

ENGINE DIAGNOSTICS - compression, leakage, fuel injection

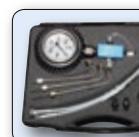
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Wrighting
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TesterCylinder
Leakage
Tester**Diesel & Diesel Common Rail Diagnostics and special tools**

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Injection
TesterHi pressure
tester
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Injector
Pullers
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Puller

Universal timing tools + Clutch kit SAC**pages 54-57**

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Universal timing tools

Timing tools + special tools**pages 54-146**

| | | | |
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Tool Factory No.s -> numbers HP - table**pages 147****Figure Adapters DIESEL to Deposition of the dimensions****pages 154****Description of signs used in the catalog****PETROL**The device or tools for
only for petrol engines**Art. 000 000 00**

Catalog number of article

DIESELThe device or tools for
Diesel engines only**+ Art. 000 000 00**Catalog number of article additional.
Articles that complement the device / tool primary
not described elsewhere in the catalog.**PETROL & DIESEL**The device or tools for
to petrol engines and Diesel**+ Art. 000 000 00**Catalog number of additional article, supplementing
the device / tool primary.
Description of the article is elsewhere in the catalog.

**The manufacturer reserves the right to make changes in products offered,
their construction, packaging and equipment.**

Compression pressure tester DIESEL with a set of adapters**SPCS - 50 SK MASTER****Upgrade !****Art. 912 300 00****Description**

In the tester threaded connections replaced by quick release screw connection, which greatly simplifies and accelerates the execution of the measurement. A pushbutton switch for starting the starter that allows for one-person operation of the tester is installed in the tester holder. The measurement is done by replacing the sprayer, or injector glow plug suitable Measuring tip (Adapters).

Measuring range**10 - 50 bar (1,0 - 5,0 MPa)****Specification**

- Measuring instrument equipped with a handle compression in the starter switch and vent valve (trigger) 912 201 00
- Pressure hose with non return valve 360 mm long 912 202 00
- Electric wiring to start the engine 912 404 00
- Angle connection M12 x 1,5 SK 912 203 00
- Angle connection M14 x 1,5 SK 912 204 00
- Quickrelease reducint M12 x 1,5 SK 912 205 00
- Quickrelease reducint M14 x 1,5 SK 912 206 00
- The registration Diagrams 100 pcs 609 195 00
- Adapters (inspection tips) replacing spray tip: A, B, D, E, F 912 011 - 016 00
- Adapters for Measuring compression in place of the injectors 6 pcs -->
- Adapters for Measuring compression in place glow plugs 9 pcs -->

Weight

6,8 kg

Additional equipment

+ Measuring adapters pages 9 - 15



+ Adapters Kits pages 16 - 17

Adapters in place
glow plugs:

- | | |
|-------------|------------|
| 2 S | 912 450 02 |
| 5 S | 912 450 05 |
| 6 S | 912 450 06 |
| 8 S | 912 450 08 |
| 25 S | 912 450 25 |
| 26 S | 912 450 26 |
| 30 S | 912 450 30 |
| 36 S | 912 450 36 |
| 49 S | 912 450 49 |
| 52 S | 912 450 52 |
| 71 S | 912 450 71 |

Adapters in place
of the injectors:

- | | |
|-------------|------------|
| 16 W | 912 450 16 |
| 42 W | 912 450 42 |
| 44 W | 912 450 44 |
| 75 W | 912 450 75 |

Description of application Adapters
in the table on ages 9-15

Upgrade !

Withdrawn from a set of Adapters: 15W i 76W
Added to the set of Adapters: 49S i 71S

Compression pressure tester PETROL with a set of adapters **SPCS - 17,5 SK MASTER****Art. 917 300 00****Description**

Compression pressure tester for petrol engines with a record of the measurement. In order to simplify handling with in connect the quick couplers.

A pushbutton switch for starting the starter that allows for one-person operation of the tester is installed in the tester holder.

Measuring range**3 - 17,5 bar (0,3 - 1,75 MPa)**

- Measuring instrument equipped with a handle compression in the starter switch 917 100 00
- Pressure hose 360 mm long 917 002 00
- Angle connection SK 90° 917 014 90
- Electric wiring to start the engine 912 404 00
- The registration Diagrams 100 pcs 917 105 00
- Adapters M10x1/SK 50mm 917 030 50
- Adapters M10x1/SK 100mm 917 030 80
- Adapters M10x1/SK 250mm 917 030 70
- Adapters M12x1,25/SK 50mm 917 031 50
- Adapters M12x1,25/SK 100mm 917 031 80
- Adapters M12x1,25/SK 250mm 917 031 70
- Adapters M14x1,25/SK 50mm 917 032 50
- Adapters M14x1,25/SK 160mm 917 010 00
- Adapters M14x1,25/SK 250mm 917 032 70
- Flexible Adapters screwed into the hole candle M14x1,25 917 032 80
- Rigid extension cord PD-17,5 SK with rubber cone 917 012 00
- Reduction to measurement M18 917 011 00
- Replacement valve return (2 pcs) 916 050 00
- Conical rubber bands set. 5 pcs 916 020 00

**Additional equipment**

+ Measuring adapters

Special Adapters screwed in place of the spark plugs.
See page 20

Weight

5,75 kg

Writing compression tester with quick release connections

SPCS - 50 SK

Description

In the tester threaded connections replaced by quick release screw connection, which greatly simplifies and accelerates the execution of the measurement. A pushbutton switch for starting the starter that allows for one-person operation of the tester is installed in the tester holder.
The measurement is done by replacing the sprayer, or injector glowplug suitable Measuring tip (Adapters)



Measuring range

10 - 50 bar (1,0 - 5,0 MPa)

Specification

| | |
|--|------------------|
| - The compression recorder with the handle, in which is installed the tumbler-switch | 912 201 00 |
| - Pressure hose with non return valve 360 mm long | 912 202 00 |
| - Adapters Measuring tips: A, B, D, E, F | 912 011 - 016 00 |
| - Electric wiring to start the engine | 912 404 00 |
| - Angled pipe couplings M12 x 1,5 SK | 912 203 00 |
| - Angled pipe couplings M14 x 1,5 SK | 912 204 00 |
| - Quick releasein reduction M12 x 1,5 SK | 912 205 00 |
| - Quick releasein reduction M14 x 1,5 SK | 912 206 00 |
| - Recording diagrams 100 pcs | 609 195 00 |

Weight

3,40 kg

Additional equipment

+ Measuring adapters pages 9 - 15

+ Art. 912 460 00

Adapters kit MASTER
Description below



+ Adapters kits

Adapters kits for
to specific brands of cars.



pages 16-17

Kits of measuring adapters for passenger cars and vans

Adapters MASTER

Upgrade !

Art. 912 460 00

Description

Kit most popular Measuring Adapters for tester
Diesel Compression pressure - instead of glow plugs or injectors.

Specification

Adapters in place
glow plugs: Adapters in place
of the injector:

| | | | |
|------|------------|------|------------|
| 2 S | 912 450 02 | 16 W | 912 450 16 |
| 5 S | 912 450 05 | 42 W | 912 450 42 |
| 6 S | 912 450 06 | 44 W | 912 450 44 |
| 8 S | 912 450 08 | 75 W | 912 450 75 |
| 25 S | 912 450 25 | | |
| 26 S | 912 450 26 | | |
| 30 S | 912 450 30 | | |
| 36 S | 912 450 36 | | |
| 49 S | 912 450 49 | | |
| 52 S | 912 450 52 | | |
| 71 S | 912 450 71 | | |

Upgrade !

Retractable adapters: 15W and 76W
Added adapters: 49S and 71S

Weight

3,50 kg



PETROL &

DIESEL

Electronic compression tester

with a record of measurement for Diesel nad petrol engines

MCS - 50

Upgrade !**Art. 970 000 00****Description**

It is possible to measure and save results for 12 cylinders.

Measurement archive (50 last saved in the database)

During the measurement it is possible to observe the pressure increases on the screen. The results of measurements are displayed in the form of bar graphs of pressure values in bars and compared in percentages. Wireless transmission of data to the printer.

Two power options for the printer (230 V or battery meter)

FULL MOBILITY SET WITH PRINTER**Measuring range**

0 - 50 bar (0 - 5,0 MPa)

Specification

| | |
|--------------------------------------|------------|
| Compression Tester with LCD | 970 100 00 |
| Termal printer | 970 300 00 |
| Recording paper for printer (1 roll) | 970 300 10 |
| Pressure hose with non return valve | 970 200 00 |
| Pressure sonson | 970 150 00 |
| Power supply | 970 350 00 |

Adapters for Diesel engines:

2S, 5S, 6S, 8S, 26S, 30S, 36S, 49S, 52S, 71S, 16W, 42W, 75W,

Description of Adapters it table on pages 9-15

| | |
|---|------------------|
| Angle connection M12 x 1,5 SK | 912 203 00 |
| Angle connection M14 x 1,5 SK | 912 204 00 |
| Quickrelease connection M12 x 1,5 SK | 912 205 00 |
| Quickrelease connection M14 x 1,5 SK | 912 206 00 |
| Adapters (into injector slot) replace the spray: A, B, D, E, F | 912 011 - 016 00 |

UPGRADE!**Electronic manometer function: 0 do 50bar.****Weight**

7,00 kg two suitcases

Additional equipment**+ Adapters Kits**

pages 16 - 17

The adapter sets are designed
for selected car brands.

VW/Audi/Seat/Skoda



Citroen / Peugeot



Opel

+ Measuring adapters

pages 9 - 15

Compression pressure tester with the measurement record for Diesel

SPCS - 50

Description

Controllable Compression Pressure Tester is a small-size and easy to use Measuring instrument (with record function) for compression pressure measurements in Diesel engine cylinders.
In the tester holder is installed a switch that allows one person to start the engine starter and take compression measurements.
The measurement is done by replacing the sprayer corresponding

Art. 912 000 00

Measuring range

10 - 50 bar (1,0 - 5,0 MPa)

Specification

| | |
|--|------------------|
| - The compression recorder with the handle, in which is installed the tumbler-switch | 912 001 00 |
| - Pressure hose with non return valve 300 mm long | 912 002 00 |
| - Adapters into injector slot (Measuring tips) replace the spray: A, B, D, E, F | 912 011 - 016 00 |
| - Electric wiring to start the engine | 912 404 00 |
| - Angle connection M12 x 1,5 | 912 003 00 |
| - Angle connection M14 x 1,5 | 912 004 00 |
| - The registration Diagrams 100 pcs | 609 195 00 |

Weight

2,10 kg

Additional equipment

+ **Measuring adapters** pages 9-15

+ **Art. 912 460 00**

Adapters kits MASTER
Description page 4



+ **Adapters kits** pages 16 - 17

Adapters kits for specific brands of cars.



