53916N | 16 | 46 | 47 |
| 53917N | 17 | 46 | 54 |
| 53918N | 18 | 46 | 58 |
| 53919N | 19 | 46 | 61 |

■ **3/8" DR. Insulated extension**

8043N



| Part no. | <i>l</i> |  |
|----------|----------|---|
| | mm-inch | g |
| 8043150N | 150-6" | 160 |
| 8043250N | 250-10" | 260 |

■ **3/8"DR. Insulated ratchet handle(45 teeth)**

802320N

- Length:200mm
- Weight:354g



■ **3/8"DR. Insulated extension T handle**

7743200N

- Drive:3/8"
- Length:207mm
- Weight:400g



■ **Insulated open end wrench**

829



| Part no. | Size | <i>l</i> |  |
|----------|------|----------|---|
| | mm | mm | g |
| 82907 | 7 | 89 | 20 |
| 82908 | 8 | 99 | 26 |
| 82910 | 10 | 114 | 40 |
| 82912 | 12 | 134 | 61 |
| 82914 | 14 | 155 | 96 |
| 82917 | 17 | 190 | 147 |

■ **Insulated 75° offset ring wrench**

829A



| Part no. | Size | <i>l</i> |  |
|----------|------|----------|---|
| | mm | mm | g |
| 829A07 | 7 | 147 | 52 |
| 829A08 | 8 | 156 | 62 |
| 829A10 | 10 | 167 | 73 |
| 829A12 | 12 | 188 | 90 |
| 829A14 | 14 | 199 | 135 |



Fully insulated adjustable wrench

649M



| Part no. |  packing | <i>l</i> mm |  g |
|----------|---|----------------|--|
| 649M200 | 40/13.6/16.5/1.2' | 200 | 320 |
| 649M250 | 24/15.4/16.9/1.1' | 250 | 640 |
| 649M300 | 16/16/17.5/1.05' | 300 | 980 |

Insulated adjustable wrench

649N



| Part no. |  packing | <i>l</i> mm |  g |
|----------|---|----------------|--|
| 649N200 | 64/18.2/19.2/0.81' | 200 | 285 |
| 649N250 | 32/16.6/17.6/0.7' | 250 | 520 |
| 649N300 | 16/15.4/16.9/1.1' | 300 | 920 |

Insulated knife

830



83001



83002

| Part no. | Shape | <i>l</i> mm |  g |
|----------|----------|----------------|--|
| 83001 | Straight | 150 | 145 |
| 83002 | Curved | 150 | 148 |



2182

18pc Insulated screwdriver & pliers set

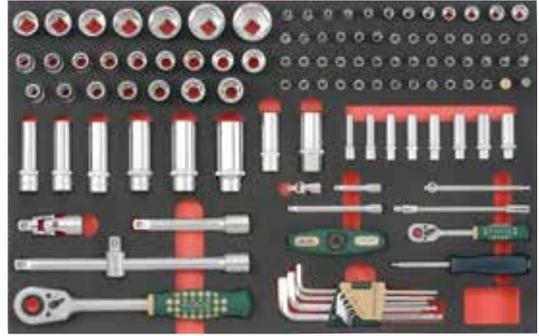
- ⊕ Insulated Phillips screwdriver
PH.0(60mmL); PH.1(80mmL); PH.2(100mmL); PH.3(150mmL)
- Insulated slotted screwdriver
2.5mm(75mmL); 3mm(100mmL); 3.5mm(100mmL);
4mm(100mmL); 5.5mm(125mmL); 6.5mm(150mmL);
8mm(175mmL)
- Insulated combination pliers 7"
- Insulated long nose pliers 8"
- Insulated diagonal pliers 8"
- Insulated wire stripper pliers 6"
- Insulated cable cutter 6"
- Multi-purpose crimping tool
- Universal voltage tester Testing range: 6~400V AC/DC



3262

26pc 3/8" DR. Insulated socket set

- Contents:
- 12pt. Flank insulated socket
6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19 mm
 - Insulated combination wrench
7; 8; 10; 12; 14 mm
 - Insulated extension 150, 250 mm
 - Insulated ratchet handle
 - Insulated T-handle
 - Insulated torque wrench 5~25 Nm
 - Insulated cable knife (straight)
 - Insulated cable knife (curve)



41161

116pc 1/4" & 1/2" DR. Socket set

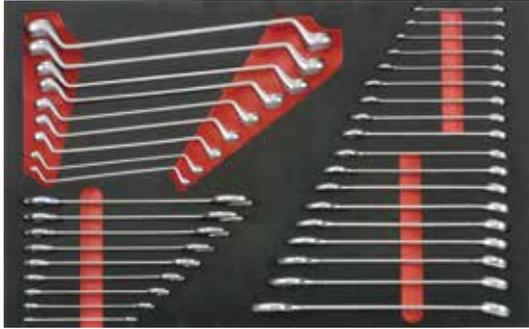
- Contents: 1/4" & 3/8" & 1/2"DR.
- 1/4" part
 - 6pt. Flank socket
4; 4.5; 5; 5.5; 6; 7; 8; 9; 10; 11; 12; 13 mm
 - 6pt. Flank deep socket (50mmL)
6; 7; 8; 9; 10; 11; 12; 13 mm
 - Star socket E4; E5; E6; E7; E8; E10
 - Socket bit (32mmL)
 - ⊕ Phillips PH.0; PH.1; PH.2; PH.3
 - ⊕ Pozidriv PZ.0; PZ.1; PZ.2; PZ.3
 - Slotted 3; 4; 5.5; 6.5 mm
 - Hex 3; 4; 5; 6; 7; 8; 10 mm
 - Star T8; T10; T15; T20; T25; T27; T30; T40
 - Star tamper T-8H; T-10H; T-15H; T-20H;
T-25H; T-27H; T-30H; T-40H
 - 20 teeth ratchet handle
 - 48 teeth T mini ratchet handle
 - Sliding T handle
 - Extension 2" & 4"
 - Flexible extension 145mmL
 - Spinner
 - Universal joint
 - Magnetic socket pick-up
 - 1/2" part
 - 6pt. Flank socket
10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm
 - 6pt. Flank deep socket
14; 15; 17; 19; 22; 24 mm
 - Star socket
E12; E14; E16; E18; E20; E22; E24
 - 36 teeth ratchet handle
 - Extension 5" & 10"
 - Universal joint
 - Adaptor for ext. 3/8"(F)x1/2"(M)
 - Spark plug socket 16; 20.6mm
 - Others:
 - ⊕ ● Hex ball point long key
1.27; 1.5; 2; 2.5; 3; 4; 5; 6; 8; 10mm

10217A-266

10217B-266

10217R-266





5363

36pc Automotive essential wrench set

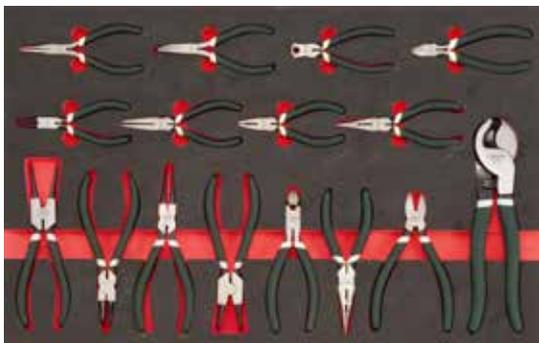
- Double open end wrench
6x7; 8x9; 10x11; 12x13; 14x15; 16x17; 18x19; 20x22; 21x23 mm
- Combination wrench
6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24 mm
- 75° offset ring wrench
6x7; 8x9; 10x11; 12x13; 14x15; 16x17; 18x19; 20x22; 21x23 mm



5212

21pc Utility set

- Utility knife (3pcs blade incl.)
- 5m measuring tape
- Chisel 12mm (150mmL)
- Ribbed chisel 21mm (150mmL); 26mm (200mmL)
- Cape chisel (150mmL)
- Pin punch 2mm (140mmL); 3mm (150mmL); 4mm (190mmL)
5mm (200mmL); 6mm (210mmL); 8mm (215mmL)
- Tape punch 3mm (185mmL)
- Center pinch 4(185mmL)
- Engineer hammer 300gw
- Rubber hammer 400gw
- 3-in-1 Magnetic flexible pickup tool
- 26 sizes Feeler gauges (SAE & Metric)
- LED white light, clip-type (360° rotation)
- Technician's scissors 145mmL
- Gasket scraper



51610

16pc Pliers set

- Round nose pliers 5"
- Flat nose pliers 5"
- Combination pliers 5"
- Long nose pliers 5"
- Needle nose pliers 6"
- Bent nose pliers 6"
- Cutter pliers 6"
- Diagonal pliers 6"
- Circlip pliers
- External straight tip 1.8mm for opening
- Internal straight tip 1.8mm for closing
- External 90° Bent tip 1.8mm for opening
- Internal 90° bent tip 1.8mm for closing
- 4-in-1 Electrical pliers 6"
- Diagonal cutting pliers 6"
- Cable cutter 10"
- Plastic cutting pliers 6"



4341

34pc 1/2" DR. Impact socket & Wheel nut tools

- 6pt. Flank impact socket
- 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 23; 24 mm
- 6pt. Flank impact deep socket
- 10; 12; 13; 14; 16; 17; 19; 21; 22; 24 mm
- Wheel nut 6pt. Flank impact socket (colored)
- 17; 19; 21; 22 mm
- Impact wrench
- Impact extension 5"
- Universal joint (ball type)
- 1/2" Torque wrench
- Foldable cross-handle socket wrench
- 17; 19; 21; 1/2" square (16"L; 400mmL)
- Wheel balancing weight tool

■ Induction circuit tester

2125P1

- Non-contact wire tracer



 100/2.6/3.6/1.6'

 26g

■ Screwdriver probe voltage tester

88401

- Testing range: 110~250V AC.
- Length: 140mm



 200/6.5/7.5/4.6'

 33g



■ Screwdriver probe voltage tester

88402

- Testing range: 110~250V AC.
- Length: 190mm



 200/9.6/10.6/4.6'

 48g

■ Screwdriver probe voltage tester

88403

- Testing range: 110~250V AC.
- Length: 155mm



 200/10.0/11.0/4.6''

 50g



■ Screwdriver probe voltage tester

88404

- Testing range: 110~250V AC.
- Length: 190mm



 100/6.8/7.8/4.6''

 68g



Adjustable non-contact wire tracer

88407



- Testing range: 12~600V AC 50~60HZ.
- Locates breaks along live, insulated wires and power cords.
- Adjustable sensitivity allows tracing of wires behind walls, around switches or receptacle.
- Easy to recognize by audio signal and LED indicator.
- Operates by two LR44, 1.5V batteries included.



 100/5.4/6.4/1.3'  54g

Universal voltage tester

88408



- Testing range: 6~400V AC / DC.
- This voltage tester is designed for industrial purposes and hobbyists and is suitable for domestic voltage and heavy current circuits.
- Display: $\pm 6, 12, 24, 50, 120, 220$
400V AC / DC=LED
(ED): 30sec
I max: 30mA



 60/8.5/9.5/2.7'  142g

Cable cutter

6926315

NEW

- For cutting copper and aluminum cable up to 100 mm².
- Length: 315 mm.



 20/14/15.5/1.4'  700g

■ Cable cutter

6926600

NEW

- For cutting copper and aluminum cable up to 250 mm².
- Length: 600 mm.



 10/17/20.5/2.2'

 1700g

■ Cable cutter

6926800

NEW

- For cutting copper and aluminum cable up to 500 mm².
- Length: 800 mm.



 5/14.5/17/1.66'

 2900g

■ Ratcheting cable cutter

6926R255

NEW

- For cutting copper and aluminum cable up to 325 mm².
- Length: 255 mm.



 30/20/21.7/2'

 667g

■ Ratcheting cable cutter

6926R280

NEW

- For cutting copper and aluminum cable up to 500 mm².
- Length: 280 mm.



 20/19.6/21.6/1.2'

 980g



■ Ratcheting cable cutter

6926R400

NEW

- For cutting copper and aluminum cable up to 500 mm².
- Length: 400 mm.



 15/18.4/19.4/1.86'  1227g

■ Terminal crimping tool

68051

NEW

- Copper tube terminal range: 1.5, 2.5, 6, 10 mm². (DIN)
- Non-insulated terminal range: 1.25, 2, 5.5, 8 mm². (JIS)
- Length: 270 mm.



 30/14.4/18/1.4'  480g

■ Terminal crimping tool

68052

NEW

- Copper tube terminal range: 1.5, 2.5, 6, 10, 16 mm². (DIN)
- Non-insulated terminal range: 1.25, 2, 5.5, 8, 14 mm². (JIS)
- Length: 298 mm.



 30/15.6/19.4/1.4'  520g

■ Terminal crimping tool

68053

NEW

- Copper tube terminal range: 6, 10, 16, 25 mm². (DIN)
- Non-insulated terminal range: 5.5, 8, 14, 22 mm². (JIS)
- Length: 354 mm.



 30/23/28/1.66'  767g

Terminal crimping tool

68055

NEW

- Copper tube terminal range: 6, 10, 16, 25, 38 mm². (DIN)
- Non-insulated terminal range: 5.5, 8, 14, 22, 50 mm². (JIS)
- Length: 375 mm.



 25/22/26/2.1'

 880g

Terminal crimping tool

68056

NEW

- Copper tube terminal range: 16,25,50,70,95 mm². (DIN)
- Non-insulated terminal range:14,22,38,60,80 mm². (JIS)
- Length:660 mm.



 5/17.7/19.4/1.14'

 3540g

Terminal crimping tool

68057

NEW

- Copper tube terminal range:10,16,25,35,50,70,95,120 mm². (DIN)
- Non-insulated terminal range:8,14,22,38,60,70,80,100 mm². (JIS)
- Length:573 mm.



 5/15/16.4/0.64'

 3000g

Terminal hexagonal crimping tool

68071

NEW

- Copper tube terminal range:10,16,25,35,50,70,95,120 mm². (DIN)
- Length:650 mm.



 5/15.5/17.5/1.9'

 3100g



Terminal hexagonal crimping tool

68072**NEW**

- Copper tube terminal range: 25,35,50,70,95,120,150 mm². (DIN)
- Length:650 mm.

 5/15.5/17.5/1.9' 3100g

Hydraulic terminal crimping tool

68081**NEW**

- Designed to accommodate hexagonal, dies of hydraulic tools for applying compression fittings to copper conductors.
- Copper tube terminal range:50 ~ 400 mm²
- Accessories:50,70,95,120,150,185,240,300,400 mm².
- Crimping force:12T



6pc Brake spanner set

50612



Contents:

6-Brake spanner

- 6080610 1/4" Sq. - 10mmSq.
- 6080608 1/4" Sq. - 5/16"OE
- 6080810 8mmHex - 10mmHex
- 6080911 9mmHex - 11mmHex
- 6080607 1/4"Hex - 7mmHex
- 6081109 7/16"OE - 11/32"Sq.

30/17.8/18.8/1.3' 593g

Brake spanner

608



| Part no. | Size | <i>l</i> mm | g | pc/box |
|----------|--------------------|----------------|-------|------------|
| 6080610 | 1/4" Sq.-10mmSq. | 175 | 82 | 10 |
| 6080608 | 1/4" Sq.-5/16"OE. | 175 | 84 | 10 |
| 6080810 | 8mmHex.-10mmHex. | 175 | 82 | 10 |
| 6080911 | 9mmHex.-11mmHex. | 175 | 100 | 10 |
| 6080607 | 1/4"Hex.-7mmHex. | 175 | 84 | 10 |
| 6081109 | 7/16"OE.-11/32"Sq. | 175 | 100 | 10 |
| 6081114 | 7/16"OE.-9/16"OE. | 175 | 102 | 10 |
| 6081113 | 11mmOE.-13mmOE. | 175 | 108 | 10 |
| 6081011 | 10mmOE.-11mmOE. | 175 | 92 | 10 |

24pc Brake service kit

924B1



Use all vehicle manufacturers' recommended procedures for removal and installation.

Contents:

- Brake tool set
- Manual brake gauge set
- Rear disc brake piston cube
- Disc brake pad spreader with 1pc screw
- GM-Ford disc brake piston tool
- Universal twin disc brake pad spreader
- 8pc 3/8" DR. HW1/4", HW3/8", HW7, HW8, HW10, T40, T45, T50

40/11.7/12.7/1' 293g



10pc Professional brake tool set

910B1



- Contains the most popular brake tools used for servicing drum brakes on many import and domestic vehicles.
- Includes three brake spoons of different style for adjusting drum brakes and five different brake spring tools for servicing drum brake shoes.
- The brake shoe spreader pliers allows user to replace the brake wheel cylinder easily without removing return spring, brake shoe and other parts and thus avoid damaging the brake disc or brake shoe.



 6/19.1/20.1/3.5'

 3.2kg

8pc Brake tool set

908B1



- Contains the most popular brake tools used for servicing drum brakes on many import and domestic vehicles.
- Includes three different style brake spoons for adjusting drum brakes, five different brake spring tools for servicing drum brake shoes.

 8/2.3/3.3/0.6'

 288g

Drum brake spring pliers

9B0101



- One end hooks on the spring, the floating cap with hooks grips.
- On the lining fastened to the brake shoe.
- Use for two brake return spring system.
- Can use for most of the commercial and industrial vehicles.



 36/18.0/19.0/2.5'

 500g

■ Brake spring pliers

9B0102



- Designed by professional mechanics to remove and replace springs.
- Thin narrow points with “Straight-In-Line” pull on spring.
- Includes special socket for application on all hydraulic brakes.



 24/9.8/10.8/1.6'  410g

■ Brake spring pliers & claw

9B0103



- Designed to remove and replace springs of drum-type brakes.



 12/15.2/16.2/1'  1260g

■ Handbrake cable spring pliers

9B0104



- For compression of the retaining spring on the handbrake cable.
- This tool allows quick and problem-free removal and installation of the handbrake cable.
- Application: VW, AUDI, BMW, CITROEN, NISSAN, PEUGEOT, RENAULT, ROVER, SEAT, etc.



 72/16.4/17.4/1.6'  230g

■ Drum brake spring pliers

9B0105



- Designed to remove the brake return spring. One end grips on the brake lining and the other hooks on the spring.



 72/20.0/21.0/1.2'  280g

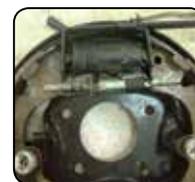


■ Brake shoe spreader pliers

9B0106



Time saving tool significantly reducing the time it takes to remove and install brake wheel cylinders and/or rubber boot.



 24/17.6/18.6/2.7'  730g

■ Headlight adjusting and brake spring hook

9B0304



• This tool made from heat-treated alloy steel is especially designed for removing and installing hard-to-reach headlight adjusting and brake springs.



 120/9.0/10.0/1.7'  75g

■ Brake spring washer pliers

9B0107



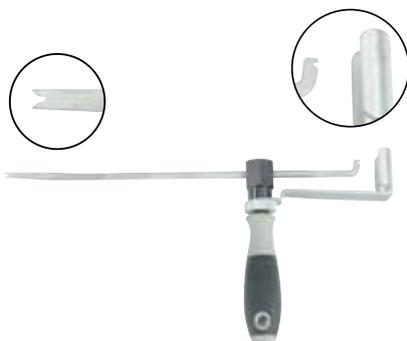
- Universal application for nearly all drum brakes.
- Special neck angle provides easy removal and installation of brake spring washer.
- Length:180.5mm.
- Heat treatment:HRC43°~46°.
- Max Angle:50°.



 40/10.0/11.0/1.05'  250g

■ Brake spring tool

9B0108



- Universal application of both removal and installation for nearly all drum brakes.
- Wide angle application.
- Length:310mm.
- Heat treatment:HRC42°~45°.



 20/9.5/10.5/2.0'  375g

Retainer spring compressor

9T0202

- Allow fast & easy removal & replacement of brake shoe hold-down springs.



96/17.0/18.0/2'



150g



Retainer spring tool

9T0203

- For removal and installation of retaining springs on such drum brakes where the brake pads are not fixed onto the anchor plate.
- Therefore the retaining spring will be inserted into the hook head of the tool and will be tightened by winding the handle.
- The installation happens by pulling the retaining spring with the tool into the correct position.



72/7.3/8.3/1.3'



101g



BENZ Parking brake installer

9B0305

- For pressure spring of parking brake.
- Application: all Mercedes models.



120/13.5/14.5/0.79'



113g



4pc Drum brake piston locking pliers set

904B1

- Set of four pliers for locking drum brake pistons.
- Both ends hold pistons in cylinders, making it easier to replace jaws.
- When the drum brake is took off, it can prevent the piston oil from returning and thus avoid the piston damage.



48/16.5/17.5/3'



344g



■ Brake shoe adjustor tool

9B1701



- Can be used for most of cars.
- Make adjusting easy even for strong springs.



 100/19.0/20.0/2'  190g

■ 8pc Manual brake gauge set

908B2



- The brake gauge tool is designed to give customers an accurate measurement of how much brake lining is left without guess work.
- Most state agencies require that the customer be notified of how much brake lining is left in order to suggest that the lining should be replaced.
- The technician must refer to the OEM manufacturer specifications to determine if the lining is worn below minimum specifications.



- Size including:
 - Red (Bad): 2mm (0.0787") ; 3mm (0.1181")
 - Yellow (Dangerous): 4mm (0.1575") ; 5mm (0.1969") ; 6mm (0.2362")
 - Blue (Good): 8mm (0.3150") ; 10mm (0.3937") ; 12mm (0.4724")

 72/18.0/19.0/1.7'  250g

■ Brake lining gauge

9B1801



- Measures brake lining from 0 to 1/2" in 1/64" graduations.

Instructions:

- Apply jaws to brake shoe. Keeping jaws on shoe, move the indicator arrow to "O". This will automatically subtract the shoe thickness from the total measurement.
- Apply jaws to shoe and lining. The arrow will indicate the amount of lining remaining.



 72/12.5/14.0/1.5'  173g

■ Tire tread and brake lining gauge

9B1802



- Used to measure the amount of lining remaining on riveted and bonded drum shoes and disc brake pads.
- Measures tire tread depth up to 9/16" in graduations of 1/64".
- Checks pads without having to remove caliper completely.



 120/12.0/13.0/1.1'  100g

■ Gauge for brake disc depth & tire tread

9T0106

NEW



- Handy, easy to use.
- Special device to fix the value you obtain while measuring the thickness of brake disc.
- Brake disc measure range: 0 ~ 60mm.
- Measure tyre depth.
- Aluminum made.



 48/12.0/13.0/1.2'  250g

■ Brake air-leaking valve

9B3501



- Designed to release air bubbles inside slave cylinder after replacement to make safe, efficient braking.



■ Brake fluid tester

88501



- Two sensor pins in front of tool to test brake oil.
- LED display:
Green LED: < 1.5% WATER-OK
Yellow LED: 1.5 ~ 3% WATER-MARGINAL
Red LED: > 3% WATER-FAIL



 100/3.5/4.5/1.6'  35g



Brake fluid tester

88502



- To check the quality of brake fluid.
- 5 LED to indicate percentage of water in the brake fluid.
- LED display:
 - Green: Battery OK/NO water is detected.
 - Green/Yellow: Less than 1% of water.
 - Green/Yellow/Yellow: Approx 2% of water.
 - Green/Yellow/Yellow/Red: Approx 3% of water.
 - Green/Yellow/Yellow/Red/Red: At least 4% of water.



100/7.0/8.0/1.5'  70g

Master cylinder pressure test kit (brake & clutch)

914B2



- Verify master cylinder operation.
- You can check the following problems : bypassing and internal leaks, restricted compensating ports, improper push rod adjustment and power booster problems.
- One 0-3,000 PSI gauge, 11pc adaptors, one 90° elbow fitting, one 45° elbow fitting.



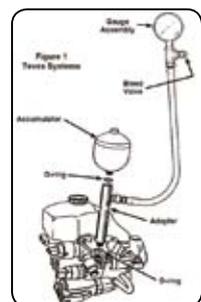
6/8.7/9.7/2.6'  1440g

Deluxe brake pressure test kit

924B2



- Kit contains a complete set of fittings and gauges for pressure testing ABS and conventional brake systems on Chrysler, Ford, GM, Jeep, and import vehicles.
- Dual scale dial-standard scale 0-3,000 psi and metric scale 0-200 kg/cm². 4,500 psi rated pressure hose assembly.
- Includes 20-piece adaptor, one 90° elbow fitting, one 45° elbow fitting.



3/10.1/11.1/1.5'  3370g

■ Brake calliper guidance thread repair set

914B1



- For repairing the guide pin threads in the wheel bearing housing.
- With disassembly of guide pins while changing the brake pads the internal threads are frequently destroyed.
- The defective threads are repaired professionally and quickly with a heavy duty rustproof high-grade steel threaded bush.
- Applicable: VW, AUDI



 36/17.0/18.0/1.2'  470g

■ 5pc T-handle with reamer for ABS sensor

905T9

NEW



- A specifically-designed reamer set complete with 1/4" Drive T-bar handle and complete with 4 popular-sized reamers.

Reamer size:

14 x 42.5L BMW E38/E39/E52/E60/E61/E63/E64/E65/E66/ E67/E70/E71

15 x 33.5L Mercedes Benz A-class, Mazda ,TOYOTA and Ford

18 x 31.5L VW, AUDI, SEAT, SKODA, BMW E36+E46

18 x 42.5L VAG and NFZ



 48/12.0/13.0/1.2'  250g

■ 3pc 1/2"DR. Pentagon socket set

4036

NEW



- 1-Pentagon socket bit 10mm (55mmL)
- 2-Pentagon socket: 14; 19 mm
- For using on grling and bendix brake systems.
- Application: Opel / Vauxhall (Astra G, Zafira), Smart , Ford, Mazda, Peugeot, Renault



1/2"DR. Pentagon socket 14mm / 19mm

65014 / 65019



65014



65019

- 14mm : for pentagon brakes on rear brake, Opel Astra G, Zafira, Smart
- 19mm : for Bendix brakes, Citroën, Peugeot, Renault

1/2" Pentagon socket bit 10mm side

65001



- Application on girling brakes.

| Part no. | bit | <i>l</i> mm | g | pc/box |
|----------|-----|----------------|-------|------------|
| 65001 | | 55 | 94 | 10 |

BRAKE/
TRANSMISSION

Disc brake pad spreader

9B0401



- Designed for quick and easy changing of disc brake pads.
- Spreader will compress inner pad and reset piston for easy pad replacement in heavy duty construction.



60/14.7/15.7/3.9' 245g

Disc brake adjuster

62901



Fits in brake caliper to push back pistons for new brake pads installation.



20/22.1/23.1/1.3' 1100g

■ Disc brake piston compressor (4 pistons)

62902



- Special wider pusher design to use on 4 pistons vehicle.
- Max. working range: 88mm
- Applicable: BENZ, BMW, and 4 pistons vehicle.

 8/13.4/14.4/1.1'

 1675g

■ Brake piston wind back pads

903B1

NEW



- Brake pad range: 0 ~ 100 mm.
- The pad open jaw: 10 ~ 90 mm.

■ 27pc Brake piston wind-back set

927B1



- This tool has been designed to drastically reduce the time taken when dismantling brakes.
- Will not mark or damage the working part of piston.
- Removes frozen pistons with ease.
- Applicable: ALFA ROMEO, CITROEN, FIAT, VW, AUDI, FORD, ROVER, LINCOLN, NISSAN, SUBARU, HONDA, BMW, MITSUBISHI, TOYOTA, PEUGEOT, OPEL, RENAULT, JAGUAR, MAZDA, VOLVO, VAUXHALL, SAAB, LANCIA

 6/26/27/1.7'

 4340g



7pc Brake caliper piston tools set

658



- Kit comprises main body, screw assembly, special locating plate and 5 adaptors covering wind-back.
- Applicable: VW, AUDI, FORD, PEUGEOT, ROVER, NISSAN, SUBARU, HONDA, BMW, MITSUBISHI, TOYOTA, JAGUAR, MERCEDES, MAZDA.

 12/16.3/17.3/1.3'  1360g



13pc Disc brake park caliper tools set

65802



- For rotating pistons back into the caliper to provide clearance for new pads. Include 11 adaptors (available individually) for use in both 2 and 4-wheel rear disc brake assemblies of most domestic and import cars. The tool may be used "on" and "off" the car.
- Suitable for: MERCEDES, BMW, VW, GM, AUDI, FORD, HONDA, SUBARU, MAZDA, NISSAN, MITSUBISHI, TOYOTA, ROVER, 4WD, OPEL, RENAULT.

 10/20.1/21.1/1.8'  2kg



18pc Universal caliper wind back kit

65805



- Two bodies with positive thread and negative thread for different vehicles.
- With one plate and fifteen adaptors to fit most of the cars.
- Applicable: Citroen, AUDI, FIAT, FORD, ISUZU, HONDA, JAGUAR, BMW, NISSAN, MITSUBISHI, VW, SAAB, MAZDA, TOYOTA...etc.

 10/25.5/26.5/1.87'  2480g



27pc Brake caliper tool

927B2



- Two rotating caliper with left and right side thread.
- Applicable: GM, MERCEDES, ALFA ROMEO, CITROEN, FIAT, VW, AUDI, FORD, ROVER, LINCOLN, NISSAN, SUBARU, HONDA, BMW, MITSUBISHI, TOYOTA, PEUGEOT, OPEL, RENAULT, JAGUAR, MAZDA, VOLVO, VAUXHALL, SAAB, LANCIA.

 5/16.0/17.0/1'

 3kg

16pc Air powered brake caliper wind back tool set

65815



- Air Pressure: The range of normal using pressure is 5 ~ 8 kg/ m²; maximal using pressure is 14 kg/m².
- Applicable: Citroen, AUDI, FIAT, FORD, ISUZU, HONDA, JAGUAR, BMW, NISSAN, MITSUBISHI, VW, SAAB, MAZDA, TOYOTA...etc.



 5/15.7/16.7/2'

 3140g

Brake caliper tool

65803



- For rewinding the piston in all collets type disc brake calipers with built-in parking mechanism.
- Essential for fast and easy pad replacement and caliper servicing.
- Suitable for: FORD, HONDA, JAGUAR, MAZDA, MITSUBISHI, NISSAN, ROVER, SUBARU, TOYOTA, with ABS.



 30/21/22/0.9'

 700g



Disc brake park caliper tool

65804



- This tool set is a "must" when installing new brake pads on vehicles with 4 wheel disc brakes.
- Rotate the tool on the parking brake actuator to retract the piston.
- Works on most GM vehicles with 1 1/2" brake pistons, most Ford vehicles, Pontiac Fiero, and imported vehicles.



 24/16.6/17.6/3'  691g

Universal caliper piston remover

907T3



- Quick change design for 3 sizes of adapter
- Rang from 25mm to 35 mm
- Adapter a. range from 35mm to 45mm.
- Adapter b. range from 45mm to 55mm.
- You can easily take out the piston with assistant handle.



 18/18.0/19.0/1.8'  1000g

Rim wrench

677



| Part no. | Size | <i>l</i> mm |  g |  pc/box | O.D. mm |
|--|-------------|----------------|--|---|------------|
| 6771921  | 19x21 | 300 | 1000 | 5 | 16 |
| 6771924 | 19x24 | 300 | 1020 | 5 | 16 |
| 6772123  | 21x23 | 300 | 1100 | 5 | 16 |
| 6772224 | 22x24 | 400 | 1300 | 5 | 19 |
| 6772427 | 24x27 | 400 | 1320 | 5 | 19 |
| 6772432S  | 15/16x1-1/4 | 400 | 1330 | 5 | 19 |
| 6772730 | 27x30 | 400 | 1330 | 5 | 19 |
| 6772732 | 27x32 | 400 | 1380 | 5 | 19 |
| 6772733 | 27x33 | 400 | 1400 | 5 | 19 |
| 6772833 | 28x33 | 400 | 1410 | 5 | 19 |
| 6773032 | 30x32 | 400 | 1440 | 5 | 19 |
| 6773033 | 30x33 | 400 | 1440 | 5 | 19 |
| 6773233  | 32x33 | 400 | 1495 | 5 | 19 |
| 6773238 | 32x38 | 400 | 1535 | 5 | 19 |
| 6773821 | 38x21sq. | 400 | 1520 | 5 | 25 |
| 6773822  | 38x22sq. | 400 | 1520 | 5 | 25 |
| 6774121 | 41x21sq. | 400 | 1550 | 2 | 25 |
| 6774121L  | 41x21sq. | 450 | 1800 | 1 | 25 |

Wrench bar

677



| Part no. | O.D. | <i>l</i> mm | g | packing |
|----------|------|----------------|-------|-------------------|
| 67701 | 19mm | 630 | 1400 | 15/21/22/0.32' |
| 67702 | 25mm | 630 | 3500 | 10/24/25/0.32' |
| 67701400 | 19mm | 400 | 890 | 25/22/23/0.2' |
| 67703 | 16mm | 400 | 630 | 30/18.9/19.9/0.2' |

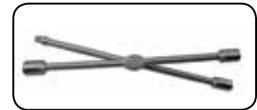
Foldable cross-handle socket wrench

681



Socket size: 17mm; 19mm; 21mm; 1/2" square

Folded



| Part no. | packing | <i>l</i> length | g |
|----------|-------------------|--------------------|-------|
| 681400 | 12/17.9/18.9/1.2' | 16"(400mm) | 1490 |
| 681500 | 10/17.6/18.6/1.1' | 20"(500mm) | 1760 |

Assembly wheel nut wrench

681A300



- 17mm; 19mm; 13/16"; 1/2"DR. (300mmL)
- Chrome vanadium alloy steel
- For most car wheel nuts in metric
- Polished, chrome plated



20/22.2/23.2/0.63' 1110g

Wheel nut wrench

681B400



- 17; 19; 21; 22 mm with 1/2"DR. Adapter (400mmL)
- Chrome vanadium alloy steel
- For most car wheel nuts in metric
- Polished, chrome plated



12/18.6/19.6/0.97' 1550g



1/2"DR. Quick power wheel nut ratchet handle

681D515



NEW

- Removes stubborn wheel nuts quickly and easily.
- Torque multiplier increases torque by 3.5 by using the lever arm.
- The lever arm should never be used to tighten nuts due to the possibility of over tightening.
- Length:515 mm



 10/23.0/24.01.1'

 2300g

9pc Wheel specialized torque tool set

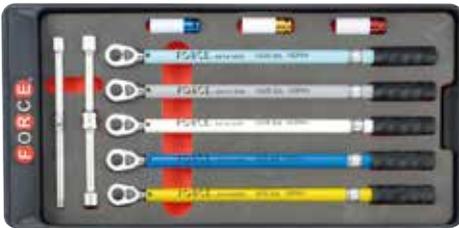
64707

Content: 1/2" DR.

6474 088N...190N 5- Torque wrench
88; 108; 135; 163; 190 Nm

44585 17C...21C 3-Wheel nut 6pt. flank impact socket (85mmL)
17; 19; 21 mm

681A300 1-Assembly wheel nut wrench
17; 19; 13/16"; 1/2"DR. (300mmL)



 1/12.4/13.4/0.85'

 12.4kg

3pc 1/2"DR. Wheel nut impact socket set

4032

Contents: 1/2"DR.

44585 17C...21C 3-Wheel nut 6pt. flank impact socket
17; 19; 21mm (85mmL)



 Socket

 24/22.3/23.3/1.1'

 930g

3pc 1/2"DR. Wheel nut impact deep socket set

4033



Contents: 1/2"DR.

445150 17C...21C 3-Wheel nut 6pt. flank impact socket
17; 19; 21mm (150mmL)



Socket



20/25/26/1.3'



1250g

3pc 1/2" DR. Hydraulic dual torque impact socket set

4035



- Designed for fastening the lug nut quickly and securely.
- It includes 1/2" DR. 17, 19 and 21mm for ultra thin type.
- Torque range: 115Nm±6% (85ft/lbs±6%)
Set up the working air pressure at 90 Psi. (6.2 bar; 6.3kg/cm²; 62pa), and ensure the power deliver of the impact wrench between 190~210 Nm. (140~155ft/lbs)

Loosen



Tighten



Socket



24/30/31/1.1'



1250g

3pc 1/2" DR. 6pt. Flank impact thin-wall deep socket set

4032TH



Contents: 1/2"DR.

44585 17TH...21TH 3-6pt. Flank impact thin-wall deep socket
17, 19, 21 mm



Socket



24/18.5/19.5/1.1'



770g



4pc 1/2" DR. Hydraulic dual torque impact socket set

4045



- Designed for fastening the lug nut quickly and securely.
- It includes 1/2" DR. 17, 19, 21 and 22mm for ultra thin type.
- Torque range: 115Nm±6% (85ft/lbs±6%)
- Set up the working air pressure at 90 Psi. (6.2 bar; 6.3kg/cm²; 62pa), and ensure the power deliver of the impact wrench between 190~210 Nm. (140~155ft/lbs)

Loosen



Tighten



 Socket
  12/19.0/20.0/0.75'
  1583g

4pc 1/2" DR. Wheel nut 6pt. flank impact socket set

4046



Content: 1/2"DR.

44585 17C...22C 4-Wheel nut 6pt. flank impact socket
17, 19, 21, 22mm

 Socket
  12/13.8/14.8/0.75'
  1150g

4pc 1/2" DR. Wheel nut 6pt. flank impact socket set

4046A



Content: 1/2"DR.

44585 15C...21C 4-Wheel nut 6pt. flank impact socket
15, 17, 19, 21mm

 Socket
  12/13.7/14.7/0.75'
  1141g

4pc 1/2" DR. Wheel nut 6pt. flank impact socket set

4046B



Content: 1/2"DR.

44585 17C...23C 4-Wheel nut 6pt. flank impact socket
17, 19, 21, 23mm

 Socket
  12/16/17/0.87'
  1333g

11pc 3/4" DR. Truck wheel impact socket set

6113



NEW

Content: 3/4" DR.

46190 17...21

2- Square impact deep socket 17; 21mm

46190 13.16

1- Square impact deep socket 13/16"

465100 33...41

4- 6pt. Flank impact deep socket
33; 35; 38; 41 mm

465100 1.1.16...1.1.2

4- 6pt. Flank impact deep socket
1-1/16; 1-1/8; 1-1/4"; 1-1/2"

 3/27.5/28.5/1.5'

 9150g

7PC 1/2" DR. Wheel lug nut removal socket set

907U5



NEW

- For removal of wheel locking nuts.
- May also be used on fixings too damaged or corroded for standard sockets.
- Suitable for use with impact wrenches.
- Size: 1/2" DR X 38mm(L) X 17mm, 18.5mm, 20mm, 21.5mm, 23mm, 24.5mm, 26mm



 20/18.0/19.0/1.6'

 900g

Wheel nut socket for Mercedes-Benz

9T0206

NEW



- 17mm wheel nut socket with convex for Mercedes Benz
- Application: Mercedes Benz 221(S Class) and later CL Class and Maybach



Reverse action wheel stud thread restorer kit

906T5

NEW



- 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.
- Traditional thread restorers rely on luck for the restored and undamaged threads to align.
- Three sizes of product a set of capacity: M12 X 1.25 ; M12 X 1.5 ; M14 X 1.5



 50/13/14/1.2'

 260g



Wheel balancing weight tool

6821



 30/12.6/13.6/1.3'  245mm  420g

- Easily removes and replaces wheel weights, as well as cutting and crimping.
- Made of heat-strengthened steel. Included comfortable vinyl handle grips.
- With self-open function spring on the handle for easier operation.

Wheel balancing weight tool

9T0302



 48/24.0/25.0/2.7'  500g

- Use to install, remove, trim and tighten clip on wheel weights.
- Includes plastic hammer head for protection of specially coated wheel weights.



BRAKE/
TRANSMISSION

Tyre lever

750



| Part no. |  packing |  length |  g |
|----------|---|--|---|
| 750200 | 100/14.6/15.6/0.56' | 200 | 162 |
| 750300 | 120/31.6/32.6/0.6' | 300 | 370 |
| 750380 | 60/22.9/23.9/0.5' | 380 | 556 |
| 750380B | 60/22.9/23.9/1.2' | 380 | 382 |
| 750500 | 30/22.0/23.0/0.69' | 500 | 732 |
| 750525B | 30/24.0/25.0/0.69' | 525 | 800 |
| 750650 | 20/23.2/24.2/0.54' | 650 | 1160 |
| 750650B | 20/21.8/22.8/0.7' | 650 | 1160 |



■ Snap in tire valve installer

9B0301 / 9B0302



Steel constructed tool with deep threaded head for positive sealing of all snap-in type passenger car tire valve stems.



| Part no. |  packing |  g |
|----------|---|---|
| 9B0301 | 48/16.8/17.8/0.87' | 350 |
| 9B0302 | 48/17.1/18.1/3' | 356 |

■ 3 Function tire pressure gauge

9T0401



NEW

Advantages:

- Measure the tire pressure precisely.
- Release unnecessary pressure.
- Inflate the tire quickly.
- Specification: 1/4"PT / Max pressure: 14kgf/cm² (200 PSI) / Nozzle length: 30cm

 12/7.0/8.0/1.8'  680g

■ Dual check

9T0402 / 9T0403

9T0402



NEW

9T0403



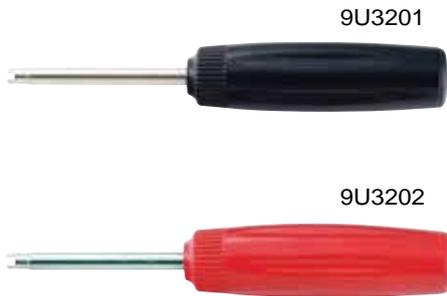
NEW

| Part no. | <i>l</i> length |  packing |  g |
|----------|--------------------|---|---|
| 9T0402 | 6 | 100/7.0/8.0/1.1' | 75 |
| 9T0403 | 12 | 100/17.0/18.0/2.5' | 140 |



2pc Tire valve torque driver set

902U3



- Tools have internal torque limiting mechanism to prevent over-torquing of tire pressure monitoring system valve cores.
- A must for the tire pressure monitoring system valves to maintain proper tire pressure.
- Each tool is set for a specific maximum torque:
Red-25 Ncm (2.2 IN. LB)
Black-45 Ncm (4 IN. LB)



100/12.0/13.0/1.8' 120g

4pc T-handle disclosed tire repair tool set

904T4



For steel belted radial tire. T-handle disclosed tire repair tool is for inserting plugging material typically in the form of rubber coated strands, into a tire puncture. The plugging material is threaded into the open eye of a needle forming a part of the tool and inserted into the puncture. The inserting motion is limited by a stop free to rotate on the needle's shank so that the ends of the strand are not drawn into the puncture and the stop also limits the withdrawal of the needle.



72/25.5/26.5/2.7' 354g

Roller stitcher

9T0407



NEW

- Wood handle for light and portable.
- Bearing inside for easier using.

60/7.4/8.4/0.9' 123g

2pc Wheel stud alignment guide tool set

902B1



- Assists when mounting wheels, especially late models with long lug bolts.
- Applicable: all Mercedes models with lug bolts.
- Size: 12mm x 1.5



200/9.0/10.0/2.7' 45g

2pc Wheel stud alignment guide tool set

902B2



- Assists when mounting wheels, especially late models with long lug bolts.
- Applicable : all Mercedes models with lug bolts.
- Size: M14X 1.5

 72/8.4/9.4/1.5'

 116g

8pc Wheel stud alignment guide tool set

908B3



- Assists when mounting wheels, especially late models with long lug bolts.
- Applicable: all Mercedes models with lug bolts.
- Size: 12mm X 1.5
12mm X 1.25
12mm X 1.75
14mm X 1.5

 24/19.0/20.0/0.8'

 790g

BENZ Bush remover / installer

9T0307



- Removal and replacement tool for metallic bushes on rear axles Mercedes type 201/124/202/140/129/210.
- The Tool incorporates an axial bearing and also incorporates a pressure piece which guarantees the correct position of the new metallic bushes when replaced.



 10/19.5/20.5/1.5'

 11.7kg

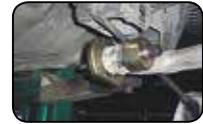


■ BENZ (W140) Lower control arm bushing remover / installer

9T0308



- Used for R&R of rear wheel bearing located in wheel carrier.
- This tool can also be used to install the rear axle shaft flange.
- Application: Mercedes models W140(S-CLASS)



 4/22.5/23.5/1.2'  5.6kg

■ BENZ (W210) Lower control arm bushing remover / installer

9T0309



- Used for R&R of rear wheel bearing located in wheel carrier.
- This tool can also be used to install the rear axle shaft flange.
- Application: Mercedes models W210(New E-CLASS)



 4/22.5/23.5/1.2'  5.6kg

■ BENZ (W202, W170) Lower control arm bushing remover / installer

9T0310



- Used for R&R of rear wheel bearing located in wheel carrier.
- This tool can also be used to install the rear axle shaft flange.
- Application: Mercedes models W202, W170(C-CLASS)



 4/20.0/21.0/1.2'  5kg

■ BENZ Axles wheel bearing extractor / installer

9T0311



- A great tool used to replace front wheel bearings without removing the steering knuckle & strut assembly.
- As the spindle assembly isn't removed, there is no need to align front end after the job is done. It saves a lot of time.
- Application: Mercedes Benz, BMW, TOYOTA, VW, MARCH, FORD, VOLVO.



 2/18.4/19.4/0.6'  9200g

■ BMW (E30, E36, E46) Bush extractor

9T0313



- Used for R&R of rear wheel bearing located in wheel carrier.
- Application: BMW E30, E36, E46



 8/18.7/19.7/1.2'  2340g

■ 8pc BMW (E30, E36) Ball joint remover / installer

908T3



- For removing and installing the ball joint using a hydraulic press.
- Application: BMW E30, E36



 5/28.5/29.5/2.46'  5.7kg



■ BMW swing arm sleeve

903T5

NEW

- No need to take off the swing arm
- Easy operation saves time
- Aluminum adapter prevents sleeve damage
- Aluminum circumference adapter can be switched when needed.



■ Sub frame bush remover (Ford Mondeo)

905T5

A specially designed tool for removing and installing the bushes on the rear sub frame on Ford Mondeo.

Contents

A Bridge / B Double headed nut / C Cup / D Bolt / E Dome Washer



 20/21.1/22.1/1.4'  1050g

■ Rear suspension tool for GM VECTRA

908T6

Removing and replacing those stubborn upper and lower rear trailing arm bushes on GM VECTRA'S.



 10/17.7/18.2/1.2'  1770g

■ Rear axle bush insertion tool for VW / AUDI

908T7



- For the insertion of the bonded rubber / plastic rear axle mounting bushes as fitted to: AUDI A3 / VOLKSWAGEN GOLF IV / BORA MODELS: 1.4 1.6 1.8 2.0 & 1.9D / TD (2001-2003)
- Suitable for use in situ without removing the rear axle assembly from the vehicle.

12/14.7/15.7/1.1'  1225g



■ 5pc VW, AUDI Rear suspension tool

905T4



- Special design for replacing the rear axle mounting bushes, while sit in the vehicle and without the need for removing the rear axle assembly.
- Its fine thread and thrust bearing allow the bush to be fitted quickly and easily without causing damage.
- Applicable: Audi A3/ VW Golf IV/ Bora 1.4/ 1.6/ 1.8/ 2.0 and 1.9d (2001~2003)

36/21.0/22.0/1.8'  580g



■ Bush remover / installer for VW

907T6

NEW



- Suitable for VW Polo (9N) front-axle bracket wishbone silent blocs.
- The removal and replacement of the silent bloc placed in dir bracket is easily and safely carried out directly on the vehicle by using the extractor.
- Applicable: VW - Polo (9N)
SEAT - Ibiza IV, Cordoba (ab Bj. 02) Altea
Skoda - Fabia, Roomster
AUDI - A2.

6/18.0/19.0/1.5'  3000g



21pc Compact wheel hub/bearing kit , Ø 62mm,Ø 66mm, Ø 72mm

921T1



- Professional fitting direct on the vehicle (removal with existing wheel hub extractor or universal sliding hammer).
- Minimum working effort and maximum time saving.
- Simple and safe handling.
- **Only for installation.**
- Can also be optionally used with a workshop press.
- Possible extensions for bearing unit Ø 62+66+72 mm due to the modular system
- Application: Audi A2 , Audi A2 1.2L , VW LUPO , VW Polo FOX , Seat Ibiza , Skoda Fabia



 1/12.6/13.8/1.0'  12600g

Wheel hub and wheel bearing extraction & installation set for VW-T5

917T3



NEW

- For removing and installing the wheel hub or wheel bearings of built-in parts on cars.
- Suitable for cars with Ø 85mm wheel bearings.
- The design can prevent damage to the new wheel bearing because it provides safe and accurate centering and alignment when changing wheel bearings.
- Application: VW - T5 (front axle) and Touareg with 16 inch chassis

 2/16.3/16.8/1.0'  8150g

Removing



Insertion



Wheel hub and wheel bearing extraction & installation set for Ford / Volvo / Mazda

913T2



NEW

- For removing and installing the wheel hub or wheel bearings of built-in parts on cars.
- Suitable for cars with Ø 78mm wheel bearings.
- The design can prevent damage to the new wheel bearing because it provides safe and accurate centering and alignment when changing wheel bearings.
- Application: Ford - Focus 2(2004-). CMAX(2003-07. 2007-)
Volvo - C 3 0 (2 0 0 6 -) . C 7 0 2
Cabriolet(2006-). S40(2004-).
V50(2004-)
Mazda - M3 1.4,1.6, 1.6D TURBO(2003-)



Removing



Insertion

 2/17.5/18.5/1.2'  8750g

Professional wheel bearing tool set for BENZ

927T1

NEW



- This tool can make safe, quick and professional replacement and removal of wheel bearing.

- Adaptor ring: Centring Rings - 42, 45, 49, 50, 54, 60, 80mm

Pressure Rings - 66, 70, 73, 75, 79, 83, 84, 85, 87, 88, 90, 93mm

- Application: 190 series (W201), A-Class (W168; W169), B-Class (W245; W124) C-Class (W202; W203), E-Class (W210), M-Class (W163; W164) S-Class (W140), V-Class (W639)



1/14.6/15.6/1.3'

14480g

Professional wheel bearing tool set For Peugeot / Citroen / Renault

920T2

NEW



- This tool can make safe, quick and professional replacement and removal of wheel bearing.

- Adaptor ring: Centring Rings - 35, 37, 42, 45, 60, 75 mm
Pressure Rings - 65, 72, 82, 83 mm

- Application: Peugeot, Citroen, Renault



1/12.0/13.0/1.3'

11400g

Universal bush remove and install sleeve

933T1

NEW



- Universal application of step discs for bearing bush, silent bearing, hydraulic bearing, and rubber bearing on many kinds of different vehicles.

- 20pcs sleeves: ID ϕ 34~ ϕ 72mm (in 2mm increment)

- 2pcs step discs: use with sleeves.

- 4pcs bolts: M10, M12, M14, M16;

- Length: 450mm



1/18.0/19.0/1.1'

18270g



Front wheel driver puller

920T1

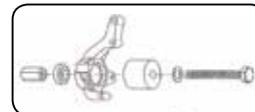


- A great tool used to replace front wheel bearing without removing the steering knuckle & strut assembly.
- As the spindle assembly isn't removed, there is no need to align front end after the job is done.
- 3pc M12 x P1.5 screws
- 3pc M14 x P1.5 screws

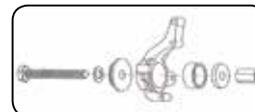
2/16.7/17.7/1.1'

8350g

Remove



Install



4WD Front wheel bearing tool

924T1



- 21pc Bearing cup size:
38, 50, 55, 59, 63.5, 66.5, 70.5, 71.5, 73, 73.5, 74.5, 76, 77.5, 81.5, 83.5, 86, 86, 88.5, 91, 102, 102mm
- 1pc Nut
- 1pc Screw
- 1pc Washer

2/21.5/22.3/1.5'

10.5kg



Hydraulic steering system pull tool set

949T1



- This set could disassemble damaged bushing and replace new one except the bushing without the hole.
- There is no effect when the control arm is on the car.
- Hydraulic cylinder max. load : 18.2t
- 4 spindle size: Ø 10mm; Ø 12 mm; Ø 14 mm; Ø 16 mm

1/20.6/21.6/2.9'

20.6kg

Remove



Install



Manual steering system pull tool set

950T1



- This set could disassemble damaged bushing and replace new one except the bushing without the hole.
- 4 spindles are especially designed for small bushes and they are available when the control arm is still on the car.
- Hydraulic cylinder: 10 t
- Four pull spindles: M10X1.5P ; M12X1.75P; M14X2.0P; M16X2.0P

Remove



Remove



Install



Install



1/30.6/31.6/2.9'

30.6kg

10pc Bearing race and seal driver set

66603



Makes it easier to insert wheel bearing race and seals without damage to race and axle housing. The set includes 9 disc sizes to fit most standard wheel bearing. Turn discs over to drive seals.

10/17.8/18.7/2.3'

1780g



14pc Master bushing driver, seal, and bearing installer set

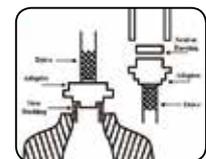
915U2



- Set includes four drive handles and 11 adapters (most adapters have 3 or 4 size each)
- Works in any industry, automotive.
- Makes it easier to insert wheel bearing race and bushing seals without damage.

2/16.0/17.0/ 0.78'

8kg



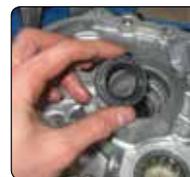
17pc Metric bushing driver set

917T1



- Adaptors held on drivers with knurled nut.
- Fit all remaining bushing.
- Size: 10mm-42mm.

 24/17.7/18.7/2'  737g



8pc Adjustable wheel bearing lock nut wrench

908T1



- Adjustable jaws with locking feature to suit both hexagon & octagon wheel bearing lock nuts.
- Includes three sets of pins to suit lock nuts with pin holes.
- Capacity:
 - 6pt lock nuts: 1.3/4" to 5.1/4"(49-135mm) across the flats
 - 8pt lock nuts: 1.3/4" to 5.5/8"(49-143mm) across the flats
 - Pin diameters: 1/4"(6mm), 5/16"(8mm), 3/8"(10mm).

 6/14.8/15.8/1'  2466g



17pc Slide hammer puller set

664

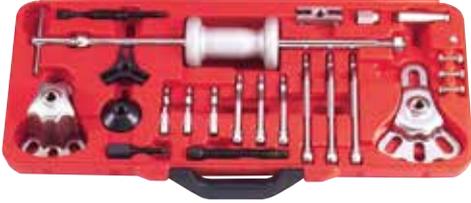


- Designed for removing hub, dent...etc.
- With most popular joints and 3-jaw puller to fulfill most vehicles.
- Content: T-bar, hammer, axle puller, adaptor, 2-jaw head, 3-jaw head, hook and accessories.

 2/14/15/1.1'  7kg

Slide hammer puller set

664A



Slide hammer puller set has several pulling attachments to give the user various methods for pulling, maintenance and repair applications; the slide hammer exerts force when needed.



 2/19/20/1.9'

 9.5g

2pc Axle puller

66401



- Central hole to screw hole 130mm
- Drop forged



 24/24.0/25.0/1.6'

 1000g

3pc Axle puller

66402



- Central hole to screw hole 130mm
- Drop forged



 4/16.6/17.6/1.6'

 4150g



3pc Axle puller

66403



- Central hole to screw hole 110mm
- Drop forged



 18/22.7/23.7/2'

 1260g

3pc Axle puller

66404



- Central hole to screw hole 110mm
- Drop forged



 4/17.5/18.5/1.3'

 4375g

Ball joint separator

62801



- Heat treated drop forged steel body & bolt for long rough usage.
- Spread ball joints easily where space prevents use of direct action method.
- Jaws open: 19mm



 20/24.4/25.4/1.3'

 1220g

Ball joint separator

62802



- For splitting track-rod ends, anti-roll bar mountings, ball joints, etc.
- Jaw open: 20mm



 20/21/22/1'

 1050g

Ball joint separator

62803



- For splitting track-rod ends, anti-roll bar mountings, ball joints, etc.
- Jaw open: 20mm



 20/21.2/22.2/0.97'  1060g

Ball joint separator

62804



- Special design 2-stage operating suits most cars and light trucks ball joints in steering & suspension.
- Offset lever permits maximum jaw opening in 30mm & 56mm.
- Jaw open: 22mm



 20/24.3/25.3/0.97'  1218g

Ball joint separator

62805



- This universal tie rod end remover will work on most cars and light trucks.
- The necessary force needed to remove tie rod end is easily applied through the center pivot action.
- Fork opening: 20mm
- Reach: 20mm-50mm
- Suitable for: VW-AUDI, BMW, FIAT, FORD, MERCEDES, NISSAN, OPEL, PEUGEOT, RENAULT, ROVER, SAAB, TOYOTA, VOLVO.



 20/26.2/27.2/1.1'  1310g

Ball Joint extractor

62806



- For splitting track-rod ends, anti-roll bar mountings, wheel-hub ball joints, etc.
- Jaw open: 22mm
- 2-Stage, 50-80mm.

 12/18.2/18.7/0.96'  1620g



■ Universal ball joint extractor

6281518 / 6281522
6281532 / 6281545

- For splitting track-rod ends, anti-roll bar mountings, ball joints, etc.



| Part no. | size mm |  packing |  g |
|----------|------------|---|---|
| 6281518 | 18 | 20/13.9/14.9/0.46' | 695 |
| 6281522 | 22 | 15/10.7/11.7/0.6' | 715 |
| 6281532 | 32 | 10/23.6/24.6/1.4' | 2360 |
| 6281545 | 45 | 10/25.5/26.5/1.4' | 2550 |

■ Ball joint separator

62816



- Special designed a hitting base in back of the jaws for hitting the ball joint base to remove easily.
- The design will make the ball joint shaking strongly when you hit the remover.
- Jaws open: 21mm



 10/14.0/15.0/0.41'  1400g

■ Hydraulic HGV ball joint separator

903T2



- For separating HGV ball-joint. Strengthened fork and lever allows for greater force to be applied.
- Remove ball joints easily where space prevents use of direct action method.
- Jaw opening capacity 70 mm; Jaw width 36 mm
- Patented Hydraulic ram provides max. 12 tons.
- SCM 440 material

 2/14.0/15.0/1'  7kg

■ Quick-change ball joint remover

905T8



- Innovative quick change and simple action for suitable fork.
- Enable operator to select correct jaw size without taking entire extractor to the vehicle.
- Adjustable opening angle.
- Jaw opening: 20, 22, 24, 27, 30 mm.
- Thrust Screw Length: 100 mm.
- Pivot Rod Length: 125 mm.



 3/18.0/19.0/1.0'  6000g

Ball joint extractor

6280723 / 6280728



- For splitting track-rod ends, anti-roll bar mountings, ball joints, etc., especially in small space conditions.
- **6280723** is for Audi VW, BMW, Ford, Mercedes (W170, W202, ETC), Opel / Vauxhall, etc.
- **6280728** is for Audi A4, A6, A8, VW Passat and Mercedes W203 etc.



| art no. | Jaws open mm | Jaws deep mm |  packing |  g |
|---------|-----------------|-----------------|---|---|
| 6280723 | 23 | 25 | 30/24.8/25.8/0.99' | 826 |
| 6280728 | 28 | 25 | 30/24.1/25.1/0.99' | 800 |

Universal ball joint puller

6280817 / 6280820



Special steel for removing the ball pivots on steering arms, steering tie rocks, steering knuckles etc.

| Part no. |  packing | <i>l</i> jawopen |  g |
|----------|--|---------------------|--|
| 6280817 | 20/20.4/21.4/1.5' | 17mm | 1020 |
| 6280820 | 20/23.4/24.4/2.1' | 20mm | 1170 |

Universal ball joint separator

62809



- Special steel for removing the ball pivots on steering arms, steering tie rocks, steering knuckles, etc.
- Jaws open: 30mm

 10/ 9.0/10.0/0.49'  2900g

Four-way ball joint remover tool

62819



- Heat treated drop forged steel body & bolt for long rough usage.
- Spread ball joints easily where space prevents use of direct action method.

Total length: 165mm
Opening angle: 24mm ~ 45mm
Jaw opening: 22mm
Body material: SCM440

 10/16/17/0.5'  1600g



Front end service set

906T3



- This versatile set allows for easy removal of the most popular types of pitman arms, tie rods and ball joints.
- Press type ball joint separator allows for ball joint removal without damage to boots and other parts that fork type removers may cause.

 3/15.6/16.6/1.25'  5.2kg

Tie rod end & pitman arm puller for compact cars

62811



- For the safe easy removal of pitman arm assembly from compact automobiles.
- Forged, heat-treated yoke with extra heavy center screw
- Opening: 1-1/16"(27mm)
- Pull: 1-3/4"(45mm)



 20/8.9/9.9/0.46'  445g

Tie rod end & pitman arm puller

62812



- Redesigned heavy duty tool to be used to remove pitman arms from late model cars and light trucks
- Yoke is forged from high grade alloy steel and heat-treated.
- Opening: 1-5/16"(33mm)
- Pull: 2-1/2"(64mm)



 24/19.1/20.1/0.79'  795g

Pitman arm puller

62813



- Designed to handle the toughest Pitman arm pulling jobs on passenger cars and light trucks.
- Features special forged jaws shaped to fit the job.
- To use, simply remove the retaining nut, place the puller jaws behind the pitman arm and tighten the forcing screw.
- Mechanical power does the rest.
- Opening: 1-5/16" (33mm)
- Pull: 2-1/2" (64mm)



 20/22.7/23.7/1.1'  1134g

Outer tie rod remover

62814



- Two adjustable jaws special designed for removing outer tie rods of most models.
- Works on imports and domestics; front or rear wheel drives and castors stamped steel steering knuckles.
- Spread: 2-1/2" (64mm)
- Reach: 2-1/4" (57mm)



 15/16.4/17.4/0.59'  1090g

Twin-arm bearing pullers

666B



- With clamping bridge and pushing adaptor especially for extracting the inner bearing ring at VW-AUDI cars.
- Size: 90mm X 100 mm



 10/11.4/12.4/1.3'  1140g

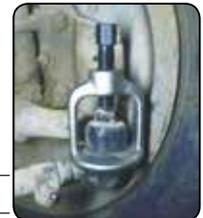
Ball joint extractor

628E



For splitting track-rod ends, anti-roll bar mountings, ball joints etc.

| Part no. | Open size |  packing |  g |
|----------|-----------|--|---|
| 628E18 | 18mm | 60/19.0/20.0/1.2' | 316 |
| 628E23 | 23mm | 30/16.0/17.0/0.99' | 533 |
| 628E29 | 29mm | 20/17.6/18.6/0.9' | 880 |
| 628E40 | 40mm | 12/18.6/19.6/0.97' | 1550 |
| 628E46 | 46mm | 12/21.0/22.0/1.1' | 1750 |



Universal tie rod end tool

62817



- Heat treated drop forged steel body & thrust bolt.
- Fits most cars, simply insert tool between spindle arm and tie rod, turn thrust bolt with 3/4"(19mm) socket or spanner to spread tie rod easily.
- Fork 18mm(11/16").



 30/13.5/14.5/0.4'  450g



Ball joint puller bell vibro-impact

62818 / 6281830
6281832 / 6281839



| Part no. | Size | packing | g |
|----------|------|-------------------|------|
| | mm | | |
| 62818 | 25 | 15/19.4/20.4/0.6' | 1290 |
| 6281830 | 30 | 15/19.5/20.5/0.8' | 1950 |
| 6281832 | 32 | 8/22.6/23.6/0.8' | 2820 |
| 6281839 | 39 | 8/27.2/28.2/1.2' | 3400 |



5pc Tie rod ball joint separator set

905T2



Made from heat treated drop forged steel.

Contents:

- 1pc Tie rod separator Opening: 17mm (11/16")
- 1pc Ball joint separator Opening: 24mm(15/16")
- 1pc Pitman arm wedge Opening: 28mm(1-1/8")
- 1pc Handle with lock nut 8"(200mm)
- 1pc Pneumatic handle 7"(180mm)



10/20.0/21.0/1.46' 2kg

Ball joint separator

628



- Tempered drop forged steel one piece construction for long & rough usage.
- Replacing worn out ball joints easily with a hammer striking.
- **628300** also can separate shock absorber links.
- **628400** also can remove CV drive shafts on FWD vehicles
- Material:SCM440.



| Part no. | Open | <i>l</i> mm | packing | g |
|----------|--------|----------------|--------------------|-----|
| | size | | | |
| 628300 | 15/16" | 300 | 25/17.0/18.0/0.38' | 680 |
| 628400 | 21/32" | 400 | 20/19.0/20.0/0.38' | 950 |

Ball joint spanner wrench

9T1404



- Designed for removal and installation of ball joint adjusting sleeves on 1/2-, 3/4- and 1-ton Dana open yoke front axles found on Ford, GM, Chrysler, IHC, and Jeep 4WD vehicles.
- Tool permits easy torquing with 1" socket for proper upper ball joint preload.



96/14.0/15.0/1.2' 170g

5pc 1/2"DR. Drive tooth socket for Mercedes

905T7



- Tooth socket for Mercedes Benz axle drive flange.

| ID | Length | Tooth width | Usage |
|---------|--------|-------------|--|
| 905T7-A | 70 mm | 8 mm | Mercedes Gearbox. |
| 905T7-B | 70 mm | 6 mm | Mercedes Differential flange. |
| 905T7-C | 70 mm | 6 mm | Mercedes G-class(W460/W461/W463) Front Axle-wheel bearing. |
| 905T7-D | 70 mm | 6 mm | Mercedes W114,W115,W116 Models with constant velocity joint axles. |
| 905T7-E | 80 mm | 8 mm | Mercedes W116,W123,W126 Rear Axle drive flange. |

10/17.0/18.0/1.5'

1700g

6pc Ball joint anchor pin press set

906T4



- Special designed for the removal and installation of press fit parts, such as ball joints, universal joints and truck break anchor pins, without having to resort to makeshift methods.
- It contains heavy-duty C frame press, receiver tubes, and installation and removing adapters.



3/19.5/20.5/0.7'

6.5kg

9pc Ball joint anchor pin press set

909T2



- Special designed for the removal and installation of press fit parts, such as ball joints, universal joints and truck break anchor pins, without having to resort to makeshift methods.
- It contains heavy-duty C frame press, receiver tubes, and installation and removing adapters.

2/14.5/15.5/0.7'

7250g



Ball-joint installer/ remover for BENZ (W220/W211/W230)

905T10

NEW

- Special design for removing and installing the ball joint on car without removing any parts.
- Applicable: Mercedes Benz W220,W211,W230



 3/16.5/17.0/1.1'

 5500g

Multi-steering knuckle spreader tool kit

912T3

- Spreads the steering knuckle.
- This enables the removal and refitting of the shock absorbers without the risk of damaging to the aluminum or cast iron knuckle.
- Fully adjustable and is suitable for steering knuckles with either a centralized or eccentric slot.
- Wide range of vehicle applications.



 12/13.0/14.0/1.0'

 1083g

1/2" DR. BENZ (W163/W164) Pin wrench socket

62820

- Used for Secure the retaining ring during R&R of ball joints.
- Applicable: MERCEDES-BENZ M-CLASS (W163/W164) lower ball joint of front & rear axles.



 48/14.0/15.0/0.3'

 291g



5pc Tie rod adjusting tools

905T1



Unique design permits 360° rotation of the adjusting sleeve. 1/2"sq. drive allows use of ratchet or breaker bar.

Specification:

- Tie rod adjusting tool for compact cars with 3/4" dia. adjusting sleeves.
- Tie rod adjusting tool for compact cars with 7/8" dia. adjusting sleeves.
- Tie rod adjusting tool for compact cars with 1-1/8" dia. adjusting sleeves.
- Tie rod adjusting tool for compact cars with 1-7/16" dia. adjusting sleeves.
- Tie rod adjusting tool for compact cars with 1-13/16" dia. adjusting sleeves.

12/16.0/17.0/1.4' 1330g

Combination wheel alignment wrench

9T0701



- This special double-ended extended length wrench was developed to be utilized when adjusting the front tie rods on most ASIAN, EUROPEAN AND DOMESTIC automobiles which includes over 29 different automobile manufacturers.
- Size:21mmX22mm



8pc Inner tie rod tool

908T2



- These tools are specially designed for the inner tie rods that are inaccessible to adjust.
- The long socket can be easily used with seven open-jaw drivers, size 1-3/16", 1-1/4", 1-5/16", 1-7/16", 14mm, 17mm, 33.6mm to most application.
- The inner tie rod can be easily removed and installed by slipping the long socket over tie rod end and connecting it to the open-jaw driver.

6/13.8/14.8/0.6' 2300g



12pc Inner tie rod tool

912T2



- These tools are specially designed for the inner tie rods that are inaccessible to adjust.
- The long socket can be easily used with eleven open-jaw drivers, size 1-3/16", 1-1/4", 1-5/16", 1-7/16", 14mm, 17mm, 19mm, 22mm, 26mm, 27mm & 33.6mm to most application.
- The inner tie rod can be easily removed and installed by slipping the long socket over tie rod end and connecting it to the open-jaw driver.

6/16.0/17.0/0.6' 2666g



Inner tie rod tool set

904T7



- The tool set allows a quick and easy removal and replacement of the inner steering ball joint without the need to dismantle steering rack from the bulkhead.
- Drive head range: diameter \varnothing 30-35mm, \varnothing 35-40mm, \varnothing 40-45mm.
- The tool allows quick and easy replacement of the inner ball joint on the steering rack.
- Removal of the rack from the bulkhead is not necessary.



 4/20.0/21.0/1.3'

 5000g

Track rod end remover and installer

9T0204 / 9T0204B

- Designed for remove and install axial joint



| Part no. | Application | <i>l</i> |  |  |
|----------|------------------------------------|----------|---|---|
| | mm | mm | packing | kg |
| 9T0204 | \varnothing 35~ \varnothing 45 | 400 | 10/22.5/23.5/2.2' | 2.25 |
| 9T0204B | \varnothing 28~ \varnothing 35 | 400 | 10/21.5/22.5/1.6' | 2.15 |

Multi-purpose inner tie rod tool

9T0801



- The master tie rod tools easily replaces inner tie rod ends without removing the rack & pinion.
- Capacity: 33-42mm



 36/14.3/15.3/0.8'

 397g

4pc Steering wheel holder & pedal depressor kit

904B2



Steering wheel:

- Firmly holds steering wheel in position when setting toe angle.
- Has a trigger-controlled mechanism and a thumb lock release.



Pedal depressor (brake gas):

- This brake and gas depressor is designed to use in the front seat of the car to obtain lever age.
- Place the point end of depressor on the pedal and use the small release lever above the spring to free the trigger mechanism in order to place the jack in place against the seat.
- Then press the trigger mechanism to put pressure on the brake or gas pedal the pedal jack will maintain the pressure until the release lever is pressed.



 6/13.5/14.5/3.1'

 2250g

Coil spring compressor

62701



- Use tool to remove and install automotive coil springs up to 5-5/8" OD. designed to grasp a maximum 3/4" wire diameter spring.
- Compress can be used on straight or curved coil spring.
- Forged alloy steel.



 12/17.0/18.0/1.3'

 1416g

Coil spring compressor

627



- Coil spring compressor made by forging and easy to use.
- Sold and packed in pair.



| Part no. |  packing | <i>l</i> mm |  g |
|----------|---|----------------|---|
| 627270 | 10/18.3/19.3/1' | 270 | 1830 |
| 627370 | 10/21.7/22.7/1.5' | 370 | 2170 |



■ Universal spring compressor

627200 / 627320



627200

- Allows the compressing of the spring at the car, so the strut can be taken out without dismantling the bearing housing.
- This is important at the front axle of VW cars and at rear axle of Ford Mondeo etc.



627320

- For use with all Macpherson.
- The spindles are equipped with contra-rotating threads which eliminate the risk of slipping round the spring.

| Part no. | Compression length mm |  packing |  g |
|----------|--------------------------|---|---|
| 627200 | 65-200 | 10/24.1/25.1/0.86' | 2410 |
| 627320 | 65-320 | 5/14.4/15.4/0.7' | 2880 |

■ Universal spring compressor

627170



- For replacement of self leveling shock absorbers.
- Particularly for rear axles on Mercedes and Fords.
- Compression length: 85-170mm
- Hex drive situated in the centre of the spindle permitting easy use in confined spaces where other spring compressors can not be used.

 10/23.5/24.5/0.7'  2350g

■ Heavy duty coil spring compressor

627280



- Hooks engage spring which can be compressed by turning hex nut.
- Jaws capacity: 23mm ~ 280mm
- Length 280mm

 6/19.5/21.5/0.5'  3.2kg



■ Heavy duty coil spring compressor with jaws & holder

627280U



- No need extra systematic jaw installation / removal
- High security coil spring compressor with 1200kg maximum capacity per pair and adjustable safety bar for additional security
- Jaws capacity : 23 mm ~ 280 mm
- Length 280mm



 4/17.0/18.0/0.4'  4.2kg

■ Spring compressor for Mercedes

905T3



- Types 116/123/124/126/129/140/201/202 and 4-matic includes.
- Advantage: Newly developed automatic 3-point safety interlock and automatic freewheel at end of stroke.



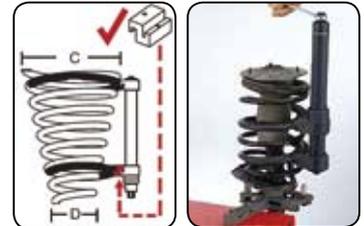
 5/28.5/29.5/2.46'  5.7kg

■ Professional coil spring compressor

908T5



- Safety yokes carefully shaped to prevent coil spring from bowing.
- Wide availability of spare yokes.
- Main axle length: 453mm
- Small jaw use range: 80-115mm
- Medium jaw use rang: 110-150mm
- Large jaw use range: 140-195mm



 1/13.8/14.8/1.25'  13.8kg

■ Professional coil spring compressor (with cover)

908T8



- Application : BMW, TOYOTA, FORD, MITSUBISHI, VW, AUDI, SAAB, NISSAN, HONDA, SUBARU, VOLVO, OPEL, PORSCHE.
- Main axle length: 453mm
- Small jaw use range: 80-115mm
- Medium jaw use rang: 110-150mm
- Large jaw use range: 140-195mm
- Max. Load: 10200 N
- Additional yellow plastic covers could protect the surface of shock absorber

 1/13.7/14.6/1.25'  13.7kg



Claw-type shock absorber spring compressor

9T3404



- For the demolition of a shock absorber spring.
- Special claw-type design can affect the activities of all kinds of shock absorbers to adjust the angle of spring needed.
- Claw use scope: 40 ~ 210 mm



 1/9.3/10.9/1.22'  9.3kg

Universal strut spring compressor

62702



- This tool fits a wide range of struts without the inconvenience of special adaptor shoes.
- Tool compresses springs of 4" to 8" OD. with wire diameters of 7/16" to 11/16". Works both by hand or impact wrench.
- The jaws of the compressor are held in place by safety locking pins.
- Use most of spring compressor quickly and easily on the bench or on the vehicle.



 2/18.7/19.7/1.5'  9350g

Spring compressor stand

9T3403



- Compress the coil spring quickly and easily.
- The opening of attachment shoes can be adjusted according to the diameter of the spring.
- Designed for strong, safe and reliable use.

 1/26.4/28.3/3'  26.4kg

Special vise for shock absorption

65403



- There are 5 holes on the frame use to fix on the workbench.
- Use adjustable clamp with different size of compressor cylinders.
- This fixed base is using to fix the compressor tightly, it will not move easily on working.
- It's more safe, easy, and convenient.



 5/16.6/17.6/1.1'  3320g

Strut nut socket for VW/AUDI

9T1481



NEW

- Used for removing and installing the top shock retaining nut on most FWD; VW; AUDI.
- Fits into slot in the top of the strut retaining nut
- 22mm (7/8") hex for use with a wrench.



Drive nut set

904T1



Contents:

- No.1: 10.5mm VW GOLF rear axle
- No.2: 12.5mm VW POLO front axle
- No.3: 14.5mm POLO, GOLF, PASSAT, AUDI 80
- No.4: 14.5mm AUSTIN MAERTRO



 72/16.3/17.3/1.6'  226g

BENZ (W203) Strut nut socket

9T1401



- Use for removing and installing the top shock retaining nut.
- Applications: BENZ W203.



 300/17.6/18.6/0.4'  60g



■ BENZ (W220) Strut nut socket

9T1402



- Use for removing and installing the top shock retaining nut.
- Applications: BENZ W220.

 100/21.6/22.6/0.4'  216g



■ BENZ W220 Shock absorber service tool set

9T0304



- This tool is for changing the top seal in air suspension.
- Fix suspension strut to a vise. Set 3 legs onto stub bolts in strut. Drive the control forcing screw to compress the seal cup and replace the seal.
- Application: Benz W220

 5/8.7/9.7/0.6'  1740g



■ 39pc Turnbuckle for shock absorber's top lid

939T1



- The complete sizes for using of most kinds of cars.

Contents:

-  5pc external sockets 10.5, 12.5, 14, 14.5, 14.5mm
-  9pc external sockets 14, 16, 17, 18, 19, 21, 22, 24, 27mm
-  9pc central sockets 4, 5.2, 6, 6.3, 7, 8, 9, 10, 12mm
-  2pc central sockets 5, 10mm
-  4pc central sockets 8, 9, 10, 11mm
-  4pc central sockets 5, 6, 7, 8mm
-  3pc central sockets 3, 3.5, 4mm
-  1pc central socket M12
-  2pc central sockets T50, T60

- Apply to : VW, AUDI, M-BENZ, AUSTIN MAESTRO, HONDA, NISSAN, SEAT, FIAT, FORD, ROVER, OPEL, PEUGEOT, RENAULT, CITROEN, TOYOTA, CHRYSLER, BMW, VOLVO.

 4/25.0/26.0/2.75'  6.25kg



9pc 1/2"DR. Drive shaft socket

40912



- 1/2"Dr. 14,17,19 mm Hex
H14:VW Passat 1996-2001, Audi A4; front and rear axle bolts (AWD).
H17:1998-2005 VW Passat, 1999-2004 Audi A6, 2002-2005 Audi A4; front and rear axle bolts (AWD).
H19:VW T4,T5,Skoda Fabia.
- 1/2"Dr. 12pt 27,30,32,34,35,36 mm 
27mm:Ford Powerstroke;Volvo 480 etc.
30mm:For BMW E36, E46; Citroen Saxo;Ford Galaxy; Mercedes W123, W124,W126, W129, W201, W203, W211; Opel Astra F, Astra G; Renault Scenic, Clio, Kangoo; Toyota Avensis, Picnic; VW Golf III, Golf IV, Lupo, Touareg, T5 etc.
32mm:For Fiat Punto; Ford Escort, Mondeo; Mercedes W140; Nissan Almera; Opel Astra H, Vivaro;Subaru Outback etc.
34mm:GM Motors.
35mm:MADZA.
36mm:For Audi; BMW E36, E39, X5; Ford Transit; Seat Lbiza, Cordoba; Nissan Primera; VW Polo, Golf V,Touareg etc.

 6/22.6/23.6/1.54'  3767g

Axle spindle rethreading set

909T5

NEW



- 9 PCS thread restoring die set used to clean or repair axle thread on spindles of M24X2.0 ; M24X1.5 ; M22X1.5 ; M22X1.0 ; M20X1.5 ; M20X1.25 ; 13/16X20 ; 3/4X20.
- Use with 32 mm socket or wrench.

 10/16/17/1.2'  1430g



6pc C.V. boot service kit

906T1



Contents:

- 1pc C.V. boot clamp pliers
- 1pc C.V. joint boot clamp pliers
- 1pc C.V. boot hose clamp cutter
- 1pc C.V. dust boot clamp installer with cutter
- 2pc Steel band for C.V. boot



 6/13.5/14.5/1.9'  2.25kg

CV Boot clamp pliers

62519



A sturdy tool, works on earless-type clamps including those found on GM inboard CV joint.

 72/24.7/25.7/2.6'  320g



**BRAKE/
TRANSMISSION**

CV Joint boot clamp pliers

62520



For ear type clamps, fits late model GM CV joint boots, also installs PERMA-QUICK type clamps quickly and easily use for filter, cooling system and vacuum lines.

 48/18.2/19.2/1.5'  380g



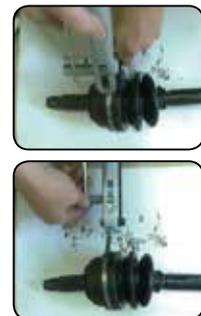
CV Dust boot clamp installer with cutter

62521



- Use 1/2" socket wrench to wind and crimp by hand tool is easily disengaged from the band after the band is tightened.
- Cut off easily with built in cutting arm without any other tool.

 36/18.3/19.3/1.8'  510g



■ C.V. joint banding tool (with cutter)

62525



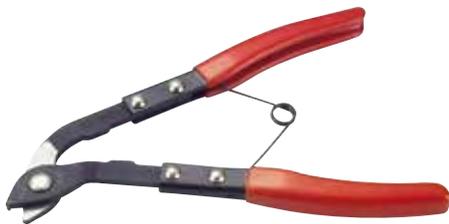
- Tool is easily removed by sliding sideways after winding has been completed.

72/20.5/21.5/2.5'  285g



■ Bent type C.V. boot hose clamp cutter

9T0501



- Designed to cut the stainless steel clamp easily.
- Avoid to harm C.V. boot
- With hardest material SKS III
- Use capacity for hose clamp:
Width: Under 10mm
Thickness: 0.5mm-0.7mm

48/16.8/17.8/2'  350g



■ CV boot clamp pliers

62526



- For all ear-type clamps.
- Application: for AUDI, BMW, CHRYSLER, FORD, GM, HONDA, MAZDA, MERCEDES, NISSAN, OPEL/VAUXHALL, VW etc.
- Designed: to use with extension.
- Handle or torque wrench.

36/20.5/21.5/2.1'  570g



■ Heavy duty CV boot band pliers (with torque drive)

62527



- For assembly of new stainless steel clamp-bands on drive-shafts where a torque setting is required.
- The 3/8" torque wrench is ideal to provide the drive.

20/12.9/13.9/1.8'  645g



■ CV boot installer set (cone, boot installer)

903T1



- Squeeze the arm of the installer and place the large end of the boot over. Press in the small end of the boot. Spray the surface of cone & boot with lubricant.
- Place the cone on the ground and center the boot over the cone.
- Holding the boot to the installer use a firm and fluent motion to press the boot to the base of the cone.
- Place the installer & cone over the joint. Drive the boot over the joint by striking the base of the installer and greasing the joint. And don't stretch over the joint until a tight fit is formed.



📦 12/16.5/17.5/3.5' ⚖️ 1375g

■ Air powered CV boot installation tool

9T0502

NEW



- Innovative tool saves time, money and frustration.
- Installs flexible steering and CVJ boots without removing axle from the vehicle or the CV joint from the axle.
- No effort-wasting and no mess.
- Save labour time by up to 70% and prevent damage to CV joint.
- Composite body with simple control valve works from standard workshop air supply.
- Suitable for cars, small vans, light commercial vehicles.
- Material: Aluminum steel
- Capacity: Ø20-110mm



📦 4/12.0/13.0/1.3' ⚖️ 3565g

■ Fender extending tool

9T0503

NEW



- Use for fender collision repair or fender flaring or to increase fender clearance;
- Fit most cars and light trucks with 4 or 5 lugs;
- Roller works on fender from inside wheel well;



📦 2/17/18/2' ⚖️ 8.5kg

Transmission axle holder wrench

9T0201



- This tool use for 2005 & LATER LAND ROVER with V-8 engines.



 16/16.8/17.8/1.6'

 1050g

Waste oil drain

9T3621



- Capacity: 80L.
- Special designed for no splash beneath of the hopper, and that is not spray any oil absolutely.
- There is a filling net in the hopper that can be removed any dirty wastage on it.
- Use ordinary shop air to move out the waste oil.

 1/30/33/7.6'

 30kg

Vacuum oil extracting & draining machine

9T3622



- Capacity: 80L.
- Perform dual functions – oil extracting and draining
- Uses compressed air to create a powerful vacuum to extract any kinds of oil, gasoline, diesel, water. (There are some limitations to extract the liquid.)
- Tube size: A: $\phi 6$ x L750 ; B: $\phi 7$ x L750 ; C: $\phi 6$ x L920 ; E: $\phi 3/8$ " x L650 ; F: Braking oil tube.



 1/36/38/7.6'

 36kg



Vacuum oil extracting machine & brake bleeder

9T3623



- Capacity:12L.
- Uses compressed air to create a powerful vacuum to extract any kinds of oil, gasoline, diesel, water, and other anytime.
- With limp cup to check the flow anytime.
- Tube size:A:ø6 x L750 ; B:ø7 x L750 ; C:ø6 x L920 ; E:ø3/8" x L650 ; F: Braking oil tube.



 1/13/14/1.9'

 13kg

Pneumatic oil filling machine

9T3624



- Capacity:25L.
- Enlarged 45 mm oil filler hole for easier to refill oil.
- With oil dispensing gun to easily control the oil filling rate.
- With a dehumidify valve to filter the water from the air compressor.
- Compressed air could be stored in the tank and use for filling oil at any place.
- A clock or digital meter can be attached to measure the volume of the refilled oil. (optional part)

 1/18/19/2.9'

 18kg

Glass covered fluid extractor

9T3625



- To suck liquid by vacuum.
- Append many suction tubes and applicable to oil, transmission oil, brake oil...etc.
- 12L the design of visible glass storing oil box ,it can see storing oil.
- Dual oil reservoir tank design increases the storing capacity(80L+12L).
- Capacity of the tank below:80L.
- Tube size:A:ø6 x L750 ; B:ø7 x L750 ; C:ø6 x L920 ; E:ø3/8" x L650 ; F: Braking oil tube.



 1/37/40/9'

 37kg

Air lubricator for grease

9T3609



- Uses air as power to suck grease into lubrication points.
- Suitable for 00#~2# grease.
- Capacity: 20L.
- Max. pressure that pump could with stand: 7~9 kgs
- Shrink rate: 1/45~1/50
- Volume output: 2L/min
- Hose: 1/4" x 2W x 3M
- Grease output pressure: 180 ~ 405kgs/cm
- Deliver rate: 30cc/sec.

 1/21.0/23.0/4.2'

 21kg

Hand lubricator for grease

9T3610



- With reservoir capacity 25L
- It is suitable for general lubricant and gear oil.
- 4c.c. / each cycle
- Hose: 1/4" x 1W x 2M

 1/7.0/9.0/2.2'

 7kg

Hand lubricator for oil

9T3611



- With reservoir capacity 25L
- It is suitable for general lubricant and gear oil.
- 70c.c. / each cycle
- Hose: 1/2" x 2M PVC yarn pipe

 1/7.0/9.0/2.2'

 7kg



■ 9 Liters manual / pneumatic fluid extractor

9T3606



- A large 9.0 Liter (2.35gallon) capacity of manual & pneumatic fluid extractor, can be used to extract many kinds of non-explosive liquids.
- Completely automatic using normal shop air, or using hand pump without shop air.
- New safety design, when the tank is full of liquid, air inlet mechanism will be shut off automatically.
- Working Pressure: 70~170 PSI / 4.9~11.9 BAR
- Air inlet: 1/4"
- Air Consumption: 5 CFM

 2/9.5/11.5/4.3'

 4.75kg

■ 9 Liters pneumatic fluid extractor

9T3606P



- A large 9.0 Liter (2.35gallon) capacity Pneumatic fluid extractor, can be used to extract many kinds of non-explosive liquids.
- Completely automatic using normal shop air, no electric spark, safety for workshop.
- New safety design, when the tank is full of liquid, air inlet mechanism will be shut off automatically.
- Working Pressure: 70~170 PSI/ 4.9~11.9 BAR
- Air inlet: 1/4"
- Air Consumption: 5 CFM

 3/12.0/13.0/4.5'

 4kg

■ 9 Liters manual fluid extractor

9T3606M



- A large 9.0 Liter (2.35gallon) capacity Manual fluid extractor, can be used to extract many kinds of non-explosive liquids.
- Completely using hand pump when you stay out of door.
- New safety design, when the tank is full of liquid, the unit will be shut off automatically.

 2/9.5/11.0/4.3'

 4.75kg

■ 5.5 Liters pneumatic fluid extractor

9T3607



- A versatile, portable, air operated fluid extractor for extracting fluids from crankcases, transmission cases, cooling systems and power steering reservoirs.
- This ideal tool designed to be used with many kinds of non-explosive liquids.
- Completely automatic using normal shop air.
- New safety design, when the tank is full of liquid, air inlet mechanism will be shut off automatically.
- Working Pressure: 70~170 PSI / 4.9~11.9 BAR
- Air inlet: 1/4"
- Tank Capacity: 5.5 L
- Air Consumption: 5 CFM

 4/9.5/10.5/3.7'

 2.4kg

■ Pneumatic brake fluid extractor / refilled kit

9T3608



- The unit creates a powerful vacuum that is used to bleed and flush hydraulic brakes and clutches.
- Large, stable base so it won't tip, requires no special adaptors.
- Automatic refilling of the master cylinder reservoir while bleeding.
- Universal drain valve fits to most standard recycling system.
- Working Pressure 70~170 PSI / 4.9~11.9 BAR
- Air inlet: 1/4"
- Air Consumption: 5.0 CFM
- Extracting Tank Capacity: 2.0 L
- Refilling Bottle: 1.0 L

 2/5.0/5.8/2.3'

 2.6kg

■ Oil drain tank

9T3701



- The most capacity is 30L.
- The safety capacity is 20L in any positions without splitting.