Manometric compression pressure tester for Diesel engines

PCSm - 40

Art. 910 000 00

Description

Measuring adapters (Measuring tips) are screwed in place of the glow plugs.

0 - 40 bar (0 - 4,0 MPa)

Specification

- Manometer with non return valve and relief valve 910 300 00

- Adapters (Measuring tip) in place of the glow plugs:

2 S (912 450 02) - All the older cars without the Japanese:
Opel, Peugeot, DB, VW, Ford, Seat, Fiat, Renault, Citroen,
Land Rover, Alfa 145, 146, 155, 164

8 S (912 450 08) - VW, Audi, Seat, Skoda 1.9/2.5 TDI, BMW 1.8/2.5 TDS2.0/3.0 d (00-), Alfa 2.5 TD (95-98), Chrysler 2.5 TD (95-),
Citroen/Peugeot 1.5/1.8/1.9, Dacia 1.5 dCi(05-), Fiat 1.9(DW8),
Ford 1.9 TDI, 2.5 TD(Scorpio), Ford, Honda Accord 2.0,
Land Rover 2.0(98-), 2.5Td5(99-), Mitsubishi 1.9,
Nissan 1.5/1.9/2.2 D/dCi, Opel, Renault 1.5/1.9/2.1/2.2 DTI (94-),
Rover, Volvo 1.9/2.5.



+ **Adapters kits** pages 16 - 17

Adapters kits for specific brands of cars.



Manometric compression pressure tester for Diesel engines

PCSm - 40PLUS

Description

Measuring adapters (Measuring tips) are screwed in place of the glow plugs.

Measuring range

0 - 40 bar (0 - 0,4 MPa)

Art. 910 150 00

NEW

Specification

- Manometer with non return valve and relief valve **910 300 00**

- Adapters (Measuring tip) in place of the glow plugs: **5 pcs:**

2 S (912 450 02) - All starsze samochody bez japońskich: Opel, Peugeot, DB, VW, Ford, Seat, Fiat, Renault, Citroen, Land Rover, Alfa 145, 146, 155, 164

8 S (912 450 08) - VW, Audi, Seat, Skoda 1.9/2.5 TDI, BMW 1.8/2.5 TDS2.0/3.0 d (00-), Alfa 2.5 TD (95-98), Chrysler 2.5 TD (95-), Citroen/Peugeot 1.5/1.8/1.9, Dacia 1.5 dCi(05-), Fiat 1.9(DW8), Ford 1.9 TD, 2.5 TD(Scorpio), Ford, Honda Accord 2.0, Land Rover 2.0(98-), 2.5Td5(99-), Mitsubishi 1.9, Nissan 1.5/1.9/2.2 D/dCi, Opel, Renault 1.5/1.9/2.1/2.2 DTI (94-), Rover, Volvo 1.9/2.5.

6 S (912 450 06) - Audi, Opel, Seat, Ford 2.7, Hyundai, Kia, Mazda, Mitsubishi, Nissan, Suzuki 2.0, Toyota Hiace, Land Cruiser 2.5., Isuzu 1.5, 2.0, 2.2, 2.4 D/TD, Mazda 2.0, 2.2, 2.5 D/TD, Mitsubishi Pajero 3,2 (03-), Opel 1.7(TC4EE1), 2,2(C223), VW Taro 2,4D(89-98)

36 S (912 450 36) - Fiat 1.3 JTD, Opel 1.3 D (Z13DT), Opel Corsa 1.3 CDT, Lancia Y(03-), Citroen/Peugeot 1.4, 1.6 HDI (05-), Ford 1.4, 1.6 TDCi (04-), Suzuki 1.3 DDIS (03-), Mini D 1.6 (07-)

49 S (912 450 49) - Alfa Romeo 147, 156, 159, 166, Brera, Spider Engine 1.9, 2.4 JTD Multijet (03-), Fiat Brava 1.9 D Mutijet(07-), roma 1.9, 2.4 Multijet (05-), Stilo 1.9 JTD, Multijet Engine 192A5, 937 A5(04-), Lancia Thesis 2.4 JTD siln.841G000 (03-), Opel Astra H

Weight

1,00 kg

Additional equipment

+ Measuring adapters

pages 9-15

+ Art. 912 460 00

Adapters kits MASTER

**5 Adapters included !****+ Adapters kits**

pages 16 - 17

Adapters kits for
to specific brands of cars.

Ford



Citroen / Peugeot



Opel

Measuring tips replaces spray of injectors in Diesel engine

Description

TIP E**Art. 912 015 00****Art. 912 016 00**

Weight

25 g



Description

TIP FMeasuring tip replaces sprayer of injectors in Diesel engine.
Designed to tester: SPCS-50, SPCS-50 3A
and SPCS-50 SK.

Weight

25 g



Spare parts for Diesel pressure testers SPCS-50, SPCS-50 3A, SPCS-50 SK also PCSm-40

Non-return valve SPCS-50 (3A), PCSm-40**Art. 912 002 10****Diagram cassette****Art. 912 007 00****Non-return valve SPCS-50 SK****Art. 912 202 10****Pressure hose SPCS - 50****Art. 912 002 00****The quick couplers SK****Art. 912 208 00****Pressure hose SPCS - 50 3A****Art. 912 502 00****Pressure relief valve****Art. 912 001 10****The registration Diagrams SPCS - 50, SPCS - 50 SK****Art. 609 195 00**

Description

The registration Diagrams to tester's SPCS-50,
SPCS-50 3A and SPCS-50 SK.
Package contains 100 pieces of diagrams.

Weight

30 g

**Glass for tester****Art. 912 001 72****Tester lid****Art. 912 001 71**

Adapters - Measuring tips for diesel engines divided into car brand

Red - new Adapters introduced after 2016

| Mark of the vehicle | Glow plug | Injector |
|---------------------|--|---|
| Alfa Romeo | 2, 8, 8L , 33, 49, 52 | 15, 66, 81, 94, 108 |
| Audi | 2, 6, 8, 8L , 9, 10, 26, 35, 36, 71 | 1, 12, 15, 16, 104, 115 |
| BMW | 2, 8, 8L , 10, 35 | 15, 76, 91, 111 |
| Chrysler | 2, 8, 8L , 25, 27, 35, 54, 73 | 64, 68, 75 |
| Citroen | 2, 3, 8, 8L , 10, 26, 29, 30, 33, 36, 50, 52, 70, 97 | 1, 11, 15, 21, 24, 40, 46, 47, 69, 72, 80, 93 |
| Dacia | 8, 8L , 2, 33 | |
| Fiat | 2, 8, 8L , 26, 33, 36, 49, 52, 73, 102 | 1, 15, 20, 41, 49, 58, 66, 68, 79, 80, 81, 89, 94 |
| Ford | 2, 5, 6, 8, 8L , 27, 28, 29, 30, 36, 87, 106 | 1, 15, 43, 45, 64, 65, 72, 78, 80, 81, 93, 106, 117 |
| Honda | 2, 8, 8L , 32, 39 | |
| Hyundai | 5, 6, 39, 105 | 101, 107 , 113 , 114 |
| Isuzu | 5, 6, 32, 74, 85 | 19 |
| Iveco | 8, 8L , 2, 33 | 58, 83 |
| Jaguar | 25, 29, 35, 50 | |
| Jeep | 2, 25 | |
| Kia | 5, 6, 10, 39, 105 | 7, 18, 44, 105 , 107 , 113 , 114 |
| Lancia | 2, 28, 33, 36, 49, 52 | 1, 15, 64, 66, 68, 81 |
| Land Rover | 2, 8, 8L , 10, 25, 27 | 1, 91 |
| Mazda | 2, 6, 29, 92 | 1, 4, 23, 45 |
| Mercedes | 2, 3, 25, 27, 37, 54 | 1, 15, 44, 75, 82, 84, 112 |
| Mini | 36, 74 | |
| Mitsubishi | 2, 5, 6, 8, 8L , 10, 71 | 4, 7 |
| Nissan | 2, 5, 6, 8, 8L , 10, 31, 38, 77, 77L | 1, 4, 15, 22 , 59, 110 |
| Opel | 2, 6, 8, 8L , 10, 27, 32, 34, 35, 36, 38, 39, 49, 51, 52, 53, 56, 77, 77L , 85, 102 | 1, 14, 15, 17, 22 , 67, 68, 76, 79, 94, 101, 105 , 108 |
| Peugeot | 2, 3, 8, 8L , 26, 29, 36, 50, 70, 86, 97 | 1, 15, 24, 40, 46, 47, 69, 72, 80, 93 |
| Renault | 2, 8, 8L , 10, 25, 29, 33, 31, 32, 35, 38, 51, 77, 77L | 1, 15, 22 , 41, 42, 59, 60, 67, 76, 79, 80, 81 |
| Rover | 2, 8, 10 | 1, 15, 41, 81 |
| Saab | 27, 32, 35, 49. | |
| Seat | 2, 6, 8, 8L , 10, 36, 71 | 1, 13, 15, 16, 81, 104 , 115 |
| Skoda | 2, 8, 8L , 26, 36, 71 | 16, 104, 115 |
| Smart | 55, 88 | |
| Subaru | 96 | |
| Suzuki | 2, 6, 29, 36 | |
| Toyota | 2, 5, 6, 34, 31, 39, 74, 116 | 4, 7, 99 |
| Volkswagen | 2, 6, 8, 8L , 9, 10, 26, 35, 36, 71 | 1, 12, 15, 16, 80, 104 , 115 |
| Volvo | 2, 8, 8L , 10, 50 | 46, 109 |

Adapters for trucks - see page15

Adapters - Measuring tips for Diesel engines

Adapters - Measuring tips for compression pressure testers Diesel. Adapters are suitable for testers: MCS-50, SPCS - 50, SPCS - 50 3A, SPCS - 50 SK and PCSm - 40. Screw in place of the glow plugs or injectors: **W** - injector, **S** - glow plug connection to the screw thread.