 1/16.0/17.0/3.1'

 16kg



Oil drain tray

9T3706 / 9T3707



- Material: PE
- Dish to save the slop oil.
- Special design on rim for prevent the oil comes out.
- And the producing hole also has special design to pour out the oil.
- Molded handles and 45° spout permit easy handling and pouring.

| Part no. | Volume |  packing |  g |
|----------|--------|---|---|
| | L | | |
| 9T3706 | 8 | 10/5.4/6.4/3.2' | 540 |
| 9T3707 | 16 | 10/9.5/11/5' | 950 |

Oil drain tray

9T3708



- Volume: 24L
- material: PE

 5/9/11/5.6'

 1800g

Oil draion tray

9T3709 / 9T3710



9T3710

9T3709

| Part no. | Volume |  packing |  g |
|----------|--------|---|---|
| | L | | |
| 9T3709 | 5 | 10/6.5/8.5/6.3' | 665 |
| 9T3710 | 10 | 10/10/12/9' | 1000 |

■ Replaceable oil pan separator and clean set

919T1



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



 50/18.5/19.5/1.42'  360g

■ Exhaust spring clamp remover / installer

9T0301



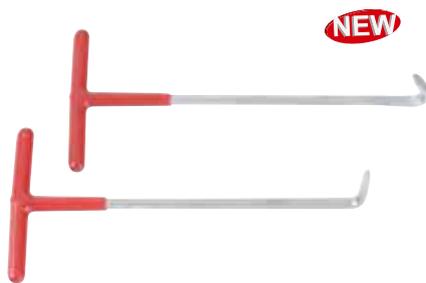
- Essential for safe, controlled removal of clamps attaching exhaust to manifold.
- Special design provides "LEVERAGE" required to expand the strong spring clamps.
- For Volkswagen.



 36/15.9/16.9/1.8'  441g

■ 2pc Rubber ring hook tool set

902T1



- Essential for safe, controlled removal of clamps attaching exhaust to manifold.
- Special design provides "LEVERAGE" required to expand the strong spring clamps.
- For Volkswagen.



 72/18.5/19.5/6'  220g

■ Exhaust hanger removal tool

9T0316



- Easily remove exhaust rubber hanger for a wide range of applications.



 710g



3pc Tailpipe expanders set

903T3

903T3A



903T3B



903T3C



- Heavy-duty tools flare and expand in mufflers and tailpipes. Features exist long hex bar.
- Three sizes fit all automotive applications.
- Capacity:

903T3A: 1-1/8"-1-3/4" (29-44mm)

903T3B: 1-1/2"-2-7/16" (38-62mm)

903T3C: 2-1/8"-3-7/16" (54-87mm)



7/20.0/21.0/0.9'



3kg



Magnetic adjustable camber gauge

688



- It has a simple leveling adjustment of $\pm 3^\circ$. Housed in a durable, non-magnetic casing with a magnetic head that attaches firmly to rotors or spindles.
- Time/money saving device.
- Return a strut to its original camber after repair or replacement.
- Measure camber change before reinstalling alignment heads during camber kit installation.
- Check the amount of camber change before reinstalling tire and wheel assemblies on trucks receiving offset alignment bushings.



12/6.1/7.1/1.3'



510g

Magnetic adjustable camber gauge

68801



- It has a simple leveling adjustment of $\pm 3^\circ$. Housed in a durable, non-magnetic casing with a magnetic head that attaches firmly to rotors or spindles.
- Time/money saving device
- Return a strut to its original camber after repair or replacement.
- Measure camber change before reinstalling alignment heads during camber kit installation.
- Check the amount of camber change before reinstalling tire and wheel assemblies on trucks receiving offset alignment bushings.



30/15.0/16.5/1.8'



500g

VW Automatic transmissions socket

9T0205



- Used for loosening and tightening the nut on the drive shaft.
- M6-speed manual gearbox 0A3, 4-wheel drive.
- Application: VW

 20/20.0/21.0/0.44'  1000g

Transmission clutch spring compressor

9T0317

NEW



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



 12/16.0/17.0/1.8'  800g

Clutch spring compressor

9T0305



- This tool is to setup a correct gape in transmission clutch.
- Use this tool with a hydraulic press. Set the clutch on press table then place this tool on it and press the spring cylinder with press to the set-line on the cylinder for a correct gape.
- Application: BENZ 722.6 transmission clutch.



 4/7.9/8.9/0.3'  1975g



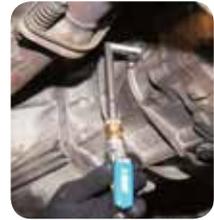
8pc Auto transmission filling system

908T9



NEW

- The unit is designed to fill fluid into the transmission, differentials and transfer cases.
- Capacity: 7.5L
- Outlet: 80cc/ cycle
- Viscosity Range: up to SAE 140
- Application:Suits Honda, Nissan, BMW, Audi VW, DSG, Porsche, Mini Cooper, Mercedes Benz, etc.



2/10.0/11.2/3.4'

4700g

BRAKE/
TRANSMISSION

1/2" DR. 7 PC Wheel bearing locknut sockets set

907T5

NEW



- 1PC 55mm Hex locknut Socket:
For use on front wheel adjusting nuts found on Toyota FJ. Ln, and RN models
- 1PC 2-3/8" Hex locknut Socket:
Works on 1984-92 Ford Rangers & Bronco IIs with automatic locking hubs
- 1PC 2-1/2" Hex locknut Socket:
Found on rear axles and various front axle applications on light-duty trucks.
- 1PC 2-1/2" Rounded Hex locknut Socket:
Works on 1995-96 Ford F/150 trucks and full-sized Broncos with automatic locking hubs.
- 1PC 2-3/4" Rounded Hex locknut Socket:
Works on 3/4" and 1-ton Ford F-250 and F-350 trucks with automatic locking hubs.
- 1PC 2-9/18" Rounded Hex locknut Socket:
Works on 1990, 1993 Dodge trucks with Dana 60 manual hubs.
- 1PC 2-3/8" Rounded Hex locknut Socket:
Works on 1990- recent Ford Rangers, Bronco IIs, and Explorers with automatic locking hubs.

3/16.0/17.0/1.4'

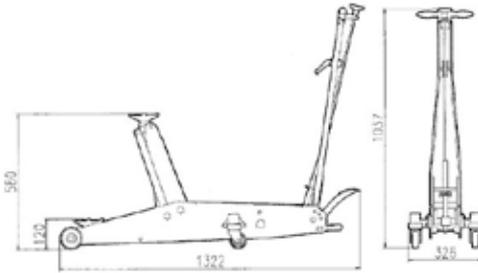
5335g

Service jack 3 Ton

9U3921



- Ideally suited for all automotive, agriculture and light truck repair facilities.
- Pump is operated by both activating foot pedal to provide speed to contact the load, and activating " T " handle to lift it.
- Hydraulic power unit with dust seals to prevent oil contamination.
- Large heavy duty rear swivel caster wheels provide easy maneuvering and positioning of jack.



1/67.0/71.0/4.6' 67000g

Jack stands

9U39...



- These models incorporate a lever and ratchet assembly for adjusting the height.
- Same as Model 9U3902 but these models are newly designed with rubber pads which can prevent the auto body from damage.

| Part No. | Capacity (ton) | Height range (mm) | Base Size (mm) | Packing | g |
|----------|----------------|-------------------|----------------|-----------------|------|
| 9U3901 | 3 ton | 270-420 | 177 x 194 | 1/6.0/6.6/0.66' | 6000 |
| 9U3902 | 3 ton | 290-440 | 177 x 194 | 1/6.6/7.2/0.66' | 6600 |



■ Jack stands

9U39...

- These models are designed for use with trucks, height adjustment is made using the knurled nut and threaded stud.



| Part No. | Capacity (ton) | Height range (mm) | Base Size (mm) | Packing | g |
|----------|----------------|-------------------|----------------|------------------|-------|
| 9U3903 | 12 ton | 456-710 | ψ467 | 1/18.5/19.5/0.7' | 18500 |
| 9U3904 | 12 ton | 614-868 | ψ590 | 1/21.0/22.0/1.0 | 21000 |
| 9U3905 | 12 ton | 710-1065 | ψ670 | 1/25.0/26.0/1.0 | 25000 |

IVECO Axle nut socket 110mm

9T1405



- Six sided drive H 36.
- Positive drive of the axle nut.
- Any extensive slipping is avoided.
- Milled out profile.
- Robust execution.
- Can be used with an impact wrench or torque wrench.
- Special steel.
- Application range: Iveco Eurotech Cursor HA, etc.

| SW(mm) | H(mm) | Outer ø(mm) | L(mm) |
|--------|-------|-------------|-------|
| 110 | 36.0 | 134.0 | 118.0 |

 8/19.0/20.0/1.37'  2375g

IVECO Axle nut socket 98 mm

9T1406



- Six sided drive H 36.
- Positive drive of the axle nut.
- Any extensive slipping is avoided.
- Milled out profile.
- Robust execution.
- Can be used with an impact wrench or torque wrench.
- Special steel.
- Application range: Iveco Euro Cargo, etc.

| SW(mm) | H(mm) | Outer ø(mm) | L(mm) |
|--------|-------|-------------|-------|
| 98.0 | 36.0 | 122.0 | 117.0 |

 8/18.0/19.0/1.37'  2250g

BENZ Axle nut socket 95mm

9T1407



- Six sided drive H 36.
- Positive drive of the axle nut.
- Any extensive slipping is avoided.
- Milled out profile.
- Robust execution.
- Can be used with an impact wrench or torque wrench.
- Special steel.
- Application range: Mercedes Benz axle trailers.

| SW(mm) | H(mm) | Outer ø(mm) | L(mm) |
|--------|-------|-------------|-------|
| 95.0 | 36.0 | 118.0 | 157.0 |

 8/21.0/22.0/1.42'  2625g



■ BENZ Rear axle nut socket 105-125 mm

9T1408



- Rigid locating tube.
- High accuracy of fit.
- Extremely robust execution.
- Suitable for high tightening and loosening torque.
- Special steel.
- Application range: Mercedes Benz Actros rear axle, HL/HL 8 (Hypoid), etc.

| Inner ømm | Outer ømm | L mm | Stud ømm | Stud | Stud width mm |
|-----------|-----------|-------|----------|------|---------------|
| 105.0 | 125.0 | 180.0 | 116.0 | 6 | 10.0 |

6/17.8/18.8/0.9' 2965g

■ BENZ & MAN Rear axle nut socket 80-95 mm

9T1426



- Rigid locating tube.
- Optional with expander sleeve(bayonet locking system).
- High accuracy of fit.
- Extremely robust execution.
- Suitable for high tightening and loosening torque.
- Special steel.
- Application range: Mercedes Benz Atego Rear axle, Vitaro 814, MAN, etc.

| Inner ømm | Outer ømm | L mm | Stud ømm | Stud | Locating tube ømm | Stud width mm |
|-----------|-----------|-------|----------|------|-------------------|---------------|
| 80.0 | 95.0 | 175.0 | 87.0 | 6 | 49.0 | 10.0 |

12/19.6/20.6/1.1' 1630g

■ Benz & Man Rear axle nut socket 95-115 mm

9T1427



- Optional with sleeve locating tube.
- High accuracy of fit.
- Extremely robust execution.
- Suitable for high tightening and loosening torque.
- Special steel.
- Application range: Mercedes Benz and MAN 10+13t Reduction axle, Hypoid and Trailer axle NR7/4, Omnibus 0305G + 0405G, etc.

| Inner ømm | Outer ømm | L mm | Stud ømm | Stud | Stud width mm |
|-----------|-----------|-------|----------|------|---------------|
| 95.0 | 115.0 | 110.0 | 101.0 | 6 | 11.5 |

8/23.0/24.0/0.7' 2875g

BENZ & MAN Clamp nut socket 56 mm

9T1424



- For professional loosening and tightening.
- Extremely versatile.
- Rectangular form.
- Usable with rectangular clamp nuts on the axle stub.
- Suitable for exact torque with a 3/4" square drive.
- Milled-out profile.
- For machinery usage.
- Special steel.
- Application range: DAF, MAN trucks / BENZ trucks / BENZ buses / KASSBOHRER / SETRA.

| SW mm | DR. | H mm |
|-------|------|------|
| 56.0 | 3/4" | 53.0 |

20/18.5/19.5/0.36' 925g

BENZ & MAN Clamp nut socket 60 mm

9T1425



- For professional loosening and tightening.
- Extremely versatile.
- Rectangular form.
- Usable with rectangular clamp nuts on the axle stub.
- Suitable for exact torque with a 3/4" square drive.
- Milled-out profile.
- For machinery usage.
- Special steel.
- Application range: BENZ SK , Actros / MAN 9 tons strengthen / DAF / KASSBOHERE / SETRA

| SW mm | DR. | H mm |
|-------|------|------|
| 60.0 | 3/4" | 53.0 |

20/16.3/17.3/0.36' 815g

3/4" DR. BENZ & MAN Pitman arm puller 42mm

6281842



- Pressure pieces in the spindle rotating mounted.
- Save time and labor.
- No need to destroy the pitman arm.
- Cast forged execution.
- Special steel.
- Size: 3/4" DR. 63(A) x 42(B) mm
- Application: Benz Actros & MAN 414



6/22.0/23.0/0.66' 3666g



MAN TGA Drive axle nut socket 133-145mm

9T1410



- Six sided drive H 60.
- Optional with sleeve Locating tube.
- High accuracy of fit.
- Extremely robust execution.
- Suitable for high tightening and loosening torque.
- Special steel.
- Application range: MAN TGA 460drive axle, V9-82L-01(Disk brake/ABS), etc.

| Inner ømm | Outer ømm | L mm | Stud ømm | Stud | Stud width mm |
|-----------|-----------|-------|----------|------|---------------|
| 133.0 | 147.0 | 160.0 | 118.0 | 6 | 12.0 |

4/18.6/19.6/1.3' 4650g

MAN TGA Front axle nut socket 133-145mm

9T1409



- Six sided drive H 60.
- Optional with sleeve Locating tube.
- High accuracy of fit.
- Extremely robust execution.
- Suitable for high tightening and loosening torque.
- Special steel.
- Application range: MAN TGA Front axle, V9-82L-01(Disk brake/ABS), etc.

| Inner ømm | Outer ømm | L mm | Stud ømm | Stud | Stud width mm |
|-----------|-----------|-------|----------|------|---------------|
| 133.0 | 147.0 | 110.0 | 118.0 | 6 | 12.0 |

4/15.3/16.3/0.7' 3825g

MAN TGA Front axle nut socket 101-110mm

9T1411



- Six sided drive H 60
- High accuracy of fit.
- Extremely robust execution.
- Suitable for high tightening and loosening torque.
- Special steel.
- Application range: MAN TGA Front axle, V9-82L-01 (Disk brake/ABS),etc.

| Inner ømm | Outer ømm | L mm | Stud ømm | Stud | Stud width mm |
|-----------|-----------|------|----------|------|---------------|
| 101.0 | 110.0 | 80.0 | 93.0 | 6 | 7.2 |

8/21.5/22.5/0.5' 2687g

MAN truck transmission socket 53.5mm

9T1412



- This special socket removes, transmission nut on MAN trucks.

| Inner ømm | Outer ømm | L mm | DR. | Stud ømm |
|--------------|--------------|---------|------|-------------|
| 53.5 | 72.0 | 75.0 | 3/4" | 4 |

 12/16.8/17.8/0.35'  1400g

MAN Front wheel hub extractor tool 115mm

9T1429



- The tool is used to remove the front-wheel hub.
- Use this axle with spanner to spin the screw.
- Extremely robust execution.
- Flat oval form.
- European truck repair tool.
- Special steel.
- Specification: M115*P1.5
- Application: MAN truck

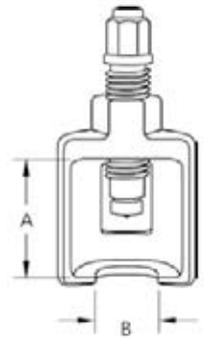
 4/16.0/17.0/1.1'  4000g

3/4" DR. MAN Pitman arm puller 67mm

6281867



- The tool is designed for extracting pitman arm of MAN.
- It's different from traditional puller that prevents pitman arm from damage.
- Use H6,70mm socket to remove the fixed nut on the pitman arm before using this tool.
- Cast forged execution.
- Special steel.
- Size: 3/4" DR. 75(A) x 67(B) mm
- Application: MAN Tractor Trailer FE410A/FE414.



 4/18.4/19.4/0.66'  4600g



■ 3/4" DR. MAN Star impact socket for HGV Cylinder head bolt (E18 , E20 , E24)

466110



- Size : E18 , E20, E24
- 3/4" DR. 110mm.
- For HGV cylinder head bolts.

| Part no. | Size | mm | g | Applications |
|----------|------|-------------------|-----|--|
| 46611018 | E18 | 110 mm | 520 | For MAN commercial vehicles M2000 and MAN buses with D08 engines. |
| | | 30/15/16/0.4' | | |
| 46611020 | E20 | 110 mm | 540 | For MAN commercial vehicles F2000 , F90 , F8 and MAN buses with D25 and D28 engines. |
| | | 30/16.2/17.2/0.4' | | |
| 46611024 | E24 | 110 mm | 591 | For MAN commercial vehicles with D20 engines. |
| | | 30/17.7/18.7/0.4' | | |

■ BPW Rear hubcap nut socket 111mm

9T1417



- Special heavy duty oval shape socket with two flats on the side to suit BPW rear axle hub retaining cap nuts found on later model Japanese commercial trucks, tractors and other automotive industrial equipment.
- For extracting the rear axle cover.
- Male Hex Drive: 1-5/8" (41mm)
- Size: 4-3/8" (111mm) Across the flats.
- Application range: BPW 12 tons

| Inner ømm | Outer ømm | L mm | H mm |
|-----------|-----------|------|------|
| 111.0 | 132.0 | 94.0 | 41.0 |

6/17.0/18.0/0.6' 2833g

■ BPW Rear hubcap nut socket 95mm

9T1420



- For extracting the rear axle cover.
- Application: BPW 6.5~9 tons truck.

6/15.0/16.0/0.6' 2500g

BPW Rear hubcap nut socket 120mm

9T1416



- Special heavy duty eight point socket to suit BPW rear axle hub retaining cap nuts found on later model Japanese commercial trucks, tractors and other automotive industrial equipment.
- Male hex drive: 1-5/8" (41mm)
- Size: 4-3/4" (120mm) 8 Point opening
- Application range: BPW former 16 tons

| Inner mm | Outer ømm | L mm | H mm |
|----------|-----------|------|------|
| 120.0 | 143.0 | 95.0 | 41.0 |

 6/18.0/19.0/0.6'  3000g

BPW Rear hubcap nut socket 109mm

9T1418



- Special heavy duty eight point socket to suit BPW rear axle hub retaining cap nuts found on later model Japanese commercial trucks, tractors and other automotive industrial equipment.
- Socket for the rear axle cover.
- Male Hex drive: 1-5/8" (41mm)
- Size: 4-5/16" (109mm) 8 Point opening
- Special steel
- Application range: BPW 12 tons

| Inner ømm | Outer ømm | L mm | H mm |
|-----------|-----------|------|------|
| 109.0 | 129.0 | 94.0 | 41.0 |

 6/15.0/16.0/0.6'  2500g

BPW Axle nut socket 65mm

9T1419



- For the dismantling and assembly of BPW axle nuts
- Extremely versatile
- Flat oval form
- Suitable for exact torque with a 3/4" square drive
- For machinery usage
- Special steel
- Application range: 6.5~9 tons trucks

| Inner ømm | Outer ømm | L mm | H mm |
|-----------|-----------|------|------|
| 65.0 | 82.0 | 66.0 | 36.0 |

 4/15.5/16.5/0.5'  3875g



■ BPW Axle extractor 135mm

9T1430



- Use this axle with spanner spin the screw.
- Extremely robust execution.
- Flat oval form.
- European truck repair tool.
- Special steel.
- Specification:M135*P2.0.
- Application:BPW ECO 10~12 tons old model.

 2/13.5/14.5/0.6'

 6750g

■ BPW Axle extractor 136mm

9T1431



- Use this axle with spanner spin the screw.
- Extremely robust execution.
- Flat oval form.
- European truck repair tool.
- Special steel.
- Specification:M136*P2.5.
- Application:BPW ECO Plus 8~12 tons , BPW ECO 10 tons new model..

 2/13.5/14.5/0.6'

 6750g

■ BPW Axle extractor 155mm

9T1432



- Use this axle with spanner spin the screw.
- Extremely robust execution.
- Flat oval form.
- European truck repair tool.
- Special steel.
- Specification:M155*P3.0.
- Application:For former model of 16 tons truck.

 2/13.5/14.5/0.6'

 6750g

BPW Axle extractor 125mm

9T1433



- Use this axle with spanner spin the screw.
- Extremely robust execution.
- Flat oval form.
- European truck repair tool.
- Special steel.
- Specification: M125*P2.0.
- Application: For former 12 tons trailer.

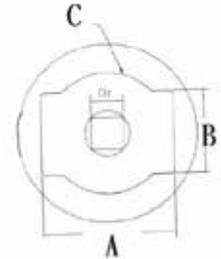
4/16.0/17.0/1.1' 4000g

3/4" DR. Wheel capsule and axle nut socket

9T1435..



- For clean , easy loosening and tightening of flat oval wheel capsules and axle nuts for BPW axles.
- For the dismantling and assembly of grease capsule on BPW axles.



| Part no. | A mm | B mm | C mm | DR. | g | packing |
|----------|------|------|------|------|------|--------------------|
| 9T1435A | 65 | 40 | 60 | 3/4" | 1000 | 16/16.0/17.0/0.65' |
| 9T1435B | 80 | 50 | 72 | 3/4" | 1187 | 16/19.0/20.0/0.65' |
| 9T1435C | 85 | 50 | 80 | 3/4" | 1062 | 16/17.0/18.0/0.65' |
| 9T1435D | 95 | 40 | 68 | 3/4" | 1583 | 12/19.0/20.0/1.2' |
| 9T1435E | 110 | 45 | 107 | 3/4" | 2000 | 10/20.0/21.0/1.0' |
| 9T1435F | 120 | 48.5 | 115 | 3/4" | 2500 | 8/20.0/21.0/1.1' |

SCANIA Front wheel nut socket 80mm

9T1422



- This eight sided 80mm socket is specifically for front-wheel nut sockets on SCANIA trucks.
- SCANIA front-wheel nut socket.

| Inner ømm | Outer ømm | L mm | H mm |
|-----------|-----------|-------|------|
| 80.0 | 100.0 | 102.0 | 41.0 |

12/21.6/22.6/0.65' 1800g

■ SCANIA Front wheel nut socket 100mm

9T1423



- Control the nut with slide rod to adjust bearing.
- This eight sided 100mm socket is designed specifically for rear wheel nut sockets on Scania trucks.

| Inner ømm | Outer ømm | L mm | DR. |
|-----------|-----------|------|------|
| 100.0 | 123.0 | 84.0 | 3/4" |

6/17.0/18.0/0.5' 2833g

■ SCANIA Transmission clutch front main shaft socket

9T1421



- This special socket removes.
- European truck repair tool.

| Inner ømm | L mm | Stud ømm | Stud | Stud width mm | DR. |
|-----------|------|----------|------|---------------|------|
| 80.8 | 76.1 | 72.5 | 4 | 6.75 | 3/4" |

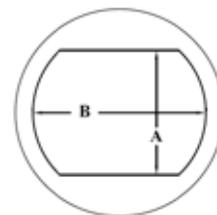
10/18.5/19.5/0.8' 1850g

■ 3/4" DR. SCANIA Front - wheel shock absorber spring socket

9T1436



- To apply for SCANIA front-wheel shock absorber spring screws removal / installation.
- European truck repair tool.
- Size:3/4" DR. 28.5(A) x 37.4(B) mm
- Application:SCANIA



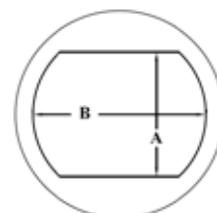
36/16.0/17.0/0.61' 444g

■ 3/4" DR. SCANIA Rear axles damper rod socket

9T1437



- To apply for SCANIA rear axles damper rod screws removal / installation.
- European truck repair tool.
- Size:3/4" DR. 34.5(A) x 47.5(B) mm
- Application:SCANIA



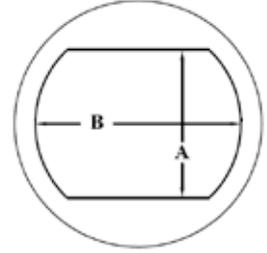
24/15.0/16.0/0.42' 625g

3/4" DR. SCANIA Rear wheel shock absorber spring socket

9T1438



- To apply for SCANIA rear wheel shock absorber spring screws remove / install.
- European truck repair tool.
- Size: 3/4" DR. 34.5(A) x 56(B) mm
- Application: SCANIA



24/15.0/16.0/1.0'

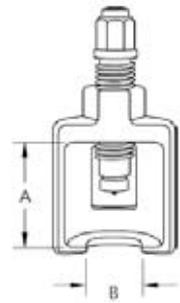
625g

3/4" DR. SCANIA pitman arm puller 58mm

6281858



- To use on pitman arm of European trucks. No need to destroy the pitman arm.
- Cast forged execution.
- Special steel.
- Size: 3/4" DR. 75(A) x 58(B) mm
- Application: European Truck, such as SCANIA.



4/18.4/19.4/0.53'

4600g

3/4" DR. SCANIA Star impact socket (E28)

46611028



- To remove and install the bolt of crankshaft bearing cap.
- Applicable: SCANIA Ti engine.

| Part no. | Size | <i>l</i> mm | Applications |
|----------|------|-------------|-----------------------|
| 46611028 | E28 | 110 mm | For SCANIA Ti engine. |

30/17.6/18.6/0.4'

588g



1/2"DR. SCANIA Truck camshaft rotator tool

9K0101

NEW



- This tool is designed to rotate the camshaft for timing on SCANIA truck engines.
- Size: Spline Tooth x 1/2" Drive..



 100/22.6/23.6/0.45'  226g

Caliper adjuster socket 24mm

9T1439



- Size: H24, 5 teeth, 46mm L.
- Barreled round shape.
- Material: SCM440.
- Application: Most European trucks, such as SCANIA, VOLVO... etc.

 100/17.0/18.0/2.0'  170g

Axle nut socket 140mm

9T1428



- Positive drive of the axle nut.
- Robust execution.
- Can be used with an impact wrench or torque wrench.
- Ideally suited for brake restoration working.
- Forward tension with SW 32mm is at 150 N-m.
- Angle of rotation 20-30 with SW 46.
- Special steel.
- Application range: SAF Euro axle, etc

| Inner ømm | L mm | H mm |
|-----------|-------|-------|
| 140.0 | 135.0 | 32,46 |

 4/17.5/18.5/1.36'  4375g

1/2"DR. VOLVO Camshaft rotator tool

9K0102**NEW**

- Special 1/2" drive tool for rotating the engine and camshaft for the setting the timing on Volvo diesel truck engines.
- Applicable:Volvo engines D9A, D12, D16C..

 20/16.0/17.0/0.9' 744g

VOLVO Wheel shaft cover socket 115 mm

9T1440**NEW**

- For Dismantling The Front / rear Wheel Axle Cover Of VOLVO
- Size: Dr.3/4", 8 Point, 115mm

 6/18/19/0.6' 3kg

VOLVO Truck axle nut socket 105mm

9T1441**NEW**

- Fix bearing while removing or installing the truck nut.
- Use the air wrench or rod to control the nut to tighten or loosen bearing.
- Size: Dr.1", 6 Point, 105mm

 6/18/19/0.6' 3kg

VOLVO Truck axle nut socket 95mm

9T1442

NEW



- Fix bearing while removing or installing the truck nut.
- Use the air wrench or rod to control the nut to tighten or loosen bearing.
- Size:Dr.1", 6 Point, 95mm

 6/17.5/18.5/0.6'

 2916g

VOLVO King pin upper cover socket 80 mm

9T1443

NEW



- To remove king pin upper cover.
- Size:Dr. 3/4, 6 Points, 80mm
- Applicable: VOLVO FM12

 10/15/16/1'

 1500g

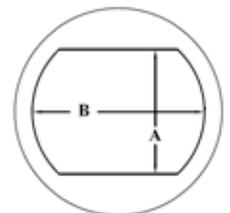
VOLVO Rear wheel shock absorber spring washer removal socket

9T1445

NEW



- Use for VOLVO rear wheel shock absorber spring washer removal socket.
- Size:Dr. 3/4, 28.5(A) x 60(B) mm
- Applicable: VOLVO rear axle e.g. FH, for removal and installation of leaf spring bolts on the springs.



 24/19.2/20.2/0.86'

 800g

VOLVO Front wheel shock absorber spring washer removal socket

9T1446



NEW

- Special two pin socket for removal and replacement of spring washer holding the front wheel shock absorber on Volvo trucks.
- Pin Diameter:8.73 mm
- Circle diameter:37 mm
- Drive Size:27 mm Hexagon
- Applicable:VOLVO e.g. FL6 / F10 / F12

60/10.8/11.8/0.55' 180g

VOLVO Truck shock absorber upper base nut extractor / installer

9T1447



NEW

- For extracting and installing the shock absorber upper base nut of VOLVO Truck.
- Size:Dr. 3/4, 53mm Diam x 4 lugs.

30/22/23/1.23' 733g

VOLVO Truck front / rear brake shoe lining inside caliper

9T1448



NEW

- Extend wider and hold open brake shoe steel by locking A1169 inside caliper closer. Take out the bolts and change new brake shoe lining.
- Applicable:All kinds of VOLVO trucks.

10/19.5/20.5/1.76' 1950g



VOLVO Truck fan bearing base socket

9T1449

NEW



- This special four lug socket is used to remove the fan base bearing on engines fitted to Volvo trucks.
- Applicable: All kinds of VOLVO trucks.

 24/19.5/20.5/0.8'  812g

Sleeve locating tube 60-67 mm

9T1413



- Practical connector system with fixing screw.
- Usably for different groove socket nuts(module systems).
- Enables stable work position.
- Prevents slippage of the socket.
- Extremely robust execution.
- Change through loosening of the grub screw on the hexagon.
- Special steel.

| Inner ømm | Outer ømm | L mm |
|-----------|-----------|-------|
| 60.0 | 67.0 | 140.0 |

 20/16.6/17.6/1.03'  830g

Sleeve locating tube 54-60 mm

9T1414



- Practical connector system with fixing screw.
- Usably for different groove socket nuts(module systems).
- Enables stable work position.
- prevents slippage of the socket.
- Extremely robust execution.
- Change through loosening of the grub screw on the hexagon.
- Special steel.

| Inner ømm | Outer ømm | L mm |
|-----------|-----------|-------|
| 54.0 | 60.0 | 140.0 |

 20/13.8/14.8/1.03'  690g

Sleeve locating tube 46-52 mm

9T1415



- Practical connector system with fixing screw.
- Usably for different groove socket nuts(module systems).
- Enables stable work position.
- Prevents slippage of the socket.
- Extremely robust execution.
- Change through loosening of the grub screw on the hexagon.
- Special steel.

| Inner ømm | Outer ømm | L mm |
|-----------|-----------|-------|
| 46.0 | 52.0 | 140.0 |

20/10.0/11.0/1.03' 500g

9pc Sockets for ball bearing nuts (Outer teeth)

909T3

NEW

- Sockets For Ball Bearing Nuts Outer Teeth.
- 1/2":KM4,5,6
- 3/4":KM7,8,9,10,11,12



| Part No. | ⊙ | ↔ |
|----------|-------|----|
| KM4 | Ø32*4 | 60 |
| KM5 | Ø38*5 | 60 |
| KM6 | Ø45*5 | 60 |
| KM7 | Ø52*5 | 60 |
| KM8 | Ø58*6 | 60 |
| KM9 | Ø65*6 | 70 |
| KM10 | Ø70*6 | 70 |
| KM11 | Ø75*7 | 70 |
| KM12 | Ø80*7 | 70 |



3/12/13/1.5' 4kg

Pickup truck & bus ball Joint extractor 30mm

6281830



- For removing the truck rod end from the drag link.
- The best tool for removal light truck ball joint.
- Size:60(A) x 30(B) mm
- Application:All light trucks. Such as BMW (E39), Benz(W203/W210/W211/W220/W221), Mitsubishi Delica, Canter, Toyota Dyna



15/5/6/0.6' 980g



Medium sized wagon ball Joint extractor 32mm

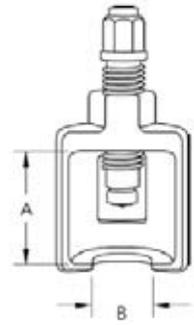
6281832



- The best tool for removal truck ball joint.
- No damage to ball joint and related parts.
- Size:92(A) x 32(B) mm
- Application:3.5 tons~8.8 tons trucks.

 8/22.6/23.6/0.69'

 2820g



Truck ball Joint extractor 39mm

6281839



- The best tool for removal truck ball joint.
- No damage to ball joint and related parts.
- Size:60(A) x 39(B) mm
- Application:over 4 tons and European trucks ,
HINO Special for MAN 414 drag link.

 8/27.2/28.2/0.69'

 3400g



TRUCK

3/4" DR. Ball joint puller 47mm

6281847



- Pressure pieces in the spindle rotating mounted.
- Spindle suitable for impact wrenches.
- Less space required.
- Cast forged execution.
- Special steel.
- Size:3/4" DR. 63(A) x 47(B) mm
- Application:HINO ,ISUZU ,UD ,FUSO ,8.8
tons~10.5 tons truck.

 6/22.8/23.8/0.66'

 3800g



3/4" DR. Ball joint puller 62mm

6281862



- Pressure pieces in the spindle rotating mounted.
- Spindle suitable for impact wrenches.
- Put is on steering mechanism pitman arm, then take pitman arm apart.
- Cast forged execution.
- Special steel.
- Size: 3/4" DR. 75(A) x 62(B) mm
- Application: 15 tons~35 tons of HINO, ISUZU, NISSAN, FUSO truck and bus.



4/18.4/19.4/0.53' 4600g

Reverse action wheel stud thread restorer kit –Truck

905K1

NEW



- Unique design allows for 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.
- Traditional thread restorers rely on luck for the restored and undamaged threads to align.
- Three sizes of product a set of capacity: M18 X 1.5, M20 X 1.5, M22 X 1.5, 7/8"-11 BSF1
- Applications:
M18 X 1.5 - DAF, IVECO, MAN, RENAULT, VOLVO I
M20 X 1.5 - MERCEDES, SCANIA I
M22 X 1.5 - DAF, FORD, MAN, RENAULT, VOLVO, MERCEDES, SCANIA I
7/8"-11 - SCANIA

20/16.5/17.5/1.1' 840g

Hydraulic HGV ball joint separator

903T2



- For separating HGV ball-joint. Strengthened fork and lever allows for greater force to be applied.
- Remove ball joints easily where space prevents use of direct action method.
- Jaw opening capacity 70 mm; Jaw width 36 mm.
- Patented Hydraulic ram provides max. 12 tons.
- SCM 440 material.

2/14.0/15.0/1.0' 7000g



11pc 3/4"DR. Truck wheel impact socket set

6113



- Content: 3/4" DR.
- 46190 17...21 2pc- Square impact deep socket 17; 21mm
- 46190 13.16 1pc- Square impact deep socket 13/16"
- 465100 33...41 4pc- 6pt. Flank impact deep socket 33; 35; 38; 41 mm
- 465100 1.1.16...1.1.2 4pc- 6pt. Flank impact deep socket 1-1/16; 1-1/8; 1-1/4" ; 1-1/2"

 3/27.5/28.5/1.5'

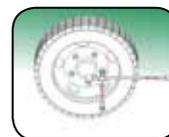
 9150g

Double power lug wrench

681600



- Foldable: easy to carry and store.
- Sliding: increase power.
- Deep sockets.
- Socket size: 24/27/32mm & 3/4"SQ.DR.
- Length : 600 mm



 6/20.0/20.5/0.84'

 3333g

TRUCK

9pcs Center sleeve pin set

909K1

NEW

- Designed to protect the wheel threads when taking off the wheel.
- Center sleeves kit with inner thread for exactly mounting on truck wheels.

Each kit includes 3 sleeves.

Applications:

M18 X1.5 - DAF , IVECO , MAN , RENAULT , VOLVO

M20 X1.5 - DAF , FORD , MAN , RENAULT , VOLVO
. MERCEDES , SCANIA

M22 X1.5 - Alloy wheels MAN , MERCEDES

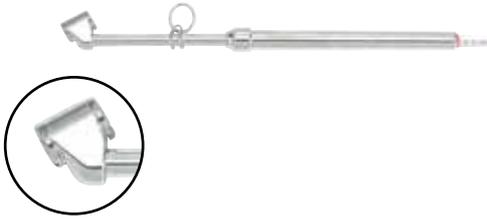


 10/17.0/18.0/1.5'

 2812g

Dual head truck tire gauge

9T0405



- Measures from 10 to 150 PSI
- Accuracy: +/- 2PSI

 100/18.0/20.0/3.0'  180g

Dual head truck tire gauge (Straight-on)

9T0405B



- Measures from 10 to 150 PSI
- Accuracy: +/- 2PSI

 100/20.0/22.4/3.1'  200g

Truck brake spring pliers

9B0103



- Designed to remove and replace springs of drum-type brakes.



 12/15.2/16.2/1'  1260g

6pc Car & truck brake riveter set

906B1



- Use in vise to rivet brake shoe linings on cars, trucks, tractors etc.
- Contents:
 - 2 x Roll punches 8mm & 11mm Dia.
 - 1 x Star punch.
 - 2 x Interchangeable anvils with hex key.



 6/16.2/17.2/1.4'  2700g



8pc Adjustable wheel bearing lock nut wrench

908T1



- Adjustable jaws with locking feature to suit both hexagon & octagon wheel bearing lock nuts.
- Includes three sets of pins to suit lock nuts with pin holes.
- Capacity:
 - 6pt lock nuts: 1.3/4" to 5.1/4" (49-135mm) across the flats
 - 8pt lock nuts: 1.3/4" to 5.5/8" (49-143mm) across the flats
 - Pin diameters: 1/4" (6mm), 5/16" (8mm), 3/8" (10mm).



6/14.8/15.8/1.0'

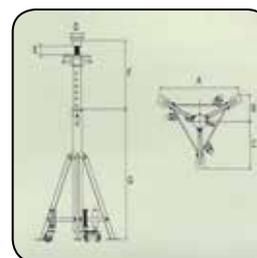
2466g

Truck jack stands

9U39...



- The jack stands are of heavy-duty design and high strength legs for truck & bus support.
- 9U3911 & 9U3912 are designed with rubber pad which can prevent the truck & bus body from damage.



| Item No. | Capacity (ton) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | G (mm) | W (kgw) | Packing | g |
|----------|----------------|--------|--------|--------|--------|--------|--------|--------|---------|--------------------|-------|
| 9U3911 | 6.8 | 803 | 235.5 | 445 | 127 | 0 | 540 | 870 | 47 | 1/43.5/46.0/3.27 | 43500 |
| 9U3912 | 6.8 | 803 | 235.5 | 445 | 127 | 70 | 670 | 1426.5 | 59 | 1/56.0/59.0/4.67 | 56000 |
| 9U3913 | 15 | 948.5 | 308.5 | 513 | 127 | 70 | 700 | 1389 | 98 | 2/196.0/211.0/58.3 | 98000 |

ISUZU Crankshaft rear oil seal installer

902K1



- This tool is specially designed for preventing the oil seal from damage when installing it .
- Oil seal genuine no: BZ4962-E , 3-97071561.
- Application: ISUZU 3.5tons (4JB1,4JG2) (130HP / 150HP).

8/17.0/18.0/1.1'

2125g

TRUCK

4pc Injector socket set

904K1



- For removal replacement of the pressure nut injector holder.
- Applicable: BENZ truck , MAN , NEOPLAN , SETRA , IVECO , SCANIA , RANAULT...etc.

 18/19.0/19.5/1.3'  1055g

HGV Diesel Injector nozzle Socket

9G0125

NEW



- The especially designed toothed socket is for installing and removing the diesel injection nozzle on BENE, MAN and SCANIA commercial vehicles.
- Specially designed with window, toothed end and M14 pulling force screw.

 40/20/21/0.8'  500g

4pc Diesel injector socket set

904G3



- 1/2" DR. socket for diesel injector removal and installation.
- Applicable: ALFA ROMEO, CHRYSLER, BMW, FORD, VW, MERCEDES, AUDI, OPEL, VAUXHALL, SEAT, VOLVO, ROVER also on VOLVO, MAN2.5TD & SCANIA HGVS.



| Diameter | Description | Length | Proof torque |
|----------|--------------------------|--------|--------------|
| 22 mm | injector socket (6 pt) | 110 mm | 215 N-m |
| 22 mm | injector socket (12 pt) | 75 mm | 215 N-m |
| 27 mm | injector socket (12 pt) | 78 mm | 390 N-m |
| 28 mm | injector socket (12 pt) | 78 mm | 430 N-m |

 10/11.4/12.4/0.8'  1140g



■ Diesel injector puller

9G0114



- Assists removal of stubborn BOSCH and LUCAS Diesel injectors saves time and money when injectors are difficult to remove.
- With M8 /M12 / M14 adaptors
- Applicable: VOLVO, SCANIA.



 40/16.018.0/1.8'  400g

■ Diesel injector seat cutter set

907G7



- This kit has been specially design for cleaning and re-cutting injector seats on modern common rail diesel engines.
- 15mm flat reamer for universal injector.
- 17mm flat reamer for DELPHI / BOSCH injectors (BMW / PSA / RENAULT / FORD)
- 19mm flat reamer for BOSCH injectors (MERCEDES CRD)
- 19mm angled reamer for FIAT / IVECO.
- T handle, Pilot post

 20/19.2/19.7/2.0'  950g

■ Diesel engine nozzle tester & cleaner

905G13



- For all diesel engine cars & trucks.
 - For Testing injection nozzle opening pressure, leakage spray pattern, Atomization & Chatter Characteristic & Cleaner.
 - Pressure Gauge: 70mm.
 - Pump: 11mm.
 - Stroke: 20mm.
 - Discharge Amount: 2.0 cc.
 - Weight: 8 kg.
 - Simple & Easy to Operate by Hands.
 - Follow New International Standard.
 - Clean the Nozzle if used with 3M Cleaning Solution.
 - Capacity Gauge : 9000 PSI (640 kg/cm²)
- Adapters: M-12 x P1.5, M-14 x P1.5, M-16 x P1.5

 2/15.7/16.7/1.27'  7850g

9pc Pre-heater plug tools

K909G4



- To ream out and clean the bore between the glow plug and precombustion chamber.
- Size: M12 x 1.25, M10, pre-heater plugs with 10mm across flats.
- Fasten the glow plug with the correct torque.
- 1/4" DR. Universal socket size: 8, 9, 10, 12 mm.

| Thread Diameter | Tightening Torque |
|-----------------|---------------------|
| 8 mm | 8-15Nm(0.8-1.5Kgm) |
| 9 mm | 15-20Nm(1.5-2.0Kgm) |
| 10 mm | 15-20Nm(1.5-2.0Kgm) |
| 12 mm | 20-25Nm(2.0-2.5Kgm) |

6/9.9/10.9/0.78'

1650g

Diesel compression tester

916G2



- 2-1/2" dial, glycerin filled gauge with glass lens in stainless steel housing 4,500 psi rated nylon jacketed pressure hose assembly.
- Dual scale 0-1,000 psi; Metric scale 0-70 bar. 13 piece adapter set (Deere & BMW adapters included).

4/21.6/22.6/2.24'

5400g

Valve seal remover and installer kit for truck

902K2

NEW



- Two valve keeper removers and installers operate much quicker than standard compressors.
- Valve retention tools hold multiple valves in place at once.
- Special deep reach access valve seal pliers.
- All in one valve service kit with valve spring/keeper remover/installers, valve retention tools and valve seal pliers.
- Applicable: Truck only.

20/14.5/15.5/0.76'

1316g



■ Piston ring pliers

62302



- Removes or installs piston rings easily and fast without risk of breakage or distortion.
- Capacity: 110mm-160mm pistons in diameter.

 50/18.5/19.5/3'

 420g



■ Self-gripping oil filter wrench

9B0704



- Removes all oil filters from 95-165 mm.
- Used with 1/2" square drive tools.

 10/14.0/15.0/0.81'

 1400g



■ Three-legged oil filter wrench

61913



- 3-leg, 1-way, fit 1/2" square drive
- Capacity 75 ~ 130mm (3" to 5-1/8")

 24/24.0/25.0/0.79'

 950g

■ Heavy-duty oil filter wrench

61905



- Wide steel bank designed to meet the high torque requirement of truck, bus, RV and heavy duty equipment filters.
- Used with 1/2" square drive tools.

| Part no. | Packing | Capacity | g |
|----------|-------------------|-------------------------------------|-----|
| 61905120 | 36/24.8/25.8/4.5' | 4-1/8" to 4-3/4" (105mm - 120mm) | 690 |
| 61905135 | 36/25.2/26.2/4.5' | 4-1/2" to 5-1/4" (115mm - 135mm) | 700 |
| 61905145 | 36/25.6/26.6/4.5' | 5" to 5-3/4" (125mm - 145mm) | 700 |

■ Oil filter master pliers

639230



- These multi-purpose locking pliers will lock and grip oil filters or any irregular shaped object for quick positive tightening or removal.
- They can be adjusted and fastened for applications at any angle.
- Capacity: 2.1/8" to 4.1/2" (55mm to 120mm).
- Length: 230 mm.

 40/19.5/20.5/1.7'

 480g

■ Axle oil drain tray for HGV

9T3711

NEW



- For clean and simple removal of the drive shaft
- Suitable for different wheel diameters.
- Volume: 3L
- Material: PE



 20/7.8/9.3/5.2'

 390g



■ Hand lubricator for gear oil

9T3611



- With reservoir capacity 25L.
- It is suitable for general lubricant and gear oil.
- 70c.c. / each cycle.
- Hose: 1/2" x 2M PVC yarn pipe.

 1/8/9.5/2.21'

 7000g

■ Hand lubricator for grease

9T3610



- With reservoir capacity 25L
- It is suitable for general lubricant and grease.
- 4c.c. / each cycle
- Hose: 1/4" x 1W x 2M

 1/8.5/10/2.2'

 7000g

■ Lever type grease gun

88704



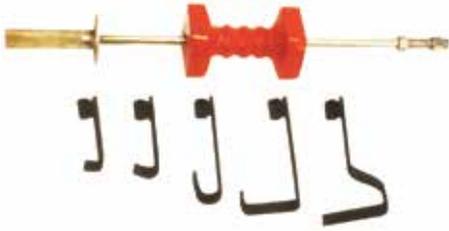
- Electric-plated finish for long service life.
- Short stroke "lever action" for easy use.
- Vented head cap for easy filling.
- Used standard 14 oz. Grease cartridge.
- 3-way loading: Standard 14 oz. Cartridge, pressure filler and bulk 400 c.c.

 20/23.0/26.9/2.3'

 1300g

6pc Extra large sliding hammer set

906M2



Contents:

- 1- Hammer and shaft
- 1- Plate (9*120mm)
- 1- Plate (9*130mm)
- 1- Plate (9*140mm)
- 1- Plate (9*210mm)
- 1- Plate (9*220mm)

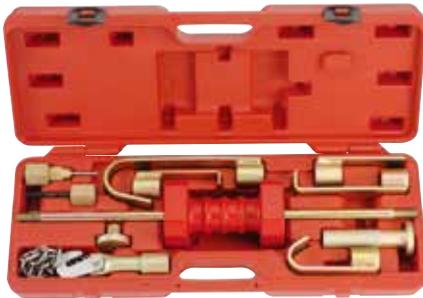
- For different extent of indentation, it has five hooks attached.
- The hooks will completely fit kinds of plate to your problem.
- It is durable and made by steel.



 2/18.0/19.0/0.91'  9kg

10pc 12LBS Knocker set

910M1



For those hard to reach places on unit-sized body reconstruction, when working on fenders, rocker panels, door edges, bumper ends, aligning doors, hoods, trunks etc. hammers both ways without reversing. Solid 5/8" steel slide shaft, pipe end nose adapter is machined and plated.



 2/20.0/21.0/1.3'  10kg

11pc 10LBS Dent puller set

665B



Contents:

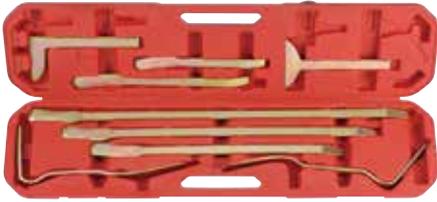
- 1pc Pipe (Diameter 22.5mm x 590mmL)
- 1pc Pipe (Diameter 22.5mm x 200mmL)
- 1pc 2 Hole pipe (Diameter 29mm x 40mmL)
- 1pc Hammer (10lbs.)
- 1pc Plate (6mm x 170mm) / 1pc Plate (6mm x 120mm)
- 1pc Plate (6mm x 120mm) / 1pc Plate (6mm x 200mm)
- 1pc Plate (3mm x 100mm)
- 1pc Chain & hook
- 1pc Hex nut (29mm)

 2/16.8/17.8/1.1'  8420g



9pc Body pry bars and body wedge tools set

909M1



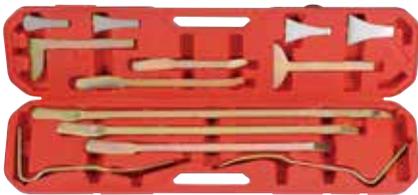
These pry bars are manufactured from special steel and are particularly suitable for:

- Dismantling stubborn components.
- Positioning components.
- Holding components in required position.
- Spreading clamp-fixtures, etc.

 2/23.0/24.0/1.52'  11.5kg

13pc Body pry bars and body wedge tools set

913M2



These pry bars are manufactured from special steel and are particularly suitable for:

- Dismantling stubborn components.
- Positioning components.
- Holding components in required position.
- Spreading clamp-fixtures, etc.

 2/23.0/24.0/1.52'  11.5kg

4pc Body and fender dent puller set

904M2



Often, the biggest time-consuming part of dent removal is the removal and installation of interior panels and upholstery. This tool eliminates those steps. Simply drill a hole at the base of the dent and thread in the tool's self-tapping screw. A few sharp blows of the slide hammer will pull the dent out.

 12/18.6/19.6/1.4'  1550g

Air suction dent puller

905M4

NEW



- With 120mm & 150mm pad
- With 3LB(1.36kgs) sliding hammer
- With brass shut off valve
- With 13" length inlet hose
- Air exhaust from the handle
- With 1/4" air plug



 4/17.0/18.0/3.3'  3.8kg

11pc Auto body repair set (interchangeable)

911M1



- Material: Main hammer made from drop forged tool steel; all bits made from Chrome-Vanadium
- Double locking device holding tight
- Save space / weight
- Save money / time
- Create high efficiency

Warning: Form hitter hits shank has to be inserted to the hole's bottom.

 10/23.0/24.5/1.8'

 2300g

7pc Auto body repair tool set

50713B



Contents:

- 62602 1-Pick & finishing hammer
- 62603 1-Light shrinking hammer
- 62604 1-Standard bumping hammer
- 68301 1-Utility dolly
- 68302 1-Curved dolly
- 68303 1-Heel dolly
- 68304 1-Toe dolly

 3/22.0/23.0/1.51'

 7300g

7pc Auto body repair tool set

50719



Contents:

- 62604 1-Standard bumping hammer
- 62602 1-Pick & finishing hammer
- 68305 1-Grid toe dolly
- 68306 1-Double end hand dolly
- 68302 1-Curved dolly
- 68353 1-Drip molding spoon
- 68354 1-Light dinging spoon

 3/22.4/23.4/1.5'

 7460g



7pc Auto body repair tool set

50720



Contents:

- 1-Rubber heel dolly (size: 2-1/2" x 3" x 1-1/2")
- 1-Large rubber heel dolly (size: 5" x 3" x 1-1/2")
- 1-Rubber double end hand dolly
- 1-Rubber general purpose dolly
- 1-Rubber wedge dolly
- 1-Rubber toe dolly
- 1-Rubber drip molding spoon



 2/22.0/23.0/1.5'

 11kg

Twist & shrinking hammer

62601



Specially designed hammer surface profile has a good performance of expanding and making convex on sheet board.

 40/20.3/21.3/2.6'

 510g

Angle and flat double spoon

68351



- Length: 510 mm
- Width: 59mm
- Head material: 1055 medium carbon steel
- Head polished: mirror polished

 8/19.4/20.4/1.2'

 2425g

Angle and flat short double spoon

68352



- Length: 401 mm
- Width: 58mm
- Head material: 1055 medium carbon steel

 8/14.3/15.3/1.2'

 1787g

■ Drip molding spoon

68353



- Length: 236 mm
- Width: 49mm
- Head material: medium carbon steel

 12/15.1/16.1/0.53'  1258g

■ Light dinging spoon

68354



- To ding ridges smooth and level.
- When held against ridge and struck with hammer, spreads blow over large area.
- Making smooth job and preventing damages to metal or finish.
- Length: 250 mm
- Width: 50.8 X 109mm
- Head material: medium carbon steel

 50/18.9/19.9/0.52'  378g

■ Short single spoon (light duty type)

68355



- Length: 286mm
- Width: 51mm
- Head material: 1055 medium carbon steel

 20/17.0/18.0/0.45'  850g

■ Grid toe dolly

68305



- To use for shrinking metal stretched by dents.
- Length: 122mm
- Width: 59mm
- Depth: 29mm
- Head material: 1055 medium carbon steel

 20/27.7/28.7/0.46'  1385g



Double end hand dolly

68306



- Length: 66mm
- Width: 61mm
- Depth: 74mm
- Head material: 1055 medium carbon steel

 20/23.5/24.5/0.5'  1175g

Corrosion assessment tool

9M1501



- Combines tapping hammer, blunt scraper and short lever.
- For checking bodywork and structural corrosion.
- Designed for the vehicle inspectorate.

 100 / 11.0 / 12.0 / 2'  110g

7pc Locking pliers & clamp set

50721



Content:

- | | |
|---------------|---|
| 614 125...250 | 2-Locking pliers 5"; 10" |
| 614A175 | 1-Locking pliers (straight jaw) 7" |
| 615150 | 1-Long nose locking pliers 6" |
| 66011 | 1-Locking "C" clamp 11" with easy release |
| 66101 | 1-Sheet metal tool |
| 66201 | 1-Welding clamp |

 3/14.0/15.0/1.5'  4650g

Locking "C" clamp with easy release

660



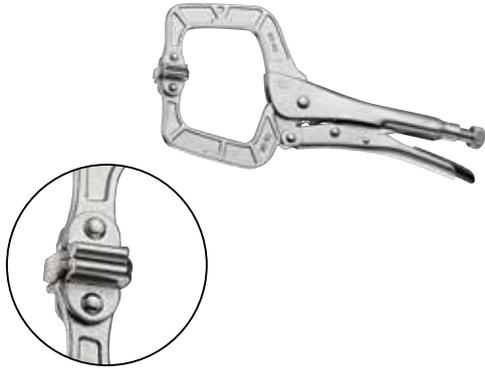
- Cr-mo drop forged jaws
- Bodily heat-treated
- Welding brazed
- Nickel plated



| Part no. | size |  packing |  g |
|----------|------|---|---|
| 66006 | 6" | 72/17.6/18.6/0.76' | 245 |
| 66011 | 11" | 30/22.5/23.5/1.2' | 750 |
| 66018 | 18" | 20/22.8/23.8/1.1' | 1140 |
| 66024 | 24" | 20/23/24/1.5' | 1150 |

Locking "C" clamp with pad

660...D



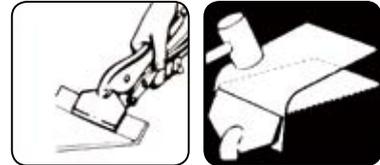
| Part no. | Size | Packing | g |
|----------|------|--------------------|------|
| 66006D | 6" | 72/17.5/18.5/0.67' | 245 |
| 66011D | 11" | 36/23.2/24.2/1.2' | 772 |
| 66018D | 18" | 20/23.5/24.5/1.1' | 1175 |
| 66024D | 24" | 16/23.1/24.1/1.6' | 1438 |

Sheet metal tool

66101



- Size: 8"
- Cr-mo jaws
- Bodily heat-treated
- Welding brazed
- Nickel plated
- Function: U-shaped jaws allow access and perfect visibility when welding.



 48/24.2/25.2/1.2'  505g

Sheet metal bending pliers

9M0301 / 9M0302 / 9M0303



9M0301



9M0302



9M0303

- Easy to do the automobile body work

| Part No. | Description | Length | Packing | g |
|----------|-------------|-------------|----------------|-----|
| 9M0301 | Straight | 280mm (11") | 20/13/14/0.96' | 650 |
| 9M0302 | 45 Degrees | 280mm (11") | 20/13/14/0.96' | 650 |
| 9M0303 | 90 Degrees | 280mm (11") | 20/16/17/0.96' | 800 |



Welding clamp

66201



- Size: 9"
- Cr-mo jaws
- Bodily heat-treated
- Welding brazed
- Nickel plated
- Function: clips things by the two flat pieces in front of the clamp.



 40/24.8/25.8/1.4'  620g

Welder's Flat Grip Wrench

65203



- Especially designed for the pipe welding.
- Length : 11" / 270mm



6pc Self-locking multi-grip pliers set

50635



Contents:

- 67901 Wide flat jaws
- 67902 Double curved jaws
- 67903 Wide curved jaws
- 67904 Angled jaws
- 67905 Straight jaws
- 67906 Mini straight jaws

 3/13.5/14.5/1.5'  4520g

Self-locking multi-grip pliers Wide flat jaws

67901



- Chrome-plated
- For spot welding
- Length:200mm



 36/21.6/22.6/1.9'  620g

Self-locking multi-grip pliers Double curved jaws

67902



- Chrome-plated
- For assembling angular shapes
- Length:200mm



 36/21.1/22.1/1.1'

 586g

Self-locking multi-grip pliers Wide curved jaws

67903



- Chrome-plated
- For spot welding of metal sheets with 90° angled edges
- Length:200mm



 36/21.6/22.6/1.1'

 620g

Self-locking multi-grip pliers Angled jaws

67904



- Chrome-plated
- For 90° edged metal sheets
- Length:210mm



 36/18.2/19.2/0.97'

 505g

Self-locking multi-grip pliers Straight jaws

67905



- Chrome-plated
- For flat metal sheets
- Length:200mm



 36/17.2/18.2/0.97'

 478g



■ Mini straight jaw

67906



- Chrome-plated
- Clamp two sheet metal pieces of equal thickness at 90°.
- Jaw adjustment: 0-12mm
- Length: 200mm



 36/18.0/19.0/0.97'

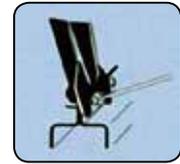
 500g

■ Plug weld pliers

9U0101



- Copper alloy backing plate prevents burning through. (Weld will not stick to the copper alloy)
- Warning:** Always wear ANSI approved safety goggles when working with tools and equipment.



 48/24.2/25.2/1.7'

 505g

■ Air spot weld drill kit

910M5

NEW



Ideal for speedy removal of spot welds on vehicle bodywork.

- Two-tier planetary gear system triples the output torque to meet the requirement of drilling high-strength body material BTR, BOR and USIBOR etc.
- Control collar (feeding adjustable ring) allows precise setting of drilling depth.
- The Brace & Feeder Assembly can be rotated 360 degree and removed, and also prevent side-slipping of drill when working.
- With one piece of HSS drilling bit (8mm shank x 8.0mm)
- Contents :
 - 1pc - Air spot weld drill with 8mm drill bit.
 - 5pc - HSS-Co Drill bits: 3pc 8mm and 2pc 6.5mm.
 - 1pc - 2mm Hex key
 - 1pc - Oil pot
 - 1pc - Air regulator
 - 1pc - 1/4" Air nipple

 6/15.7/16.7/1.54'

 2617g

Punch tool

9M0105



- Punch hole : 5mm diameter

 16/19.0/20.0/1.1  1100g

Flanger / Punch combo tool

9M0106



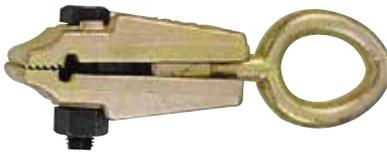
- Punch hole : 6mm diameter

 16/18.0/20.0/1.1'  1150g



Auto body repair pull clamp

62501



- Single direction action
- Capacity: 5 tons

 10/19.4/20.4/0.6'  1940g



Auto body repair pull clamp (two way)

62502



- Two direction action
- Cross capacity: 2 tons
- Longitudinal capacity: 5 tons

 10/21.0/22.0/0.6'  2100g

Auto body repair pull clamp

62503



- Single direction action
- Capacity: 3 tons

 10/20.1/21.1/0.65'  2kg



■ Auto body repair pull clamp

62504

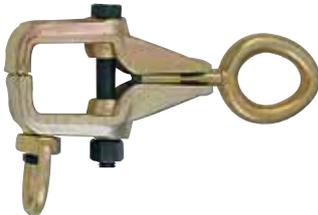


- Single direction action
- The two side heights of jaw surface are not even, most suitable for narrow space application.
- Capacity: 3 ton

 10/20.1/21.1/0.88'  2kg

■ Auto body repair pull clamp (two way)

62505



- Two direction action
- The two side heights of jaw surface are not even, most suitable for narrow space application.
- Cross capacity: 2 ton
- Longitudinal capacity: 3 ton

 10/20.1/21.1/0.94'  2kg

■ Auto body repair pull clamp

62506



- Single direction action
- Capacity: 5 ton

 6/13.4/14.4/0.71'  2230g

■ Auto body repair pull clamp (tight opening)

62529



- New design tight opening clamp.
- Single direction action.
- Capacity: 3 tons.
- Jaw open: 35 mm.

 10/12.0/13.0/0.5'  1200g

■ Auto body repair pull clamp (C type)

62507



- Multi-direction action
- The jaw surface can be extended about 3" (75mm).
- Capacity: 4 ton



 5/15.2/16.2/1.1'  3017g

■ Auto body repair pull clamp (C type)

62508



- Multi-direction action
- The jaw surface can be extended about 6" (150mm).
- Capacity: 4 ton

 4/19.5/20.5/1.4'  4875g

■ Long nose pull clamp

62509



- Single direction action.
- Long jaw mouth is most suitable for narrow space application.
- Capacity: 1 ton

 10/16.6/17.6/0.67'  1660g

■ Scissor pull clamp

62510



- Single direction action.
- No need screw for locking.
- During operation it will lock as well as tightly.
- Capacity: 3 ton

 6/15.0/16.0/0.71'  2500g



■ Auto body repair pull clamp

62511



- Single direction action.
- The jaw surface is 120mm long, most suitable for thin sheet application.
- Capacity: 5 ton

 6/15.1/16.1/0.71'  2520g

■ Auto body repair pull clamp (two way)

62512



- Two direction action.
- The jaw surface is long 120mm, most suitable for thin sheet application.
- Cross capacity: 3 ton
- Longitudinal capacity: 5 ton

 6/17.3/18.3/0.71'  2880g

■ Auto body repair pull clamp (three way)

62513



- Universal direction action
- The jaw surface is 120mm long, most suitable for thin sheet application.
- Cross capacity: 3 ton
- Longitudinal capacity: 5 ton
- Multi-direction capacity: 3 ton

 6/19.6/20.6/0.71'  3260g

■ Utility claw hook

62514



- Applying for connecting and shortening the chain. (3/8" and 5/16" chain applicatory)
- Capacity: 6 ton



 20/24.4/25.4/0.6'  1220g

■ Twin pull hook

62515



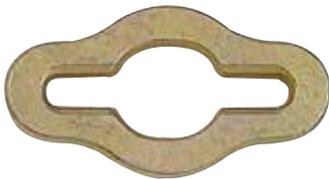
- Applying for two clamps are connected by a chain and make a two sides action. (3/8" and 5/16" chain applicatory)
- Capacity: 6 ton



 10/10.8/11.8/0.32'  1080g

■ Body jig chain connector link

62516



- Applying for connecting and shortening the chain. (3/8" and 5/16" chain applicatory)
- Capacity: 6 ton



 10/6.3/7.3/0.32'  630g

■ Self-tightening clamp

9M1601



- Minimum size, maximum capability for tight places.
- Responsive, spring-loaded, one-handed application for fast action pulls.
- Round wedge allows chain to be pulled free of twists.
- Aggressive cross-hatched tooth design.
- Capacity: 5 ton

 15/16.5/17.5/0.59'  1100g

■ Self-tightening clamp

9M1602



- Self-tightening clamp; grips tighter as it is pulled.
- Compact and lightweight for pulling from many places.
- Minimum of 1-1/2" reach-around for flanges, cowls, pinch welds, and lips.
- Butts against panels where only narrow bite available.
- 1-1/4" (31.8mm) jaws give added grip.
- Capacity: 6 ton



 8/18.0/19.0/0.56'  2250g



Self-tightening clamp

9M1603



- Self-tightening: The harder it's pulled, the tighter it grips.
- Heat-treated steel clamp is positioned on work with wedge forward and nut just finger tight.
- Easy to attach no special wrench needed.
- 2-1/4" (57.2mm) jaws
- Capacity: 6 ton



 6/18.7/19.7/0.56'  3120g

Right angle clamp & yoke

9M1604



- Capacity: 6 ton on straight way
3 ton on cross way
 - Two-way pull operation
 - Serrate width: 100 mm
- You can make straight and right angle pulls with this clamp.
Replaceable hardened steel jaws com as standard.

 4/16.0/17.0/0.49'  4000g

Right angle clamp & yoke

9M1605



- Capacity: 6 ton on straight way
3 ton on cross way
 - Two-way pull operation
 - Serrate width: 100 mm
- You can make straight and right angle pulls with this clamp.
Replaceable hardened steel jaws com as standard.

 4/16.3/17.3/0.49'  4075g

Pull clamp

9M1606



- Capacity: 6 ton on straight way
 - Single-way pull operation
 - Serrate width: 100 mm
- You can make straight and right angle pulls with this clamp.
Replaceable hardened steel jaws com as standard.

 4/13.0/14.0/0.6'  3250g

Pull clamp

9M1607



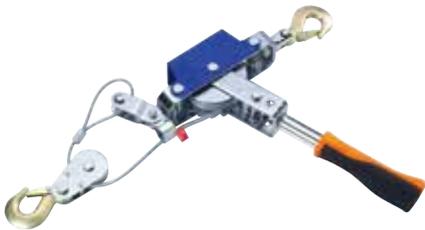
- Capacity: 6 ton on straight way
- Single-way pull operation
- Serrate width: 100 mm

You can make straight and right angle pulls with this clamp.
Replaceable hardened steel jaws com as standard.

 5/16.2/17.2/0.46'  3240g

1 ton Portable puller

88201



- Detachable Handle with ergonomic design.
- Stores in a handy case and easily under a pick-up seat or straps to a luggage carrier.
- Capacity: 1 ton (2000 lbs)
- Cable: 5mm x 10ft with 2 hooks

 6/20.4/21.9/2.0'  3400g

3-in-1 Super duty orbital air sander

82603



- Machine description:3-in-1
- Paper size:6" (152 mm)
- Free speed:10000 R.P.M
- Orbit option:5.0 mm
- Overall length:8-55/64"(225 mm)
- Air inlet:1/4" P.T.
- Air hose:3/8 I.D
- Avg. air consumption:7.5cfm (212 L/min)
- Net weight:1.8 Lbs (0.82 kgs)

 12/9.0/13.0/2.5'  815g

Adjustable body file blade holder

65701



Application: for 14" (350mm) flexible file adjustable frame.

 20/15.7/16.7/2.1'  785g



Body file blade

65714



| Part no. | teeth per inch | inch | Packing | g |
|----------|----------------|------|-------------------|-----|
| 6571409 | 9 | 14 | 60/18.6/19.6/0.5' | 310 |
| 6571412 | 12 | 14 | 60/21/22/0.5' | 350 |

4pc Body filler applicator set

904M7



NEW

- Flexible spring steel blades
- Ergonomic composite handles with rubber comfort grips
- Perfect for application of body fillers in automotive restoration.
- Set includes: 2", 3", 4" & 6" blade sizes.

40/9.0/10.0/2.8' 240g

5pc Needle file set

50513



Set of 5pcs needle files with different shapes. Smooth cut.
Needle files shapes round, square, half-round, triangular, and flat.

120/10.8/11.8/0.9' 90g

5pc Auto body tools

T905M2



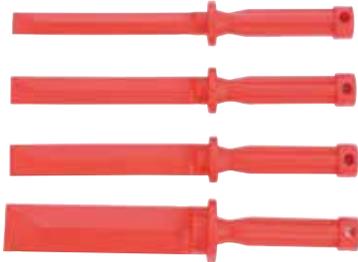
Contents:

- 905M2P1 1-Trim pad remover (big)
- 905M2P2 1-Trim pad remover (small)
- 905M2P3 1-Gasket scraper
- 905M2P4 1-Radiator hose remover
- 905M2P5 1-Cotter pin puller

6/5.0/6.0/0.65' 833g

4pc Composite scraper set

904M6



- Ideal for removing trim, badges and decals from bodywork.
- Also suitable for removing residue from alloy wheels.
- Polypropylene edges will not scratch or mark paint or panel work and can be re-sharpened with a file when required.
- Length: 270mm
- Blade Size: 19mm(3/4"), 22mm(7/8"), 25mm(1"), 38mm(1-1/2")



 20/10.0/11.0/3.6'  500g

Plastic riveter set

67803



NEW

- Rivet sizes: 10pcs each 5mm×15.8mm / 5mm×17.2mm / 6mm×17.2mm / 6.3mm×25.2mm.
- Save time: set different sizes of rivets without changing nose pieces.
- Wide range application: perfect for working on automotive plastic bumpers, wheel wells, etc.
- Set plastic rivets perfectly in a single stroke by using this tool which has self adjusting jaws.
- Avoid damaging painted and delicate surfaces by using this specialty tool.
- Provides extra access to hard to reach areas.

 20/15.5/17/2.2'  775g

4pc Door service tool set

904M1



- A handy tool set which includes a door handle tool, two door panel removers and a GM door trim pad remover.
- Together they handle a wide range of service applications.

 24/13.4/14.9/2.7'  560g



5pc Handy remover set

905M1



- For plastic upholstery fastener.
- Place tool under edge of door panel and insert into fastener as far as possible and then simply pull up.



 48/19.3/20.3/3'

 400g

4pc Trim Removal set

904M3



NEW

- The most versatile body/interior tool set we have ever carried. Nearly indestructible, non-marring composite construction.
- Great for technicians, body shops, upholstery shops.

 72/6.9/7.9/1'

 200g

BENZ Wedge set

9M0203



- Used to safely remove the wood & plastic pieces on the door panels as well as on the dashboard, without damage it.
- Application: All Mercedes Benz.



 200/10.7/11.7/0.3'

 53.5g

Clip removal pliers

9M0101



For removal of door inner-linings and other trim items held in place by plastic rivets.



 72/17.3/18.3/3.8'

 240g

Clip removal pliers

9M0102



- Designed to remove broken rivets (plastic), used under care cover or door pannel.
- Can adjust the angle from 0°~90°.

 24/11.6/12.6/2.6'  480g



2pc Clip removal pliers set

902M1



9M0103

9M0104

- Removal for all types of clips
- The front ends of the tool are angled and tapered to fit easily under a clip.
- Size: **9M0103**-35°
9M0104-80°

 48/18.0/19.0/3'  375g



2pc Clip remover

902U1

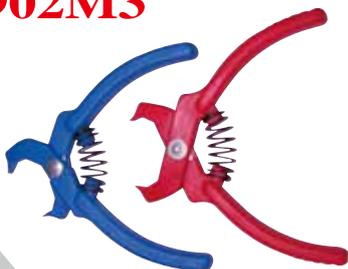


- Engage the tool tip behind the connector clip.
- Push or pull to disconnect.
- Works on Weather Pack and other automotive electrical connectors.

 96/14.4/15.4/1.7'  150g

Mini clip pliers

902M3



- Special design to use on small space
- Size: 20mm x 100 mm
26mm x 100mm

 96/14.4/15.4/1.7'  150g



44pc Auto glass maintenance set

944M1



- 1pc Wire piercing tool
- 1pc Square cutting wire
- 1pc Cutting wire
- 1pc Cutting wire (golden color)
- 2pc Wire handle
- 1pc Window clip molding remover
- 2pc Double suction cup (dia. 12cm) swiveling heads w/hole
- 1pc Window molding remover
- 1pc Wide pinch weld scraper
- 1pc Sharpening stone
- 1pc 18" Urethane cutting knife & blade
- 1pc Gasket scraper
- 1pc Door cover clip remover
- 1pc Standard cold knife
- 28pc Standard cold knife blade



 2/12.0/13.0/3'

 6kg

13pc Auto glass maintenance kit

K913M1



Contents:

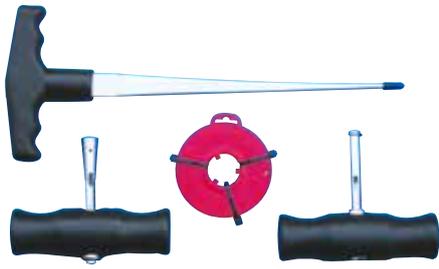
- 9M0503 Windshield cut-out wire (stainless steel, square)
- 9M2901 Wire guide
- 902M2 2pc Wire gripping handles (Quick release)
- 9M2902 Wire starter
- 9M2903 Music wire piercing tool
- 5055P401 Utility knife
- 5055P401-P 5pc Spare blades for 5055P401
- 9U2102 Scraper with dual-material grip (12mm blade)
- 9U2102-12 5pc Blade 12mm
- 9U2102-16 5pc Blade 16mm
- 9U2102-16A 5pc Blade bevelled 16mm
- 9U2102-20 5pc Blade

 6/12.2/13.2/1.5'

 2035g

4pc Windshield removal kit

904M5



It is ideal and essential kit for removing the vinyl adhesive compound around windshield.

Contents:

- **Wire feeder tool (Length: 205mm)**
Designed for easy and flexible insertion of wire through polyurethane, allowing speedy removal of bonded windshield.
- **2pc Wire gripping handles**
Feed the wire through the hole in the wedge shaft. Loop it through the hole at the top of the shaft. Then back into the handle. Pressing the wedge back into the handle, the wire is held.
- **72 feet Square wire**
Material: Stainless

 32/14.0/15.0/2'

 437g

7pc Windshield removal kit

907M1



- **Wire**
Material: stainless
- **2pc Wire gripping handles**
Feed the wire through the hole in the wedge shaft. Loop it through the hole at the top of the shaft. Then back into the handle. Pressing the wedge back into the handle, the wire is held.
- **Windshield removal tool**
Cuts the vinyl adhesive compound around windshield.
- **Wire feeder tool**
Designed for easy and flexible insertion of wire through polyurethane, allowing speedy removal of bonded windshield.
- **Trim pad remover**
Place the tool under the edge of the door upholstery panel and insert it into the fastener as far as possible, then simply pry up.
- **Windshield molding release tool <for GM>**
Use for removal of windshield molding on rubberless installation.



 6/6.5/7.5/1.5'

 1083g



10pc Windshield installation kit

910M3



- **Rope insert tool**
Use this tool to insert the rope into rubber gaskets. The handle feeds rope through its stem as you pull it around the gasket.
- **Assort tip for insert tool**
For inserting locking strip into windshield seal. Different shaped heads interchangeable for most types of locking strip.
- **Curved hook tool**
Curved hook tool used for inserting and cleaning rubber gaskets.
- **Straight hook tool**
Straight hook tool used for inserting and cleaning rubber gaskets.
- **Cleaning tool**
Designed for the removal of broken glass for the side runners without removing them.



 6/5.4/6.4/0.75'

 895g

Windshield cut-out wire (stainless steel, square)

9M0503



- Designed to provide the fast cutting action possible.
- Each wire acts like a cutting saw tooth.
- Made of stainless steel 50m per roll.

 96/18.3/19.3/1.5'

 190g

Windshield cut-out wire (stainless steel braided)

9M0505



- Design provides the fast cutting action possible.
- Each wire acts like a cutting saw tooth.
- Made of stainless steel 50m per roll.

 96/20.0/21.0/1.5'

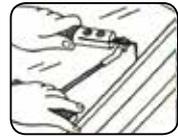
 125g

Windshield removal tool

9M2904



- Cable action makes cutting out windshields fast and easy.
- A strong tempered steel blade, sharpened to a fine cutting edge, with a large durable aluminum handle, combined with a steel cable pull handle assures the easiest and fastest way of cutting the caulking compound around the windshield.
- The steel cutting blade can be re-sharpened and after many uses is easily replaced with a new blade.



 48/14.0/15.0/1.4'  290g

Window scraper

9U2101



- Special handle design for easier grip when operation.
- Replaceable blade design to change the blade quickly and easily.
- Blade width: 40mm



 144/17.2/18.7/2.3'  120g

Multi-function powerful suction cup

634



- To pull up the plating notched part.
- To fix the windows while maintaining.
- To assemble the front and rear wind broken glasses.



| Part no. | Application |  Packing | Capacity Kgs |  g |
|----------|----------------|---|-----------------|---|
| 63401 | On flat object | 20/7.9/5.9/1.6' | 50 | 395 |
| 63404 | Fixed 2 sucker | 20/24.3/25.3/4' | 80 | 1215 |



Multi-function powerful suction cup (Aluminum)

634..A



63401A



63404A



63403A



63405A

- To pull up the plating notched part.
- To fix the windows while maintaining.
- To assemble the front and rear wind broken glasses.

| Part no. | Application | Packing | Capacity | |
|-------------------|-------------------|-------------------|----------|------|
| | | | Kgs | g |
| 63401A | On flat object | 20/10.9/11.9/1.6' | 30 | 480 |
| 63403A | Fixed 2 sucker | 20/20.1/21.1/4' | 50 | 780 |
| 63404A | Flexible 2 sucker | 20/24.4/25.4/4' | 35 | 1180 |
| NEW 63405A | Fixed 3 sucker | 10/14.1/15.1/3.1' | 100 | 1410 |

33pcs Paintless dent repair kit

933M1

- Hail damage, door dings and other cosmetic damage are quickly massaged out with this extensive 33pc tool profit center.



 2/17.5/18/1.6'

 8.5kg

AUTO BODY

Air inflator for unlocking car door (vehicle)

9M2301



- This inflation design easily and safely to separate the door frame from the vehicle body.



 48/9.5/10.5/4.5'

 200g

Windshield stand (folding type)

9M3401



- The most common complaint about windshield stands is the amount of space they take up.
- To collapse the stand, pull each of the legs apart and fold them toward the center.
- Each leg is held together by a steel rod that gives the stand greater strength than it would have if it did not have the rods.
- Size:24"



 1/9.0/10.0/1.3'

 9kg

5pc Wiper arm puller set

905M5



- Universal applications
- Provide 4 adjustable removers & one high versatility puller fits nearly all difficult wiper arm removing works.



 10/11.7/12.7/1.27'

 1170g

Windscreen wiper arm removal tool

9M0201



- The compact design offers easy access in confined spaces and eliminates the risk of damage to the wiper arm or surrounding paintwork.
- A simple, effective tool allowing easy removal of those stubborn wiper arms. Suitable for both taper and taper spline spigots.
- Size:16mm×32mm



 48/6.8/7.8/1'

 140g



■ Heavy-duty windshield wiper puller

9M0204



- To remove stubborn wipers:
BMW, JEEP LIBERTY, GRAND CHEROKEE, DODGE CARAVAN, STRATUS, RAM DIESEL, DAKOTA, PT CRUISER, CHRYSLER LHS, TOWN & COUNTRY, SATURN VUE, BUICK RENDEZVOUS, CADILLAC CTS, FORD FOCUS, WINDSTAR, HONDA CIVIC, ODYSSEY AND TOYOTA CAMRY.
- Size: 18mm×32mm

 60/17.7/18.7/1'  295g

■ Windscreen wiper arm removal tool

9M0205 / 9M0206



9M0205



9M0206

- The special design offers easy access in confined spaces and eliminates the risk of damage to the wiper arms.
- A simple, effective tool allowing easy removal the stubborn wiper arms.



| Part no. | Size mm |  packing |  g |
|----------|------------|---|---|
| 9M0205 | 26 x 42 | 96/20.5/21.5/0.8' | 220 |
| 9M0206 | 16 x 46 | 36/17.5/18.5/0.7' | 510 |

■ Windshield wiper arm removal tool

9M0202



- Tool removes wiper arms for most of the vehicles.
- Protective pad on bottom jaw will not scratch painted surfaces. Place jaws between wiper arm and shaft and squeeze handles to remove.



 72/15.0/16.0/2.5'  208g

■ Metallic dispensing gun

9M3301



- For 2 component epoxy resin to adhere to windcreens.
- Suitable for twin epoxy resin cartridges.

 25/10.8/11.8/2.8'  433g

10pcs Motorcycle flywheel drive puller set

909Y1



• Thread Sizes:

85mmL

M14xP1.5; M16xP1.5; M18xP1.5

65mmL

M19xP1.0; M28xP1.5;

M20xP1.0 / M27xP1.25; M22xP1.0 / M25xP1.5;

M22xP1.5 / M26xP1.5; M24xP1.0 / M27xP1.0L;

M26xP1.0 / M28xP1.0

• Application:

YAMAHA, SUZUKI, HONDA, BOSCH, DUCAN, GLERA, SAM, CAGIVA, SFERA, KYMCO, MBK, PEUGEOT, KIMOO, MOTOPLATT, KAWASAKI, KOKUSAN, MINARELLI, DUCATI.



 10/17.8/18.8/1.15'

 1780g

Motorcycle flywheel puller M27x1.5

9Y0182



NEW

• Designed to remove the motorcycle flywheels.

• Puller includes M27x1.5 right hand internal threads, M12x1.25 crankshaft protector cap.

• Application:

Honda: CG125 / ML / BIZ100 / POP100

 60/20/21/1.1'

 333g

Motorcycle flywheel puller M30x1.0

9Y0183



NEW

• Designed to remove the motorcycle flywheels.

• Puller includes M30x1.0 right hand internal threads, M12x1.25 crankshaft protector cap.

• Application:

Yamaha: WR 250F 2003 – 2008 and WR 450F 2003

 60/25.5/26.5/1.1'

 425g



Motorcycle flywheel puller M30x1.25

9Y0185



NEW

- Designed to remove the motorcycle flywheels.
- Puller includes M30x1.25 right hand internal threads, M12x1.25 crankshaft protector cap.
- Application:
Honda: CRF450X, CRF450X8

 60/25.8/26.8/1.1'  430g

Motorcycle flywheel puller M30x1.5

9Y0186



NEW

- Designed to remove the motorcycle flywheels.
- Puller includes M30x1.5 right hand internal threads, M12x1.25 crankshaft protector cap.
- Application:
Honda: Most 1989-1990 FL400R pilot models.
Kawasaki: Some KLF300 quad models.
Suzuki: Most LT160/230/250, TM125/250/400, 1970's TS250, 2004-2009 DR200 enduro models and most early PE, TS models.
Other: European CZ MX and enduro models.

 60/25.4/26.4/1.1'  424g

Motorcycle flywheel puller M28x1.0

9Y0188



NEW

- Designed to remove the motorcycle flywheels.
- Puller includes M28x1.0 right hand internal threads, M12x1.25 crankshaft protector cap.
- Application:
Honda: CRF450X 2004-2008, TRX450R/ER 2006-2007
Kawasaki: 2008 KLX450R
Suzuki: 2008 RMZ450

 60/17.2/18.2/1.1'  287g

Motorcycle flywheel puller M26x1.0

9Y0187

NEW



- Designed to remove the motorcycle flywheels.
- Puller includes M26x1.0 right hand internal threads, 12mm shaft protector cap.
- Application:
KTM: 250 RFS, 250SX-F, 400, 450, 520, 525

60/12.8/13.8/1.1' 213g

Motorcycle flywheel puller T bar M27x1.0

9Y0181

NEW



- Designed to remove the motorcycle flywheels.
- Size: M27x1.0.
- Applicable:
Honda: CR80R/125R/250R/450R/480R/500R, XL80/100/100S/170, XR100/100R, XR50/CRF50 00-04, FL250, ATC70/110 (CDI ONLY), ATC185/ 250R, TRX250R 86-89, TRX90 93-00, TRX70/125 & EARLY 50cc
Suzuki: 125/160EK/250R, DR100/125/200, DS80, ALT185
Yamaha: 1968 & later, BW80, RIVA50, PW50, RZ350, TT500, XT500, YFM80/100/200/225, YFS200, YFZ350, YSR50, YT125/175 & YZ400F, YZ450F
Kawasaki: KD/KX/KDX80, KM100, KS100, KS125
KTM: 65SX 99-04, 85SX 04, 105SX 04, 200 EXC/MXC 98-05, 125/250 SX/EXC/MXC 98-05 & 250/300/380 SX/EXC/MXC 97-05

60/15.0/16.0/1.0' 250g

Flywheel puller for DUCATI

902Y1

NEW



- Designed to remove the motorcycle flywheels.
- Applications: Ducati 250/350/450 and most later bevel single wide-case models.

24/12.0/13.0/0.7' 500g



Clutch holding tool

9Y0101



- Made from medium carbon steel with hardened jaws
- Holds clutch hubs, flywheels, gears, sprockets, etc...
- Features spanner pins
- Jaws open to 5" wide

 20/14/15/1.2'

 700g



Rotor and sprocket holder

9Y0111



- Keeps flywheels, rotors and sprockets from rotating during removal and installation.
- Holds sprockets and rotors with holes center-to-center at a minimum distance of 1/2" (13mm) and a maximum distance of 9" (230mm).
- Features 5mm and 9mm pins.
- Adjustable stop screw keeps tool open at set distance.

 36/20.5/22.0/2.1'

 569g



Universal fork seal driver

903Y1



- Designed for easy installation of most fork seals.
- Works on either conventional or inverted forks.
- Unique adjustable insert will work on dia. 26 to 45mm.

 20/22.0/23.0/0.7'

 2200g



Motorcycle fork cap wrench (46x50)

9Y0121



- For removing the fork caps on late-model RMs & CRs
- Can be used for removal of a compression stack on late-model RMs
- Replaces Suzuki OEM 09941-53630
- One end is 46mm, the other is 50mm
- Also fits 2010 Honda CRF250R

 48/16/17/0.74'

 334g



Fork compression valve removal tool

9Y0122



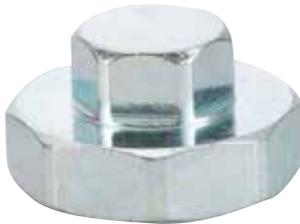
NEW

- Ideal tool to remove the compression valve from cartridge.
- 19mm drive hex with 36 mm octagon.
- Made of 6061-T6 aluminum.
- Applications:
Honda:CRF250R 2010-2012, CRF450R 2009-2012,
Kawasaki:KX 450F 2009-2012
Yamaha:YZ 125/250 2005-2012, YZ 250F/450F 2006-2012

 144/7.5/9.0/1.5'  52g

Twin chamber KYB compression valve wrench

9Y0146



NEW

- This tool removes the Compression Body from the cartridge on twin-Chamber KYB forks.
- Applications:
Yamaha:YZ 125/250 05-09, YZ250F/450F 06-09



 144/17.0/18.5/1.0'  118g

3/8"DR. Fork damper rod holder

9Y0123



NEW

- Ideal tool to hold damper rod when disassembling and assembling front forks.
- It provides a secure method of holding the inner damper rod while removing the bolt from the bottom of the fork leg on Kawasaki models.
- Applications:KZ, ZS, KX and KDX front fork dampers.



 96/14.5/16.0/1.3'  151g

Angle driver for motorcycle carburetor

910Y1



- Deep-access tool particularly suited to adjustment of motorcycle carburetor.
- One turn of handle equals one turn of blade.
- 90° and straight gear-boxes.
- Furnished with set of driver bits.

 12/11.0/12.0/2.1'  916g



■ Carburetor synchronize tool set

919G2



- For testing fuel pump carburetor and transmission check auto with 2~4pc carburetors.
- Gauge: Pressure: 0~15 PSI:0~1 kg/cm²
Vocuum: 0~28 in-Hg (0~70 cm-Hg)
- Contents:
 - 4pc 3-1/2" Synchronizer gauges with fixed plate
 - 4pc Rubber hose 8 X 5 x 750mm
 - 4pc Extension tube 3.9 x 52mm
 - 4pc Extension tube 3.9 x 122mm
 - 8pc Cone type connector 8 x 40mm
 - 4pc Adapters 10 X 53mm (M6 x 0.75)
 - 4pc Adapters 10 X 60mm (M6 x 1.0)



 6/20.0/21.0/2.25'  3330g

■ All purpose chain separating tool

9Y0135

NEW

- For pressing rivets out of the chains.



 24/18.5/19.5/1.6'  770g

■ Chain breaker and riveting tool set

913Y1

NEW

- Versatile 3-in-1 tool can be used on both cam chains and drive chains.
- The kit supplied with adequate components to break chains from #35 to #630.
Includes three pin sizes for compatibility with most chains (2.2 mm, 2.9 mm & 3.8 mm) .
Also includes tools and plates needed to rivet hollow nose master links.