| No. | | Application | Art. No. |
|------|---|---|-------------|
| 1 W |  | Opel, Peugeot, DB, VW, Citroen, Ford, Lancia, Mazda, Nissan, Renault, Rover, Seat - old Models. | 912 450 01 |
| 2 S |  | All older cars Awithout the Japanese: Opel, Peugeot, DB, VW, Ford, Seat, Fiat, Renault, Citroen, Land Rover, Alfa 145, 146, 155, 164. | 912 450 02 |
| 3 S |  | All older cars: Mercedes, Peugeot. | 912 450 03 |
| 4 W |  | Mazda, Toyota, Nissan, Mitsubishi (B-C-H). | 912 450 04 |
| 5 S |  | Mitsubishi, Nissan 2.8, Toyota L., Ford Maverick 2,7D(93-96), Isuzu, Kia 2,5 D/Tci (02-), Hyundai 2,5 D/TD(91-98,-), | 912 450 05 |
| 6 S |  | Audi, Opel, Seat, Ford 2.7, Hyundai, Kia, Mazda, Mitsubishi, Nissan, Suzuki 2.0, Toyota Hiace, Land Cruiser 2.5., Isuzu 1.5, 2.0, 2.2, 2.4 D/TD, Mazda 2.0, 2.2, 2.5 D/TD, Mitsubishi Pajero 3.2 (03-), Opel 1.7(TC4EE1), 2.2(C223), VW Taro 2,4D(89-98), | 912 450 06 |
| 7 W |  | Mitsubishi, Toyota C, Kia K 2700. | 912 450 07 |
| 8 S |  | Vw, Audi, Seat, Skoda 1.9 / 2.5 TDI, BMW 1.8 / 2.5 TDS 2.0 / 3.0 d (00-), Alfa 2.5 TD (95-98), Chrysler 2.5 TD (95-), Citroen / Peugeot 1.5 / 1.8 / 1.9, Daica 1.5 dCi(05-), Fiat 1.9(DW6), Ford 1.9 TDI, 2.5 TD(Scorpion), Ford, Honda Accord 2.0, Land Rover 2.0(98-), 2.5TD(99-), Mitsubishi 1.9, Nissan 1.5/1.9/2.2 D/dCi, Opel, Renault 1.5/1.9/2.1/2.2 DTI (94-), Rover, Volvo 1.9 / 2.5, | 912 450 08 |
| 8 L |  NEW | Flexible Adapter 300 mm long - use as an 8S and 10S Adapter for hardly accessible glow plugs | 912 450 08L |
| 9 S |  | Audi A8 3.3 TDI, VW 2.5 V6, 3.3, 4.0. | 912 450 09 |
| 10 S |  | Audi, VW 1.9 TDI (00-), BMW 2.5 / 3.0 (03-), Citroen, Kia Carens 2.0, Retona 2.0, Rio, Sportage, Land Rover 3.0 (02-), Mitsubishi Carisma 1.9 DI (02-), Nissan 1.5 dCI (03-), Opel Vivaro 1.9, Renault 1.5 / 1.9 dCI, Rover 2.0 / 3.0 (02-), Seat 1.9 (04-), Volvo 1.9 DCI. | 912 450 10 |
| 11 W |  | Citroen Berlingo 1.9 (99). | 912 450 11 |
| 12 W |  | Audi, VW 2.5, 2.8 TDI. | 912 450 12 |
| 13 W |  | VW Polo 1.3 l, Seat. | 912 450 13 |
| 14 W |  | Opel (without Corsa and Kadet with engine Isuzu). | 912 450 14 |
| 15 W |  | Alfa Romeo, VW, Audi, Mercedes, BMW, Citroen, Fiat, Ford, Nissan, Lancia, Opel, Peugeot, Renault, Rover, Seat. | 912 450 15 |
| 16 W |  | VW, Audi, Seat, Skoda 1.9 TDI. | 912 450 16 |
| 17 W |  | Opel with engine Isuzu. | 912 450 17 |
| 18 W |  | Kia Carnival. | 912 450 18 |
| 19 W |  | Isuzu Midi 2.2 D. | 912 450 19 |

You can order other types of Adapters after prior contact with the manufacturer (distributor)

10 Apply the required dimensions to the corresponding figure from the last page of the catalog and sent to the manufacturer.

Adapters - Measuring tips for Diesel engines

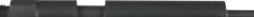
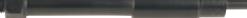
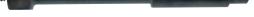
Adapters - Measuring tips for compression pressure testers Diesel. Adapters are suitable for testers: MCS-50, SPCS - 50, SPCS - 50 3A, SPCS - 50 SK and PCSm - 40. Screw in place of the glow plugs or injectors: **W** - injector, **S** - glow plug connection to the screw thread.

| No. | | Application | No. art. |
|------|---|--|------------|
| 20 W |  | Fiat Ducato 2.8 D. | 912 450 20 |
| 21 W |  | Citroen Jumper 2.5 TDI. | 912 450 21 |
| 22 W |  | Opel Vivaro/Renault Master 2.0 dCi NEW | 912 450 22 |
| 23 W |  | Mazda 626. | 912 450 23 |
| 24 W |  | Vans: Peugeot i Citroen 2.5 D. | 912 450 24 |
| 25 S |  | Mercedes (611 / 612 / 613) CDI 200 / 220 / 270 / 320 (98-), Sprinter CDI 208 / 211 / 213 / 216 / 308 / 311 / 313 / 316, Vito CDI (98-), Chrysler 2.2 (02-), Jeep Grand Cherokee 2.7 / 3.0 (02-), Land Rover 2.5, Jaguar 2.0 (03-). | 912 450 25 |
| 26 S |  | Audi, VW, Skoda V6 2.5 TDI (98-), Citroen/Peugeot 2.0/2.2 HDI (99-), Jumper 2.5 TDI, Fiat 2.0 / 2.2 JTD (DW12). | 912 450 26 |
| 27 S |  | Opel: Astra / Frontera / Omega / Sintra / Vectra 2.0 / 2.2 / 2.5 / DTI (97-). Opel DTL, Saab 9-3 TID 2.2 (98-), Chrysler 2.2 CRD, Ford 2.0TDCi (07-) Mercedes A 1.7 CDI, Mercedes 2.2, 2.7 CDI, Alpina 3.0, | 912 450 27 |
| 28 S |  | Ford: Fiesta, Focus 1.8 TDCi (98-), Lancia 2.0 / 2.2 JTD (02-). | 912 450 28 |
| 29 S |  | FORD: Fiesta, Furio 1.4 TDCi; CITROEN / PEUGEOT 1.4, 1.6 HDI (02-), PEUGEOT 1.6, 1.8, 1.9 (98-), RENAULT: Avantime, Master dCi 2.2 (00-), Jaguar 2.7 (04-), Mazda 1,4CD (03-) | 912 450 29 |
| 30 S |  | Ford Mondeo 2.0 TDCi; Transit 2.0, 2.3, 2.4 Dura Torq (00-), Citroen Jumper 2.2 HDI(06-), Ford 1,8 TDCi | 912 450 30 |
| 31 S |  | Nissan Terano 3.0 D (02-), Renault 3.0 dCi | 912 450 31 |
| 32 S |  | Honda 1.7 / 2.2 CDTI (02-), Isuzu 2.0 DTI (99-), Opel 1.7 DTI / CDTI (00-04), Opel 3.0 V6 CDTI (03-), Renault 3.0 Dci (02-), Saab 3.0TID(01-) | 912 450 32 |
| 33 S |  | Alfa Romeo 146/166, Fiat, Lancia 1.9/2.4 JTD (97-), Fiat Ducato 2.8D, Iveco 2.5D/2.8D(98-), Citroen Jumper 2.8 HDI (00-), Renault Master (98-), Hummer 6.5D (92-) | 912 450 33 |
| 34 S |  | Opel: Astra, Corsa, Combo, Vectra 1.5 / 1.7 / D / TD; Opel 1.7 D, TDS Astra, Combo with Isuzu engine TI, CDTI (00-04), Smart 0.8 CDI OM 660(01-) | 912 450 34 |
| 35 S |  | Audi / VW 1.9, 2.0 / 2.0 PD (04-), Audi 2.7/3.0 V6 (04-) VW Phaeton 3.0 V6 (04-) 5.0 V10 (02-), BMW 3.9, 4.4 (05-), Chrysler 2.5, (00-), 2.8 CRD (04-), Jeep Cherokee 2.5(01-), 2.8 (04-), Opel Movano 2.2 DTI, Renault: Laguna, Master, Avantime 2.2 dCI (00-), Opel Vivaro 2.5, Saab X22 DTH,D22SL (98-00) | 912 450 35 |
| 36 S |  | Fiat 1.3 JTD, Opel 1.3 D (Z13DT), Opel Corsa 1.3 CDTI, Lancia Y (03-), Citroen/Peugeot 1.4, 1.6 HDI (05-), Ford 1.4, 1.6 TDCi (04-), Suzuki 1,3 DDIS (03-), Mini D 1,6 (07-) | 912 450 36 |
| 37 S |  | Mercedes C, E,G : 200, 220, 250,300 D/TD (93-01) Engine: OM 604, 605, 606; Puch 300 TD (96-) OM 606 | 912 450 37 |
| 38 S |  | Opel Movano, Vivaro: 2.2, 2.5 DTI (00-), Renault Avantime, Master II, Trafic II 1.9 dCI (F9Q762), 2.2 dCI, 2.5dCi, Nissan Almera, Interstar, Pathfinder, Primastar, X-Trial 2.2 DidCi, 2.5 dCi. | 912 450 38 |

You can order other types of Adapters after prior contact with the manufacturer (distributor)

Apply the required dimensions to the corresponding figure from the last page of the catalog and sent to the manufacturer.