 20/16.5/17.5/1.5'  825g

Chain link pliers

9Y0131



- Designed to simplify installation or removal of clip-type master chain links.



 48/16.9/7.9/2.3'

 143g

Chain puller tool

9Y0132



- This chain puller is made for work on drive chains found on motorcycles and all-terrain vehicles (ATVs).
- Tightening the forcing screw pulls the jaws together to hold the chain for easy removal or installation of the chain connector or master link.



 48/12.0/13.0/2'

 252g

Motorcycle chain brush

9Y0133



- Composite, angled chain brush features adjustable brush adaptors to fit various size chains.
- Suitable for use on all chain types.



 72/8.5/10.0/3.6'

 118g

Motorcycles belt tension gauge

9Y0141



- This tool can be used to adjust belt tension on most motorcycles equipped with a secondary drive belt.
- This tool provides a simple way to firm the belt for proper tension.



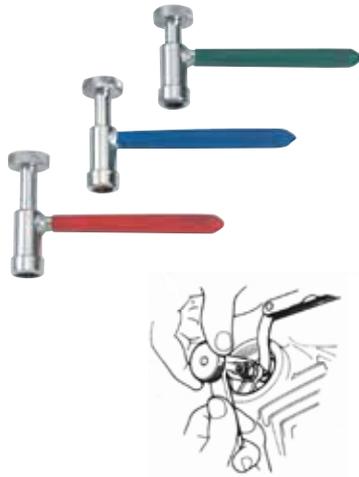
 240/18.0/19.5/1.6'

 75g



■ Tappet adjusting tool set

9Y0142



- Set contains three wrenches (8, 9 & 10mm) and three adjusters (screw type and 3 & 4mm square type).
- Interchangeable adjusters and wrenches provide nine different combinations.
- Ideal for most marks and models of motorcycles, ATVs and ATCs.
- Applications:
 HONDA: All ATC's and motorcycles with 4-cycle engines and screw type adjusters.
 YAMAHA: SR 185/250, XT/TT250, XS400, ST185
 SUZUKI: All 4-cycle ATV's and motorcycles with screw-type adjusters.
 Any tappet adjuster with 8, 9 or 10mm adjusting nut and 3 or 4mm squart slotted adjuster.

 48/12.5/13.5/0.6'  260g

■ Large tools work on valves of 4-valve-per-cylinder heads

9Y0143



- Used to install valve spring keepers.
- Replaces the large cumbersome valve spring compressor.
- These tools are aimed at saving time when replacing valves in modern 16 to 20 valve head.
- Designed to fit the valves of 4 -cylinder heads (5.5 mm valve stem diameter or larger with under 40 lbs).



 36/13.0/14.0/0.6'  361g

■ Small tools work on valves of 4-valve-per-cylinder heads

9Y0143B

NEW



- Used to install valve spring keepers.
- Replaces the large cumbersome valve spring compressor.
- This tool is designed to save time in replacing valves of modern 16 to 20 valve heads.
- This tool works on valves of 4- or 5- valve-per-cylinder heads. (Valve stem diameter of 5mm or smaller)

 36/15.0/16.0/0.6'  420g

Valve spring compressor

62110



- These tools are designed to compress and release valve spring after removing the collets. Pantograph-type levers ensure a consistent coaxial contact with the valve.
- Contents:
 - 3pc Driving adaptor: 16; 19; 23; 25; 30 mm
 - 3pc pressure screw: 70mmL; 110mmL; 120mmL
 - 1pc C Clamp



 10/21.5/22.5/2.2'  2150g

Piston ring pliers

62002



- Save by reducing ring breakage.
- Tapered jaws to remove and install most passenger car and light truck rings from 3/64" to 1/4" (1.2mm ~6.3mm).



 144/18.0/19.0/2.15'  135g

Piston ring compressor tool

62005

NEW



- Designed to prevent ring breakage during cylinder installation.
- It can easily be removed after cylinder is in position.
- Tool supplied with 6 rings to be applicable to most engine sizes.
- Fits 35-73 mm

 60/16.23/17.23/2'  270.5g

Piston ring compressor for Motorcycle

6202080

NEW



- For easy insertion of piston into cylinder bore and even compression over full ring length.
- Ratchet mechanism.
- Capacity: 40 - 80 mm diameter.

 50/7.0/8.0/0.89'  140g



Oil filter wrench

9B0701



- Steel jaw grips filter without slipping.
- Use with 3/8" drive.
- Suitable for filter 2-1/2" to 3-1/8" (60m/m-80m/m).

 48/18.1/19.1/1.7'  380g



Timing and crankshaft turning tool for DUCATI

9Y0301

NEW



- Ideal tool to turn timing mark on the degree wheel for perfect valve adjustments.
- It makes ignition-timing work to be performed.
- Applications: DUCATI Monster | Multistrada 600 / 620 / 748 / 750 / 800 / 848 / 851 / 888 / 900 / 916 / 996 / 998 / 999 / 1000 / 1098 / 1198.

 36/18.0/19.5/1.9'  500g



Engine rotating tool for DUCATI

9Y0302

NEW



- It allows you to rotate your engine easily and safely while checking the valve clearances or setting the timing.
- Applications: DUCATI Monster / 748/996/999/SS.

 96/12.5/13.5/0.6'  130g



Timing and crankshaft turning tool for DUCATI

9Y0303

NEW



- It allows you to attach through the primary cover access hole and fit into the crankshaft notch for ignition-timing work accuracy.
- It is also suitable for mounting most available degree wheels.
- Applications: Ducati 250/350/450/750

 36/14.5/16.0/1.1'  403g

Cam holder for DUCATI

9Y0305

NEW



- This tool helps you to loosen the cam gear nut easily.
- Applications: DUCATI 250 350 450 750 single twin bevel.

 20/19.2/20.2/0.43'  960g

Spark plug cap removal tool for BMW

9Y0306

NEW



- This tool works on R and F series coil-over bikes.
- It is designed to slip onto the cap from the front and that allows you to remove the spark plug cap without damaging it.
- If the cap is very difficult to remove, choose a proper bar, slip it through the 1/4" hole on the tool and then you can pry the cap loose easily.

• Applications:

All R1150 from Dec 2002 production

R1200C, R1200C I/M, R1200 Montauk from October 2002 production

All R1200 from model year 2003 and newer

R1100S from December 2002 production

All F Twins

All G Thumpers

All new style K1200/1300s



 144/7.5/9.0/1.8'  52g

4-in-1 Hex axle tool

9Y0151



- Fits internal hex on many late-model sport-bike axles and some dirt bikes.
- Four metric hex sizes: 17, 19, 22 and 24mm.
- 3/8 in. square drive on both ends.

• Applications:

BMW: 1200GS, R1200 RT

Buell: XB9R, XB9S, XB12R, XB12S (2003-2004)

Honda: CBR600RR, CBR1000RR

Kawasaki: ZX6R, ZX6RR, ZX600E/K, ZX7R, ZX9R, Z1000

Suzuki: GSXR 2000-2004, DL 1000 V-Strom (all), SV1000

Yamaha: R1, R6



 100/17.0/18.0/0.6'  170g



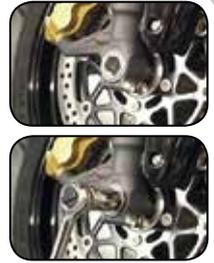
Motorcycle spindle tool

9T1403



- Use a socket on the free end to remove spindle.
- 24mm for SUZUKI / HONDA
- 22mm for KAWASAKI
- 19mm for YAMAHA

 100/13.6/14.6/1.5'  136g



Front and Rear wheel nut tool set

909Y2



NEW

- The combined socket is two sizes in one, a 55mm 12pt for the rear and a 28mm 6pt for the front.
- The other sockets size as follow:
41mm/46mm 6/12pt for the rear wheel
25mm/30mm 6pt and 28mm 12pt for the front wheel
- All sockets with 1/2" drive.



 15/16.5/18.5/1.4'  1100g

Brake piston detaching tool for motorcycle

9Y0201



NEW

- To detach a piston from the disc brake base of a motorcycle
- Ratcheting handle allows the operator to replace a piston conveniently
- Jaw adjustment: 30-33 mm.
- Length: 240 mm.



 10/13.5/17.6/2.1'  270g

Parking brake piston socket for YAMAHA

9Y0202



NEW

- Material: Heavy duty Cr-Mo steel construction
- Applications:
YAMAHA: MAJESTY (07~11), MAXAM (05~10), GRAND MAJESTY 400 (05~09), GRAND MAJESTY 250 (04~07), TMAX (05~10)

 240/16.0/18.0/1.8'  67g

■ Parking brake piston socket for HONDA / SUZUKI

9Y0203



NEW

- Material: Heavy duty Cr-Mo steel construction
- Applications:
SUZUKI: SKYWAVE250 (07~11), SKYWAVE400 (07~11)
HONDA: FORZA (00~03)

 240/14.0/16.0/1.8'  58g

■ Brake fluid bleeder bottle

9Y0161



- Bleeder Bottle Capacity: 0.5 L

 50/10.0/11.0/3.0'  200g

■ Honda oil filter and clutch hub spanner

9Y0145



- Designed for oil filter and clutch hub on many Honda models (single-cylinder and twin-cylinder machines).
- 3/8" driver and 24mm inside diameter.
- Applications: most pre-1978CB, CL, CT, SL and XL models, XR200 1980-1984, XR200R 1981-1994, XR250L 1991-1994, XR250R 1986-1995.
- Replaces large end of 077160020100 OEM tool.

 240/12.5/14.5/1.6'  52g

■ Adjustable spanner wrench

9U0701



- For use on slotted retaining rings.
- Adjustable from 1/2" to 2-3/4".



 48/16.1/17.1/1.1'  335g



Fixed type adjustable hook wrench

823

- For use on slotted retaining rings.



| Part no. | Size | Packing | g |
|----------|-----------|-------------------|-----|
| 823035 | 15-35 mm | 60/6.6/7.6/1' | 110 |
| 823050 | 35-50 mm | 60/12.6/13.6/1' | 210 |
| 823080 | 50-80 mm | 40/17.0/18.0/0.9' | 425 |
| 823120 | 80-120 mm | 20/15/16/0.92' | 750 |

Pin type adjustable hook wrench

823A

- For use on slotted retaining rings.



| Part no. | Size | Packing | g |
|----------|-----------|-------------------|-----|
| 823A035 | 15-35 mm | 60/6.6/7.6/1' | 110 |
| 823A050 | 35-50 mm | 60/12.6/13.6/1' | 210 |
| 823A080 | 50-80 mm | 40/17.0/18.0/0.9' | 425 |
| 823A120 | 80-120 mm | 20/15/16/0.92' | 750 |

Internal snap ring pliers (long arm)

9U0102



- Special design for the retaining ring in the deep hole.
- The most deep size: 56mm.

 48/9.5/11/2'

 198g

Stud extractor

818A



- Socket 1/2" DR. Stud Extractor.
- For remove threaded, stripped, rusted, broken and smooth studs.
- Stud range: 6 - 19mm (1/4" - 3/4")



 30/16.9/17.9/0.55'

 560g

Hex nut driver T handle

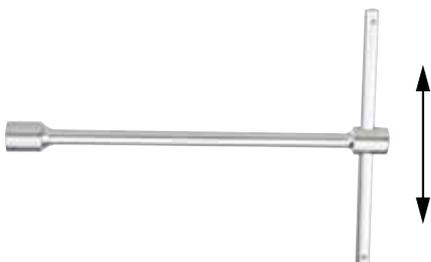
774..A



| Part no. |  Tip | <i>l</i> blade | <i>l</i> over |  g |  pc/box |
|--------------------|---|----------------|---------------|---|--|
| 77406A | 6 | 300 | 200 | 220 | 10 |
| 77407A | 7 | 300 | 200 | 220 | 10 |
| 77408A | 8 | 300 | 200 | 279 | 10 |
| 77409A | 9 | 300 | 200 | 285 | 10 |
| 77410A | 10 | 300 | 200 | 294 | 10 |
| 77411A | 11 | 300 | 200 | 318 | 10 |
| 77412 A | 12 | 300 | 200 | 432 | 10 |
| 77413 A | 13 | 300 | 200 | 346 | 10 |
| 77414 A | 14 | 300 | 200 | 422 | 10 |
| 77415 A | 15 | 300 | 200 | 480 | 10 |
| 77416 A | 16 | 300 | 200 | 510 | 10 |
| 77417 A | 17 | 300 | 200 | 542 | 10 |
| 77418 A | 18 | 300 | 200 | 600 | 10 |
| 77419 A | 19 | 300 | 200 | 620 | 5 |
| 77420 A | 20 | 300 | 200 | 650 | 5 |
| 77421 A | 21 | 300 | 200 | 715 | 5 |
| 77422 A | 22 | 300 | 200 | 715 | 5 |
| 77424 A NEW | 24 | 300 | 200 | 702 | 5 |
| 7741.4A | 1/4" | 300 | 200 | 220 | 10 |
| 7745.16 A | 5/16" | 300 | 200 | 279 | 10 |
| 7743.8A | 3/8" | 300 | 200 | 294 | 10 |
| 7747.16 A | 7/16" | 300 | 200 | 318 | 10 |
| 7741.2A | 1/2" | 300 | 200 | 342 | 10 |
| 7749.16 A | 9/16" | 300 | 200 | 422 | 10 |
| 7745.8A | 5/8" | 300 | 200 | 510 | 10 |
| 7743.4A | 3/4" | 300 | 200 | 620 | 5 |

Hex nut driver adjustable T handle

774..B



| Part no. |  Tip | <i>l</i> blade | <i>l</i> over |  g |  pc/box |
|----------|---|----------------|---------------|---|--|
| 77407B | 7 | 220 | 200 | 190 | 10 |
| 77408B | 8 | 240 | 200 | 195 | 10 |
| 77410B | 10 | 260 | 200 | 265 | 10 |
| 77412B | 12 | 260 | 200 | 380 | 10 |
| 77413B | 13 | 260 | 200 | 380 | 10 |
| 77414B | 14 | 260 | 200 | 385 | 10 |
| 77417B | 17 | 290 | 250 | 500 | 5 |
| 77422B | 22 | 315 | 250 | 715 | 5 |



■ Tire lever

750



| Part no. |  Packing | <i>l</i> Length |  g |
|--------------------|---|-----------------|---|
| 750200 | 100/14.6/15.60.56' | 200 | 162 |
| 750300 | 120/31.6/32.6/0.6' | 300 | 370 |
| 750380 | 60/22.9/23.9/0.5' | 380 | 556 |
| 750380B NEW | 60/22.9/23.9/1.2' | 380 | 560 |

■ 12pc 3/8"DR. Impact socket set

3126



| Part no. | Content: |
|--------------------|--|
| 82431 | 1-Impact wrench |
| 8043 075...150 MPB | 2-Impact extension 75, 150 mm |
| 80531MPB | 1- Universal joint (ball type) |
| 80934MPB | 1-Adaptor 3/8"(F)x1/2"(M)(ball type) |
| 435 8...19 | 7-6pt. Flank impact socket 8, 10, 12, 13, 14, 17, 19 mm |

 6/15.6/16.6/1.54'  2600g

3-Drawer chest with 97pcs tools(Motorcycle)

50223S-97



 1/19.87/20.87/2.2'



14pc Utility set

| Part no. | Content: |
|---------------|--|
| 6044190 | 1-Pin punch 4mm (190mmL) |
| 6046210 | 1-Safe pin punch 6(210mm) |
| 610B160 | 1-Long nose pliers |
| 611B200 | 1-Combination pliers 8" |
| 612B160 | 1-Diagonal pliers 6" |
| 616200 | 1-Engineer hammer 200gw |
| 61702 | 1-Flexible magnet pick-up tool |
| 618 | 1-20pcs Feeler gauge set |
| 6983 | 1-Technician's scissors 145mmL |
| 750 300...380 | 2-Tyre lever 300mmL; 380mmL |
| 88001 | 1-Round magnetic tray |
| 88423 | 1-Car light tester Checks 6-24V system |
| 9U3001 | 1-Brass & Nylon scrape brushes |





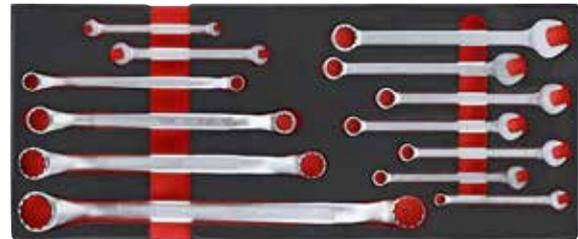
60pc Combination set

| Part no. | Content: |
|----------------------|---|
| 535 08...24 | 1/4" & 3/8" DR. 16-6pt. Flank socket (MM) 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24 mm |
| 53546 08...14 | 5-6pt. Flank socket (MM) 8; 10; 12; 13; 14 mm |
| 12125 0...3 | 4-Phillips bit PH.0; PH.1; PH.2; PH.3 |
| 12225 0...3 | 4-Pozidriv bit PZ.0; PZ.1; PZ.2; PZ.3 |
| 12425 03...08 | 6-Hex bit 3; 4; 5; 6; 7; 8 mm |
| 5071 | 7-Star key |
| 766 10...40 | T10; T15; T20; T25; T27; T30; T40 |
| 5072 | 7-Hex key |
| 764 025...10 | 2.5; 3; 4; 5; 6; 8; 10 mm |
| 8013215 | 1-Swivel handle |
| 802214 | 1-Mini bit ratchet |
| 80233 | 1-Ratchet handle 24th |
| 8033165 | 1-Sliding T bar |
| 8043044...150 | 3-Extension 44mm(1.75") & 75mm(3") & 150mm(6") |
| 80531 | 1-Universal joint |
| 8073 16M... 20.6M | 2-Mag. Spark plug socket 16 & 20.6 mm |
| 81022M | 1-Magnetic bit holder 1/4"(F)x1/4" inhex |



10pc Waterpump pliers & Screwdriver set

| Part no. | Content: |
|---------------|--|
| 613B250 | 1-Waterpump pliers 10" |
| 711 1B...3B | 3-Phillips screwdriver PH.1x80mmL; PH.2x100mmL; PH. 3x150mmL |
| 7112BS | 1-Stubby Phillips screwdriver PH.2x25mmL |
| 713 04B...08B | 4-Slotted screwdriver 4mmx100mmL; 5.5mmx125mmL; 6.5mmx150mmL; 8mmx175mmL |
| 713065BS | 1-Stubby slotted screwdriver 6.5mmx25mmL |

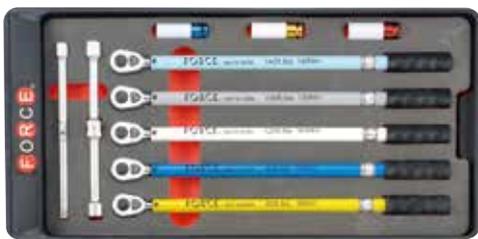


13pc wrench set

| Part no. | Content: |
|-----------------|---|
| 754 0607...0810 | 2-Double open end wrench 6x7; 8x10 mm |
| 755 08...17 | 7-Combination wrench 8; 10; 11; 12; 13; 14; 17 mm |
| 758 1012...2427 | 4-45° Offset ring wrench 10x12; 14x17; 19x22; 24x27 mm |

9pc Wheel specialized torque tool set

64707



Content: 1/2" DR.

6474 088N...190N 5- Torque wrench

88; 108; 135; 163; 190 Nm

44585 17C...21C

3-Wheel nut 6pt. flank impact socket (85mmL)

17; 19; 21 mm

681A300

1-Assembly wheel nut wrench

17; 19; 13/16"; 1/2"DR. (300mmL)

 1/12.4/13.4/0.85'

 12.4kg

3/8" DR. Preset torques wrench

647...P



| Part no. | Capacity | <i>l</i> mm |  |
|----------|----------|----------------|---|
| | Nm | | g |
| 647318P | 18 | 245 | 1500 |
| 647324P | 24 | 245 | 1500 |

11pc Torque wrench set

64701L



Content: 3/8" DR.

6473380 1- 3/8"DR. Lock torque wrench

535 10...21

6- 3/8"DR. 6pt. Flank socket

10; 12; 14; 17; 19; 21mm

334050 04...08

4- 3/8"DR. Hex socket bit

4; 5; 6; 8mm (50mmL)

 12/20.4/21.4/0.85'

 1.7kg

11pc Torque wrench set

64702L



Content: 1/2" DR.

6474535 1- 1/2"DR. Lock torque wrench

545 17...27

6- 1/2"DR. 6pt. Flank socket

17; 19; 21; 22; 24; 27 mm

344055 06...12

4- 1/2"DR. Hex socket bit

6; 8; 10; 12 mm (55mmL)

 6/18.1/19.1/1'

 3016g



■ Tone control torques wrench

647



| Part no. | Capacity Nm |  Packing | <i>l</i> mm |  g |
|-----------|-------------------|---|----------------|--|
| 6472270 | 1/4"DR. 5-25 | 20/15.4/16.4/1.19' | 270 | 770 |
| 6473270 | 3/8"DR. 5-25 | 20/15.5/16.5/1.19' | 270 | 775 |
| 6473365 | 19-110 | 20/21.5/22.5/1.46' | 365 | 1075 |
| 6474470 | 1/2"DR. 42-210 | 12/19.8/20.8/1.1' | 470 | 1650 |
| 6474630 | 70-350 | 10/28.7/29.7/1.4' | 630 | 2870 |
| 6476850 | 3/4"DR. 65-450 | 4/18.1/19.1/1.7' | 850 | 4525 |
| 64761030 | 140-700 | 4/30.3/31.3/1.67' | 1030 | 7575 |
| 64761215 | 140-980 | 2/16.2/17.2/1.13' | 1215 | 8100 |
| 64781215 | 1"DR. 140-980 | 2/16.3/17.3/1.13' | 1215 | 8150 |
| Part no. | Inch-lb | Packing | mm | g |
| 6472270S | 1/4"DR. 20-200 | 20/14.4/15.4/1.14' | 270 | 720 |
| 6473270S | 3/8"DR. 20-200 | 20/14.8/15.8/1.14' | 270 | 740 |
| Part no. | Ft-lb | Packing | mm | g |
| 6473365S | 3/8"DR. 5-80 | 20/21.0/22.0/1.14' | 365 | 1050 |
| 6474470S | 1/2"DR. 10-150 | 12/20.2/21.2/1.1' | 470 | 1685 |
| 6474630S | 25-250 | 4/11.2/12.2/0.92' | 630 | 2800 |
| 6476850S | 3/4"DR. 50-300 | 4/19.0/20.0/1.7' | 850 | 4750 |
| 64761030S | 100-600 | 4/30.0/31.0/1.67' | 1030 | 7500 |
| 64761215S | 100-700 | 2/15.0/16.0/0.8' | 1215 | 7500 |
| 64781215S | 1"DR. 100-700 | 2/15.0/16.0/0.8' | 1215 | 7500 |

• Spare part available 

PULLER/
TORQUE WRENCH

Lock torques wrench (tone control)

647



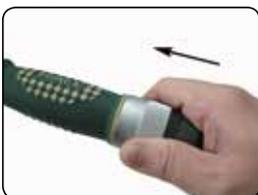
Unlock



Adjust



Lock



| Part no. | Capacity | Packing | l mm | g |
|-----------|--------------------|--------------------|---------|-------|
| | Nm | | | |
| 6472295 | 1/4"DR. 6-30 | 20/19.0/20.0/1.12' | 295 | 950 |
| 6473295 | 3/8"DR. 6-30 | 20/18.1/19.1/1.12' | 295 | 905 |
| 6473380 | 20-110 | 12/13.7/14.7/1.57' | 380 | 1140 |
| 6474380 | 1/2"DR. 20-110 | 12/15/16/1.3' | 380 | 1250 |
| 6474535 | 40-210 | 10/21.0/22.0/1.31' | 535 | 2100 |
| 6474660 | 70-350 | 6/17.9/18.9/0.92' | 660 | 2980 |
| 6476880 | 3/4"DR. 100-500 | 4/18.7/19.7/1.07' | 880 | 4675 |
| 64761095 | 140-700 | 4/31.0/32.0/1.93' | 1095 | 7750 |
| 64761240 | 140-980 | 4/30.3/31.1/1.93' | 1240 | 7575 |
| 64781240 | 1"DR. 140-980 | 2/16.2/17/1.13' | 1240 | 8100 |
| 64781700 | 300-1500 | 1/12.0/13.0/0.9' | 1700 | 11580 |
| Part no. | Inch-lb | Packing | mm | g |
| 6472295S | 1/4"DR. 40-250 | 20/17.2/18.2/1.63' | 295 | 860 |
| 6473295S | 3/8"DR. 40-250 | 20/17.2/18.2/1.63' | 295 | 860 |
| Part no. | Ft-lb | Packing | mm | g |
| 6473380S | 3/8"DR. 15-80 | 8/9.1/10.1/0.76' | 380 | 1140 |
| 6474535S | 1/2"DR. 30-150 | 6/12.6/13.6/1.31' | 535 | 2100 |
| 6474660S | 50-250 | 6/17.7/18.7/0.92' | 660 | 2950 |
| 6476880S | 3/4"DR. 50-300 | 5/23.7/24.7/1.7' | 880 | 4740 |
| 64761095S | 100-600 | 4/30.0/31.0/1.8' | 1095 | 7500 |
| 64761240S | 100-700 | 2/16.0/17.0/1' | 1240 | 8000 |
| 64781240S | 1"DR. 100-700 | 2/16.0/17.0/1' | 1240 | 8000 |
| 64781700S | 200-1000 | 1/12.0/13.0/0.9' | 1700 | 11580 |

• Spare part available



Lock torques wrench (tone control)

647



Unlock



Adjust



Lock



| Part no. | Capacity Nm |  Packing | <i>l</i> mm |  g |
|-----------|----------------|--|----------------|--|
| | 3/8" DR. | | | |
| 6473383 | 15-80 | 12/12.5/13.1/0.76' | 383 | 740 |
| 6473385 | 20-110 | 12/14.0/15.0/0.76' | 383 | 960 |
| | 1/2" DR. | | | |
| 6474536 | 40-210 | 10/20.6/21.2/1.3' | 535 | 1070 |
| 6474645 | 70-350 | 6/18.4/19.0/0.92' | 645 | 2540 |
| | 3/4" DR. | | | |
| 6476865 | 100-500 | 4/19.5/20.5/1.1' | 865 | 3660 |
| 64761088 | 140-700 | 4/30.0/31.0/1.9' | 1088 | 5940 |
| 64761230 | 140-980 | 2/16.0/17.0/1.1' | 1230 | 6460 |
| | 1" DR. | | | |
| 64781230 | 140-980 | 2/16.0/17.0/1.1' | 1230 | 6460 |
| Part no. | Ft-lb | Packing | mm | g |
| | 3/8" DR. | | | |
| 6473383S | 10-60 | 12/12.5/13.1/0.76' | 383 | 740 |
| 6473385S | 15-80 | 12/14.0/15.0/0.76' | 383 | 960 |
| | 1/2" DR. | | | |
| 6474536S | 30-150 | 10/20.6/21.2/1.3' | 535 | 1070 |
| 6474645S | 50-250 | 6/18.4/19.0/0.92' | 645 | 2540 |
| | 3/4" DR. | | | |
| 6476865S | 50-300 | 4/19.5/20.5/1.1' | 865 | 3660 |
| 64761088S | 100-600 | 4/30.0/31.0/1.9' | 1088 | 5940 |
| 64761230S | 100-700 | 2/16.0/17.0/1.1' | 1230 | 6460 |
| | 1" DR. | | | |
| 64781230S | 100-700 | 2/16.0/17.0/1.1' | 1230 | 6460 |

• Spare part available



Clock wise click
for right thread nut



Anti-clock wise click
for left thread nut

Lock torque wrench - window display (tone control)

647...W



| Part no. | Capacity | Packing | <i>l</i> mm | g |
|----------|------------------------------------|--------------------|----------------|-------|
| 6472300W | 1/4"DR. 6-30Nm 40-250in-lb | 20/16.0/17.0/1.63' | 300 | 800 |
| 6473420W | 3/8"DR. 20-100Nm 15-75ft-lb | 12/16.8/17.8/1.57' | 420 | 1400 |
| 6474530W | 1/2"DR. 40-200Nm 30-150ft-lb | 10/16.0/17.0/1.31' | 530 | 1600 |

• Spare part available



Lock torque wrench - window display

647...W



| Part no. | Capacity | <i>l</i> mm | g |
|----------------------|---------------------|----------------|-------|
| | Nm | | |
| 6472290W | 1/4" DR. 1-25 | 290 | 420 |
| 6473360W | 3/8" DR. 5~50 | 360 | 920 |
| 6474405W | 1/2" DR. 10-100 | 405 | 1020 |
| 6474500W | 20-200 | 500 | 1200 |
| 6474595W | 60-300 | 595 | 1330 |
| 6474680W | 80-400 | 680 | 1820 |
| 6476970W | 3/4" DR. 100-550 | 970 | 3700 |
| 64761150W NEW | 150-750 | 1150 | 5600 |
| 64781250W NEW | 1" DR. 200-1000 | 1250 | 7200 |

• Spare part available



Double click torque wrench

647A



| Part no. | Capacity | <i>l</i> mm | kg |
|-----------|---------------|----------------|--------|
| | 3/4"DR. | | |
| 647A602 | 300-1500Nm | 1720 | 12 |
| 647A602S | 200-1000Ft-lb | 1720 | 12 |
| | 1"DR. | | |
| 647A802 | 300-1500Nm | 1720 | 12 |
| 647A802S | 200-1000Ft-lb | 1720 | 12 |
| | 1" DR. | | |
| 647A803 | 400-2000Nm | 2176 | 13 |
| 647A803S | 300-1500Ft-lb | 2176 | 13 |
| | 1-1/2"DR. | | |
| 647A1201 | 600-3000Nm | 2780 | 15 |
| 647A1201S | 400-2000Ft-lb | 2780 | 15 |



• Spare part available



Lock torques wrench-window display (tone control)

6472195W



- **6472195W** : 1/4"DR. 3-15Nm (195mm)
- Nm in display only.

Interchangeable torque handle (Adjustable torque)

647B



| Part no. | mm | Torque Nm | <i>l</i> mm | g |
|-----------|---------|--------------|----------------|-------|
| 647B005D | 9x12 | 1-5Nm | 195 | 340 |
| 647B030D | 9x12 | 6-30Nm | 220 | 420 |
| 647B110D | 9x12 | 20-110Nm | 220 | 970 |
| 647B210D | 14x18 | 40-210Nm | 460 | 1160 |
| 647B350D | 14x18 | 70-350Nm | 525 | 1310 |
| 647B450D | 14x18 | 75-450Nm | 775 | 2220 |
| Part no. | mm | Torque Nm | <i>l</i> mm | g |
| 647B800D | 20x28.5 | 100-800Nm | 960 | 5750 |
| 647B1500D | 20x28.5 | 300-1500Nm | 1786 | 8200 |

■ 1/4"DR. torque driver

6472160



NEW

| Part no. | Capacity | packing | g |
|----------|----------|-------------------|-----|
| | Nm | | |
| 64721602 | 0.4-2 | 100/18/18.8/1.02' | 130 |
| 64721605 | 1-5 | 30/11.7/12.3/1' | 280 |
| 64721608 | 2-8 | 30/13.21/13.81/1' | 280 |
| 64721610 | 2-10 | 30/14.1/14.7/1' | 300 |

■ 8pc Head-interchangeable torque wrench & spanner set

64709



- **647B210** :40~210Nm Torque wrench (14×18)
- Ø 43, 60, 72, 50, 63.2, 82, 32 mm

 4/15.7/16.7/0.78'  3925g

■ 10pc Head-interchangeable torque wrench & spanner set

64710



- **647B030** :6~30 Nm Torque wrench
- **647H209** :1/4" DR. 9 X 12 Ratchet head
- 9 X 12 Spanner head: 7, 8, 9, 10, 11, 12, 13, 14mm

 10/15.2/15.8/1.29'  1.52kg

■ 12pc Head-interchangeable torque wrench & spanner set

64711



- **647B110** :20~110 Nm Torque wrench
- **647H309** :3/8" DR. 9 X 12 Ratchet head
- 9 X 12 Spanner head: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm
- **647A201** :1-1/2" DR. 600~3000Nm, L:2180, 15kg
- **647A201S** :1-1/2" DR. 400~2000Nm, L:2180, 15kg

 10/21.6/22.4/1.68'  2.16kg



11pc Head-interchangeable torque wrench & spanner set

64712



- **647B015** :3~15 Nm Torque wrench
- **647H209** :1/4" DR. 9 X 12 Ratchet head
- 9 X 12 Spanner head: 5.1mm, 5.8mm, 6.1mm, 6.3mm, 6.4mm, 6.5mm, 6.7mm, 6.9mm; 6 PT. Spline

 30/23.0/24.0/0.74'  765g

10pc Head-interchangeable torque wrench & spanner set

64713



- **647B030W** :6~30 Nm Torque wrench
- **647H309A** :3/8" DR. 9 X 12 Ratchet head
- 9 X 12 Spanner head: 7, 8, 9, 10, 11, 12, 13, 14mm

 10/15.2/16.2/1.29'  1.52kg

12pc Head-interchangeable torque wrench & spanner set

64714



- **647B060W** :10~60 Nm Torque wrench
- **647H409** :1/2" DR. 9 X 12 Ratchet head
- 9 X 12 Spanner head: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

 10/18.1/18.7/1.68'  1.81kg

12pc Head-interchangeable torque wrench & spanner set

64715



- **647B100W** :20~100 Nm Torque wrench
- **647H409** :1/2" DR. 9 X 12 Ratchet head
- 9 X 12 Spanner head: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

 10/21.6/22.4/1.68'  2.16kg

8pc Head-interchangeable torque wrench & spanner set

64704



Contents:

- 647B080 1- 15~80Nm Torque wrench(14mm x 18mm)
- 647H414A 1- 1/2"DR. Ratchet head (24 teeth)
14mm x 18mm small, width 36mm
- 68514 17...29 6- Spanner head (14mm x 18mm)
17; 22; 24; 26; 27; 29 mm

6/19.5/20.5/1.2' 3250g

11pc Head-interchangeable torque wrench & spanner set

64705



Contents:

- 647B210 1- 40~210Nm Torque wrench(14mm x 18mm)
- 647H414 1- 1/2"DR. Ratchet head (24 teeth)(14mm x 18mm)
- 68514 13...30 9- Spanner head (14mm x 18mm)
13; 14; 15; 17; 19; 22; 24; 27; 30 mm

4/17.7/18.7/0.96' 4425g

Torque handle fittings

647H

24 Teeth Ratchet head (9 X 12 mm)



| Part No. | DR. |
|----------|--------------------------|
| 647H209 | 1/4" |
| 647H309 | 3/8" |
| 647H309A | 3/8" (small, width 27mm) |
| 647H409 | 1/2" |

647H...-72

72 Teeth round ratchet head (9 X 12 mm)



| Part No. | DR. |
|------------|------|
| 647H209-72 | 1/4" |
| 647H309-72 | 3/8" |
| 647H409-72 | 1/2" |



Torque handle fittings

68509

Open end wrench head (9x 12mm)



| Part No. | Size (mm) |
|----------|-----------|
| 6850907 | 7 |
| 6850908 | 8 |
| 6850909 | 9 |
| 6850910 | 10 |
| 6850911 | 11 |
| 6850912 | 12 |
| 6850913 | 13 |
| 6850914 | 14 |
| 6850915 | 15 |
| 6850916 | 16 |
| 6850917 | 17 |
| 6850918 | 18 |
| 6850919 | 19 |

685A09

Box end wrench head (9 X 12 mm)



| Part No. | DR. |
|----------|-----|
| 685A0907 | 7 |
| 685A0908 | 8 |
| 685A0910 | 10 |
| 685A0911 | 11 |
| 685A0912 | 12 |
| 685A0913 | 13 |
| 685A0914 | 14 |
| 685A0915 | 15 |
| 685A0916 | 16 |
| 685A0917 | 17 |
| 685A0918 | 18 |
| 685A0919 | 19 |
| 685A0921 | 21 |
| 685A0922 | 22 |

685B09

Flare nut wrench head (9 X 12 mm)



| Part No. | DR. |
|----------|-----|
| 685B0910 | 10 |
| 685B0911 | 11 |
| 685B0912 | 12 |
| 685B0913 | 13 |
| 685B0914 | 14 |
| 685B0916 | 16 |
| 685B0917 | 17 |
| 685B0918 | 18 |
| 685B0919 | 19 |
| 685B0921 | 21 |
| 685B0922 | 22 |

Torque handle fittings

647H

24 Teeth Ratchet head (14 X 18 mm)



| Part No. | DR. |
|----------|---------------------------|
| 647H314 | 3/8" |
| 647H414 | 1/2" |
| 647H414A | 1/2" (small, width 36 mm) |

647H414-72

72 Teeth round ratchet head (14 X 18 mm)



| Part No. | DR. |
|------------|------|
| 647H414-72 | 1/2" |
| 647H314-72 | 3/8" |

68514

Open end wrench head (14 X 18 mm)



| Part No. | Size (mm) | Part No. | Size (mm) |
|----------|-----------|----------|-----------|
| 6851413 | 13 | 6851429 | 29 |
| 6851414 | 14 | 6851430 | 30 |
| 6851415 | 15 | 6851432 | 32 |
| 6851416 | 16 | 6851434 | 34 |
| 6851417 | 17 | 6851436 | 36 |
| 6851418 | 18 | 6851438 | 38 |
| 6851419 | 19 | 6851440 | 40 |
| 6851421 | 21 | 6851441 | 41 |
| 6851422 | 22 | 6851442 | 42 |
| 6851424 | 24 | 6851444 | 44 |
| 6851426 | 26 | 6851446 | 46 |
| 6851427 | 27 | | |



Torque handle fittings

685A14

Box end wrench head (14 X 18 mm)



| Part No. | Size (mm) | Part No. | Size (mm) |
|----------|-----------|----------|-----------|
| 685A1413 | 13 | 685A1427 | 27 |
| 685A1414 | 14 | 685A1429 | 29 |
| 685A1415 | 15 | 685A1430 | 30 |
| 685A1416 | 16 | 685A1432 | 32 |
| 685A1417 | 17 | 685A1434 | 34 |
| 685A1418 | 18 | 685A1436 | 36 |
| 685A1419 | 19 | 685A1438 | 38 |
| 685A1421 | 21 | 685A1440 | 40 |
| 685A1422 | 22 | 685A1441 | 41 |
| 685A1424 | 24 | 685A1442 | 42 |
| 685A1426 | 26 | 685A1444 | 44 |
| | | 685A1446 | 46 |

685C14

Single hook spanner head (14 X 18 mm)



| Part No. | Size (mm) |
|----------|----------------------|
| 685C1443 | 43±5mm |
| 685C1460 | 60±5mm |
| 685C1472 | 72±5mm |
| 685C1450 | 50±5mm |
| 685C1463 | 63.2±5mm |
| 685C1482 | 82±5mm |
| 685C1432 | 32±5mm (strong type) |

685D14

Double hook spanner head (14 X 18 mm)



| Part No. | Size (mm) |
|----------|-----------|
| 685D1432 | 31.6±5mm |
| 685D1435 | 34.9±5mm |
| 685D1442 | 41.9±5mm |
| 685D1450 | 50±5mm |
| 685D1463 | 62.9±5mm |

■ **Open end wrench head (20 x 28.5 mm)**

68520



| Part No. | Size (mm) |
|----------|-----------|
| 6852050 | 50 |
| 6852055 | 55 |
| 6852060 | 60 |
| 6852065 | 65 |

■ **Box end wrench head (20 x 28.5 mm)**

685A20



| Part No. | Size (mm) |
|----------|-----------|
| 685A2050 | 50 |
| 685A2055 | 55 |
| 685A2060 | 60 |
| 685A2065 | 65 |

■ **2pc Torque driver set**

64703 / 64703A



Content: 1/4" DR.

64721605 1- 1/4"DR. Torque driver (1-5Nm)

81022 1- Bit holder 1/4"(F)x1/4" inhex



64703A Changed item

64721608 1-Torque driver (2-8Nm)

 40/15.7/16.7/0.5'  393g



47pc Torque driver set

K64706 / K64706S

Content: 1/4"DR.



| | |
|----------------|---|
| 64721605 | 1- Torque driver (1~5Nm) |
| 81022 | 1- Bit holder 1/4"(F)x1/4"inhex |
| 8042100 | 1- Extension 4" |
| 12125 0...3 | 4- Phillips bit (25mmL) PH.0; PH.1; PH.2; PH.3 |
| 12223 0...3 | 4- Pozidriv bit (25mmL) PZ.0; PZ.1; PZ.2; PZ.3 |
| 12325 03...065 | 5- Slotted bit 3; 4; 5; 5.5; 6.5 mm |
| 12425 015...06 | 6- Hex bit 1.5; 2; 3; 4; 5; 6 mm |
| 124R25 1...3 | 3- Square bit 1; 2; 3 mm |
| 12625 06...40 | 11- Star bit T6; T7; T8; T9; T10; T15; T20; T25; T27; T30; T40 |
| 12725 06...40 | 11- Star tamperproof bit T-6H; T-7H; T-8H; T-9H; T-10H; T-15H; T-20H; T-25H; T-27H; T-30H; T-40H |

K64706S Changed item

| | |
|----------|----------------------------------|
| 6472150S | 1- Torque driver (10~50 Inch-lb) |
|----------|----------------------------------|

 24/21.7/22.7/1.5'

 905g

49 pc Torque driver set

K64708



Contents: 1/4"DR.

| | |
|----------------|--|
| 64721605 | 1-Torque driver 1/4"inhex(1~5Nm) |
| 8092225 | 1-Bit adaptor 1/4"Hex-1/4"Sq |
| 81260 | 1-Magnetic inhex extension 60mmL |
| 12125 0...3 | 4-Phillips bit (25mmL) PH.0; PH.1; PH.2; PH.3 |
| 12225 0...3 | 4-Pozidriv bit (25mmL) PZ.0; PZ.1; PZ.2; PZ.3 |
| 12225 03...065 | 5-Slotted bit 3; 4; 5.5; 6.5 mm |
| 12425 015...06 | 6-Hex bit 1.5; 2; 3; 4; 5; 6 mm |
| 124R25 1...3 | 3-Square bit 1; 2; 3 mm |
| 12625 04...40 | 13-Star bit T4; T5; T6; T7; T8; T9; T10 T15; T20; T25; T27; T30; T40 |
| 12725 06...40 | 13-Star tamperproof bit T-6H; T-7H; T-8H; T-9H; T-10H; T-15H T-20H; T-25H; T-27H; T-30H; T-40H |

 24/16.4/17.4/1.5'

 684g

Torque multiplier set

65111L



Contents:

- 65111 2-Torque multiplier head & 380mm reaction bar
1/2"(F)x3/4"(M) Max Output 1500 Nm
- 65111L-1 1-90° Reaction bar
- 65111L-2 1-90° Reaction Base
- 65111L-3 2-Break-Away adapter

- Always apply the break-away adapter in order to protect the torque multiplier from damage.
- The break-away adapter is expendable.

 3/10.5/11.5/1.2'  3500g

Torque multiplier set

65112L



Contents:

- 65112 2-Torque multiplier head & 380mm reaction bar
1/2"(F)x1"(M) Max Output 2000 Nm
- 65112L-1 1-90° Reaction bar
- 65112L-2 1-90° Reaction Base
- 65112L-3 2-Break-Away adapter

- Always apply the break-away adapter in order to protect the torque multiplier from damage.
- The break-away adapter is expendable.

 3/10.5/11.5/1.2'  3500g

Torque multiplier set

65113L



Contents:

- 65113 2-Torque multiplier head & 380mm reaction bar
3/4"(F)x1"(M) Max Output 2500 Nm
- 65113L-1 1-90° Reaction bar
- 65113L-2 1-90° Reaction Base
- 65113L-3 2-Break Away adapter

 3/10.5/11.5/1.2'  3500g



■ Mechanical torque multipliers

651



65101 / 65102



65101L / 65102L

| | Max. Output | Square Drive | Ratio |
|----------|-------------|---|---|
| Part no. | Nm / Ft-lb | size | |
| 65101 | 1500/1100 | 1/2" to 3/4" | 1:3 |
| 65102 | 3000/2200 | 3/4" to 1" | 1:3 |
| | Max. Input |  |  |
| Part no. | Nm / Ft-lb | Packing | g |
| 65101 | 500/365 | 4/14.4/15.4/0.75' | 3600 |
| 65102 | 1000/730 | 4/19.4/20.4/1' | 4850 |

- Spare part available
- Impact use is prohibited
- **65101L / 65102L**: Supplied with the reaction bar styles for maximum versatility.