Adapters - Measuring tips for Diesel engines

| No. | Zdjęcie | Application | No. art. |
|------|---|--|------------|
| 39 S |  | Honda 2.5 TD, Hyundai 2.5 CRDi (03-), Kia Sorento 2.5 CRDi (02-), Land Cruiser 3.0, Preria 2.0, Rav 4 2.0 (01-), Toyota Avensis, Dyna, Hiace, Hilux 2.5 (01-) / 2.0 D4-D; Toyota Land Cruiser 3.0 (02-), Previa RAV 4 2.0 (01-) | 912 450 39 |
| 40 W |  | Citroen, Peugeot 2.0 HDI | 912 450 40 |
| 41 W |  | Renault 1.5 Cdi, Fiat 2.0 JTD , Rover 2.0 CDTi | 912 450 41 |
| 42 W |  | Renault 1.9 dTi, 2.5 Tdi. | 912 450 42 |
| 43 W |  | Ford TDCI 1.8 Dura Torq. | 912 450 43 |
| 44 W |  | Kia 1.6 CRDI, Mercedes z Engineami: OM 611,612,613 . CDI 1.7, 2.2, 2.7, 3.0, 3.2 (98-) | 912 450 44 |
| 45 W |  | Ford, Mazda 2.0 TDCI. | 912 450 45 |
| 46 W |  | Citroen, Peugeot 2.2 HDI 16V, Volvo; Ford 2.0 TDCI (-07-) | 912 450 46 |
| 47 W |  | Citroen, Peugeot 1.4 HDI 8V (DV 4TD). | 912 450 47 |
| 49 S |  | Alfa Romeo 147,156,159,166, Brera, Spider, Spider 1.9, 2.4 JTD Multijet (03-), Fiat 1.6 JTD, 1.9D Multijet(07-), Croma 1.9, 2.4 Multijet (05-), Stilo 1.9 JTD, Multijet Engine 19245, 937 A5(04-), Lancia Thesis 2.4 JTD siln.841G000 (03-), Opel Astra H, Signum, Vectra C, Zafira 1.9 CDTI Engine: Z 19DTT Z 19 DTH (04-), Saab 9-3 1.9 Z 19DTT Z 19DTH (04-) | 912 450 49 |
| 50 S |  | Citroen C6, Peugeot 607 2.7 HDI 24V sil.DT17ED4 (04-), Jaguar S-Type 2.7 D (04-), Volvo S60, S80, V70 II sil. D 5244 T,T2, (01-) | 912 450 50 |
| 51 S |  | Opel Vectra 2.0 / 2.2 CDTI (03-), Vivaro 2.5 (03-), Renault Master 2.8, Peugeot Boxer 2.0 HDI | 912 450 51 |
| 52 S |  | Alfa Romeo 1.9 JTD, JTDM 8V, 2.4 JTD:146, 147, 156, 159, 166 (99-), Citroen Jumper 2.8 HDI (00-), Fiat 1.9 JTD Bravo, Brava, Croma (05-) (Multijet 88KM), Marea 1.9TD 105, 110, 2.4 JTD 130, Multipla (01-) Punto (99-) siln.188A2, 188A7, 188B2, Sedici(06-), Strada(03-), Lancia Kappa 2.4 JTD 838A8, Lybra 1.9, 2.4 JTD (99-), Musa 1.9 JTD, Thesis 2.4 JTD 841C, Opel 1.9 CDTI Astra H Z 19DT(05-07), Chevrolet Impala, Malibu, Monte Carlo 4.3, 5.7 | 912 450 52 |
| 53 S |  | Chevrolet Silverado, Sierra 6.6 (01-), Opel Monterey B 3.0 DTI , Isuzu 3.2 (00-) | 912 450 53 |
| 54 S |  | Chrysler Crusier, Touring, 300C : 2.2, 3.0 CRD (02-), Mercedes Engine : OM 629, 640, 642, 646 A (04-), B (05-) 2.0 CDI, C 3.0 CDI , CLK 2.2 CLS 3.2E, GL/M/S: 3.0, 4.0 (04-), | 912 450 54 |
| 55 S |  | Smart 1.5 CDI (04-) | 912 450 55 |
| 56 S |  | Opel Antara 2.0 CDTI | 912 450 56 |
| 58 W |  | Fiat Ducato, Iveco 2.8 JTD. | 912 450 58 |
| 59 W |  | Renault 1.9 dCi (BOSCH) NEW | 912 450 59 |
| 60 W |  | Renault 2.2, 2.5 dCi | 912 450 60 |

You can order other types of Adapters after prior contact with the manufacturer (distributor)

12 Apply the required dimensions to the corresponding figure from the last page of the catalog and sent to the manufacturer.

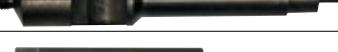
| No. | Application | No. art. |
|------|--|-------------|
| 64 W | Ford, Lancia, Chrysler 2.5 TD - Engine z 4-częściową głowicą | 912 450 64 |
| 65 W | Ford 2.0 / 2.4 Dura Torq - Transit, Mondeo (115KM/130KM) | 912 450 65 |
| 66 W | Fiat 2.4 JTD Ducato, Alfa Romeo 156, 166, Lancia 1.9 JTD | 912 450 66 |
| 67 W | Renault Master, Opel Movano 2.2 D, 2.5 DTI | 912 450 67 |
| 68 W | Fiat 1.3 JTD, Opel 1.3 D (Z13DT), Chrysler 2,5 | 912 450 68 |
| 69 W | Citroen, Peugeot 1,6 HDI | 912 450 69 |
| 70 S | Citroen, Peugeot 2,2 HDI (06-) | 912 450 70 |
| 71 S | Audi, VW, Seat, Skoda 2.0 TDI/PD (03-) siln. BKB, AZV, BMN, BKP, BMR; Mitsubishi Grandis 2.0 DI-D (05-) | 912 450 71 |
| 72 W | Ford Mondeo, S-Max, Galaxy, Transit, Peugeot Boxer III, Citroen Jumper, (Engine „Puma” 2.0/2.2 TDCI). | 912 450 72 |
| 73 S | Fiat Ducato 2.3 JTD (02-), Boxer 3.0 HDI. | 912 450 73 |
| 74 S | Toyota Yaris 1.4D-4D (01-), Mini One D 1.4 (03-) | 912 450 74 |
| 75 W | Mercedes Engine.: OM601, 602, 603 , 604, 605, 606 , 200 D, 250 D, 300D (93-) | 912 450 75 |
| 76 W | BMW TDS, Renault, Opel 2.5 TD | 912 450 76 |
| 77 S | Renault 2.0dCi / 3.0dCi M9R (also Nissan i Opel Vivaro) | 912 450 77 |
| 77 L | Adapters elastyczny dl. 400 mm - Application jak Adapters 77S, do trudno dostępnego świec żarowych. | 912 450 77L |
| 78 W | Ford Transit 2.5 I | 912 450 78 |
| 79 W | Fiat D (Iveco, Ducato, (direct injection), Renault Master 2.5/2.8 DTI (S9W), Opel Movano | 912 450 79 |
| 80 W | Fiat D non-direct injection, VW, Ford, Peugeot, Renault, Citroen | 912 450 80 |
| 81 W | Ford Transit 2.5 (old type), Alfa Romeo, Fiat, Ford, Lancia, Renault, Rover, Seat | 912 450 81 |
| 82 W | Mercedes 508 / 608 Engine 300 | 912 450 82 |
| 83 W | Iveco 2.3, 3.0 from 2006 | 912 450 83 |
| 84 W | Mercedes 2.9D - Sprinter | 912 450 84 |
| 85 S | Isuzu 2,8TD (87-91), Opel Campo 2.5 D (94-01-) Opel Frontier 2.8TD (95-) | 912 450 85 |
| 86 S | Peugeot Boxer III 2.0 / 2.2 HDI | 912 450 86 |
| 87 S | Ford USA 6,0 I | 912 450 87 |

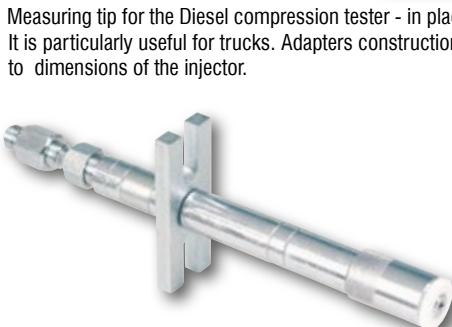
Adapters - Measuring tips for Diesel engines

| No. | Application | No. art. |
|-------|--|------------|
| 88 S | Smart 0.8 Cdi | 912 450 88 |
| 89 W | Fiat Ducato 2.3 , 3.0 JTD | 912 450 89 |
| 90 W | Engine 4C90 Andoria (Orlin, Žuk) | 912 450 90 |
| 91 W | BMW 2.0 Common Rail LAND ROVER Freelander | 912 450 91 |
| 92 S | Mazda 2.0 (świeca żarowa NGK Y529J) | 912 450 92 |
| 93 W | Citroen, Peugeot 1.6, 2.0 HDI + FORD | 912 450 93 |
| 94 W | Opel 1.9 CDTI Fiat / AlfaRomeo / Lancia 1.9 MultiJet | 912 450 94 |
| 96 S | Subaru 2.0d boxer | 912 450 96 |
| 97 S | Citroen Jumper, Peugeot Boxer 2.5 TDi (96-) | 912 450 97 |
| 99 W | Toyota 3.0 D4D Land Cruiser (06-10) | 912 450 99 |
| 101 W | Hyundai 2.0 CRDI / Opel Antara | 912 451 01 |
| 102 S | Fiat, Opel 1.3 CDTI | 912 451 02 |
| 103 W | John Deere JDG 10824 do Of engines 4045 | 912 451 03 |
| 104 W | VW/Audi/Seat/Skoda 1.6 TDI CR (np.: Engine CAVE 75 KM) | 912 451 04 |
| 105 S | KIA 2.0 / 2.2 (NGK CZ 105/Y1003AS) Opel 1.7 A17 DTS/DTF (2010-) | 912 451 05 |
| 106 S | Ford Ranger 2.5 TDCI (2009) | 912 451 06 |
| 107 W | Hyundai 1.5 CRDi / KIA | 912 451 07 |
| 108 W | Alfa Romeo 1.9 (2007), Opel 2.0 CDTI | 912 451 08 |
| 109 W | Volvo 2.4 D5 (2006) | 912 451 09 |
| 110 W | Nissan Navara 2.5 dCi 126 KW (2007) | 912 451 10 |
| 111 W | BMW 2.0 / 3.0 d 177/245 KM (2008-) | 912 451 11 |
| 112 W | Mercedes OM 651 | 912 451 12 |
| 113 W | KIA Carnival/Sorento 2.9 CRDI / Hyudnai Santa Fe (DELPHI) | 912 451 13 |
| 114 W | KIA Sorento 2.5 CRDI / Hyundai | 912 451 14 |
| 115 W | VW/Audi/Seat/Skoda 1.9/2.0 TDI PD 8V | 912 451 15 |
| 116 S | Toyota 2.2 D4D | 912 451 16 |
| 117 W | Ford S-MAX 2.0 TDCI 180 KM (2016-) | 912 451 17 |

You can order other types of Adapters after prior contact with the manufacturer (distributor).
 Apply the required dimensions to the corresponding figure from the last page of the catalog and sent to the manufacturer.

Adapters - Measuring tips for Diesel engines for trucks

| No. | | Application | No. art. |
|------|---|--|------------|
| 48 W |  | Perkins - forklifts, special machinery | 912 450 48 |
| 57 W |  | DAF GS 200 M0075 (6 CYL TD 200 kW) | 912 450 57 |
| 61 W |  | Truck - MAN 2866, 2566, ... DB OM 401, 421, 441. | 912 450 61 |
| 62 W |  | Truck - DB OM 352, 422, | 912 450 62 |
| 63 W |  | Truck - MAN 0826, 0824, | 912 450 63 |
| 95 W |  | Engine - MAN D20 i D26 | 912 450 95 |
| 98 W |  | Engine - Deutz 1013 | 912 450 98 |

Adapter - DC UNIVERSAL**Art. 912 452 00**

912 452 00

Set of measurement Adapters for passenger cars and vans**Adapters MASTER****Upgrade !****Art. 912 460 00****Description**

Set of the most popular Measuring Adapters for the sampler
Diesel compression pressure - in place of glow plugs
or injectors.

Specification

| | |
|-------------------------------|------------------------------------|
| Adapters in place glow plugs: | Adapters in place of the injector: |
| - 2 S 912 450 02 | - 16 W 912 450 16 |
| - 5 S 912 450 05 | - 42 W 912 450 42 |
| - 6 S 912 450 06 | - 44 W 912 450 44 |
| - 8 S 912 450 08 | - 75 W 912 450 75 |
| - 25 S 912 450 25 | |
| - 26 S 912 450 26 | |
| - 30 S 912 450 30 | |
| - 36 S 912 450 36 | |
| - 49 S 912 450 36 | |
| - 52 S 912 450 52 | |
| - 71 S 912 450 71 | |

Upgrade !

Retractable Adapters: 15W and 76W
Added Adapters: 49S and 71S

**Application of Adapters - according to table p. 9-15****Weight**

3,50 kg

Fiat / Alfa Romeo / Lancia Adapters Kits**Upgrade !****Art. 912 461 00****Specification**

Adapters in place glow plugs: 9 szt + 1 = 10szt:
2S, 8S, 26S, 28S, 33S, 36S, 49S, 52S, 73S, +102S

Adapters in place of the injectorot: (14 pcs.):
1W, 15W, 20W, 41W, 58W, 64W, 66W,
68W, 79W, 80W, 81W, 83W, 89W, 94W, +108W

Application Adapters - according to table p. 9-15**Weight**

7,0 kg

Citroen / Peugeot Adapters Kits**Art. 912 462 00****Specification**

Adapters in place glow plugs:(14 pcs.):
2S, 3S, 8S, 10S, 26S, 29S, 30S, 33S, 36S,
50S, 52S, 70S, 86S, 97S

Adapters in place of the injectorot: (12pcs.):
1W, 11W, 15W, 21W, 24W, 40W, 46W, 47W,
69W, 72W, 80W, 93W

Application Adapters - according to table p. 9-15**Weight**

6,8 kg

COMPRESSION DIESEL ADAPTER - SETS

Ford Adapters Kits

Upgrade !

Art. 912 463 00

Specification

Adapters in place glow plugs:(9 pcs. + 2 = 11pcs.):

2S, 5S, 6S, 8S, 27S, 28S, 29S, 30S, 36S, **+87S, +106S**

Adapters in place of the injector:(11 pcs. - 1 + 1 = 11pcs.):

1W, 15W, 43W, 45W, 64W, 65W, 72W, 78W, **80W, 81W, 93W, + 107W**

Weight

6,1 kg



Mercedes Adapters Kits

Upgrade !

Art. 912 464 00

Specification

Adapters in place glow plugs: (6 pcs.):

2S, 3S, 25S, 27S, 37S, 54S

Adapters in place of the injector:(6 pcs. + 1 = 7 pcs.):

1W, 15W, 44W, 75W, **82W, 84W, +112W**

Weight

3,9 kg



Opel Adapters Kits

Upgrade !

Art. 912 465 00

Specification

Adapters in place glow plugs: (18 pcs. + 2 = 20pcs.):

2S, 6S, 8S, 10S, 27S, 32S, 34S, 35S, 36S, 38S, 39S, 49S, 51S, 52S, 53S, 56S, 85S, 102S, **+77S, +105S**

Adapters in place of the injector: (10 pcs. + 1 = 11pcs.):

1W, 14W, 15W, 17W, 67W, 68W, 76W, 79W, 94W, 101W, **+108W**

Application of Adapters - according to table p. 9-15

Weight

6,6 kg



Renault Adapters Kits

Upgrade !

Art. 912 466 00

Specification

Adapters in place glow plugs: (11 pcs. + 1 = 12 pcs.):

2S, 8S, 10S, 25S, 29S, 32S, 33S, 35S, 38S, 51S, 77S, **+31S**

Adapters in place of the injector: (10 pcs.):

1W, 15W, 41W, 42W, 59W, 60W, 67W, 76W, 79W, 81W

Weight

6,5 kg



VW/Audi/Seat/Skoda Adapters Kits

Upgrade !

Art. 912 467 00

Specification

Adapters in place glow plugs: (10 pcs.):

2S, 6S, 8S, 8L-flexible, 9S, 10S, 26S, 35S, 36S, 71S

Adapters in place of the injector: (5 pcs.-1 + 2 = 6pcs.):

4W, 12W, 15W, 16W, 80W, **+104W, +115W**

Weight

3,6 kg



Compression pressure tester with a set of Adapters SPCS - 17,5 SK MASTER**Description**

Compression pressure tester for petrol engines with a record of the measurement. In order to simplify handling in connection with the quick couplers.

Measuring range

3 - 17,5 bar (0,3 - 1,75 MPa)

Specification

| | |
|---|------------|
| - Measuring compression instrument equipped with a handle in the starter switch | 917 100 00 |
| - Pressure hose 360 mm | 917 002 00 |
| - Angle connection SK 90 ° | 917 014 90 |
| - Electric wiring to start the engine | 912 404 00 |
| - The registration Diagrams 100 pcs | 917 105 00 |
| | |
| - Adapters M10/SK 50mm | 917 030 50 |
| - Adapters M10/SK 100mm | 917 030 80 |
| - Adapters M10/SK 250mm | 917 030 70 |
| | |
| - Adapters M12/SK 50mm | 917 031 50 |
| - Adapters M12/SK 100mm | 917 031 80 |
| - Adapters M12/SK 250mm | 917 031 70 |
| | |
| - Adapters M14/SK 50mm | 917 032 50 |
| - Adapters M14/SK 160mm (standard) | 917 010 00 |
| - Adapters M14/SK 250mm | 917 032 70 |
| | |
| - Flexibel Adapter M14 | 917 032 80 |
| | |
| - Rigid extender PD-17,5 SK with conical rubber | 917 012 00 |
| | |
| - Reduction M18x1,5 | 917 011 00 |
| | |

Weight

5,75 kg

**Additional equipment****+ Measuring Adapters**

Special Adapters screwed in place of spark plugs

See page 20

PETROL &**DIESEL****Electronic compression tester**

with a record of measurement for Diesel nad petrol engines

MCS - 50**Upgrade !****Art. 970 000 00****Description**

It is possible to measure and save results for 12 cylinders.

Measurement archive (50 last saved in the database)

During the measurement it is possible to observe the pressure increases on the screen. The results of measurements are displayed in the form of bar graphs of pressure values in bars and compared in percentages. Wireless transmission of data to the printer.

Two power options for the printer (230 V or battery meter)

FULL MOBILITY SET WITH PRINTER**Measuring range**

0 - 50 bar (0 - 5,0 MPa)

Specification

The exact Description of the meter can be found on page 5 of the catalog

**UPGRADE!**

Electronic manometer function: 0 do 50bar.

Compression tester with the measurement record and connections to quick couplers **SPCS - 17,5 SK****Upgrade !****Art. 917 000 00****Description**

Compression pressure tester for petrol engines with a record of the measurement. In order to simplify handling equipped a connection with the quick couplers.

A pushbutton have switch for starting the starter that allows for one-person operation of the tester is installed in the holder to tester.

Measuring range

3 - 17,5 bar (0,3 - 1,75 MPa)

Add M12x1,25 dl. 110mm**Specification**

- Measuring compression instrument equipped with a handle in the starter switch
- Pressure hose 360 mm 917 100 00
- Adapter SK 160 mm - M14x1,25 917 002 00
- Adapter SK 160 mm - M14x1,25 917 010 00
- Reduction 18x1,5 917 011 00
- Angle connection SK 90° 917 014 90
- Electric wiring 912 404 00
- The registration Diagrams 100 pcs 917 105 00

Weight

2,80 kg

Additional equipment**+ Measuring Adapters**

Special Adapters screwed in place of spark plug
See page 20

**Manometric compression pressure tester with connections to quick couplers** **PCSm - 16 SK****Art. 908 000 00****Description**

Manometric compression pressure tester for petrol engines with the quick couplers.
On equipped Adapters screwed into the spark plug hole

0 - 16 bar (0 - 1,6 MPa)

Specification

- Pressure gauge with pressure hose, drain valve and return valve 908 100 00
- Adapters (Measuring tip) - M14x1,25 917 010 00

Weight

0,80 kg

Additional equipment**+ Art. 917 011 00**

Reduction M18x1,5 / M14x1,25

**+ Measuring Adapters**

Special Adapters screwed in place of spark plug
See page 20

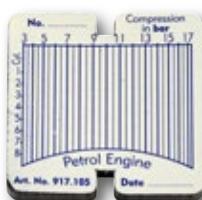
**The registration Diagrams** **SPSC-17,5 SK****Art. 917 105 00****Description**

The registration Diagrams to tester's SPCS-17,5 SK

Package contains
100 pieces of diagrams.

Weight

30 g

**Angled pipe couplings SK**for testers SPCS - 17,5 SK
PCSm - 16 SK**Art. 917 014 90****Art. 917 014 45****Angled pipe couplings SK 90°****Angled pipe couplings SK 135°****Description**

Pipe couplings can be used as optional accessories for any types of testers equipped with quick-acting connectors

Weight

60 g

Adapters SK - to testers SPCS-17,5 SK / PCSm-16SK / MCS-50

- to SPCS-15 - with reduction SPCS-15/SK Art.916 110 00 (page 21)

THREADED Adapter M10x1

Art. 917 030 50



50mm

Description

Adapter for compression testers PETROL
screwed in the spark plug hole.

Art. 917 030 80



110mm

Art. 917 030 70



260mm

THREADED Adapters M12x1,25

Art. 917 031 50

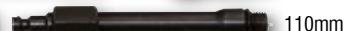


50mm

Description

Adapters for compression testers PETROL
screwed in the spark plug hole.

Art. 917 031 80



110mm

Art. 917 031 70



260mm

Art. 917 033 80



370mm

Art. 917 033 85

M12x1,25 long thread



370mm

Art. 917 031 75

M12x1,25 long thread



260mm

THREADED Adapters M14x1,25

Art. 917 032 50



50mm

Description

Adapters for compression testers PETROL
screwed in the spark plug hole.

Art. 917 010 00



150mm

Art. 917 032 70



250mm

Art. 917 032 75

M14x1,25 long thread



250mm

Art. 917 032 80



370mm

Art. 917 032 88

M14x1,25 long thread FORD



370mm

Rigid extension in place of the spark plug

PD-17,5 SK

Art. 917 012 00

Description

For compression tester SPCS-17,5 SK; MCS-50 and PCSm-16 SK
(quick couplers connection).
Length 260 mm.