■ Torque multiplier

65103 / 65104



| Part no. | Drive | Ratio | Max Input | Max Output |  |
|----------|-----------------|-------|------------|------------|---|
| | | | Nm / Ft-lb | Nm / Ft-lb | g |
| 65103 | 1/2"(F)x3/4"(M) | 1:10 | 150/110 | 1500/1100 | 3400 |
| 65104 | 1/2"(F)x1"(M) | 1:10 | 400/290 | 4000/2900 | 8900 |

- Impact use is prohibited

■ Mechanical Torque Multipliers

651



| Part no. | Drive | Torque Ratio | Max. input | Max. output |  |
|----------|-----------------|--------------|------------|-------------|---|
| 65106 | 1/2"(F)x3/4"(M) | 1:5 | 260Nm | 1300Nm | 8.8kg |
| 65107 | 3/4"(F)x1"(M) | 1:5 | 540Nm | 2700Nm | 8.7kg |

- *Material: SCM440 (4140)
- *Finish: Manganese phosphate

Open ended pre-set torque wrench

647C



| Part no. | Spanner size | Torque | <i>l</i> | ⚖ |
|----------|--------------|--------|----------|-----|
| | mm | Nm | mm | g |
| 647C1817 | 17 | 18 | 220 | 410 |
| 647C4222 | 22 | 42 | 230 | 450 |
| 647C5526 | 26 | 55 | 290 | 600 |
| 647C6529 | 29 | 65 | 295 | 620 |

Pipe torque wrench

647P...



| Part no. | Torque | <i>l</i> | ⚖ |
|----------|---------|----------|-----|
| | Nm | mm | kg |
| 647P210 | 40-210 | 590 | 3 |
| 647P350 | 70-350 | 825 | 3.7 |
| 647P500 | 100-500 | 920 | 4.3 |

*Accuracy: +/-6%

Hydraulic bearing separator puller set

66601



Contents:

- 1pc Hydraulic ram (SCM415 Diameter 37.7mm x 160mmL x 16t)
- 1set Bearing separator & bolts, SCM415, capacity 75-105mm
- 2pc Main rod (8"x1.75p)
- 2pc Extension rod (8"x1.75p)
- 1pc Beam

2/15.2/16.2/0.53' ⚖ 7.6kg

Pressure screw separator puller set

66602



Contents:

- 1pc Central bolt
- 1set Bearing separator & bolts, SCM415, capacity 75-105mm
- 2pc Main rod (8"x1.75p)
- 2pc Extension rod (8"x1.75p)
- 1pc Beam
- 1pc Nut

2/17.3/18.3/1' ⚖ 8650g



Two sets bearing separator kit

66610



- 2 sets Bearing separator & bolts (SCM415 Drop forged HRC 42-45)
Capacity: 30-50mm
Capacity: 50-75mm
- 4pc Main/Extension rod (Hex bar 17mm x 127mmL x 3/8" - 16T)
- 4pc Main/Extension rod (Hex bar 14mm x 102mmL x 3/8" - 16T)
- 1pc Beam (S45C)
- 1pc Forcing screw (Φ9/16" - 10T/inch x 175mmL S45C)
- Packing: Blow mold case



 5/23.0/24.0/1.8'  4.6kg

Pressure screw separator puller set

66612



- 1 set Bearing separator & bolts (SCM415 Drop forged HRC 42-45) Capacity: 75-105mm
- 2pc Main rod (Hex bar 19mm x 8"L x Φ15.24mm - 1.75P)
- 2pc Extension rod (Hex bar 19mm x 8"L x Φ15.24mm - 1.75P)
- 1pc Beam (S45C)
- 1pc Forcing screw (Φ18.65 - 10T/inch x 292mmL S45C)
- 1pc Central nut
- Packing: Metal case



 2/18.0/19.0/0.5'  9kg

Hydraulic bearing separator puller set

66613



- 1pc Hydraulic ram (SCM420 Φ37.7mm)
- 1 set Bearing separator & bolts (SCM415 Drop forged HRC 42-45)
Capacity: 105-150mm
- 2pc Main rod (Hex bar 21mm x 10"L x Φ5/8" - 11 NC)
- 2pc Extension rod (Hex bar 21mm x 10"L x Φ5/8" - 11 NC)
- 1pc Beam (Ductile)
- 1pc Adaptor (Carbon steel)
- Packing: Metal case



 2/24.0/25.0/0.8'  12kg

Mini bearing separator assembly

66614



Bearing separator inside:

- Capacity 3/8"- 1 1/4" (10mm to 30mm)
- Bolt (6.3mm x 83mmL x 1/4" x 20UNC)
- Body thread 3/8" x 20UNC



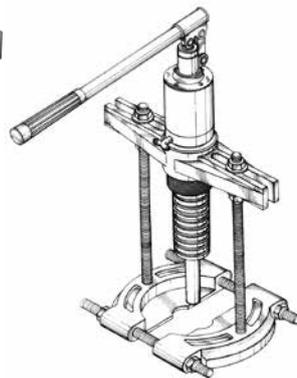
Pull out the bearing with the H-type beam and bolts.

4/30.0/31.0/1'

7.5kg

Hydraulic bearing separator puller set

666



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke | kg |
|----------|----------|-----------|------------|--------|----|
| 66605 | 6 tons | 300/190 | 235/90 | 82 | 16 |
| 66606 | 8 tons | 300/245 | 235/90 | 82 | 17 |
| 66607 | 10 tons | 300/190 | 235/90 | 82 | 16 |
| 66608 | 12 tons | 300/245 | 235/90 | 82 | 17 |

Bearing separator

666



| Item No. | Capacity | Bolt | Hole |
|----------|-------------------------------|-----------------------------------|----------------------|
| 666050 | 1-1/4" to 2-1/4" (30-50mm) | 9.5 mm x 125 mmL x 3/8" x 24t | 8.2 mm x 3/8" x 24t |
| 666075 | 2-1/4" to 3-1/2" (50-70mm) | 12.7m m x 135 mmL x 1/2" x 20t | 8.2 mm x 3/8" x 24t |
| 666105 | 3" to 4-1/2" (75-105m m) | 16m m x 165 mmL x 5/8" x 18t | 11.2m m x 1/2" x 12t |
| 666150 | 4" to 6" (105-150mm) | 19m m x 260 mmL x 3/4" x 16t | 8.2 mm x 3/8" x 16t |
| 666225 | 35-225 | 20m m x 255 mmL | 5/8" x 11P |
| 666300 | 35-300 | 26m m x 355 mmL | 3/4" x 10P |



■ Bearing Separator

666140



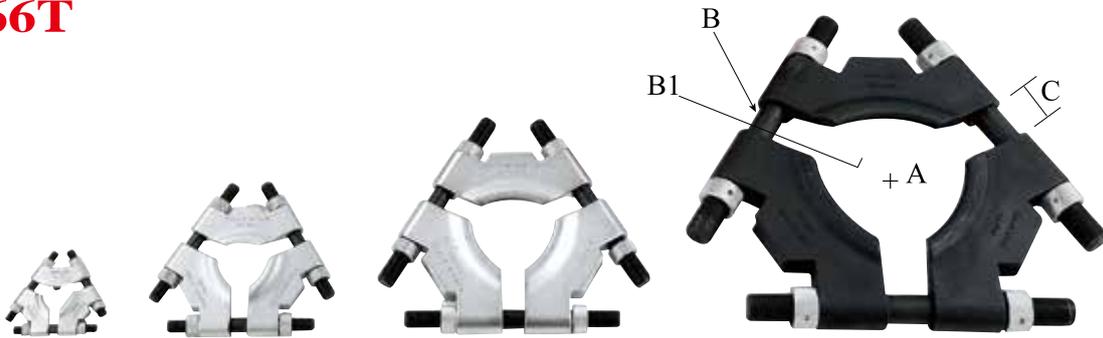
• Capacity 1.5" to 6" (35-140mm)

4/30.0/31.0/1'

7.5Kg

■ K3 Series

666T



| Item No. | A | B | B1 | C | Weight (kg) |
|----------|-----|-----|-----|-----|-------------|
| 666T050 | 50 | 90 | 70 | 32 | 0.43 |
| 666T100 | 100 | 172 | 139 | 64 | 2.27 |
| 666T160 | 160 | 250 | 205 | 95 | 6.07 |
| 666T260 | 260 | 400 | 335 | 146 | 19.40 |
| 666T380 | 380 | 542 | 457 | 206 | 48.21 |

■ Locking jaw puller set

664P



With several pulling attachments to give the user various methods for pulling, maintenance and repair applications.

Contents:

- 9pc Adjustable reversible jaw
- 1pc Forcing screw
- 1pc Two-way yoke
- 1pc Three-way yoke
- 1pc Reversible adjusting nut
- 3pc Screw & nut



6/13.6/14.6/1.33'

2260g

Internal & external puller set

66431



- Drop forged chrome vanadium steel

Contents:

- 1-Internal small (Capacity: 15-30mm)
- 1-Internal large (Capacity: 30-80mm)
- 1-External (Capacity: 15-80mm)



 3/16.0/17.0/1.5'  5300g

Rear Axle puller & external rearing puller set

66432



- Chrome molybdenum steel external bearing puller with chrome plated & black finish.
- Suitable for rear axle puller & external bearing puller.

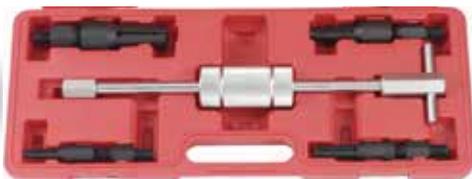
Contents:

- 1-Slide screw: 5/8" – 16T X 22-1/2" (16mm – 16T X 57cm)
- 1-External bearing puller capacity from 15-80mm (9/16" – 3-1/2")
- 1-Axle yoke
- 1-Bearing adaptor
- 1-Slide hammer 3-3/4 LB (1.75kg)
- 1-Lock nut 5/8" (16mm)
- 1-Bearing hook

 3/16.0/17.0/1.5'  5300g

Blind hole bearing puller set

905T6



- One slide hammer shaft & 4 clamps.
 - Adjustable collets make easy removal of bearing or bushings form blind holes.
- Clamps: 1/2" (10-14mm), 5/8" (15-19mm), 13/16"(20-24mm), 1-1/8" (25-32mm)



 5/17.5/18.5/1.25'  3650g



Blind hole bearing puller

910T1



- Two function bearing remover for puller and slide hammer.
- One slide hammer, 62mm tailpipe expanders and pullers for 8mm~32mm.

 5/16.5/17.5/1.66'

 3500g



2-in-1 Bearing Puller (2 Jaws)

66621



- Inside diameter 38mm ~ 120mm

 2/10.7/11.7/0.62'

 5400g

2-in-1 Bearing Puller (3 Jaws)

66620



- Inside diameter 12mm ~ 38mm

 4/12.4/13.4/1.17'

 3050g



■ Pilot bearing puller

66619



- Capacity: inside diameter 12mm-38mm, 1/2"~1-1/2"

 20/18.3/19/0.8'

 920g

■ Thick jaws gear puller

65910



- Jaws thickness: 1.5 mm
- Depth : 100mm
- Bearing dimension: 40-90mm



 20/15.0/16.0/1.1'

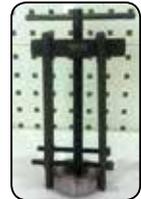
 680g

■ Bearing puller

666A



| Part no. | Capacity mm |  g |  packing |
|----------|----------------|--|--|
| 666A035 | 19 - 35 | 280 | 40/11.2/12.2/1' |
| 666A055 | 24 - 55 | 783 | 24/18.8/19.8/1.4' |
| 666A080 | 35 - 80 | 600 | 20/12.0/13.0/1' |



■ Long jaw bearing puller

66616



- For long distance pulling jobs
- Capacity 10-50mm
- Alloy steel
- Jaw long 300mm (SCM415 drop forged HRC 40-42)
- Drop forged hardened 48°-50°
- Forcing screw (SCM415)
- Stopper cone (S45C)
- Connector (SCM415)

 24/26.0/27.0/2.6'

 1200g



■ Bearing separator

66618



- This kit is different from other bearing separators. When obstruction is round external dia. and internal dia. of bearing, it can be used on the confined space to damage the protecting cover of bearing and easily remove bearings.
- Adjust range: 20 ~ 95 mm
- Bearing range:
6004 ~ 6010 (Jaw size: Ø 6 / 8)
6201 ~ 6206 (Jaw size: Ø 5.5 / 6 / 8) ;
6300 ~ 6304 (Jaw size: Ø 6 / 8)



 20/17.0/18.0/1.5'  800g

■ Bearing separator

66618M



- This kit is different from other bearing separators. When obstruction is round external dia. and internal dia. of bearing, it can be used on the confined space to damage the protecting cover of bearing and easily remove bearings.
- Adjust range: 35 ~ 120 mm
- Bearing range:
6207 ~ 6211 (Jaw size: Ø 11 / 12.5 / 15)
6305 ~ 6308 (Jaw size: Ø 11 / 12.5) ;
6403 ~ 6405 (Jaw size: Ø 11 / 12.5 / 15)

 12/22.0/23.0/1.3'  1700g

■ Unique bearing removal kit

66618MA



- Three-way operation allows use with traditional bearing separator, internal or external legs or bearing race separator. Bearing race separator application makes this kit ideal for use on “blind” mounted bearings where rear of bearing is not accessible.
- Adjust range: 35 ~ 120 mm
- Bearing range: 6207 ~ 6211 (Jaw size: Ø 11 / 12.5 / 15)
6305 ~ 6308 (Jaw size: Ø 11 / 12.5) ;
6403 ~ 6405 (Jaw size: Ø 11 / 12.5 / 15)
- Beam : 30~50 mm
- Legs: 30~90 mm

 5/17.0/18.0/1.2'  2700g

■ Differential side bearing puller

666A01



- Used to removing differential side carrier bearing. Works on a wide variety of cars and light-duty trucks.
- Includes four step plate adapters to fit carrier bearings.

 10/22.5/23.5/1.46'  2250g

■ A/C Clutch puller set

666A02



- Versatile 2-jaw puller designed to remove stubborn A/C clutch pulleys.
- Features two sets of jaws, a crossbar with three settings for correct spread, and an adjustable yoke to keep jaws tight.
- Spread of jaws: 3" to 5". Reach of jaws: 1" to 2-1/4".

 10/22.0/23.0/1.46'  2200g

■ 21pc Go-through ratchet socket set (SAE&MM)

666A03



- For a wide range of pulling jobs, including: bearings, alternators, generators, power steering and crankshaft pulleys, timing gears, and harmonic balancers.
- Spread: 2-3/8" to 3-3/8" & 3-1/2" to 5-1/2"
- Reach: 1-5/8" & 1-3/4"
- Set includes drop-forged components, which can be used in a variety of combinations.

 5/20.6/21.6/1.3'  4120g



Hydraulic gear puller set

66622



For agriculture/ Machine/ Garage/ Industry use

- Hydraulic ram (SCM420 Ø37.7mm)
- Twin Head 1pc
- Triple head 1pc
- Ram nut (SCM415 HRC 42-45)
- Beam (S45C)
- 4" Leg 3 pcs (SCM415 HRC 42-45)
- 6" Leg 3 pcs (SCM415 HRC 42-45)
- 8" Leg 3 pcs (SCM415 HRC 42-45)
- Sent pop (Ø1" × L30mm S45C)
- Ram extension rod (Ø1" × L2" S45C)
- Ram extension rod (Ø1" × L2" S45C)
- Main rod 2 pc (Hex bar 19mm × L8" × Ø15.24mm-1.75P)
- Extension rod 2pc (Hex bar 19mm × L8" × Ø15.24mm-1.75P)
- Bearing separator Spread range 75-150mm (SCM415 Drop forged HRC 42-45)

 1/16.5/17.5/1.2'

 16.5kg

6 ways multi purpose hydraulic gear puller

66623



- Hydraulic ram (SCM420 Ø 37.7mm)
- Combination cross head (S45C)
- Combination leg 3pcs (SCM415 Drop forged HRC 42-45)
- Steel Plate 6 pcs
- Screw/ Nut /Washer 6pcs
- Sent pop (Ø 1" × L30mm S45C)
- Ram Extension rod (Ø1"× L2"S45C)

 5/24.0/25.0/1.3'

 4800g

Micro 3" jaw lock puller

66617



- Forcing screw (SCM415)
- Chuck (SCM415)
- 3" Jaw 3pieces (SCM415)

 12/12.0/13.0/0.7'

 1420g

Hydraulic 6" jaw lock puller

66617A



- Hydraulic ram (SCM420)
- Chuck (SCM415)
- 6" Jaw 3pieces (SCM415)

 4/14.0/15.0/0.7'

 5500g

Inside puller

66624



- Spread: 23-130 mm
- Depth: 140 mm

 12/19.0/20.0/2'

 1600g

Outside puller

66625



- Spread: 7-140 mm
- Depth: 147 mm

 12/22.0/23.0/1.6'

 1.8kg

Universal puller set

66626



- 1 beam 2-arm
- 1 beam 3-arm
- 9 pulling legs, length 100 / 200 / 250 mm
- 2 spindle

 3/20.5/21.3/1.2'

 7200g



■ Universal puller set

66627



- 1 beam 2-arm
- 1 beam 3-arm
- 9 pulling legs, length 150 / 220 / 300 mm
- 1 spindle

2/25.0/26.0/1.25' 12.4kg

■ 2&3 Jaws gear puller set

66628



- 1 beam with 2-arm and 3-arm
- 6 pulling legs, length 130 / 200 mm
- 1 spindle (219mm)

6/16.5/17.5/0.93' 12.4kg

■ Separate hydraulic puller

6590825



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|----------|-----------|------------|------------|----|
| 6590825 | 25 tons | 375-15" | 540 | 110 | 30 |

■ Hydraulic puller with hydraulic pump

6590850



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|----------|-----------|------------|------------|----|
| 6590850 | 50 tons | 405-16" | 800 | 250 | 45 |
| 6590850L | 50 tons | 635-25" | 1200 | 250 | 49 |

■ Hydraulic puller

65911



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|----------|-----------|------------|------------|----|
| 6591106 | 6 tons | 300-12" | 95/235 | 82 | 6 |
| 6591108 | 8 tons | 300-12" | 95/235 | 82 | 7 |
| 6591110 | 10 tons | 330-13" | 95/235 | 82 | 6 |
| 6591112 | 12 tons | 330-13" | 95/235 | 82 | 7 |

■ Hydraulic puller

65912



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|----------|-----------|------------|------------|-----|
| 6591206 | 6 tons | 170-7" | 95/210 | 82 | 6.5 |
| 6591208 | 8 tons | 220-9" | 95/220 | 82 | 7.5 |
| 6591210 | 10 tons | 190-8" | 95/210 | 82 | 6.5 |
| 6591212 | 12 tons | 240-10" | 95/220 | 82 | 7.5 |

■ Hydraulic puller

65913



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|----------|-----------|------------|------------|-----|
| 6591306 | 6 tons | 170-7" | 95/210 | 82 | 8.5 |
| 6591308 | 8 tons | 220-9" | 95/220 | 82 | 9.5 |
| 6591310 | 10 tons | 190-8" | 95/210 | 82 | 8.5 |
| 6591312 | 12 tons | 240-10" | 95/220 | 82 | 9.5 |

■ Hydraulic puller

65906



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|----------|-----------|------------|------------|-----|
| 6590604 | 4 tons | 152-6" | 150 | 55 | 4.5 |
| 6590606 | 6 tons | 152-6" | 200 | 82 | 4.9 |
| 6590606L | 6 tons | 190-8" | 200 | 82 | 4.9 |
| 6590608 | 8 tons | 190-8" | 250 | 82 | 6.6 |
| 6590608L | 8 tons | 225-10" | 250 | 82 | 6.6 |
| 6590615 | 15 tons | 225-10" | 280 | 82 | 8.0 |
| 6590615L | 15 tons | 300-12" | 280 | 82 | 8.0 |



■ Hydraulic puller

6590630



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|----------|-----------|------------|------------|----|
| 6590630 | 30 tons | 375-15" | 540 | 110 | 31 |

■ Hydraulic puller

65907



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|----------|-----------|------------|------------|-----|
| 6590710 | 10 tons | 182-7" | 280 | 82 | 5.6 |
| 6590710L | 10 tons | 220-9" | 280 | 82 | 5.6 |
| 6590712 | 12 tons | 220-9" | 305 | 82 | 7.6 |
| 6590712L | 12 tons | 260-10" | 305 | 82 | 7.6 |
| 6590720 | 20 tons | 260-10" | 356 | 82 | 10 |
| 6590720L | 20 tons | 300-12" | 356 | 82 | 10 |

■ Hydraulic puller

6590725



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|----------|-----------|------------|------------|----|
| 6590725 | 25 tons | 300-12" | 406 | 110 | 20 |
| 6590725L | 25 tons | 375-15" | 406 | 110 | 20 |

■ Separate hydraulic puller

65908



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|----------|-----------|------------|------------|----|
| 6590815 | 15 tons | 230-9" | 280 | 82 | 14 |
| 6590815L | 15 tons | 300-12" | 280 | 82 | 14 |

■ Puller accessory

659C2



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|-----------|-----------|------------|------------|-----|
| 659C208 | 8-12 tons | 220-9" | 95/220 | 82 | 6.0 |
| 659C210 | 6-10 tons | 190-8" | 95/210 | 82 | 5.0 |

■ Puller accessory

659C3



| Part no. | Capacity | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|-----------|-----------|------------|------------|-----|
| 659C308 | 8-12 tons | 220-9" | 95/220 | 82 | 9.0 |
| 659C310 | 6-10 tons | 190-8" | 95/210 | 82 | 8.0 |

■ Puller accessory and straightener

659A



| Part no. | Reach(mm) | Spread(mm) | Stroke(mm) | kg |
|----------|-----------|------------|------------|------|
| 659A01 | 150 | 100/410 | 82 | 9.5 |
| 659A02 | 205 | 100/410 | 82 | 9.0 |
| 659A03 | 205/150 | 100/410 | 82 | 10.0 |

• This puller part converts 6590615 and 6590815 into a hydraulic straightening tool

■ Gear puller - 2 Jaw

65901



| Part no. | size | Capacity | Spread(mm) |
|----------|------|----------|------------|
| 6590103 | 3" | 2 tons | 40/75 |
| 6590104 | 4" | 4 tons | 50/100 |
| 6590106 | 6" | 6 tons | 70/150 |
| 6590108 | 8" | 10 tons | 95/200 |
| 6590112 | 12" | 15 tons | 140/300 |



■ Gear puller - 3 Jaw

65902



| Part no. | size | Capacity | Spread(mm) |
|----------|------|----------|------------|
| 6590203 | 3" | 3 tons | 40/75 |
| 6590204 | 4" | 6 tons | 50/100 |
| 6590206 | 6" | 9 tons | 70/150 |
| 6590208 | 8" | 15 tons | 95/200 |
| 6590212 | 12" | 22 tons | 140/300 |



■ Gear puller – 2 Arm

65903



| Part no. | Jaw open | Capacity | ⚖️ |
|----------|----------|----------|-----|
| | mm | ton | kg |
| 65903065 | 25-65 | 1.5 | 0.4 |
| 65903090 | 30-90 | 3.0 | 0.9 |
| 65903130 | 45-130 | 3.0 | 1.0 |
| 65903160 | 45-160 | 4.0 | 2.8 |
| 65903210 | 45-210 | 4.0 | 3.0 |
| 65903270 | 65-270 | 5.0 | 7.5 |
| 65903340 | 65-340 | 5.0 | 8.2 |

■ Gear puller - 2 Jaw

65909



| Part no. | Size | <i>l</i> | Ton | ⚖️ |
|----------|------|----------|-----|------|
| | | Length | | kg |
| 65909090 | 90 | 100 | 3 | 1.1 |
| 65909130 | 130 | 100 | 3 | 1.3 |
| 65909160 | 160 | 150 | 5 | 3.2 |
| 65909200 | 200 | 150 | 5 | 3.6 |
| 65909250 | 250 | 200 | 7.5 | 7.8 |
| 65909350 | 350 | 200 | 7.5 | 9.2 |
| 65909520 | 520 | 200 | 10 | 15.2 |
| 65909640 | 640 | 225 | 15 | 23.2 |



Quick-adjusting puller - 2 Arm

65909Q



| | Jaw open | Reach |  |  |
|-----------|----------|-------|---|---|
| Part no. | mm | mm | Packing | kg |
| 65909090Q | 90 | 100 | 12/14.0/15.0/0.57' | 1.2 |
| 65909130Q | 130 | 100 | 12/15.5/16.8/0.57' | 1.3 |
| 65909160Q | 160 | 150 | 6/18.6/19.6/0.56' | 3.1 |
| 65909200Q | 200 | 150 | 6/21.3/22.3/0.63' | 3.6 |
| 65909250Q | 250 | 200 | 3/21.8/22.8/0.62' | 7.3 |

Gear puller – 3 Arm

65910



| | Jaw open | Reach |  |  |
|----------|----------|-------|--|--|
| Part no. | mm | mm | Packing | kg |
| 65910090 | 90 | 100 | 12/17.8/18.8/0.71' | 1.5 |
| 65910130 | 130 | 100 | 12/19.8/20.8/0.79' | 1.7 |
| 65910160 | 160 | 150 | 3/12.2/13.2/0.46' | 4.1 |
| 65910200 | 200 | 150 | 3/13.2/14.2/0.54' | 4.4 |
| 65910250 | 250 | 200 | 2/18.1/19.1/0.82' | 9.1 |

Quick-adjusting puller - 3 Arm

65910Q



| | Jaw open | Reach |  |  |
|-----------|----------|-------|---|---|
| Part no. | mm | mm | Packing | kg |
| 65910090Q | 90 | 100 | 12/18.3/19.3/0.71' | 1.5 |
| 65910130Q | 130 | 100 | 12/20.1/21.1/0.79' | 1.7 |
| 65910160Q | 160 | 150 | 3/12.3/13.3/0.46' | 4.1 |
| 65910200Q | 200 | 150 | 3/13.3/14.3/0.54' | 4.4 |
| 65910250Q | 250 | 200 | 2/17.6/18.6/0.82' | 8.8 |



Mechanical

65903



6590312

6590309

6590305

| Item No. | Span (mm) | Depth (mm) | Dimensions (mm) | Spindle Thread | Extraction force | Mass (Kg) |
|----------|-----------|------------|-----------------|----------------|------------------|-----------|
| 6590305 | 130(5") | 105 | (a)14+1(b)15+1 | M14x1.5 | 45 | 1.9 |
| 6590309 | 230(9") | 150 | (a)19+1(b)22+1 | M22x2.0 | 100 | 4.0 |
| 6590312 | 295(12") | 235 | (a)19+1(b)22+1 | M22x2.0 | 100 | 5.1 |

20pc 1/2" Hex socket bit set

4206



NEW

| Part no. | Content... |
|--|---|
| 344055 05...12 | 7-Hex socket bit (55mmL) 5; 6; 7; 8; 9; 10; 12 mm |
| 34406514 | 1-Hex socket bit (65mmL) 14 mm |
| 344070 17...19 | 2-Hex socket bit (70mmL) 17; 19 mm |
| 344100 05...14 | 9-Hex socket bit (100mmL) 5; 6; 7; 8; 10; 11; 12; 13; 14 mm |
| 34411017 | 1-Hex socket bit (110mmL) 17mm |
|  4/13/14/1.3' |  3250g |

26pc 1/2" Star socket bit set

4263



NEW

| Part no. | Content... |
|--|---|
| 346055 20...70 | 12-Star socket bit (55mmL) T20; T25; T27; T30; T35; T40; T45; T47; T50; T55; T60; T70. |
| 346100 20...100 | 13-Star socket bit (100mmL) T20; T25; T27; T30; T40; T45; T50; T55; T60; T70; T80; T90; T100. |
| 34614060 | 1-Star socket bit (140mmL) T60. |
|  4/14.9/15.9/1.3' |  3725g |

28pc 1/2" Spline socket bit set

4285



NEW

| Part no. | Content... |
|--|--|
| 348055 05...16 | 8-Spline socket bit (55mmL) M5; M6; M8; M9; M10; M12; M14; M16. |
| 348100 05...18 | 10-Spline socket bit (100mmL) M5; M6; M8; M9; M9.5; M10; M12; M14; M16; M18. |
| 348140 08...14 | 5-Spline socket bit (140mmL) M8; M9; M10; M12; M14. |
| 348055 14T...16T | 2-Spline security socket bit (55mmL) M14; M16. |
| 34810016T | 1-Spline security socket bit (100mmL) M16. |
| 674 | 2-M10 Alternator tools 1pc 1/2"DR. Spline(XZN) socket bit M10x110mmL 1pc Reaction corkscrew cap 33 teeth- Ø19mm-17mm hex |
|  4/17.6/18.6/1.3' |  4400g |



26pc 1/2" Ribe socket bit set

4265



NEW

| Part no. |  | Content... |
|------------------|---|--|
| 349100 05...16 | | 10-Ribe socket bit (100mmL) M5; M6; M7; M8; M9; M10; M12; M13;M14; M16. |
| 349140 08...14 | | 5-Ribe socket bit (140mmL) M8; M9; M10; M12; M14. |
| 34914010V | | 1-Ribe socket bit (140mmL) M10V. |
| 349063 05T...16T | | 9-Ribe tamperproof socket bit (63mmL) M5; M6; M7; M8; M9; M10; M12; M14;M16. |
| 34905506 | | 1-Ribe socket bit (55mmL) M6. |

 4/15.7/16.7/1.3'

 3925g

26pc Special socket bit set

4266



NEW

| Part no. |       | Content... |
|----------------|--|---|
| 344100 11...13 | | 2-Hex socket bit (100mmL) 11; 13. |
| 34414010 | | 1-Hex socket bit (140mmL) 10mm. |
| 346100 60...70 | | 2-Star socket bit (100mmL) T60; T70. |
| 34614060 | | 1-Star socket bit (140mmL) T60. |
| 34710055 | | 1-Star tamperproof socket bit (100mmL) T-55H |
| 34710570 | | 1-Star tamperproof socket bit (105mmL) T-70H. |
| 34713030 | | 1-Star tamperproof socket bit (130mmL) T-30H. |
| 34714080 | | 1-Star tamperproof socket bit (140mmL) T-80H. |
| 34810014 | | 1-Spline socket bit (100mmL) M14. |
| 34812009 | | 1-Spline socket bit (120mmL) M9. |
| 348140 08...12 | | 4-Spline socket bit (140mmL) M8; M9; M10; M12. |
| 34805516T | | 1-Spline security socket bit (55mmL) M16. |
| 34810016T | | 1-Spline security socket bit (100mmL) M16. |
| 34910013 | | 1-Ribe socket bit (100mmL) M13. |
| 34912012 | | 1-Ribe socket bit (120mmL) M12. |
| 34914009 | | 1-Ribe socket bit (140mmL) M9. |
| 34914010V | | 1-Ribe socket bit (140mmL) M10V. |
| 674 | | 2-M10 Alternator tools 1pc 1/2"DR. Spline(XZN) socket bit M10x110mmL 1pc Reaction corkscrew cap 33 teeth-Ø19mm-17mm hex |
| 678 | | 2-T50 Alternator tools 1pc 1/2"DR. Star socket bit T50x110mmL 1pc Reaction corkscrew cap 33 teeth-Ø19mm-17mm hex |

 4/18.8/19.8/1.3'

 4700g

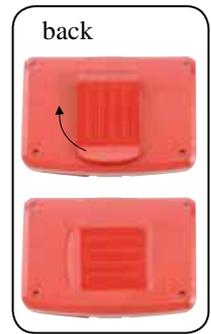
31pc 1/4" Bit set

2311



Content:

- 1-Magnetic bit holder 60mmL (81260Q)
- 6-1/4" Phillips bit PH.0, PH.1x2, PH.2x2, PH.3
- 6-1/4" Pozidriv bit PZ.0, PZ.1x2, PZ.2x2, PZ.3
- 4-1/4" Slotted bit 3, 4, 5, 6.5
- 6-1/4" Hex bit 2, 2.5, 3, 4, 5, 6 mm
- 8-1/4" Star tamperproof bit T-10H, T-15H, T-20H, T-25H, T-27H, T-30H, T-35H, T-40H



40/12.6/13.6/1.1' 315g

9pc 1/4" & 3/8" Five-sided star tamperproof socket bit set

3095



Content: 1/4"DR. & 3/8"DR.

- 32F32 10...40 7-1/4"DR.: Five-sided star tamperproof socket bit
TS10; TS15; TS20; TS25; TS27; TS30; TS40
- 33F50 45...50 2-3/8"DR. Five-sided star tamperproof socket bit
TS45; TS50

Bit 30/7/8/0.9' 233g

5pc Specialty set

4059



Content: 1/2"DR.

- 348140 08...12 3-1/2" Spline socket bit
M8; M10; M12 (140mmL)
- 34413008 1-1/2" Hex socket bit 8mm (130mmL)
- 34410508B 1-1/2" Bent hex socket bit 8mm (105mmL)

20/13.0/14.0/1.3' 650g

3/8" DR. Universal star socket bit

336...U



| | | <i>l</i> | | |
|----------|-----|----------|----|--------|
| Part no. | Tip | mm | g | pc/box |
| 33645U | T45 | 65 | 68 | 10 |
| 33650U | T50 | 65 | 70 | 10 |

■ 1/2"DR. Bent hex socket bit (8mm)

34410508B



| Part no. |  size | <i>l</i> mm |  g |  pcs/box |
|-----------|--|-------------|---|---|
| 34410508B | 8mm | 105 | 92 | 10 |

■ PH.2 Bits with limiter

121A

NEW



| Part no | Size | <i>l</i> |  |  |
|---------|------|----------|---|---|
| 121A252 | PH.2 | 25mm | 400/7.8/8.8/1.2' | 19.5g |
| 121A502 | PH.2 | 50mm | 400/10.2/11.2/1.2' | 25.5g |

■ 10mm Square bit

174S

NEW



| Part no. | Size |
|----------|------|
| | mm |
| 174S3008 | 8 |
| 174S3010 | 10 |
| 174S3013 | 13 |

■ Angle driver drill tool with quick release

827B01

NEW



1. Max. 57NM
2. 8 positions with 360°
3. Available with drill 18V

| | | | |
|---|-------------------|---|------|
|  | 48/18.6/19.3/1.2' |  | 388g |
|---|-------------------|---|------|

Magnetic screw bit holder

827B02



NEW

Width: 14mm

Length : 24mm

400/3.2/4.2/0.58'

8g

1/4" DR. Universal socket

80525



| Part no. | socket | <i>l</i> mm | g | pc/box |
|----------|--------|----------------|----|--------|
| 8052506 | 6 | 39 | 22 | 20 |
| 8052507 | 7 | 39 | 24 | 20 |
| 8052508 | 8 | 39 | 24 | 20 |
| 8052509 | 9 | 39 | 24 | 20 |

1/4" DR. Universal deep socket

8052565



| Part no. | socket | <i>l</i> mm | g | pc/box |
|-----------|--------|----------------|----|--------|
| 805256505 | 5 | 65 | 29 | 20 |
| 805256506 | 6 | 65 | 31 | 20 |
| 805256507 | 7 | 65 | 36 | 20 |
| 805256508 | 8 | 65 | 38 | 20 |
| 805256509 | 9 | 65 | 38 | 20 |
| 805256510 | 10 | 65 | 44 | 20 |
| 805256511 | 11 | 65 | 49 | 20 |
| 805256512 | 12 | 65 | 49 | 20 |
| 805256513 | 13 | 65 | 50 | 20 |



■ **3/8"DR. Universal socket**

80535



| |  | <i>l</i> |  |  |
|------------|---|----------|---|---|
| Part no. | socket | mm | g | pc/box |
| 8053510 | 10 | 57 | 64 | 10 |
| 8053511 | 11 | 57 | 66 | 10 |
| 8053512 | 12 | 57 | 67 | 10 |
| 8053513 | 13 | 57 | 67 | 10 |
| 8053514 | 14 | 57 | 70 | 10 |
| 8053515 | 15 | 57 | 77 | 10 |
| 8053516 | 16 | 57 | 78 | 10 |
| 8053517 | 17 | 57 | 82 | 10 |
| 8053518 | 18 | 57 | 92 | 10 |
| 8053519 | 19 | 57 | 92 | 10 |
| 805353.8 | 3/8" | 57 | 64 | 10 |
| 805357.16 | 7/16" | 57 | 66 | 10 |
| 805351.2 | 1/2" | 57 | 67 | 10 |
| 805359.16 | 9/16" | 57 | 67 | 10 |
| 805355.8 | 5/8" | 57 | 78 | 10 |
| 8053511.16 | 11/16" | 57 | 82 | 10 |
| 805353.4 | 3/4" | 57 | 92 | 10 |

■ **3/8"DR. Universal deep socket**

8053585



| |  | <i>l</i> |  |  |
|--------------|---|----------|---|---|
| Part no. | socket | mm | g | pc/box |
| 805358510 | 10 | 85 | 82 | 10 |
| 805358511 | 11 | 85 | 86 | 10 |
| 805358512 | 12 | 85 | 92 | 10 |
| 805358513 | 13 | 85 | 92 | 10 |
| 805358514 | 14 | 85 | 104 | 10 |
| 805358515 | 15 | 85 | 108 | 10 |
| 805358516 | 16 | 85 | 112 | 10 |
| 805358517 | 17 | 85 | 121 | 10 |
| 805358518 | 18 | 85 | 136 | 10 |
| 805358519 | 19 | 85 | 136 | 10 |
| 80535853.8 | 3/8" | 85 | 82 | 10 |
| 80535857.16 | 7/16" | 85 | 86 | 10 |
| 80535851.2 | 1/2" | 85 | 92 | 10 |
| 80535859.16 | 9/16" | 85 | 92 | 10 |
| 80535855.8 | 5/8" | 85 | 112 | 10 |
| 805358511.16 | 11/16" | 85 | 121 | 10 |
| 80535853.4 | 3/4" | 85 | 136 | 10 |

■ 3/8" DR. Star universal socket

80536



| Part no. |  | <i>l</i> |  |  |
|----------|---|----------|---|---|
| | socket | mm | g | pc/box |
| 8053606 | E6 | 42 | 52 | 10 |
| 8053607 | E7 | 42 | 52 | 10 |
| 8053608 | E8 | 42 | 56 | 10 |
| 8053610 | E10 | 42 | 56 | 10 |
| 8053611 | E11 | 42 | 60 | 10 |
| 8053612 | E12 | 42 | 60 | 10 |
| 8053614 | E14 | 42 | 62 | 10 |
| 8053616 | E16 | 42 | 62 | 10 |

■ 1/2" DR. Universal socket

80545



| Part no. |  | <i>l</i> |  |  |
|------------|---|----------|---|---|
| | Socket | mm | g | pc/box |
| 8054513 | 13 | 67 | 131 | 10 |
| 8054514 | 14 | 67 | 136 | 10 |
| 8054515 | 15 | 67 | 136 | 10 |
| 8054516 | 16 | 67 | 137 | 10 |
| 8054517 | 17 | 67 | 137 | 10 |
| 8054518 | 18 | 67 | 144 | 10 |
| 8054519 | 19 | 67 | 151 | 10 |
| 8054520 | 20 | 67 | 151 | 10 |
| 8054521 | 21 | 67 | 151 | 10 |
| 8054522 | 22 | 67 | 155 | 10 |
| 8054524 | 24 | 67 | 168 | 10 |
| 805451.2 | 1/2" | 67 | 130 | 10 |
| 805459.16 | 9/16" | 67 | 135 | 10 |
| 805455.8 | 5/8" | 67 | 136 | 10 |
| 8054511.16 | 11/16" | 67 | 137 | 10 |
| 805453.4 | 3/4" | 67 | 151 | 10 |
| 8054513.16 | 13/16" | 67 | 151 | 10 |
| 805457.8 | 7/8" | 67 | 153 | 10 |
| 8054515.16 | 15/16" | 67 | 167 | 10 |



■ 1/2" DR. Universal deep socket

80545108



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|---------------|--------|----------------|-----|--------|
| 8054510813 | 13 | 108 | 172 | 10 |
| 8054510814 | 14 | 108 | 179 | 10 |
| 8054510815 | 15 | 108 | 186 | 10 |
| 8054510817 | 17 | 108 | 201 | 10 |
| 8054510819 | 19 | 108 | 222 | 10 |
| 8054510821 | 21 | 108 | 255 | 10 |
| 8054510822 | 22 | 108 | 266 | 10 |
| 8054510824 | 24 | 108 | 283 | 10 |
| 805451081.2 | 1/2" | 108 | 173 | 10 |
| 805451089.16 | 9/16" | 108 | 175 | 10 |
| 805451085.8 | 5/8" | 108 | 179 | 10 |
| 8054510811.16 | 11/16" | 108 | 192 | 10 |
| 805451083.4 | 3/4" | 108 | 216 | 10 |
| 8054510813.16 | 13/16" | 108 | 259 | 10 |
| 805451087.8 | 7/8" | 108 | 266 | 10 |
| 8054510815.16 | 15/16" | 108 | 283 | 10 |

■ 1/2" DR. Star universal socket

80546



| Part no. | Socket | <i>l</i> mm | g | pc/box |
|----------|--------|----------------|-----|--------|
| 8054608 | E8 | 65 | 124 | 10 |
| 8054610 | E10 | 65 | 124 | 10 |
| 8054611 | E11 | 65 | 125 | 10 |
| 8054612 | E12 | 65 | 127 | 10 |
| 8054614 | E14 | 65 | 127 | 10 |
| 8054616 | E16 | 65 | 133 | 10 |
| 8054618 | E18 | 65 | 133 | 10 |
| 8054620 | E20 | 65 | 177 | 10 |
| 8054624 | E24 | 65 | 177 | 10 |

■ **1/2"DR. Vacuum switch socket (22. 27mm)**

443



| |  | <i>l</i> |  |  |
|----------|---|----------|---|---|
| Part no. | size | mm | g | pc/box |
| 44322 | 22 | 85 | 230 | 10 |
| 44327 | 27 | 85 | 389 | 10 |
| 44315022 | 22 | 150 | 450 | 10 |

■ **3/4" DR. Star impact deep socket**

466110



| |  | <i>l</i> |  |  |
|----------|---|----------|---|---|
| Part no. | socket | mm | g | pc/box |
| 46611018 | E18 | 110 | 520 | 1 |
| 46611020 | E20 | 110 | 540 | 1 |
| 46611022 | E22 | 110 | 580 | 1 |
| 46611024 | E24 | 110 | 591 | 1 |
| 46611028 | E28 | 110 | 710 | 1 |

• E20 For HGV Cylinder-head bolts.

■ **21x28 mm Rectangular deep socket**

48311021



- Special design for railway.
- Drive: 1"
- Size: 21 x 28 mm

 20/28.8/29.8/0.46'  1440g



■ **6pc 1/2"DR. Star extra-long deep socket set**

40616



NEW

| Part no. | Content: |
|---------------------|--|
| 546150 10B...20B | 6-1/2"DR. Star extra-long deep socket (150mmL) E10; E12; E14; E16; E18; E20 |



10/17.3/18.3/1.2'



1732g

■ **1/4"DR. Mixture adjuster**

601235



1/4" Driver tamperproof mixture adjuster (Double D) for use on Asian and Mikuni carburetors found on Toyota and Mitsubishi cars (35mmL).



200/5.6/6.6/1.3'



28g

■ **1/4"DR. Mixture adjuster**

601250



1/4" Driver tamperproof mixture adjuster (fish tail) for use on Nikki and Hitachi carburetors found on Nissan and Subaru cars (50mmL).