On equipped 3 conical rubber bands.

Weight

0,20 kg

**Spare parts for compression tester PETROL**

SPSC-17,5 SK

The quick couplers SK

Art. 912 208 00

**Non-return valve**

Art. 916 050 00

**Pressure relief valve**

Art. 912 001 10



Compression pressure tester with the measurement record

SPCS - 15

| | |
|----------------------|--|
| Description | Compression tester with a record of measurement for petrol engines. A pushbutton have switch for starting the starter that allows for one-person operation of the tester is installed in the holder to tester. |
| Measuring range | 3 - 15 bar (0,3 - 1,5 MPa) |
| Specification | - Measuring compression instrument equipped with a handle in the starter switch - Rigid extender 120 mm 916 100 00 - Flexible extension cord 400 mm 916 010 00 - Electric wiring 916 011 00 - Conical rubber bands 3 pieces: - diameter 24 mm 3 pieces 916 002 00 - diameter 20 mm 1 piece 916 020 20 - diameter 16 mm 1 piece 916 020 16 - The registration Diagrams 200 pieces (2 sets) 916 105 00 |
| Weight | 2,48 kg |
| Additional equipment | See below |



Rigid extender 260 mm

PD-15

Art. 916 012 00

Description For compression tester SPCS-15 (connector threaded).



Weight 0,20 kg

The registration Diagrams

SPSC-15

Art. 916 105 00

Description The registration Diagrams to tester's SPCS-15

Package contains 100 pieces of diagrams.



Weight 60 g

Conical rubber bands set 5 pcs for testers SPCS - 15

Art. 916 020 00

Description - 2 pieces diameter 24 mm 916 020 24
- 2 pieces diameter 20 mm 916 020 20
- 1 piece diameter 16 mm 916 020 16

Weight 60 g

Reducing nipple SPCS-15 / SK

Art. 916 110 00

Reducing nipple allows you to see all the extra Adapters with quick coupling with the tester type SPCS-15



Spare parts for compression tester PETROL

SPCS-15

Non-return valve

Art. 916 050 00



Diagram cassette

Art. 912 007 00



Glass for tester

Art. 912 001 72



Tester lid

Art. 912 001 71



PETROL &

DIESEL

Cylinder Leakage Tester

PSC

Description

Cylinder Leakage Tester is designed to assess the state of technical petrol and Diesel engines. The device can also be used to diagnose other equipment such as compressors or pumps, where the parameter is the tightness. Tester is a device Measuring pneumatic, is a powered from an external source of compressed air. Leakage measurement is performed in the cylinder piston GMP, which is used to gauge 930 500 00.

Specification

- The Measuring device with manometer's indicator 0 - 100 % (kl. 1,6) 930 001 00
- Measuring hose with quick coupling 930 002 00
- Reduction M12/SKSK - for Adapter Diesel (1pcs) 912 205 00
- Rubber seals (O-rings) 930 100 00

- Adapters for petrol engines 5 pieces: M10x1, M12x1,25, M14x1,25 - 2pc, M18x1,5

- Adapters for diesel engines 7 pieces: 2S, 6S, 8S, 26S, 36S, 44W, 75W
Description of the Adapters in the table on pages 8-13

4,15 kg

Additional equipment

+ Art. 930 500 00

Gauge GMP
Description below



+ Art. 912 452 00

Adapter DC
Description p.15



+ Adapters Diesel

See pages 9-15

+ Adapters Sety

pages 16 - 17

Adapters kits for specific brands of cars.



PETROL &

DIESEL

Top dead center indicator piston position

GMP

Art. 930 500 00

Description

Pneumatic indicator with a scale for determining the upper dead center of piston, which is useful for example to measure the leakage cylinders.

Specification

- Indicator with scale 930 501 00
- Flexible hose 930 502 00
- Handle 930 503 00
- Rubber conical diameter 16 mm 916 020 16
- Rubber conical diameter 20 mm 916 020 20
- Rubber conical diameter 24 mm 916 020 24

Weight

0,60 kg



Diagnostic device for petrol injection engines**JETRONIK SK****Art. 922 000 00****Description**

Diagnostic kit for engines with petrol injection
(with connections at quick couplers).
Enables measurement engine's of petrol injection engine
electronic or mechanical.

The device applies to:

- Control of injector leakage.
- Control of the fuel system leak connections
- Checking the fuel pump-ntrol quantities of served fuel.

Specification

| | |
|---|------------|
| - 25 connectors adapted to most vehicles | 922 132 00 |
| - Measuring tips - with valve needle opening (to the diagnostic connector with valve): | |
| 32 - Opel Motronic: 1,5, 2,5, 4,0 | 922 132 00 |
| 33 - Ford, Ford Zeta and SEFi, Volvo 850 | 922 133 00 |
| 59 - Fiat, Alfa, Lancia (98 -) | 922 159 00 |
| - Hose connecting 2 m | 922 125 00 |
| - Manometer 0 - 10 bar | 922 003 00 |
| - Manometer additional 0 - 2,5 bar | 922 204 00 |
| - Vacuometr -1 to 3 bar | 922 205 00 |
| - Hoses connecting 3 pieces | 922 009 00 |
| - Three-way valve | 922 020 00 |
| - Drain valve | 922 030 00 |
| - Teflon gasket complete | 922 150 00 |
| - Plastic case | 922 300 00 |

Weight

3,60 kg

Additional equipment

See next page.

**Diagnostic device for petrol injection engines****mini JETRONIK SK****Art. 922 400 00****Description**

Diagnostic basic kit for engines with petrol injection.

Specification

| | |
|-----------------------------------|------------|
| - Manometer 0-10 Bar | 922 003 00 |
| - Hose connecting 1 piece | 922 009 00 |
| - Reinforce tees on hoses ø 6 | 922 007 02 |
| - Reinforce tees on hoses ø 8 | 922 007 01 |
| - Hose ø 6 with headband (100 mm) | 922 000 10 |
| - Hose ø 8 with headband (100 mm) | 922 000 11 |
| Package - plastic case | |

Weight

1,00 kg

Additional equipment : See next page.

**Angled pipe couplings****Art. 917 014 90****Art. 917 014 45**

Angled pipe couplings SK 90°

Angled pipe couplings SK 135°.

Weight

60 g



**Manometer additional 0 - 2,5 bar
for Jetronik SK**
Art. 922 204 00

Description Manometer additional 0 - 2,5 bar to tester Jetronik SK. This manometer allows accurate measurements at lower controlled pressure ranges. For injection systems single point.

Weight 0,20 kg


**Vacuometr -1 to 3 bar
for Jetronik SK**
Art. 922 005 00

Description Vacuometr -1 to 3 bar to tester Jetronik SK. Vacuometr allows you to control the vacuum in the intake manifold pipes during the test the fuel regulator.

Weight 0,20 kg


Additional tips set. 7 pc
for Jetronik SK**Art. 922 100 00**

Description Set of 7 pieces of additional tips to Jetronik Tester SK.
Specification 1. Measuring tips - with needle valve opening (to the diagnostic connector with valve):
 - 32 - Opel Motronic: 1,5, 2,5, 4,0 922 132 00
 - 33 - Ford, Ford Zeta and SEFi, Volvo 850 922 133 00
 2. Measuring tips - to the connectors rings for connecting the pressure gauge:
 - 41 - M8 x 1 922 141 08
 - 42 - M10 x 1 922 142 10
 - 43 - M12 x 1,25 922 143 12
 - 44 - M12 x 1,5 922 144 13
 - 45 - M14 x 1,5 922 145 25
Weight Packaging - plastic suitcase 0,50 kg


Hose connecting 2 m
for Jetronik SK**Art. 922 125 00**

Description Hose connecting 2 m to tester Jetronik SK.
 Hose allows to measure and observe manometer in the cab while driving a car.
Weight 0,30 kg


Additional tips to Jetronik SK
Art. 922 150 00

Description 50 - Jaguar, Opel

**Art. 922 154 00**

Description 54 - Opel, Ford (with needle valve opening)

**Art. 922 151 00**

Description 51 - Opel 1.4 (97 -)

**Art. 922 155 00**

Description 55 - Hyundai

**Art. 922 152 00**

Description 52 - Rover

**Art. 922 156 00**

Description 56 - Mitsubishi (Colt, Galant, Lancer, Space Wagon, Space Runner)

**Art. 922 153 00**

Description 53 - Rover

**Art. 922 159 00**

Description 59 - Fiat, Alfa, Lancia (98 -) with needle valve opening



Diagnostic Set for the control of the low-pressure circulation

+ DIESEL

LP TESTER

Art. 919 670 00

Description

Diagnostic Set for the control of the low-pressure circulation
 -petrol engines
 -Diesel Common Rail (low-pressure)
 Suitable to check pressure of fuel line and back flow on gasoline and Diesel engines.
 Fuel supply pump tester to control the fuel pump.
 There are many possibilities of testing:
 - malfunction of fuel supply
 - malfunction of overflow valve
 - malfunction of feed pump
 - leaking oil/fuel leads
 - bubbles within the system
 - measurement under driving conditions possible



Specification

- Transparent tee with valves to check on which section (Fuel tank – fuel filter, or filter – engine) is the defect
- Gauge range -1...+3 bar
- Gauge range -1 - +15 bar
- 2 hoses 2 m long
- 2 hoses 0,3m o 8mm
- 2 hoses 0,3m o 6mm
- 2 Conical Adapters
- Plastic case

Weight 2,00 kg

Additional equipment

+ Art. 919 671 00

7 pairs of hose with SAE connectors



The device is compatible with the device „Jetronik SK”
 (The same kind of quick release)

Adapters set are suitable for fuel lines with quick connections according to SAE norm

SAE

Art. 919 671 00

Description

Supplement to set: 919 670 00 and 922 000 00

NEW

System pressure test on low pressure side (inlet Common Rail
 high pressure pump)

The included Adapters are suitable for fuel lines with quick connections according to SAE norm

7 pairs of hose with SAE connectors

Plastic case

Weight 2,00 kg



Oil Pressure Tester with ability to check the sensor

PCO - 10 C

Description

Oil pressure tester for petrol engines and Diesel with the possibility of simultaneously checking the oil pressure sensor whilst off the test engine.

It is designed to measure oil pressure in engines with pressurized circulation system.

0 - 10 bar (0 - 1,0 MPa)

Measuring range

| | |
|--------------------------------|------------|
| - Manometer with pressure hose | 914 300 00 |
| - Adapters (Measuring tip): | |
| - T1 - M10 x 1 | 914 202 01 |
| - T2 - M12 x 1,5 | 914 202 02 |
| - T3 - M14 x 1,5 | 914 202 03 |
| - Measuring reductions: | |
| - R1 - M12 x 1,5 | 914 202 04 |
| - R2 - M14 x 1,5 | 914 202 05 |
| - Electrical cable | 914 440 00 |
| - Copper gaskets 6 pieces | 914 430 00 |
| - Rubber seals 2 piecesy | 914 430 10 |

Weight

1,30 kg



Additional equipment:

+ Art. 914 202 00

Additional tips.
Description page 27



Oil Pressure Tester

PCO - 10

Description

Oil pressure tester for petrol engines and Diesel.
It is designed to measure oil pressure in engines with pressurized circulation system.

0 - 10 bar (0 - 1,0 Mpa)

Measuring range

| | |
|--------------------------------|------------|
| - Manometer with pressure hose | 914 510 00 |
| - Adapters (Measuring tip): | |
| - T1 - M10 x 1 | 914 202 01 |
| - T2 - M12 x 1,5 | 914 202 02 |

Weight

0,75 kg



Additional equipment:

+ Art. 914 202 00

Additional tips.
Description page 27



Oil Pressure Tester with quick couplers

PCO - 10 SK

Art. 914 700 00

| | |
|-----------------|--|
| Description | The device for Measuring the oil pressure in internal combustion engines equipped with quick couplers. |
| Measuring range | 0 - 10 bar (0 - 1,0 Mpa) |
| Specification | <ul style="list-style-type: none"> - Manometer with pressure hose long 1m - 10 pieces Measuring tips of various to most types of threads used in the engine oil pressure sensors - Angle connection 90° - Set of gaskets |
| Weight | 1,40 kg |



Oil Pressure Tester for automatic transmissions

PCO - 25 A

Art. 914 800 00

| | |
|-----------------|--|
| Description | The device is designed to measure the oil pressure in automatic transmissions. The measurement is done by manometer connection with the probe by means of Measuring tips of a sufficient size screw thread in the inspection hole in automatic transmission (in set. 7 pc Measuring tips). |
| Measuring range | 0 - 25 bar (0 - 2,5 Mpa) |
| Weight | 1,45 kg |



Measuring tips (additional) for oil pressure tester PCO-10C and PCO-10

Art. 914 202 00

| | |
|-------------|---|
| Description | Measuring tips connection to the thread: |
| - T4 | - Citroen, Peugeot, Renault, Skoda |
| - T5 | - Citroen, MAN, Mercedes, Peugeot, Renault, Talbot, Volvo |
| - T6 | - Daihatsu, Fiat, Ford, Honda, Hyundai, Isuzu, Mazda, Mitsubishi, Nissan, Opel, Rover, Subaru, Suzuki, Toyota |
| - T7 | - Austin, Chrysler, Daihatsu, Ford, Jaguar, Leyland, Mazda, Nissan, Opel, Renault, Rover, Saab, Vauxhall, Volkswagen, Volvo |
| - T8 | - Alfa Romeo, Bedford, Ford, Leyland, Opel, Saab, Vauxhall, Volvo |
| - T9* | - Land Rover |
| - T10 | - Rover |
| - T11 | - Fiat, Jaguar, Rover |

* T9 tip is not included in the set. available on special order.



Set for testing the cooling system leak**Art. 980 000 00****Description** Set for testing the cooling system leak.**Specification** On equipped of set is a pressure pump with hose and valve triggering and universal adjustable diameter tip seal for 19 - 40 mm to equalizing tanks / coolers.

Packaging - plastic suitcase

Weight 1,40 kg**Exhaust pressure tester - permeability of the catalyst****PCS - Kat****Art. 960 000 00****Description** This device is used to check the patency of the catalyst and exhaust system.

Overheating, contamination or mechanical damage to the catalyst can have a bad effect on removal exhaust (engine suppression).

Specification

- Manometer with hose 2 m 960 100 00
- Adapter M18 960 200 18
- Adapter M12 960 200 12
- Calibrator of thread M18 960 201 18
- Calibrator of thread M12 960 201 12

Weight 1,50 kg**Vacuometr for Measuring pressure and vacuum****VACU - 1****Art. 940 200 00****Description** Vacuometr for Measuring pressure and vacuum.**Specification**

- Vacuometr: -1,0 - 3,0 bar
- Hose with diam. 6 mm
- Hose with diam. 8 mm
- Connectors 5 pc
- Hose stopper

Weight 0,70 kg

Turbo diagnostics set (type of connection – bayonet)**Art. 940 100 00****Description**

Suitable for all charging pressure systems with bayonet connections is used to detect leaks in turbocharger system components, e.g. Pressure hoses, charge air coolers, etc.
 Check with the engine switched off and the components installed extra short test plugs with side test connection for narrow engine spaces can also be used to check the EGR valve can be operated without a special tool with a conventional tire filler provides a professional and economical diagnosis includes:

Pressure relief valve against damage caused by excessive test pressure

Specification

- Test Adapters with bayonet fitting, Ø 31 - 38 - 46 - 51 - 56 - 61 mm
 - can also be used in conjunction with additional leakage spray, which
 - means that even the smallest leaks can be made visible
- Suitable for e.g. Many VW, Mercedes-Benz, Renault, Nissan, etc. models

Weight

2,50 kg

**Turbo diagnostics set (Connectors multistage)****Art. 940 150 00****Description**

Suitable for all charging pressure systems with bayonet connections is used to detect leaks in turbocharger system components, e.g. Pressure hoses, charge air coolers, etc.
 Check with the engine switched off and the components installed extra short test plugs with side test connection for narrow engine spaces can also be used to check the EGR valve can be operated without a special tool with a conventional tire filler provides a professional and economical diagnosis includes:

Pressure relief valve against damage caused by excessive test pressure

Specification

Suitable for most load hoses
 Also suitable for the use of leak detectors

Gradation:

- 35 - 40 - 45 mm
- 50 - 55 - 60 mm
- 65 - 70 - 75 mm
- 80 - 85 - 90 mm

Weight

1,95 kg

**Leak Diagnosis (preliminary) engine without dismantling and removal of candles Injectors (Diesel)****Art. 930 600 00****Description**

Leak Diagnosis (preliminary) engine without dismantling and removal of candles Injectors (Diesel).

Particularly recommended for large car enginestrucks.

By Measuring the pressure in the crankcase through

Remove the bayonet to measure the level and place in this place

Rubber tip with pressure gauge.

WARNING !

We first connect the manometer 0-1 bar,

When the pressure is less than 0.1 bar, connect the manometer 0-10 mbar.

(In the truck service data these values are given,for cars - experiment mechanic)

Specification

Manometer 0-1 bar
 Manometer 0-10 mbar
 Hose with handle
 Rubber cones by 16 / 20 / 24mm

Weight

0,95 kg



Diesel injector tester**Art. 918 600 00****Description**

The tester allows you to check the following parameters injectors for diesel engines:

- Injector opening pressure,
- The shape of the stream fuel,
- The quality of atomization,
- The tightness of injector,
- Manner „dripping“ of injector.

Precise manometer of device is equipped with an additional clue, „drag pointer“, which stops at the opening of the injector and allows you to read the value of opening pressure after the completion of the test (no need to simultaneously observe form of the fuel injection and reading indicate the pressure on the manometer).

Technical parameters

Diameter manometer: 100 mm

Pressure range: 0 - 400 bar

Tray capacity: 330 cm³Cylinder capacity: 35 cm³**Weight**

5,50 kg

**Diagnostic kit for injection pumps****pumps VE / DPC / DPA****Art. 923 000 00****Description**

Allows measurement of pressure pumping and vacuum suction pumps: VE, DPC and DPA.

Specification

- Manometer 0 - 16 bar with hose,
- Vacuometr glyceric 0 - 1 bar with hose,
- Set of the appropriate connections to the injection pumps,

Weight

1,85 kg

**Tester Diesel pump discharge pressure****Art. 919 000 00****Description**

The device used to check the pump discharge pressure
Diesel engine fuel.

Connecting the device allows the observation of pressure in each section of the pump.

Description

Tester for checking the internal pressure
Diesel Tandem pumps 1.9 and 2.0 TDI VW and Audi

Specification

- Manometer glyceric 0 - 600 bar with hose M12 x 1,5
- Reduction M14 x 1,5
- Reduction M12 x 1,5

Specification

Manometer 0-16bar
Connection special dapter to the pump

Weight

0,8 kg

**Weight**

0,65 kg



Measurement kit high pressure for Common Rail systems

2500 bar

Art. 919 610 00

Description

Measurement kit high pressure for Common Rail systems.

Applicable the instrument allows:

- measurement of pressure Common Rail pump,
- Measuring the system pressure during engine operation,
- Tightness control of the injection system and injector.

The device has a vent valve Measuring system.

Specification

| | |
|-------------------------------------|------------|
| - Manometer glyceric 2500 bar | 919 610 10 |
| - Reinforce fees with vent | 919 600 50 |
| - Hose connecting (2 pc) | 919 600 20 |
| - Connector M12/M12 (2 pc) | 919 600 30 |
| - Reduction fuel tube M12/M14 (2pc) | 919 600 41 |
| - Reduction fuel tube M12/M12 | 919 600 42 |
| - Daeeration hose | 919 600 22 |

Packaging - plastic suitcase.

Weight

3,60 kg



Manometer glyceric of range 2500 bar

Pressure testing device for testing high pressure pumps during engine-start

1000 bar

Art. 919 620 00

Description

Common Rail high pressure testing device with analogue display for testing high pressure pumps during engine-start.

Operation range up to 1000 bar / 1400 psi.

The testing device has diverse applications due to the various adapters.

NEW

Specification

High pressure gauge, measurement range 0...1000 bar,
glycerine-filled with hose 600 mm

Angle Adapters connection – M14(l) / M12 (E)
Angle Adapters connection – M12(l) / M12 (E)
Adapters connection – M14(E) / M12(E)
Adapters connection – M12(E) / M12(E)
Adapters connection – M12(E) / M14(l)
Reduction fuel tube M12/M14 (3pcs)
Plastic case



Manometer glyceric of range 1000 bar

1,10 kg

Diagnostic Set for the control of the low-pressure circulation

LP TESTER

Art. 919 670 00**Description**

Diagnostic Set for the control of the low-pressure circulation
 -petrol engines
 -Diesel Common Rail (low-pressure)
 Suitable to check pressure of fuel line and back flow on gasoline and Diesel engines. Fuel supply pump tester to control the fuel pump. There are many possibilities of testing:
 - malfunction of fuel supply
 - malfunction of overflow valve
 - malfunction of feed pump
 - leaking oil/fuel leads
 - bubbles within the system- measurement under driving conditions possible



NEW

Specification

Diagnostic Set for the control of the low-pressure circulation
 -petrol engines
 -Diesel Common Rail (low-pressure)
 Suitable to check pressure of fuel line and back flow on gasoline and Diesel engines.
 Fuel supply pump tester to control the fuel pump.