200/5.6/6.6/1.3'



28g

T tap wrench (ratchet type)

881



| Part no. | Tap range | <i>l</i> mm | g |
|----------|--------------------|----------------|-------|
| 8812090 | 1/8"-1/4" (3-6mm) | 90 | 190 |
| 8812250 | 1/8"-1/4" (3-6mm) | 250 | 280 |
| 8814110 | 1/4"-1/2" (6-12mm) | 110 | 320 |
| 8814300 | 1/4"-1/2" (6-12mm) | 300 | 460 |

6pc Star wrench set

5062



Contents:

756 0608...2024 6-Star wrench
E6xE8; E7xE11; E10xE12;
E14xE18; E16xE22; E20xE24



30/16.7/17.7/1.4'



556g

6pc Extra long flat ring wrench set

50622



Contents:

760 1012...1719 6-Extra long flat ring wrench
10x12; 12x14; 13x15; 14x17;
16x18; 17x19 mm



12/24.8/25.8/1.2'



2070g

6pc Double gear flat long wrench set

50623



Contents:

827 1012...1719 6-Double gear flat long wrench
10x12; 12x14; 13x15; 14x17;
16x18; 17x19 mm



12/20.9/21.9/1.2'



1741g



6pc S-form ring wrench set

50634



Contents:

761 1012A...2224A 6pc S-form wrench
10x12; 11x13; 14x15; 16x18;
17x19; 22x24

10/11.0/12.0/1.1' 1100g

6pc Flare nut wrench set

5066 / 5066S



5066 Contents:

751 0810...1719 6-Flare nut wrench
8x10; 10x11; 10x12; 11x13; 12x14; 17x19 mm

5066S Contents:

751 0810S...1719S 6-Flare nut wrench
5/16" x 3/8"; 3/8" x 7/16"; 7/16" x 1/2";
1/2" x 9/16"; 5/8" x 3/4"; 11/16" x 3/4"

30/18.3/19.3/1.3' 610g

Ratchet flare nut wrench

751...A



| Part no. | Size mm | <i>l</i> mm | g | pc/box |
|----------|------------|----------------|-------|------------|
| 75108A | 8 | 137 | 84 | 10 |
| 75110A | 10 | 137 | 85 | 10 |
| 75111A | 11 | 138 | 88 | 10 |
| 75112A | 12 | 138 | 82 | 10 |
| 75113A | 13 | 140 | 91 | 10 |
| 75114A | 14 | 140 | 86 | 10 |
| 75117A | 17 | 186 | 146 | 10 |
| 75119A | 19 | 189 | 157 | 10 |



9pc Ratchet flare nut wrench

T50918



Contents:

751 08A...22A 9-Ratchet flare nut wrench
8; 10; 11; 12; 13; 14; 17; 19; 22 mm

6/8.1/9.1/0.66' 1350g

2pc Adjustable wrench set

5023

NEW



| | | |
|----------|----------------------------|--------------|
| Part no. | Contents: | |
| 649200E | 2-Adjustable gauged wrench | |
| 649300E | 8" (200mmL) | 12" (300mmL) |

6/9.4/10.4/0.9'

1562g

Adjustable gauged wrench

649...E

NEW



| Part no. | Size | <i>l</i> |
|----------|------|----------|
| | mm | mm |
| 649200E | 24 | 200 |
| 649250E | 29 | 250 |
| 649300E | 33 | 300 |

2pc Auto adjustable wrench

902U2



9U0704

9U0703

- Ideal for track-red ends. Allows leverage in confined areas.
- **9U0703** for use with 3/8"DR. power bar. (40/10.4/11.0/0.6')
- **9U0704** for use with 1/2"DR. power bar. (40/18.0/19.0/1.0')

20/13.8/14.8/0.46'

690g

Adjustable spanner wrench

9U0701



- This tool is ideal for adjusting pillow block bearings.
- Also works well on international model "M" water pump or power takeoff on all.
- Adjustable from 1/2" to 2-3/4".



48/16.1/17.1/1.1'

335g



■ **13pc Hex extra long key set (SAE)**

5137XLS



| | |
|------------------------|--|
| Part no. | ○ |
| 764 1.16XL... 3.4XL | Contents: 13-Hex extra long key 1/16"; 5/64"; 3/32"; 1/8"; 5/32"; 3/16"; 1/4"; 5/16"; 3/8"; 1/2"; 9/16"; 5/8"; 3/4" |

📦 6/18.2/19.2/0.68' ⚖️ 3030g

■ **9pc Star & star ball point long key set**

5098LB



| | |
|-----------------|---|
| Contents: | |
| 766 10BL...50BL | 9-Star & Star ball point long key T10; T15; T20; T25; T27; T30; T40; T45; T50 |
| Tip | ⚙️ ⚙️ |
| | 📦 50/16.5/17.5/2.2' ⚖️ 300g |

■ **Extra-long spline key M8**

76808XL



- Size: Spline M8
- Total length (300mm), for use in hard-to-access areas.

○ 📦 200/23.0/24.0/.96' ⚖️ 115g

■ **1/2" DR. Extension with light**

8044080L



| Part no. | <i>l</i> mm | ⚖️ g | 📦 Packing |
|----------|----------------|---------|-------------------|
| 8044080L | 80 | 360 | 60/12.6/13.6/1.1' |



Flexible extension tube

804...F

- Reach to unreachable corners.
- Delivers high torsion
- Material: SCM 440



| Part no. | DR. | <i>l</i> L(mm) | g | Packing |
|----------|------|-------------------|-------|--------------------|
| 8043185F | 3/8" | 185 | 300 | 50/15.0/16.0/0.43' |
| 8044225F | 1/2" | 225 | 630 | 30/18.8/19.8/0.42' |

18" Flexible extension

8111L

- 1/4" Drive
- Length:18", 450mm



100/16.8/17.8/0.9' 168g

Flexible hex nut driver

648



| Part no. | size | <i>l</i> Blade | <i>l</i> over | g | Pc/carton |
|----------|----------|-------------------|------------------|-------|---------------|
| 648055 | 5.5 | 160 | 270 | 190 | 60/2.5' |
| 64806 | 6 | 160 | 270 | 192 | 60/2.5' |
| 64807 | 7 | 160 | 270 | 196 | 60/2.5' |
| 64808 | 8 | 160 | 270 | 198 | 60/2.5' |
| 6481.4 | 1/4" | 160 | 270 | 192 | 60/2.5' |
| 6485.16 | 5/16" | 160 | 270 | 198 | 60/2.5' |

Flexible hex nut driver

6480607



| Part no. | size | <i>l</i> Blade | <i>l</i> over | g | Pc/carton |
|----------|----------|-------------------|------------------|-------|---------------|
| 6480607 | 6x7 | 160 | 275 | 220 | 60/2.5' |



Flexible hex nut driver

648...L



| Part no. |  size | <i>l</i> L | <i>l</i> over |  g |  Pc/carton |
|----------|--|------------|---------------|---|---|
| 648055L | 5.5 | 500 | 630 | 275 | 30/1.1' |
| 64806L | 6 | 500 | 630 | 275 | 30/1.1' |
| 64807L | 7 | 500 | 630 | 275 | 30/1.1' |
| 64808L | 8 | 500 | 630 | 275 | 30/1.1' |

Extra long screwdriver

655



| Part no. | Tip | size | <i>l</i> Blade | <i>l</i> over |  g |  pc/box |
|----------|---|------|----------------|---------------|---|--|
| 65511 |  | PH.1 | 350 | 450 | 75 | 10 |
| 65512 |  | PH.2 | 350 | 450 | 75 | 10 |
| 65512L |  | PH.2 | 400 | 515 | 215 | 10 |
| 65522L |  | PZ.2 | 400 | 515 | 215 | 10 |
| 655304 |  | 4 | 300 | 400 | 65 | 10 |
| 655305 |  | 5 | 300 | 400 | 65 | 10 |
| 655306 |  | 6 | 300 | 400 | 65 | 10 |
| 655308 |  | 8 | 300 | 400 | 70 | 5 |
| 6553065L |  | 6.5 | 400 | 515 | 215 | 10 |

7pc Star screwdriver set (300 mmL)

20719



Contents:

716300 10...40 7-Star screwdriver for hard-to-reach fastener
T10; T15; T20; T25; T27; T30; T40 (300mmL)

* Pack in color box

Tip   10/10.3/11.3/1.3'  1030g

Spline screwdriver M4

71817004A



- For removing & fitting the internal covering of tail lamps and dashboards as fitted to the Golf IV & new AUDI / VW models.
- For door handle VW Passat and Golf IV.
- Length: 80mm

Tip  M4

 35g

 10PC

Five-sided star tamperproof screwdriver

71F



| Part no. |  Tip | <i>l</i> Blade(mm) | <i>l</i> Over(mm) |  g |  pc/box |
|---|---|--------------------|-------------------|---|--|
| 71F10 | TS10 | 150 | 255 | 62 | 10 |
| 71F15 | TS15 | 150 | 255 | 62 | 10 |
| 71F20 | TS20 | 150 | 255 | 62 | 10 |
| 71F25 | TS25 | 150 | 255 | 73 | 10 |
| 71F27 | TS27 | 150 | 270 | 104 | 10 |
| 71F30 | TS30 | 150 | 270 | 104 | 10 |
| 71F40  | TS40 | 150 | 280 | 146 | 10 |

6pc Extra-long screwdriver set

20611

NEW



| Part no. | Content... |
|--------------|--|
| 655 11...12 | 2-Extra-long Phillips screwdriver (350mmL) PH.1; PH.2 |
| 6553 04...08 | 4-Extra-long slotted screwdriver(300mmL) 4;5;6;8mm |

 10/11.5/12.5/2'

 1150g



Auto-rewinder air hose reel

9U0201



- Size: 330 x 150 x 410 mm
- Inlet / Outlet: 1/4"
- Maximum Pressure: 300 PSI
- Hose Length: 15m
- Hose I.D.: 5/16"

3/20/21/3'

667g

Auto-rewinder air hose reel

9U0201A

NEW



- Size: 330 x 150 x 410 mm
- Inlet / outlet: 1/4"
- Maximum pressure: 300 PSI
- Hose length: 12M
- Hose I.D.: 3/8"

20/19/20/3'

950g

Air blow gun

9U0202 / 9U0203



9U0202



9U0203

It is suitable for removing and cleaning any kinds of chip.

Specification:

- Length: 4" (9U0202) / 13" (9U0203)
- Working pressure: 78~120 PSI / 5~8 KGS
- Thread type: 1/4"

9U0202 60/10/11/1.6'

167g

9U0203 50/12/13.5/2.9'

240g

Extendable air blow gun

9U0204 / 9U0205



9U0204



9U0205

- Special extendable tube and swivel angle can work in any kinds of area.

Specification:

- Length: 7~12" (9U0204) / 13"~24" (9U0205)
- Working pressure: 78~120 PSI / 5~8 KGS
- Thread type: 1/4"

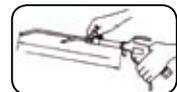
9U0204 60/17/18/2.5'

283g

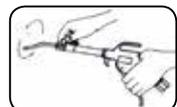
9U0205 50/13/14/2.9'

260g

Extendable



Revolvable



4pc Stud extractor set

5042 / 5042S



- For remove threaded, broken, rusted, stripped or smooth studs.

5042 Contents :

4pc Stud extractor set (MM)
818 06...12 4-Stud extractor 6; 8; 10; 12 mm

5042S Contents :

4pc Stud extractor set (SAE)
818 1.4...7.16 4-Stud extractor 1/4"; 5/16"; 3/8"; 7/16"

20/15.8/16.8/0.74' 790g

7pc Stud extractor set (MM)

5078



- For removing threaded, broken, rusted, stripped or smooth studs.



Contents:

818 05...14 7-Stud extractor
5; 6; 7; 8; 10; 12; 14 mm

12/16.8/17.8/0.73' 1400g

Stud extractor

818

- For remove threaded, broken, rusted, stripped or smooth studs.



| Part no. | Drive | size | <i>l</i> mm | g | pc/box |
|----------|-------|-------|----------------|-------|------------|
| 81805 | 3/8" | 5 | 60 | 127 | 10 |
| 81806 | 1/2" | 6 | 60 | 132 | 10 |
| 81807 | 1/2" | 7 | 60 | 130 | 10 |
| 81808 | 1/2" | 8 | 60 | 130 | 10 |
| 81810 | 1/2" | 10 | 68 | 186 | 10 |
| 81812 | 1/2" | 12 | 68 | 184 | 10 |
| 81814 | | 14 | 68 | 253 | 10 |
| 8183.16 | 3/8" | 3/16" | 60 | 126 | 10 |
| 8181.4 | 1/2" | 1/4" | 60 | 126 | 10 |
| 8185.16 | 1/2" | 5/16" | 60 | 124 | 10 |
| 8183.8 | 1/2" | 3/8" | 68 | 176 | 10 |
| 8187.16 | 1/2" | 7/16" | 68 | 172 | 10 |
| 8181.2 | | 1/2" | 68 | 196 | 10 |



Stud extractor

818A



- Socket 1/2" DR. Stud Extractor.
- For remove threaded, stripped, rusted, broken and smooth studs.
- Stud range: 6 - 19mm (1/4" - 3/4")



 30/16.9/17.9/0.55'  560g

Stud Extractor

818B



- For removing threaded, broken, rusted, stripped or smooth studs.
- Stud Range: 6 - 12mm (1/4" - 1/2")



| Part no. | DR. | <i>l</i> mm |  g |  packing |
|----------|------|----------------|--|--|
| 818B01 | 3/8" | 55 | 375 | 48/18.0/19.0/1.8' |
| 818B02 | 1/2" | 75 | 395 | 48/19.0/20.0/1.8' |

6pc 1/2" DR. Twist socket set

906U2



- Remove damaged bolts or rounded fasteners.

Contents:

5-1/2" DR. Twist socket (50mmL)
17; 19; 21; 23; 27mm



 20/19.8/20.8/1.4'  990g

12pc 3/8" & 1/2" DR. Twist socket set

912U3



- Remove damaged bolts or rounded fasteners.

Contents:

4-3/8" DR. Twist socket
8; 10; 12; 13mm
6-1/2" DR. Twist socket
14; 15; 16; 17; 19; 21mm

 20/15.5/16.5/0.9'  775g

10pc 3/8" DR. Twist socket set

910U2



- Remove damaged bolts or rounded fasteners.

Contents:

9pc impact socket : mm(inches)
10; 11; 12; 13; 14; 15; 16(5/8"); 17; 19(3/4")
1pc 8mm Straight rod

 20/13.5/14.5/0.9'  675g

10pc Combination extractor and drill set

910U1



- Contents five spiral extractors #1 through #5 and five mechanic's length hess drill, removes bolts and screws up to 5/8".
- Left hand extractors with right hand drills.

Contents:

Hess drill size, 5/64", 7/64", 5/32", 1/4", 19/64"
Screw extractor size, 5/64", 7/64", 5/32", 1/4", 19/64"

 48/16.0/17.0/2.2'  333g



25pc Screw extractor / drill & guide set

925U1



- Fluted type extractors that provide a solid grip on broken studs and screws.
- These screw extractors do not expand the screw while turning and their special design ensures a positive grip when driven into the drilled out hole.
- Drill size is stamped on each extractor for ease of identification.
- Range: 3/16" to 9/16" (5 to 14 mm)



 20/11.6/12.6/1.2'  580g

5pc Straight flute screw extractor set

905U1



- Made of chrome molybdenum
- Heat treated
- Quick & easy way to remove broken screws, pipes, bolts & studs
- Size: 3/16" - 5/16" (M5-8)
5/16" - 3/8" (M8-10)
3/8" - 7/16" (M10-12)
7/16" - 9/16" (M12-14)
9/16" - 5/8" (M14-16)

 100/17.5/18.5/1'  175g

5pc Screw extractor set

63005 / 63005B



63005

- Size: 1/8" - 1/4" (M3-6)
1/4" - 5/16" (M6-8)
5/16" - 7/16" (M8-11)
7/16" - 9/16" (M8-14)
9/16" - 3/4" (M14-18)



63005B

 100/13.7/14.7/1.4'  137g

8pc Screw extractor set

63006 / 63006B



63006

63006B

- Size: 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)

24/19.9/20.9/0.77' 830g

130pc Threaded coil-insert repair kit

9130U1



Contents:

- Screw-Coil: Material: Stainless Steel SUS304.
25pc M5-0.8*1.5D, 25pc M6-1.0*1.5D, 25pc M8-1.25*1.5D, 25pc M10-1.5*1.5D, 10pc M12-1.75*1.5D.
- Tap: Material: HSS.
1pc M5-0.8, 1pc M6-1.0, 1pc M8-1.25, 1pc M10-1.5, 1pc M12-1.75.
- Tang Puncher: Material: Carbon Steel.
1pc M5-0.8, 1pc M6-1.0, 1pc M8-1.25, 1pc M10-1.5, 1pc M12-1.75.
- Drill: Material: HSS.
1pc 5.2mm, 1pc 6.3mm, 1pc 8.3mm, 1pc 10.4mm, 1pc 12.4mm.
- Main Tool: Material: Steel.
1pc M5-0.8, 1pc M6-1.0, 1pc M8-1.25, 1pc M10-1.5, 1pc M12-1.75.

8/19.5/20.5/1.2' 2437g

Threaded coil-insert repair kit

929../924../912../910..



| Part no. | Size | pc | Packing | g |
|----------|----------|----|-------------------|-----|
| 929U1 | M5x0.8 | 29 | 30/8.2/9.2/1.7' | 275 |
| 929U2 | M6x1.0 | 29 | 30/9.2/10.2/1.7' | 310 |
| 929U3 | M8x1.25 | 29 | 30/11.6/12.6/1.7' | 390 |
| 924U2 | M10x1.0 | 24 | 30/13.8/14.8/1.7' | 460 |
| 924U3 | M10x1.25 | 24 | 30/13.8/14.8/1.7' | 460 |
| 924U5 | M10x1.5 | 24 | 30/13.8/14.8/1.7' | 460 |
| 912U5 | M12x1.25 | 12 | 30/16.5/17.5/1.7' | 550 |
| 912U6 | M12x1.5 | 12 | 30/16.5/17.5/1.7' | 550 |
| 912U7 | M12x1.75 | 12 | 30/16.5/17.5/1.7' | 550 |
| 910U5 | M14x1.25 | 10 | 30/18.6/19.6/1.7' | 620 |
| 910U6 | M14x1.5 | 10 | 30/18.6/19.6/1.7' | 620 |



8pc Axle spindle rethreading set

67001



- 8pcs thread restoring die set is used to clean or repair axle threads on spindles.
- Use with 1-1/4" socket or wrench.
- Size: M24x1.50; M24x2.00; M22x1.00; M22x1.50; M20x1.50; M20x1.25; 3/4"x20UNEF; 13/16"x20UNEF



 20/12/13/0.6'

 600g

20pc Master spindle rethreading set

920U1



- This 20-piece set will repair or renew damaged threads on stub axles / spindles on most vehicles. Dies are made of high tempered steel for strength and durability. All dies have the same 1-1/4" (32mm) hex size. Stored in high impact blow mold case.
- Imperial sizes: 11/16"x24, 3/4"x16, 3/4"x20, 13/16"x20, 27/32"x20, 7/8"x14, 1"x14
- Metric sizes: 16x1.0, 16x1.5, 18x1.5, 19x1.5, 20x1.0, 20x1.25, 20x1.5, 22x1.0, 22x1.5, 24x1.5, 24x2.0, 25x1.5, 27x2.0

 6/11.3/12.3/1.3'

 1883g

15pc Metric rethreader set

915U1



Contents:

- Seven metric rethreader dies, seven metric rethreader taps, one metric thread file.
- Rethreader die sizes: 6x1.00, 8x1.25, 10x1.25, 10x1.50, 12x1.25, 12x1.5, 12x1.75mm
- Rethreader tap sizes: 6x1.00, 8x1.25, 10x1.25, 10x1.50, 12x1.25, 12x1.5, 12x1.75mm
- 1pc metric thread file



 10/6.2/7.2/0.57'

 620g

43pc UNF, UNC & Metric rethreader set

943U1



Contents:

Seven UNC, seven UNF and seven metric rethreader dies, six UNC, six UNF and seven metric rethreader taps, one UNF and UNC thread file and one metric thread file.

• Rethreader Die Sizes:

1/4", 5/16", 3/8", 7/16", 1/2", 9/16", & 5/8", UNC 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", & 5/8", UNF 6x1.00, 8x1.25, 10x1.25, 10x1.50, 12x1.25, 12x1.5, 12x1.75mm

• Rethreader Tap Sizes:

1/4", 5/16", 3/8", 7/16", 1/2", & 9/16", UNC 1/4", 5/16", 3/8", 7/16", 1/2", & 9/16", UNF 6x1.00, 8x1.25, 10x1.25, 10x1.50, 12x1.25, 12x1.5, 12x1.75mm

• Description Pitch Sizes:

Metric file 0.75, 1.00, 1.25, 1.75, 2.00, 2.50 and 3.0mm SAE file 11, 12, 13, 14, 16, 18, 20, and 24 SAE file 9, 10, 12, 16, 20, 27, 28 and 32

 6/11.0/12.0/0.7'

 1833g

External thread restorer files

66901 / 66902 / 66903



66901 Contents:

Metric file / Pitch size : 0.75; 1.00; 1.25; 1.50; 1.75; 2.00; 2.50; 3.00

66902 Contents:

SAE file / Pitch size : 11; 12; 13; 14; 16; 18; 20; 24

66903 Contents:

SAE file / Pitch size : 9; 10; 12; 16; 20; 27; 28; 32

• Rostore tool for renewing damaged thread on any diameter bolt, stud, axle of shaft file, both right and left threads.

 72/15.0/16.0/1.2'

 208g



External & internal restorer file

9U1101 / 9U1102



- Restorer tool for renewing damaged thread on bolt, stud, axle or shaft of any diameter. File both right and left hand threads.
- Designed for use in hidden & narrow area.
- Description pitch sizes:

9U1101

Metric File : 0.80-1.00-1.25-1.50-1.75-2.00-2.50-3.00

9U1102

SAE file : 24-20-18-16-14-12-11-10



 120/19.7/20.7/1.7'  164g

7pc Square thread tap set

907U2



SAE:

- 1 : 4N, 5N, 6N, 7N
- 2 : 7-1/2N, 9N, 11N, 11-1/2N
- 3 : 8N, 10N, 12N, 14N
- 4 : 16N, 18N, 20N, 24N

Metric:

- 5 : 1P, 1.25P, 1.5P, 1.75P
- 6 : 2P, 2.5P, 3P, 3.5P
- 7 : 4P

 100/14.2/15.2/0.61'  142g

4pc Nut splitter set

672



Contents:

- 6720912 1pc 5/16" to 1/2" (9-12mm)
- 6721216 1pc 1/2" to 5/8" (12-16mm)
- 6721622 1pc 5/8" to 7/8" (16-22mm)
- 6722227 1pc 7/8" to 1-1/8" (22-27mm)

 12/18.5/19.5/0.87'  1540g



Universal nut cracker

9U1001



- Splits most stubborn nuts 7/16" (11mm) through 3/4" (19mm) across the flats.
- Works in channels not accessible by other tools.
- Parallel action of pusher cracks nuts without damaging bolt threads. Chisel rotates 360° to line up parallel to bolt. Simply tighten the screw until the nut splits.
- With a rugged drop-forged frame.
- Do not use on heat-treated nuts.
- Length: 6-3/4" serviceable product.



 24/15.5/16.5/1'

 645g

Recoilless hammer (head-replaceable)

616A



| Part no. | <i>l</i> mm |  g |  packing |
|----------|----------------|--|---|
| 616A025 | 25 | 389 | 48/16/18/1.24' |
| 616A030 | 30 | 435 | 72/23/25/1.3' |
| 616A035 | 35 | 505 | 48/26/28/1.4' |
| 616A040 | 40 | 606 | 24/21/23/0.92' |
| 616A045 | 45 | 865 | 24/24/26/1.1' |
| 616A050 | 50 | 952 | 24/27/29/1.26' |
| 616A055 | 55 | 1038 | 18/22/24/1.3' |
| 616A060 | 60 | 1125 | 18/22/24/1.3' |

- Steel handle with positive plastic grip.
- PU-material strike faces.
- Both strike faces can be repeatedly changed if broken.

Soft face hammer

616A400



- Hammer head: 1 yellow PU + 1 white Nylon
- Handle: natural color hickory

 48/19.9/21.8/1.62'

 415g



■ **Soft face hammer**

616A700



- Hammer head: black TPR & transparent yellow acetate head
- Handle: 1.4mm harden tubular steel handle, PVC ring & A type PVC grip

 24/20.2/21.4/0.91'  842g

■ **Brass taper punch 3/8", 5/8" hex**

606B200



- Length: 8"(200mm)

■ **5pc Chisel set**

50510



Contents:

602 10150...22200 5-Chisel
 10(150mmL); 12(150mmL);
 15(180mmL); 19(200mmL);
 22(200mmL)

 30/26.6/27.6/0.5'  887g

■ **6pc Pin punch set**

50613



Contents:

604 2140...8215 6-Pin punch
 2mm (140mmL); 3mm (150mmL)
 4mm (190mmL); 5mm (200mmL)
 6mm (210mmL); 8mm (215mmL)



 30/16.7/17.7/1.3'  540g

GENERAL

Ribbed (Cold) chisel

602...C



| Part no. | Size | <i>l</i> |  |
|-----------|------|----------|---|
| | mm | mm | g |
| 60218125C | 18 | 125 | 90 |
| 60221150C | 21 | 150 | 155 |
| 60226200C | 26 | 200 | 320 |
| 60229250C | 29 | 250 | 470 |
| 60234300C | 34 | 300 | 750 |

Ribbed (Cold) chisel with sheath handle

602...Q



| Part no. | Size | <i>l</i> |  |
|-----------|------|----------|---|
| | mm | mm | g |
| 60229250Q | 29 | 250 | 540 |
| 60234300Q | 34 | 300 | 820 |

6pc Chisel & punch set (long type, interchangeable)

906U1



Contents:

1pc Main handle / 1pc Flat chisel 13mm

1pc Center punch 3mm / 3pc Pin punch 3; 4; 5mm

• Material and shape: Main handle made by carbon steel; bits made by chrome-vanadium. All shank 10mm hex with two grooves.

• Comfortable and protective handle

• Double locking device holding tight

• Save space, time and money

• Create high efficiency

Warning: Wear safety goggles when in use; chisel and punch shanks have to be inserted to hole bottom.

 48/31.2/32.2/3.3'

 650g



15pc Chisel & punch set (interchangeable)

915U3



- Material and shape: Main handle made from Chrome-Vanadium; Bits made by Chrome-Vanadium. All shank 13mm hex with two grooves.
- Comfortable and protective handle
- Double locking device holding tight

Warning: Wear safety goggles when in use; chisel and punch shanks have to be inserted to hole bottom.

 10/22.5/23.5/1.8'  2250g

15pc Hammer chisel & punch set (interchangeable)

915U4



- Material: Main hammer made from drop forged carbon steel; bits made by chrome-vanadium.
- Safe and comfortable handle of hammer.
- Double locking device holding tight

Warning: Wear safety goggles when in use; chisel and punch shanks have to be inserted to hole bottom.

 10/24.0/25.5/2.4'  2400g

13pc Tungsten carbide tipped metal borer set

913U1 / 913U2



- Use the same arbor for saw heads of different sizes.
- Change saw heads with a simple push and turn the fixed screw.
- H.S.S. center drill is replaceable.
- Shank size of the arbor is 3/8".
- Spring can help slug removal.

Contents:

- 1pc Arbor
- 1pc Spring
- 2pc H.S.S center pilot drill 75; 84 mm
- 2pc Hex key 3; 4.0 mm

913U1 7pc Saw head 19; 22; 25; 28; 30; 32; 35 mm

913U2 7pc Saw head 30; 32; 35; 38; 40; 45; 51 mm

 10/15.7/16.7/1.4'  1570g

■ Tapered reamer

9U0901 / 9U0902



- Ream, deburr, align, and enlarge holes. T-handle makes turning easy.
- Reamer is made of high-grade heat-treated tool steel for long life.
- To avoid damage tool, it must always be turned clockwise. The use of cutting oil is recommended.



9U0901 Capacity: 1/8" to 3/8" (3mm to 10mm)

9U0902 Capacity: 5/32" To 17/32" (4mm To 31mm)

| Part no. |  packing |  g |
|----------|---|---|
| 9U0901 | 240/16.8/17.8/1.4' | 70 |
| 9U0902 | 48/16.6/17.6/1.3' | 345 |

■ Rivet pliers

67801



| Part no. |  packing | <i>l</i> mm |  g |
|----------|---|-------------|--|
| 67801 | 20/15.7/16.7/2.1' | 180 | 785 |

■ Grade nut fastener

67802



| Part no |  packing | <i>l</i> mm |  g |
|---------|--|-------------|---|
| 67802 | 20/11.6/12.6/2.1' | 280 | 582 |

• Size:M3, M4, M5, M6

■ Grey cast iron bench vise (without base)

65401



| Part no. | Jaw open | Throat depth |  packing |
|----------|----------|--------------|---|
| 6540104 | 4" | 2-5/8" | 1/12.2/13.2/0.43' |
| 6540105 | 5" | 3-1/4" | 1/13.7/14.7/0.6' |
| 6540106 | 6" | 3-3/4" | 1/19.6/20.6/0.82' |
| 6540108 | 8" | 4" | 1/26.8/27.8/0.97' |



■ All steel swivel base vise

65402



| Part no. | Jaw | Throat |  |
|---|------|--------|---|
| | open | depth | packing |
| 6540204 | 4" | 2-1/4" | 1/7.5/8.5/0.4' |
| 6540205 | 5" | 2-5/8" | 1/10.8/11.8/0.6' |
| 6540206 | 6" | 3" | 1/14.8/15.8/0.8' |
| 6540208 | 8" | 3-1/2" | 1/20.4/21.4/1.2' |
| 6540210  | 10" | 4" | 1/25.8/26.8/1.5' |

■ Drilling press vise

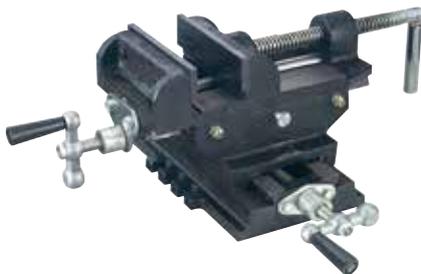
65404



| Part no. | Jaw | Throat |  |
|----------|--------|--------|---|
| | Open | Depth | Packing |
| 6540403 | 2-3/4" | 3/4" | 2/3.2/4.2/0.16' |
| 6540404 | 4" | 1" | 2/6.2/7.2/0.24' |
| 6540405 | 5" | 1" | 2/11.0/12.0/0.3' |
| 6540406 | 5-1/2" | 1" | 2/13.5/14.5/0.43' |

■ Cross vise

65405



| Part no. | Jaw |  |
|----------|------|---|
| | Open | Packing |
| 6540503 | 3" | 1/6.2/7.2/0.31' |
| 6540504 | 4" | 1/10.0/11.0/0.44' |
| 6540505 | 5" | 1/13.5/14.5/0.5' |
| 6540506 | 6" | 1/16.5/17.5/0.65' |

■ Forged steel bench vise

65406



| Item No. | Jaw opening | Weight (kg) | Packing |
|----------|-------------|-------------|-------------------|
| 6540604 | 4" | 8.4 | 1/8.4/9.4/0.3' |
| 6540605 | 5" | 12.5 | 1/11.5/12.5/0.63' |
| 6540606 | 6" | 20.5 | 1/19.5/20.5/1.02' |

Heavy duty bench vise

65402..A



| Part no. | Size | Weight(kg) | packing |
|----------|------|------------|-------------------|
| 6540204A | 4" | 7.7 | 1/7.3/8.3/0.36' |
| 6540205A | 5" | 11.2 | 1/11/12/0.48' |
| 6540206A | 6" | 14.5 | 1/14/15/0.57' |
| 6540208A | 8" | 19.2 | 1/19.2/20.2/0.91' |
| 6540210A | 10" | 25.6 | 1/27/29/1.4' |

The nut and the base are one-piece forged, instead of being jointed together later by screws.
The strengthened structure ensures the firm and steady joint between the base and the lead screw, and thus the jaws can provide you with powerful and sturdy grip to weighty pieces.

Heavy duty ductile octagonal supporting vise

65407...



| Part no. | Size | Weight(kg) | packing |
|----------|------|------------|---------------|
| 6540706 | 6" | 28 | 1/27/28/0.85' |
| 6540708 | 8" | 40.5 | 1/41/42/1.43' |

The nut fits completely into the jaw. The nut which is not movable mates and works precisely with the lead screw.

Heavy duty ductile square supporting vise

65408....



| Part no. | Size | Weight(kg) | packing |
|----------|------|------------|------------------|
| 6540804 | 4" | 15 | 1/15/16/0.5' |
| 6540805 | 5" | 17 | 1/17/18/0.53' |
| 6540806 | 6" | 18.6 | 1/18.6/19.6/0.6' |

The nut fits completely into the jaw. The nut which is not movable mates and works precisely with the lead screw.

Scriber of wolfram steel

87901



| Part no. | <i>l</i> mm | g |
|----------|----------------|-------|
| 87901 | 145 | 20 |

- Include one tungsten lead and one carbon lead.



■ **Straight shears**

5055P1



| Part no. | Cutting Length | <i>l</i> mm | g | packing |
|----------|----------------|----------------|-------|---------------|
| 5055P1 | 51mm | 265-10.5" | 480 | 36/17/18/1.3' |
| 5055P112 | 70mm | 305-12" | 650 | 24/21/23/1.2' |

■ **Aviation tin snips**

698

6981250



698L248



698R248



| Part no. | Direction | <i>l</i> mm | <i>l</i> CuttingL | g | packing |
|----------|--------------|----------------|----------------------|-------|----------------|
| 6981250 | Straight cut | 250 | 38mm | 400 | 60/24/15/1.86' |
| 698L248 | Left cut | 248 | 35mm | 400 | 60/24/25/1.86' |
| 698R248 | Right cut | 248 | 35mm | 400 | 60/24/25/1.86' |

■ **Stainless steel pvc pipe cutter**

65607



- For 40mm O.D. PVC pipe
- Part: Cutting wheel (**65607-B**)
- Weight:490g
- Length:225mm



30/16.2/17.2/2.2'

540g

■ **Locking pliers (straight jaw)**

614A



| Part no. | <i>l</i> mm-inch | packing | g |
|----------|---------------------|--------------------|-------|
| 614A175 | 175-7" | 40/16.4/17.4/0.96' | 380 |
| 614A250 | 250-10" | 40/23.2/24.2/1.0' | 580 |

Locking pliers (V-jaw)

614B225



| Part no. | <i>l</i> mm-inch |  packing |  g |
|----------|---------------------|--|--|
| 614B225 | 225-9" | 40/23.0/24.0/1' | 575 |

Locking pliers

614



| Part no. |  packing | <i>l</i> mm |  g |
|----------|---|----------------|--|
| 614125 | 40/7.6/8.6/0.7' | 125-5" | 190 |
| 614175 | 40/14.8/15.8/0.96' | 175-7" | 370 |
| 614250 | 40/22.0/23.0/1' | 250-10" | 550 |

Long nose locking pliers

615



| Part no. |  packing | <i>l</i> mm |  g |
|----------|---|----------------|--|
| 615150 | 50/10.3/11.3/1.1" | 150-6" | 220 |
| 615225 | 50/19.5/20.5/1.2" | 225-9" | 390 |

Adjustable locking pliers

65202



| Part no. | Jaw mm | <i>l</i> Length |  g |
|----------|-----------|--------------------|--|
| | 3-46 | 9"(215mm) | 400 |



- For clamping plumbing and worn screws
- Can be adjusted for clamping small to large screws
- Smooth and fast screw clamping and releasing
- Material: Jaw Cr-Mo; Body: Cr-Mo

 50/20/21/1'

 400g



Wire twisting pliers

6958



| Part no. | <i>l</i> mm | g | Packing |
|----------|----------------|-------|-------------------|
| 6958160 | 160 | 220 | 80/19.0/20.0/1.1' |
| 6958225 | 225 | 360 | 60/22.1/23.1/1.1' |



Wire rope cutter

6959180



| Part no. | <i>l</i> mm | g | Packing |
|----------|----------------|-------|-------------------|
| 6959180 | 180 | 280 | 60/17.0/18.0/1.1' |

Parallel jaw lock ring pliers

9T0101



- Features heavy drop forged 10" external action lock ring pliers
- Features compound leverage action.
- The thin jaws are notched to securely hold snap rings and they open in a parallel plane.
- Ideal for working on automatic transmissions.
- Spread: 1.1/16" (27mm)
- Length: 10" (250mm)



36/14.2/15.2/1.7'

395g

Straight tip lock ring pliers

9T0103



- Features heavy drop forged tips with wider opening for standard transmissions.
- Tip: flat, straight, serrated.
- Spread: 1-1/2" (38mm)
- Length: 9" (230mm)

48/14.6/15.6/0.75'

300g

Angled tip lock ring pliers

9T0104



- Features heavy drop forged tips with wider opening for standard transmissions.
- Tip: flat, angled, serrated.
- Spread: 1-1/2"(38mm)
- Length: 9"(230mm)

48/14.4/15.4/0.75' 300g

Internal lock ring pliers

9T0105



- Wide flat jaws designed for easy removal of lock rings on transmissions, differentials, shafts etc.
- Spring return handles.

36/14.6/15.6/0.8' 400g

Snap ring pliers (internal 90° bent tip)

609...ABC



| | Capacity | Tip | | <i>l</i> | |
|----------|----------|-----|-------------------|----------|-----|
| Part no. | mm | mm | packing | mm | g |
| 60905ABC | 8-25 | 1.3 | 30/2.4/3.4/0.44' | 140-5.5" | 80 |
| 609ABC | 19-60 | 1.9 | 30/4.5/5.5/0.7' | 180-7" | 150 |
| 60909ABC | 40-100 | 2.3 | 30/9.0/11.0/1.2' | 230-9" | 300 |
| 60912ABC | 85-165 | 3.2 | 25/11.6/12.6/0.9' | 310-12" | 465 |

- 60912ABC is without a spring.

Snap ring pliers (external 90° bent tip)

609...ABO

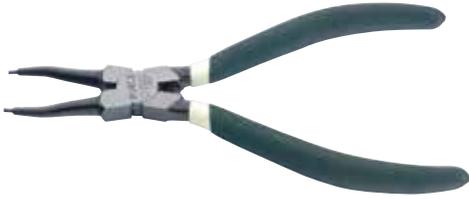


| | Capacity | Tip | | <i>l</i> | |
|----------|----------|-----|-------------------|----------|-----|
| Part no. | mm | mm | packing | mm | g |
| 60905ABO | 8-25 | 1.3 | 30/2.4/3.4/0.44' | 140-5.5" | 80 |
| 609ABO | 19-60 | 1.9 | 30/4.5/5.5/0.7' | 180-7" | 150 |
| 60909ABO | 40-100 | 2.3 | 30/9.0/11.0/1.2' | 230-9" | 300 |
| 60912ABO | 85-165 | 3.2 | 25/12.8/13.8/0.9' | 310-12" | 510 |



■ Snap ring pliers (internal straight tip)

609...ASC



| Part no. | Capacity | Tip |  | <i>l</i> |  |
|----------|----------|-----|---|----------|---|
| | mm | mm | packing | mm | g |
| 60905ASC | 8-25 | 1.3 | 30/2.4/3.4/0.44' | 140-5.5" | 80 |
| 609ASC | 19-60 | 1.9 | 30/4.5/5.5/0.7' | 180-7" | 150 |
| 60909ASC | 40-100 | 2.3 | 30/9.0/11.0/1.2' | 230-9" | 300 |
| 60912ASC | 85-165 | 3.2 | 25/11.7/12.7/0.9' | 310-12" | 470 |

• 60912ASC is without a spring.

■ Snap ring pliers (external straight tip)

609...ASO



| Part no. | Capacity | Tip |  | <i>l</i> |  |
|----------|----------|-----|---|----------|---|
| | mm | mm | packing | mm | g |
| 60905ASO | 8-25 | 1.3 | 30/2.4/3.4/0.44' | 140-5.5" | 80 |
| 609ASO | 19-60 | 1.9 | 30/4.5/5.5/0.7' | 180-7" | 150 |
| 60909ASO | 40-100 | 2.3 | 30/9.0/11.0/1.2' | 230-9" | 300 |
| 60912ASO | 85-165 | 3.2 | 25/12.3/13.3/0.9' | 310-12" | 490 |

■ Internal snap ring pliers (long arm)

9U0102



- Special design for the retaining ring in the deep hole.
- The most deep size: 56mm

 48/11.5/12.5/2.0'  240g

■ 3pc Heavy-duty lock ring pliers set

903U1



- Serrated angled flat tips retaining screws.
- Designed for heavy-duty service on external lock rings used in truck and tractor transmissions.
- Replaceable tips.
- Extra leverage from long spring loaded handles.
- Spread: 3" (75mm)
- Length: 14" (355mm)



 36/21.5/23/1.4'  545g

4pc Internal-external snap ring pliers set

904U3



- Effective range: 10 – 50 mm (3/8” – 2”)
- Includes four pieces exchangeable tips
- 2pc straight tips
- 1pc 90° angled tips
- 1pc 45° angled tips
- Jaws can be exchanged easily for 6 internal-external different purposes.



 60/12/14/2.5'

 200g

12pc Internal-external circlip pliers set

912U1



- Feature replaceable points and spring ratchet locking mechanism to securely hold against circlip tension.
- Internal: 3-1/16" - 6-1/4"
- External: 3-1/2" - 6-1/2"
- Tip diameter: 0.12" (3mm)
- Spread: 3-1/4" (85mm)
- Length: 16" (400mm)

 6/19.8/20.8/2.3'

 3300g

20pc Internal-external circlip pliers set

920U2



- Feature replaceable tips and spring ratchet locking mechanism to securely hold against tension. Offset tips make it easier to facilitate circlip.
- Internal: 2-1/16” – 6-1/4”
- External: 3-1/2” – 6-1/2”
- Replaceable tips:

| Qty | Tip size | Tip angle |
|-----|----------|-----------|
| 2 | 0.108 | 0° |
| 2 | 0.108 | 15° |
| 2 | 0.108 | 45° |
| 2 | 0.108 | 90° |
| 2 | 0.120 | 0° |
| 2 | 0.120 | 15° |
| 2 | 0.120 | 45° |
| 2 | 0.120 | 90° |

 10/13.5/15.0/1.6

 1.35kg



10pc Universal locking tool set

910U3



- The multipurpose 9-1/2" pliers with five attachments.
- Parts are interchangeable depending on the desired functions and purpose.

 10/13.1/14.1/1.3'  1310g

Pipe wrench

684



| Part no. |  packing | <i>l</i> Length |  g |
|----------|---|--------------------|---|
| 68408 | 36/14.0/15.0/0.4' | 200-8" | 390 |
| 68410 | 24/17.0/18.0/0.4' | 250-10" | 710 |
| 68412 | 24/23.0/24.0/0.5' | 300-12" | 960 |
| 68414 | 12/16.0/17.0/0.4' | 355-14" | 1340 |
| 68418 | 12/25.0/26.0/0.6' | 455-18" | 2090 |
| 68424 | 6/22.0/23.0/0.7' | 610-24" | 3670 |
| 68436 | 3/25.0/26.0/1.1' | 863-36" | 8340 |
| 68448 | 2/24.0/25.0/1.0' | 1220-48" | 12000 |



Aluminum pipe wrench

684...A



| Part no. |  packing | <i>l</i> Length |  g |
|----------|---|--------------------|---|
| 68410A | 24/11.0/12.0/0.4' | 250-10" | 460 |
| 68412A | 24/17.0/18.0/0.4' | 300-12" | 700 |
| 68414A | 24/21.5/22.5/0.5' | 355-14" | 895 |
| 68418A | 12/18.0/19.0/0.9' | 455-18" | 1500 |
| 68424A | 6/14.0/15.0/0.7' | 610-24" | 2330 |
| 68436A | 3/14.0/15.0/1.1' | 863-36" | 4660 |
| 68448A | 2/13.0/14.0/1.0' | 1220-48" | 6500 |



Pipe wrench

684C



| Part no. | size inch | <i>l</i> Length |  packing |  g |
|----------|--------------|--------------------|---|---|
| 684C14 | 1 | 350mm(14") | 20/15.8/16.8/0.78' | 790 |
| 684C17 | 1-1/2 | 440mm(17") | 16/23.2/24.2/1.7' | 1450 |
| 684C22 | 2 | 560mm(22") | 8/18.8/19.8/1.6' | 2350 |

■ Pipe torque wrench

647P...



| Part no. | Torque | <i>l</i> |  |
|----------|---------|----------|---|
| | Nm | mm | kg |
| 647P210 | 40-210 | 590 | 3 |
| 647P350 | 70-350 | 825 | 3.7 |
| 647P500 | 100-500 | 920 | 4.3 |

*Accuracy:±-6%

■ Pipe gripping pliers

6957240



| Part no. |  | <i>l</i> |  |
|----------|---|----------|---|
| | Packing | mm | g |
| 6957240 | 60/19.2/20.2/1.6' | 240 | 320 |

■ 10pc Tubing cutter & double flaring tool set

656A / 656AM



Contents:

1-Flaring tool

1-Flare bar

Size of flare bar and adapters:

S.A.E.: 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8"

1-Heavy duty tube cutter: 1/8"-1/18"

- This 2-in-1 flaring tool set is designed to withstand the high pressures necessary to double flare soft steel tubing, as well as, single flare soft copper, aluminum and brass tubing. Automotive 45°.

656AM Changed item

1-Flare bar

Size of flare bar and adapters:

Metric: 4-4.75-6-8-10-12-14mm

1-Heavy duty tube cutter: 4-28mm



7pc Double flaring tool kit

656F



Contents:

- 1-Flaring tool
- 1-Flare bar: includes 5 size:
S.A.E.: 3/16", 1/4", 5/16", 3/8" & 1/2"
- 5-Flare adapters:
S.A.E.: 3/16", 1/4", 5/16", 3/8" & 1/2"

This 45° double flaring tool is designed for S.A.E. size tubing and will withstand pressure that is necessary for double flare tubing up to 1mm wall thickness. Tool can be used as a single flaring tool.

10pc Tubing cutter and double flaring tools kit

656 / 656M



- 1pc Tubing cutter.
- 1pc 9/16" Screen bar.
- 7pc Adaptor 3/16"; 1/4"; 5/16"; 3/8"; 7/16"; 1/2"; 5/8"

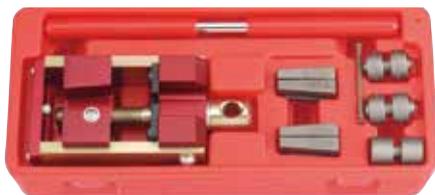
656M Changed item:

- 7pc Adaptor 4; 6; 8; 10; 12; 14; 16 mm

 10/16.1/17.1/1'  1610g

Professional universal flaring tool

906T2



- Tool works in two steps for thin walled steel, aluminum or copper pipes.
- For dimensions of 3/16"(4.75mm) and 1/4" (6mm)
- Fast manual flaring tool with minimal material wastage.



 4/22.0/23.0/2'  4300g

Hydraulic flaring tool kit

656B



- SAE:3/16";1/4"
- DIN:3/16"; 1/4"



 6/15/16/1.5'

 2330g

Hydraulic flaring tool kit

656BM

NEW



- Use in-site on the vehicle and suitable for producing SAE (3/16" & 1/4") and DIN 45 degree (3/16" & 1/4") flares.
- Capable of working on steel brake pipes.
- Complete with reamer for de-burring.
- 4.75; 5; 6 mm



 6/15.5/16.3/1.4'

 2584g

3-in-1 Tubing bender

653



| Part no. | Application |  packing |  g |
|----------|-----------------|---|---|
| | size | | |
| 65301 | 6;8;10mm | 50/17.4/18.4/2' | 348 |
| 65302 | 1/4";5/16";3/8" | 50/19.5/20.5/2' | 390 |



180° 3-in-1 Tube bender

653180



- Quality aluminum body
- Three size tube bender
Inch: 1/4", 5/16", 3/8"
Metric: 6mm, 8mm, 10mm

 20/10.9/11.9/2'

 545g



Breakline bending pliers

65303



- SIZE: 3/16", 1/4"



 50/20.5/21.5/0.85'  420g

Tubing bending pliers

65305



- For bending brass, copper, aluminum and steel tubing.
- Tubing bender pliers feature one rollers.
- One roller accepts 3/16" / 1/4" / 5/16" / 3/8" (4.8 / 6.4 / 7.9 / 9.5mm) O.D. tubing.

 8/20.0/21.0/0.8'  2500g

Iron pipe cutter

65605



NEW

- For 1/8"-2" (12mm-50mm) O.D. iron pipe
- Part: Cutting wheel (**65605-B**)
- 43cm
- 3100g

 6/18.6/19.6/1.9'  3100g

Telescopic tubing cutter

65601



- Hardened cutting wheel.
- Tapered burr remover.
- Cuts copper, brass, aluminum & mild steel tubing 1/8" to 1-1/8" (3-29mm) outside diameter.



 60/17/18/2.1'  283g

Mini tubing cutter

65602



- 1/8" to 7/8" (3-22mm) O.D. range.
- Small size allows use in restricted areas.



 100/13.5/14.5/2.2'  135g

Professional tubing cutter

65604



- Solid and durable
- Aluminum alloy body
- High grade SUJ2 steel blade
- With deburring reamer.
- Capacity: 4-28mm (1/8"~1-1/8")
- For copper, brass and aluminum tubing.

 60/16.8/17.8/1.8'  280g

Telescopic tubing cutter

65608



- For 1/8"-1 1/4"(3-32mm) O.D. tube,sk-2(1+1)

 60/17.0/18.0/2'  270g

Ratchet tube cutter

656



| Part no. | mm |  packing |  g |
|----------|-------|---|---|
| 65631 | 8-28 | 36/16.5/17.5/2.14 | 460 |
| 65632 | 28-67 | 12/13/13.5/0.84 | 1080 |

*Quick and easy ratchet mechanism make it easy and comfortable to use even in narrow spaces.

*Pipe thickness up to 3mm.



Exhaust pipe and tubing cutter

65603



- Cuts thin walled steel and copper tubing from Ø20mm to Ø75mm (3/4"-3").
- Cuts quickly and easily.
- Fitted with 7 cutting blades for fast, clean cutting.



 30/17.6/18.6/1.1'  586g

Inside/ Outside deburring tool

65304



NEW

- 3/16"-1 1/2" O.D, plastic body



 120/5.0/6.0/2.5'  35g

Steel wire rope cutter

6927310



NEW

- For cutting steel wire rope up to 7mm mild steel rod up to 5mm.
- For cutting copper and aluminum cable up to 60 mm².
- Length: 310 mm.

Steel wire rope cutter

6927600



NEW

- For cutting steel wire rope up to 14 mm mild steel rod up to 9 mm.
- For cutting copper and aluminum cable up to 150 mm².
- Length: 600 mm.

Bolt cutter

9U0501



| Part no. |  packing | <i>l</i> Length |  g |
|----------|--|-----------------|---|
| 9U050112 | 20/16.6/17.6/2.1' | 300-12 | 830 |
| 9U050114 | 20/24.0/25.0/1.9' | 355-14" | 1200 |
| 9U050118 | 15/24.2/25.2/2.3' | 455-18" | 1613 |
| 9U050124 | 8/19.0/20.0/2.7' | 610-24" | 2375 |
| 9U050130 | 6/23.8/24.8/2.1' | 762-30" | 3967 |
| 9U050136 | 5/30.4/31.4/1.8' | 863-36" | 6080 |
| 9U050142 | 3/28.0/29.0/2' | 1066-42" | 9330 |

Micrometer

5096P9..



5096P9050~5096P9100

| Part no. | Specification | Packing |
|-----------|---------------|---------------|
| 5096P9025 | 0-25mm | 50/15/16/0.6' |
| 5096P9050 | 25-50mm | 50/25/26/0.8' |
| 5096P9075 | 50-75mm | 30/24/25/1.2' |
| 5096P9100 | 75-100mm | 25/20/21/1' |

Multi-function magnetic pick-up

617



- Magnetic pick-up tool in telescopic extended, maximum 63cm extension.
- Take off the cap of bottom, the needle point head can be used for marking when draw a line or clean the narrow slot and small hole.
- Attach a fully adjustable mirror for inspection.
- All in one handy tool with pocket clip.



 100/8.9/9.9/1.1' *l* 235mm  89g



Multi-function inspection tool

617A



- 1pc Aluminum interchangeable handle
- 1pc Inspection mirror
- 1pc 6-lbs Magnetic retriever
- 1pc 10" Flexible adapter
- 1pc 9" 135 degree bended adapter
- 1pc 8" Straight adapter
- 1pc UV light
- 1pc LED light



 40/19.2/20.2/0.8'  480g

3-in-1 Magnetic flexible pickup tool with light & mirror

617L



- Positive action turn on / off switch
- Magnetic pick-up 3.5lbs. (1.6kgw)
- Flexible shank of dia. 8.5mm and length 455mm(17-7/8")
- Oval glass mirror 25 x 50mm (1-1/8"x2")
- Replaceable bulb (2.2V, 0.25A)
- Inspection light is operated with 2pc AA batteries (not included)

 72/15.1/16.1/2'  210g



Hinged flexible inspection mirror

61703

NEW

- Mirror: 50X70mm
- Length: 510mm



 36/11.0/12.0/2.3'  300g

Palm flash light

68609



- Designed for grab the tools to light up the narrow or hard-to reach space
- It is magnetic on the back.



 150/2.4/3.4/0.4'  16g

■ Infrared thermometer

9U0401



- Laser indicator.
- Changeable between: °C and °F
- Temperature range: -20 to 500°C
- Operating temperature: 0 to 50°C
- Storage temperature: -20 to 50°C
- Precision: ±2.5% or 3°C
- Distance-to-Spot: 10:1
- Power supply: 9V battery

 20/3.5/4.5/2'

 175g

■ 14 LED Work light with magnifying head

68610



- LED white light bulb.
 - 3x magnifying glass.
 - Magnifying glass's diameter is 4".
 - Could be supplied power by the two kinds of options which are the 2 pcs of AAA battery or AC transformer
 - Magnetic base attaches firmly to any metal surface.
 - Power: AAA battery x 2 (1.5V/pc).
- Transformer (Input : AC100V / AC240V ; Output : DC4.5V).



 20/18.5/20.0/2.7'

 925g

■ LED white light, clip-type (360° rotation)

68601



 120/7.3/8.3/1.9'

 61g



Limber magnetic LED light

68602



 120/10.2/11.7/3.5'  85g



Magnetic LED head light

68603



 100/12.7/13.7/3.55'  127g

30LED Cordless work light

68605



- Continuously used for about 8 hours when fully charged.
- Uses 4.8V 2000mAh AA Nickel-metal-hydride (NiMH) batteries.
- Magnetic base attaches easily to any ferrous surface.

 20/19.2/20.2/2.8'  960g



60LED Cordless work light

68606



- Continuously used for about 3-4 hours when fully charged
- Uses 4.8V 2000mAh AA Nickel-metal-hydride (NiMH) batteries
- Magnetic base attaches easily to any ferrous surface

 20/27.2/28.2/1'  1360g



10W LED working light

68608



- Size: 330 x 95 x 100 mm
- Charging time: 3.5~4 hours
- Input power: AC 100~240V, DC 12V~24V
- Battery: 3.6V 2250mAh NI-MH
- Working time: 4 hours when fully charged
- Activetime: 2.5 hours



 20/12.0/13.0/1.6'  490g

Flash Light

68607



- 6 LEDS
- Battery: AAA x 3pc
- Size: 36*28*95 mm

 30/6.6/7.6/0.4'  220g

EZ-release magnetic pick-up

88011



- 680mmL(26-3/4")
- Capacity: 8 LBS (3.63 kg)

Functions:

- EZ- Release magnetic pick up tool has a magnetic device that is able to attract any metallic items or spare parts laying on the floor without having to go through the trouble and pick them up one by one.



 12/8.0/9.0/2.1'  660g

Midi EZ-release magnetic pick-up

88012



- 110x110x190mm
- Capacity: 10 LBS (4.54 kg)

Functions:

- Easy pick-up and release of metallic materials.
- Just squeeze the handle to quickly release material.



 24/15.1/16.6/2.5'  630g



Power EZ-release magnetic pick-up

88013



- 400mmL(15-3/4")
- Capacity: 14 LBS (6.36 kg)



Functions:

- Quickly and safely clean up iron, steel chips and waste. Used for safe handling of sharp off cuts, separating small parts and steel scrap for nonferrous surfaces.

20/12.8/13.8/2.9' 640g

Heavy-duty flexible magnet pick-up tool

61701



- Flexible shank diameter 8.5mm; 440mmL
- With plastic PVC grip
- Magnetic Capacity: 3.5Lbs(1.6Kgw)
- Overall length: 535mm(21")



100/19/20/1.9' 190g

Flexible magnet pick-up tool

61702



- Flexible shank diameter 5.0mm; 400mmL
- With plastic PP grip
- Magnetic Capacity: 1.5Lbs(0.7Kgw)
- Overall length: 510mm(20")



72/11/12/1.8' 150g

Telescopic magnetic pick-up tool

88902



NEW

- 7-section extension rod.
- Length: 135 mm - 65 mm.
- Magnetic capacity: 3.5LBS (1.6kg).
- With pocket clip.



200/12.0/13.0/1.2' 60g

Demagnetizer / Magnetizer

88601



- Size: 5cmx5cmx3cm

 120/16.6/17.6/1.3'  140g

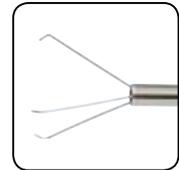
3-Claw pick-up tool

88901



- Length:560mmL

 150/15.1/16.1/1.2'  100g



Magnetic fender cover with 4 pockets

88801



- Size:110cmx56cm
- Front cover made with PVC Sponge leather, backing is TR/BRUSH which does not damage or scratch any surface
- Top row includes STRONG magnets, which attract and stay on any metal surface easily.
- Easy to open and fold into compact size.
- The magnets are removable and replaceable before and after washing the fender cover.

 17/16.7/17.7/4'  980g



Magnetic fender cover w/o pockets

88802



- Size:110cmx56cm
- Front cover made with PVC Sponge leather, backing is TR/BRUSH which does not damage or scratch any surface
- Top row includes STRONG magnets, which attract and stay on any metal surface easily.
- Easy to open and fold into compact size.
- The magnets are removable and replaceable before and after washing the fender cover.

 18/13.2/14.2/4'  734g



Magnetic fender cover w/o pockets

88803



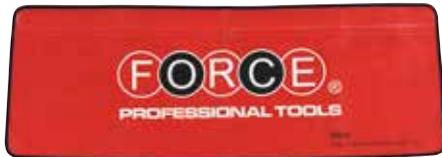
- Size: 80cmx60cm
- Front cover made with PVC Sponge leather, backing is TR/BRUSH which does not damage or scratch any surface
- Top row includes STRONG magnets, which attract and stay on any metal surface easily.
- Easy to open and fold into compact size.
- The magnets are removable and replaceable before and after washing the fender cover.

 18/10.2/11.2/4'

 566g

Magnetic fender cover w/o pockets

88804



- Size: 108cmx39cm
- Front cover made with PVC Sponge leather, backing is TR/BRUSH which does not damage or scratch any surface
- Top row includes STRONG magnets, which attract and stay on any metal surface easily.
- Easy to open and fold into compact size.
- The magnets are removable and replaceable before and after washing the fender cover.



 18/11.9/12.9/4'

 660g

Seat cover

G81



- Size: 140mmx70mm

 50/17.3/18.3/1.5'

 350g

Steel creeper

9U0311



- Six wheels make the movements easily.
- The pillow is removable and replaceable.
- Size: 93×50×12 cm

 1/8.0/9.0/1.8'

 8kg

Steel car seat

9U0312



- Size: 40 × 30 × 30 mm
- Tools not included.

 1/7.5/8.5/1.4'

 7.5kg

Steel car seat

9U0313

NEW



- Strong and stable frames.
- Plastic corner for protection

 1/6/6.7/1.08'

 6kg



Air grease gun combination kit

887



- 1pc Air grease gun
- 1pc 1/4" Quick release coupler
- 1pc 1/4" Hose fitting
- 1pc Metallic bend spout
- 1pc 9" High pressure nylon hose
- 1pc Manual operated gun head

Features:

- 360° angle-free rotating & continuous flow.
- Where there is no air source or air hose can't reach, you can change the air gun head to the hand-operated gun head to proceed lubrication by manual operation.

| Part no. | Size | <i>l</i> mm | g | Packing |
|----------|------------------|----------------|-------|----------------|
| 88701 | 14 o.z./400 c.c. | 380 | 2600 | 8/18.2/21.1/2' |
| 88701L | 16 o.z./500 c.c. | 380 | 2775 | 8/19.6/22.7/2' |

Lever type grease gun

88702



- Electric-plated finish for long service life
- Short stroke "lever action" for easy use
- Uses 150 c.c. bulk grease.

20/20.9/22.9/1.9' 1150g

Lever type grease gun

88703



- Electric-plated finish for long service life
- Short stroke "lever action" for easy use
- Uses 200 c.c. bulk grease.

30/24.1/27.5/1.9' 890g

■ Lever type grease gun

88704 / 88704H9



For 88704H9

- Electric-plated finish for long service life
- Short stroke “lever action” for easy use
- Vented head cap for easy filling
- Used standard 14 oz. Grease cartridge
- 3-ways loading: Standard 14 oz. Cartridge, pressure filler and bulk 400 c.c.
- **88704H9** Greasegun-lever type(400c.c) with tlexible hose 9"



20/23.0/26.9/2.3'



1.3kg

■ Oil suction gun (500 c.c.)

887A500

NEW



- Perfect for removing or replacing oil in engine/ transmissions/ differentials gearbox sumps/ crankcases, enables easy access to awkward locations.
- Ideal for vehicle & machinery use
- Knurled thick wall barrel for secure grip
- 10" Flexible hose
- Capacity Bulk:20 oz / 550 cc



20/17.0/18.0/1.4'



850g

■ Metal oil can (350ml)

887C01

NEW



- Angled spout enables lubricating in difficult-to-access locations.
- Robust pump provides trickle feed supply.
- Material of container:steel
- Material of pump:copper
- Volume of container:350 ml



50/15.8/16.8/4.73'



316g



■ Metal oil can with flexible spout (350 ml)

887C02

NEW



- Flexible spout enables lubricating in difficult-to-access locations.
- Robust pump provides trickle feed supply.
- Material of container: steel
- Material of pump: copper
- Material of flex spout: PVC
- Volume of container: 350 ml



 50/15.8/16.8/4.73'  316g

■ Plastic oil can with flexible spout (500 ml)

887C03

NEW



- Flexible spout enables lubricating in difficult-to-access locations.
- Robust pump provides trickle feed supply.
- Material of container: HDPE
- Material of pump: copper
- Material of flex spout: PVC
- Volume of container: 500 ml

 25/5.5/6.3/2.5'  220g

■ Flexible metal funnel

887D01

NEW



- Galvanized steel funnel with metallic flexible spout with mesh filter.
- For filling oil easily at inaccessible area.
- Tube Length : 370 mm

 10/3.4/4.4/2.6'  340g

3/8" DR. Pry bar head

68701



- This adapter gives you the versatility of a pry bar without the storage problems.
- Turn any 3/8" drive ratchet or breaker bar into a rolling pry bar head, then just disassemble them and toss it into your tool box when you're done.

72/7.4/18.4/0.65'

100g

Jumbo pry bar

687



| Part no. | <i>l</i> Length | g | packing |
|----------|--------------------|-------|--------------------|
| 687780 | 780mm-30.7" | 1085 | 20/20/21/0.8' |
| 687910 | 910mm-36" | 1830 | 12/22.0/23.0/0.5' |
| 687910A | 910mm-36" | 1830 | 12/22.0/23.0/0.59' |

Free long pry bar

68790 / 68755



- Auto repair tool.
- Machine repair tool.
- Space saving.
- Easy to carry and store.
- Any end part can be made available at your request.



| Item no. | Slide Shank | Min. Length | Max. Length | Weight (kg) | Moment (kgf.m) | Packing |
|----------|-------------|------------------|------------------|-------------|----------------|--------------------|
| 68790 | 16 mm Hex | 65.5 cm 25.8" | 90.5 cm 35.6" | 2.0 | 50 | 8/16.0/16.8/1.6' |
| 68755 | 13 mm Hex | 42.0 cm 16.5" | 55.5 cm 21.8" | 0.9 | 35 | 20/18.0/19.0/0.94' |



4pc Pry bar

904U5



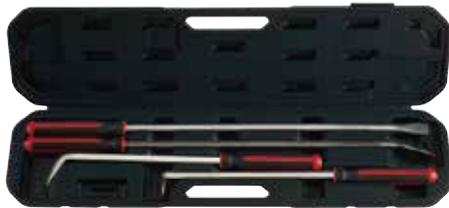
• Size: 8"; 12"; 18"; 24"

 12/17.0/18.0/1.5'

 1420g

4pc Jumbo heavy duty pry bar set

904U2



- Extra large handles allow use of both hands for increased leverage
- Textured handle grips for secure hold
- Chrome Molybdenum steel shafts
- Hardened and tempered for maximum strength
- Heavy duty 5/8" bar stock
- Go-through shafts with steel end caps
- Sizes : 24" x 70°; 24" x 90°; 36" x 35°; 36" straight

 2/17.5/18.5/1.4'

 8730g

Pry bar

687

687450



687445



• Material: S45C

| Part no. | <i>l</i> Length |  g |  Packing |
|----------|--------------------|--|--|
| 687450 | 450mm (17.72") | 923 | 40/26.5/27.5/0.7' |
| 687445 | 400mm (16") | 846 | 20/17.6/18.6/0.7' |

4pc Pry bar set

904U6



- **904U606** - 6";
- **904U612** - 12";
- **904U616** - 16";
- **904U620** - 20"

 10/17/18/1.1'

 1700g

Crowbar with crook beak

687400H

NEW

- Bending tool
- Length : 400mm (16")
- Bended head, hexagonal shank



 40/18.6/19.6/0.47'

 465g

Brass & nylon scrape brushes

9U3001

NEW

- Length : 75mm



 240/8.7/9.7/2'

 36g

Wire brush

9U3003

NEW

- Length : 220mm



 120/7.7/8.7/2.5'

 64g



13pc Extra long combination wrench set

51313



| Part no. | Content... |
|--------------|---|
| 755 8L...24L | 13-Extra long combination wrench 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24 mm |

Extra long combination wrench

755...L



| Part no. | Size | <i>l</i> |  |  |
|----------|------|----------|---|---|
| | mm | mm | Packing | g |
| 75506L | 6 | 128 | 1000/20/21/0.61' | 20 |
| 75507L | 7 | 138 | 600/14.4/15.4/0.5' | 24 |
| 75508L | 8 | 148 | 400/12.8/13.8/0.7' | 32 |
| 75509L | 9 | 160 | 400/14/15/0.7' | 35 |
| 75510L | 10 | 167 | 400/16/17/0.7' | 40 |
| 75511L | 11 | 186 | 200/12/13/0.57' | 60 |
| 75512L | 12 | 196 | 200/16/17/0.59' | 80 |
| 75513L | 13 | 205 | 200/20/21/0.7 | 100 |
| 75514L | 14 | 223 | 200/24/25/0.62' | 120 |
| 75515L | 15 | 233 | 100/14/15/0.42' | 140 |
| 75516L | 16 | 243 | 150/24/25/0.67' | 160 |
| 75517L | 17 | 262 | 100/20/21/0.62' | 200 |
| 75518L | 18 | 272 | 100/22/23/0.62' | 220 |
| 75519L | 19 | 281 | 100/24/25/0.96' | 240 |
| 75520L | 20 | 301 | 50/14/15/0.63' | 280 |
| 75521L | 21 | 301 | 50/15/16/0.63' | 300 |
| 75522L | 22 | 319 | 50/16/17/0.82' | 320 |
| 75523L | 23 | 329 | 50/17 /18/0.82 | 340 |
| 75524L | 24 | 339 | 40/18.8/19.8/0.77' | 470 |
| 75525L | 25 | 358 | 40/19.5/20.5/0.77' | 488 |
| 75526L | 26 | 358 | 40/21/22/0.77' | 525 |
| 75527L | 27 | 388 | 30/21/22/0.97' | 700 |
| 75528L | 28 | 388 | 30/21.5/22.5/0.97' | 717 |
| 75529L | 29 | 404 | 30/23/24/0.97' | 767 |
| 75530L | 30 | 404 | 30/24.6/25.6/0.97' | 820 |
| 75531L | 31 | 431 | 20/22/23/0.69' | 1100 |
| 75532L | 32 | 431 | 20/22/23/0.69' | 1100 |
| 75533L | 33 | 471 | 20/22/23/0.76' | 1100 |
| 75534L | 34 | 471 | 20/24/25/0.76' | 1200 |
| 75535L | 35 | 510 | 10/12.5/13.5/0.58' | 1250 |
| 75536L | 36 | 510 | 10/13/14/0.58' | 1300 |

1. ENGINE



Ignition system tool

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Engine belt tool

Page 1-49 ~ 1-52



Diesel engine tool

Page 1-70 ~ 1-82



Timing tool

Page 1-9 ~ 1-39



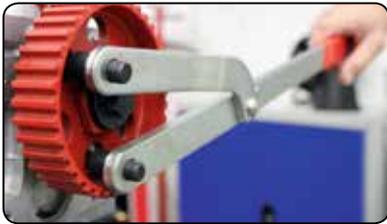
Hose tool

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Engine valve tool

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Pulley hold tool

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Cooling system tool

Page 1-58 ~ 1-62



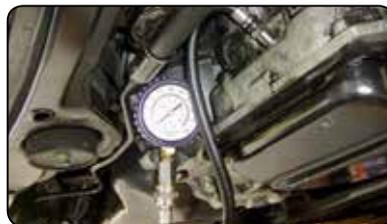
Cylinder / Piston tool

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Pulley puller tool

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Tester tool

Page 1-62 ~ 1-72



**Oil filter / Drain plug
/ Funnel**

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Fuel tool

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A/C tool

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Oxygen sensor / Air bag tool

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Seal tool

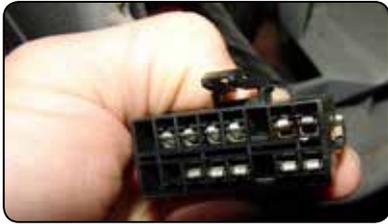
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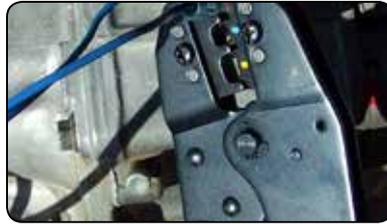
Engine support / Crane tool

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2. Electrical / Cable



Terminal release tool
Page 2-1 ~ 2-1



Terminal pliers
Page 2-11 ~ 2-12



**Circuit tester tool
(AC)**
Page 2-21 ~ 2-22



Radio removal tool
Page 2-2 ~ 2-3



Wire stripper tool
Page 2-13 ~ 2-14



Cable cutter tool
Page 2-22 ~ 2-24



Battery tool
Page 2-4 ~ 2-5



Cable stripper tool
Page 2-14 ~ 2-15



Terminal crimping tool
Page 2-24 ~ 2-26



Circuit tester tool (DC)
Page 2-5 ~ 2-10



Insulated tool
Page 2-15 ~ 2-19

3. Brake / Transmission



Brake tool
Page 3-1 ~ 3-14



Ball joint tool
Page 3-34 ~ 3-42



**Oil drain machine /
tank**
Page 3-55 ~ 3-60



Wheel tool
Page 3-14 ~ 3-23



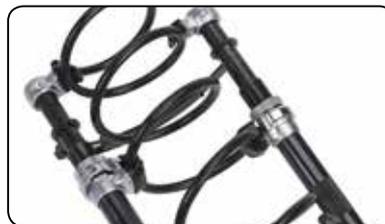
Tie rod tool
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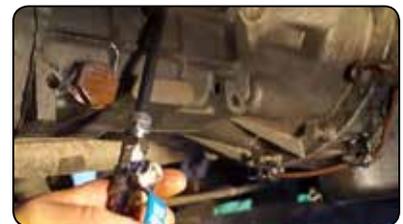
Tailpipe tool
Page 3-61 ~ 3-62



**Axle bush/wheel hub
tool**
Page 3-23 ~ 3-32



Shock absorber tool
Page 3-45 ~ 3-50



Transmission tool
Page 3-63 ~ 3-64



Axle puller tool
Page 3-33 ~ 3-34



Propeller shaft tool
Page 3-51 ~ 3-55



Jack
Page 3-65 ~ 3-66

4. Truck



IVECO

IVECO truck tool

Page 4-1 ~ 4-1



SCANIA truck tool

Page 4-9 ~ 4-12



BENZ truck tool

Page 4-1 ~ 4-3



VOLVO truck tool

Page 4-13 ~ 4-16



MAN truck tool

Page 4-3 ~ 4-6



General truck tool

Page 4-17 ~ 4-28



BPW truck tool

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5. Auto Body



Body dent puller tool

Page 5-1 ~ 5-2



Body filler tool

Page 5-17 ~ 5-18



Body repair tool

Page 5-3 ~ 5-6



**Upholstery fastener /
Clip tool**

Page 5-18 ~ 5-21



Weld / Bending pliers

Page 5-6 ~ 5-11



**Glass maintenance
tool**

Page 5-22 ~ 5-27



Body pull clamp

Page 5-11 ~ 5-17



**Wiper arm removal
tool**

Page 5-27 ~ 8-28

6. Motorcycle



Flywheel puller tool

Page 6-1 ~ 6-3



Valve / Piston / Oil filter tool

Page 6-8 ~ 6-10



General tool

Page 6-13 ~ 6-18



Clutch holder tool

Page 6-3 ~ 6-3



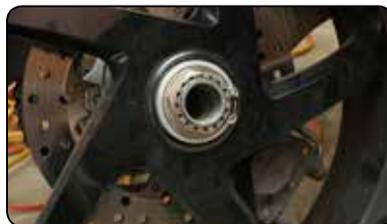
Timing tool

Page 6-10 ~ 6-11



Motorcycle fork / Carburetor tool

Page 6-3 ~ 6-6



Wheel nut tool

Page 6-11 ~ 6-12



Chain / Belt tool

Page 6-6 ~ 6-7



Brake tool

Page 6-12 ~ 6-13

7. Torque wrench / Puller



Torque wrench

Page 7-1 ~ 7-8



**Torque handle fittings/
Torque driver**

Page 7-9 ~ 7-13



Torque multiplier

Page 7-15 ~ 7-16



**Puller tool (bearing /
gear separator)**

Page 7-17 ~ 7-34

8. General



**Socket bit tool /
Socket series**
Page 8-1 ~ 8-10



**Damaged bolt remove /
Screw extractor**
Page 8-20 ~8-23



Shears / Pliers
Page 8-33 ~ 8-40



**Wrench series /
Screwdriver**
Page 8-11 ~ 8-17



**Threaded repair /
Nut cracker tool**
Page 8-23 ~8-27



Pipe wrench
Page 8-40 ~ 8-41



**Air hose reel / Air
blow gun**
Page 8-18 ~ 8-18



**Hammer / Chisel /
Pin punch**
Page 8-27 ~ 8-30



**Tubing cutter /
Double flaring tool**
Page 8-41 ~ 8-46



Stud extractor
Page 8-19 ~ 8-20



Vise
Page 8-31 ~ 8-33



**Steel wire rope / Bolt
cutter**
Page 8-46 ~ 8-47



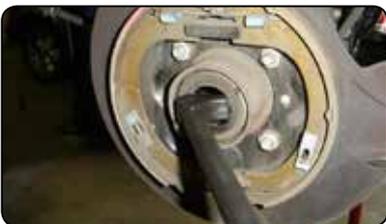
**Inspection mirror /
Work light**

Page 8-47 ~ 8-51



**Magnetic pick-up /
Fender cover / Car seat**

Page 8-51 ~8-55



**Grease gun / Oil can
/ Pry bar**

Page 8-56 ~ 8-62



908G5 P.1-27
Engine timing tool set for VW, Audi



913G7 P.1-28
Engine timing tool set for VW / AUDI



906G6 P.1-30
Engine timing tool set for VW



928G1 P.1-27
Engine timing tool set - VW, Audi, Seat and Skoda



902G18 P.1-29
Camshaft clamp for VW / AUDI



904G16 P.1-30
Engine timing tool set for VW / AUDI



929G1 P.1-28
Timing setting tool set - VW, Audi, Seat and Skoda



904G15 P.1-29
Engine timing tool set for VW



914G5 P.1-30
Engine timing tool set for VW / AUDI



910G5 P.1-28
Engine timing tool set for AUDI



907G13 P.1-29
Engine timing tool set for VW / AUDI



908G13 P.1-31
Engine timing tool set for VW





■ **904G17** P.1-31
3-in-1 Bosch timing tool for VW



■ **902G13** P.1-31
Camshaft central valve tool for VW / AUDI



■ **9G1210** P.1-32
Camshaft adjusting socket for AUDI



■ **9G1216** P.1-32
Camshaft alignment tool



■ **903G14** P.1-32
Camshaft alignment tool



■ **9G1209** P.1-32
Camshaft alignment plate for VW, AUDI



■ **902G6** P.1-33
Camshaft alignment tool



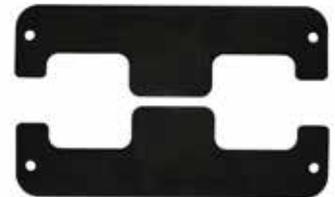
■ **9G1206** P.1-33
Camshaft locking tool for VW



■ **903G10** P.1-33
Camshaft locking tool



■ **902G15** P.1-34
Engine timing tool set for VW / AUDI



■ **902G16** P.1-34
Engine timing tool set for VW / AUDI



■ **902G17** P.1-34
Engine timing tool set for VW / AUDI





■ **902G19** P.1-35
Engine timing tool set for AUDI



■ **9G0807** P.1-35
Engine timing tool for VAG



■ **9G1302** P.1-35
AUDI crank locking pin



■ **9G1303** P.1-35
VW/AUDI crank locking pin



■ **9G1305** P.1-36
Crank locking pin for AUDI



■ **906G4** P.1-36
Timing tool set for VAG 2.0 TDI PD



■ **9G1208** P.1-36
Crankshaft locking tool



■ **9G1301** P.1-36
Crankshaft locking tool for VW



■ **902G2** P.1-37
Locking tool set for VW, Audi



■ **9G0616** P.1-41
Counter hold tool for VW / AUDI



■ **9G0607** P.1-41
VW, AUDI belt pulley holder



■ **9G0608** P.1-41
VW, SEAT belt pulley holder



Classification by Car Model



■ 903G15 P.1-50

Adjusting tensioner belt set



■ 903G8 P.1-50

Belt tension locking pins VW / AUDI / TDi PD engines



■ 902G4 P.1-50

Tensioner adjusting tool



■ 9G0704 P.1-44

Reaction wrench



■ 9G0705 P.1-45

Reaction wrench (1/2" DR.)



■ 34914010V P.1-91

M10S Cylinder head bolt tool



■ 904T5 P.1-8

4pc VW, AUDI ignition coils puller set



■ 9G0208 P.1-54

Hose clamp pliers (for VW, AUDI 2.0)



■ 62530 P.1-53

Hose clamp pliers



■ 61925 P.1-110

Oil filter drain tool (VW)



■ 912G6 P.1-76

VW, AUDI Diesel & gas injection remover tool (TDI & FSI)



■ 9G0711 P.1-114

Fuel pump wrench





907T6 P.3-27

Bush remover / installer for VW



908T7 P.3-27

Rear axle bush insertion tool for VW / AUDI



917T3 P.3-28

Wheel hub and wheel bearing extraction & installation set for VW-T5



905T4 P.3-27

5pc VW, AUDI Rear suspension tool



921T1 P.3-28

21pc Compact wheel hub/bearing kit , Ø 62mm, Ø 66mm, Ø 72mm



904T1 P.3-49

Drive nut set



9T0205 P.3-63

VW Automatic transmissions socket



914B1 P.3-9

Brake calliper guidance thread repair set



Classification by Car Model



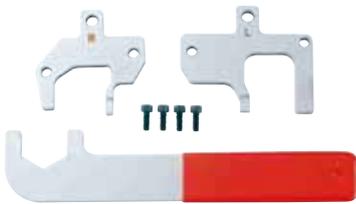
■ **904G18** P.1-25

Engine timing tool set for BENZ M271



■ **907G4** P.1-26

BENZ Camshaft alignment tool



■ **9G1218** P.1-26

Engine timing tool set for BENZ



■ **906G7** P.1-26

Engine timing tool set for BENZ



■ **9G1215** P.1-27

BENZ flywheel locking tool



■ **9G0701** P.1-43

65mm Single-ended open wrench



■ **9G0702** P.1-44

Reaction wrench (with 3 holes)



■ **9G0707** P.1-44

BENZ Fan belt service wrench



■ **9G0202** P.1-44

Reaction tool



■ **674** P.1-46

2pc M10 Alternator tools



■ **678** P.1-47

2pc T50 Alternator tools



■ **907G11** P.1-75

Injector puller set for Mercedes CDI





9G1803 / 9G1804 P.1-112

Transmission oil gauge



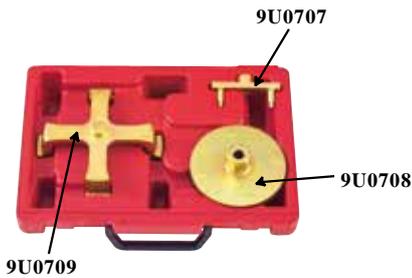
9G1805 / 9G1806 P.1-112

Oil gauge



903U2 P.1-114

3pc Benz fuel tank cap wrench



903G19 P.1-74

Diesel injector nozzle extractor set



903G17 P.1-76

Injector nozzle extractor with spindle



909G5 P.1-76

Injector extractor with slide hammer for DB CDI-engines



9G0121 P.1-77

33 Teeth socket diesel injection pump for Mercedes



9G0122 P.1-77

Diesel pre-chamber collar nut socket for Mercedes



62820 P.3-42

1/2" DR. BENZ (W163/W164) Pin wrench socket



9B0305 P.3-5

BENZ Parking brake installer



902B1 P.3-22

2pc Wheel stud alignment guide tool set



902B2 P.3-23

2pc Wheel stud alignment guide tool set





■ 908B3 P.3-23

8pc Wheel stud alignment guide tool set



■ 9T0206 P.3-19

Wheel nut socket for Mercedes-Benz



■ 905T3 P.3-47

Spring compressor for Mercedes



■ 9T0304 P.3-50

BENZ W220 Shock absorber service tool set



■ 9T0305 P.3-63

Clutch spring compressor



■ 9T0307 P.3-23

BENZ Bush remover / installer



■ 9T0308 P.3-24

BENZ (W140) Lower control arm bushing remover / installer



■ 9T0309 P.3-24

BENZ (W210) Lower control arm bushing remover / installer



■ 9T0310 P.3-24

BENZ (W202, W170) Lower control arm bushing remover / installer



■ 9T0311 P.3-24

BENZ Axles wheel bearing extractor / installer



■ 9T1401 P.3-49

BENZ (W203) Strut nut socket



■ 9T1402 P.3-50

BENZ (W220) Strut nut socket





905T7 P.3-41

5pc 1/2" DR. Drive tooth socket for Mercedes



905T10 P.3-41

Ball-joint installer/ remover for BENZ (W220/W211/W230)



927T1 P.3-29

Professional wheel bearing tool set for BENZ



9T1407 P.4-1

BENZ Axle nut socket 95mm



9T1408 P.4-2

BENZ Rear axle nut socket 105-125 mm



9T1424 P.4-3

BENZ & MAN Clamp nut socket 56 mm



9T1425 P.4-3

BENZ & MAN Clamp nut socket 60 mm



9T1426 P.4-2

BENZ & MAN Rear axle nut socket 80-95 mm



9T1427 P.4-2

Benz & Man Rear axle nut socket 95-115 mm



6281842 P.4-3

3/4" DR. BENZ & MAN Pitman arm puller 42mm



Classification by Car Model



■ **905G1** P.1-20
BMW (M52, M54, M56) Timing tool kit



■ **9G2701** P.1-20
BMW Double vanes setup bracket M50-TU



■ **907G6** P.1-20
Timing tool kit (BMW MINI)



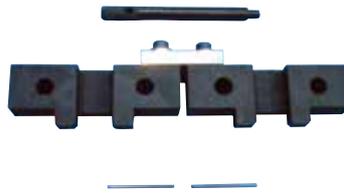
■ **908G3** P.1-21
BMW Camshaft alignment tool kit



■ **9G1212** P.1-21
BMW Camshaft alignment tool



■ **9G1213** P.1-21
BMW (M42, M50) Camshaft alignment tool



■ **9G1214** P.1-21
BMW (M60, M62) Camshaft alignment tool



■ **9G1207** P.1-22
BMW Sprocket extractor / installer



■ **913G6** P.1-22
Engine timing tool set for BMW M41, M51, M47, M57



■ **905G17** P.1-22
Engin timing tool set for BMW M47



■ **904G11** P.1-23
Diesel engine timing tool set for BMW N47/N47S



■ **908G9** P.1-23
Engine timing tool set for BMW N42, N46, N46T





918G3 P.1-23

Engine timing tool set for BMW N42/N46



906G5 P.1-24

Engine timing tool set for BMW N40/N45/N45T



912G5 P.1-24

Engine timing tool set for BMW N51/N52/N53/N54



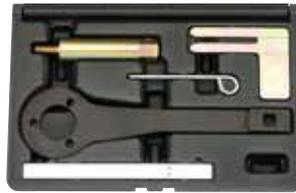
905G19 P.1-24

Engine timing tool set for BMW N62 / N73



905G12 P.1-25

Engine timing tool set for BMW, Mini, Citroen, Peugeot



9G0602 P.1-43

BMW Pulley holder



674 P.1-46

2pc M10 Alternator tools



54615012B P.1-92

1/2" DR. 150mm Cylinder head bolt tool (E12)



9G0717 P.1-112

Oil cooler line pliers



9G0718 P.1-116

BMW line disconnect tool



9G0719 P.1-116

BMW line disconnect tool



908G11 P.1-75

Diesel injectors remover for BMW





■ **905G15** P.1-25

Fly wheel holder tool for BMW



■ **9T0313** P.3-25

BMW (E30, E36, E46) Bush extractor



■ **908T3** P.3-25

8pc BMW (E30, E36) Ball joint remover / installer



■ **903T5** P.3-26

BENZ (W203) Strut nut socket





905G16 P.1-13

Engine timing tools set for VAUXHALL/ OPEL diesel 1.9 CDTI



920G2 P.1-14

Engine timing Tool set for Opel / Vauxhall



907G17 P.1-14

Engine timing tool set for Vauxhall/ Opel



907G18 P.1-14

Engine timing tool set for Vauxhall/ Opel



904G2 P.1-15

Valve camshaft setting tool (GM / OPEL / VAUXHALL up to 1987)



904G5 P.1-15

Timing tool kit (for GM 1.3 CDTI diesel engine)



908G12 P.1-16

Diesel engine timing tool set for RENAULT, NISSAN, OPEL



9G0802 P.1-49

Belt tensioning adjuster



9G0803 P.1-49

Belt tensioning adjuster



88442 P.1-68

10pc Deluxe noid lite / IAC test kit plus one fibre optic noid lite extension



907G12 P.1-45

Power steering pump pulley kit



63303 P.1-115

Diesel injection priming tool



■ **908T6**

P.3-26

Rear suspension tool for GM
VECTRA



■ **65014**

P.3-10

1/2"DR. Pentagon socket 14mm





905G8 P.1-18
Timing locking tools for FORD



922G2 P.1-18
Engine timing tool set - Ford, Mazda



65019

911G6 P.1-18
Engine timing tool set for FORD



916G5 P.1-19
Engine timing tool set for FORD



903G11 P.1-19
FORD flywheel locking tool



9G1211 P.1-19
Camshaft setting bar & TDC timing pins (Ford / Mazda)



904G6 P.1-20
FORD timing tool set



907G12 P.1-45
Power steering pump pulley kit



63302 P.1-114
Fuel transfer tool



61927 P.1-102
Oil filter wrench -27mm



905T5 P.3-26
Sub frame bush remover (Ford Mondeo)



913T2 P.3-28
Wheel hub and wheel bearing extraction & installation set for Ford / Volvo / Mazda





RENAULT

917G1 P.1-16

Engine timing tool set - Renault



905G20 P.1-16

Engine timing tool set for Renault



908G12 P.1-16

Diesel engine timing tool set for RENAULT, NISSAN, OPEL



911G5 P.1-15

Diesel engine locking tool set for Opel / Renault / Nissan



902G5 P.1-17

Timing locking tools



903G5 P.1-17

Renault timing kit (DCI engines)



907G15 P.1-7

Engine timing tool set for RENAULT 1.8 / 2.0 16V



65019 P.3-10

1/2"DR. Pentagon socket 14mm



65019

920T2 P.3-29

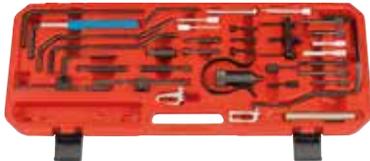
Professional wheel bearing tool set For Peugeot / Citroen / Renault





935G1 P.1-37

Engine timing tool set - Peugeot, Citroen



904G13 P.1-73

4pcs Injection nozzle socket



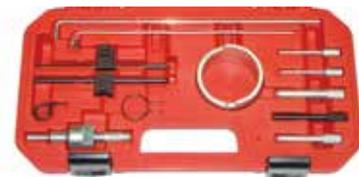
934G1 P.1-38

Engine timing tool set for FIAT



911G7 P.1-37

Engine timing tool set for CITROEN / PEUGEOT



65019 P.3-10

1/2"DR. Pentagon socket 19mm



907G16 P.1-38

Engine timing tool set for FIAT



9G0605 P.1-12

Flywheel holding tool



920T2 P.3-29

Professional wheel bearing tool set For Peugeot / Citroen / Renault



910G7 P.1-38

Engine timing tool set for Fiat 1.2 8V & 1.4 16V



910G3 P.1-74

Diesel injector nozzle extractor set (PSA HDI engines)



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