There are many possibilities of testing:

- malfunction of fuel supply
- malfunction of overflow valve
- malfunction of feed pump- leaking oil/fuel leads- bubbles

2,00 kg

+ Art. 919 671 00

Set SAE



The device is compatible with the device „Jetronik SK”
 (The same kind of quick release)

Adapters set are suitable for fuel lines with quick connections according to SAE norm

SAE

Art. 919 671 00**Description**

Supplement to set: 919 670 00 and 922 000 00

NEW

Application

System pressure test on low pressure side (inlet Common Rail high pressure pump)

The included Adapters are suitable for fuel lines with quick connections according to SAE norm

7 pairs of hose with SAE connectors

Plastic case



Weight 2,00 kg

Diagnostic set for piezo injectors

Art. 919 650 00

Description

Diagnostic set for piezo injectors in the new Common-Rail systems built based on piezoelectrics, also for a new type of injector Delphi. Compared to the conventional common rail injectors, where we examine the flow on „overfall”, in the piezo system diagnostics is based on the test the fuel pressure in the pipes return injector. Injectors are not necessarily draw to check.

Diagnosis allows you to:

1. Detection of a faulty injector.
2. Detection of damage to the pressure valve.
3. The detection of air bubbles in the system

Packaging - plastic suitcase.

Weight

1,25 kg



Kit to measurement for overfalls piezo injectors

Art. 919 420 00

Description

Kit to measurement for overflow's piezo injectors Common Rail system SIEMENS. The menzies built-in metal cassette with adjustable length slings. In the menzies built floats allowing comparison of fuel flow in pipes fuel surplus injectors. Hoses supplied in the set (12 pc) allow for plugging to circuits of excess injectors fuel and observe fuel flow during operation of the injection system for an infinitely long time in comparison to the set of menzies (overflows Measuring cylinders).

Packaging - plastic suitcase.

Weight

2,35 kg



Set for testing the injectors (overflow)

Art. 919 400 00

Description

Set of Measuring cylinders for testing injectors Common Rail. Lets examine the performance of the injectors by determining the amount of the return fuel flow (back leakage) by the injector through a nozzle „overfall” of the injector. On equipped meter are nozzles tip to all currently manufactured Common Rail Systems : Bosch, Denso, Delphi and Siemens.

Specification

- 6 pieces of large Measuring cylinders with tubing with tips for system BOSCH
 - 6 pieces of small Measuring cylinders for system BOSCH
 - 6 connector for systems - DELPHI
 - 6 connector for systems - DENSO
 - 6 connector for systems - SIEMENS
 - 12 additional seals 3x1,5
 - 6 additional seals 3,5x1
 - 6 additional seals 4x1
- Packaging - plastic suitcase.

Weight

3,20 kg



Tool for setting the rotary injection pumps

PPW - 2

Art. 911 000 00

Description Tool for setting the rotary injection pumps
Diesel engines.
Rotary injection pump (distribution's) BOSCH and CAV.



Specification

- Dial gauge (0-5 mm) 911 090 00
- Long extension cable sensor tip 911 020 01
- Short extension cable sensor tip 911 020 02
- Sensor holder long: M8 x 1 911 030 02
- Sensor holder long: M10 x 1 (TDI) 911 040 06
- Sensor holder short: M8 x 1 911 030 03
- Sensor holder short: M10 x 1 911 040 03
- Reduction M12 911 050 00
- Pin to locking wheel the injection pump drive VW 911 030 01
- Lath for locking the camshaft VW 911 022 00

Weight 0,95 kg

DIESEL Puller the injection pump gear wheel
BMW M47/M57

Art. 903 280 00

Models BMW: 318 d / td, 320 d / td, 330 d, 525 d, 530 d, 535 d, 730 d;
LAND ROVER: Freelander, Rover 75.

Types of engines BMW: M47, M47TU; E46;
M57, M57TU;
E46, E39, E38, E60, E61;
LAND ROVER: Td4, M47R.



Weight 0,75 kg

OEM: 11.8.740, 13.5.190

DIESEL Injection pump bushing
BMW 2.0d N47/N47S

Art. 903 285 00

Description Retains the position of the sprocket during disassembly the pump

Types of engines BMW:
Series 1, 3, 5 i X3
z Engineami 2.0d
N47 / N47S (06-10)



OEM: 11.8.740

BMW 2.0 d N47/N47S Sprocket spur injection pump Chain

chain

Art. 903 287 00

Description Engines N47/N47S 2.0 d (2006-2010)
mounted in BMW models: 1, 3, 5, X3

NEW

OEM: 11.8.740



Weight 0,3 kg

Ford/Mazda 2.2TDCI Sprocket spur injection pump/Crankshaft pulley**Art. 906 140 00**

Description To use for removing the crankshaft pulley and the injection pump as:
Cooperates injection pump lock (See below) HP 906 260 00

Types of engine Ford / Mazda / Rover:
All models with engines 2.2TDCI „PUMA“ (- 2011)

Weight 0,45 kg

NEW

OEM Ford : 303-249 -1
Mazda : 49UN30324901

Ford 2.0/2.2/2.4/3.2**Diesel Duratorg Injection pump locking tool****Art. 906 260 00**

Description To be used also for the following vehicles / engines

Models FORD Mondeo (2000-2007)
Transit (2000)
Types of engine Diesel'a „Puma“:
2.0 Duratorq DI/ TDCi / TDDi/ TDD
2.2 Duratorq TDCi
2.4 Duratorq DI / TDCi / TDDi
3.2 Duratorq TDCi

Weight 0,1 kg

NEW

OEM Ford: 303-1151

**Ford 2.0 / 2.4 16v (chain)****Set for disassembly and installation injection pumps****Art. 906 250 00**

Models FORD: Mondeo, Transit Diesel Duratorq 16v 2.0, 2.4 (01 - 06).

Types of engines FMBA/B, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA.

Weight 1,40 kg



OEM: 21-238, 21-240-(01), 303-679, 303-681

Opel 1,9/2.0 CDTi**Sprocket spur injection pump****Art. 904 015 60**

Models Astra-H / J, Vectra-C, Signum, Zafira-B, Insignia (04-14)

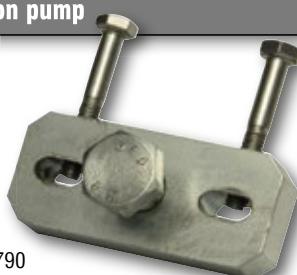
Types of engine 1.9 CDTi - Z19DT, Z19DTH, Z19DTJ, Z19DTL
2.0 CDTi - A20DT, A20DTH, A20DTJ, A20DTR

Accessories for the set HP 904 015 00

Weight 0,2 kg

NEW

OEM: EN-46790



DIESEL Device for locking pumps injection

MB - Diesel

Art. 918 000 00**Description**

Device for blocking injection pumps.
Used during assembly and disassembly of pumps.

Application

Mercedes - Benz, typ: 601, 602, 603.

Weight

70 g

**DIESEL Lock injection pump** engine Mercedes - Benz OM 604 with Lucas pomp. **LUCAS - MB Diesel****Art. 918 300 00****Description**

Lock injection pump.
Used to block the pump before disassembly.

Weight

40 g

**DIESEL Set for setting the injection pump**

Renault 1.9 D / TD

Art. 905 300 00**Models**

RENAULT: Clio, R19, Megane, Expres, Laguna, Kangoo 1.9 D;
VOLVO: 1.9 D / TD;
OPEL: Movano 1.9 D / TD

Types of engines

RENAULT: F8Q, F9Q;
VOLVO: 42T2;
OPEL: F8Q (97 - 03).

Weight

0,50 kg

**DIESEL Lock injection pump**

Lucas - EPIC

Art. 918 200 00**Description**

Lock injection pump Lucas - EPIC

Application

Lancia, Citroen, Peugeot 2.1 td.

Weight

40 g

**VW / Audi 2,7 / 3,0 TDI Device for locking pump Common-Rail****Art. 911 315 10****Models**

Audi A4/A5/A6, Q5/Q7 (07-12)
VW Phaeton/Touareg (07-15)
Porsche Cayenne (08-16)

NEW**Types of engines**

2.7 TDI CR - CAMA, CAMB, CGKA, CGKB, CANA, CANB, CANC, CAND
3.0 TDI CR - CCWB, CCWA, CCLA, CDYA, CDYB, CDYC, CASA, CASB, CCMA,
CAS. M05/9E, M05/9D(CAS), CARA, CEXA, CEXB, CASC, CATA, CASD

Weight

0,1 kg



OEM: T40135

Hammer Set with Adapters (9 pcs)**Bosch/Delphi/Denso/Simens****Art. 918 545 00** - Order number of the Set (Slide hummer & 9 adaptors)**Description**

Slide hammer 4 kg
 9 pcs Adapters. All of the following: slide hummer and Adapters can be ordered separately according to the numbers below

**Art. 918 518 17**

Adapters M17x1 .

**Art. 918 518 27**Adapters M27x1
np. Siemens PSA**Art. 918 550 18**Injector Dismantling Tool
Bosch**Art. 918 420 00**

Adapters articulated

**Art. 918 518 20**Adapters M20x1 .
DENSO**Art. 918 518 14**

Adapters M14x1,5 .

**Art. 918 410 00**

Adapters M17x1 - BOSCH Adapters strengthened

**Art. 918 518 25**Adapters M25x1.
Siemens PSA**Art. 918 518 28**

Adapters M27x1 .



The use of slide hummer with the Adapters (918 410 00 - Dual connector Adapters (Bosch) - and 918 420 00 (Articulated Adapters))

Weight

6,0 kg

**Additional Adapters for Slide Hummer****NEW****Art. 918 518 12**

AdaptersM12x1,5(l) Top of the injecto(also Denso 2.2 HDI)

**Art. 918 518 16**

M16x1,0(E) Denso (Toyota 2,2D , and other ...)

**Art. 918 518 23**Adapters M25x0,5 .
DENSO**Art. 918 518 24**Adapters M25x0,75 .
DENSO**Art. 918 550 21**

Valve seat remover Denso

**Art. 918 550 22**Valve seat remover
SiemensS

Hummer MASTER with Adapters (15 pcs)

BOSCH / DELPHI / DENSO / SIEMENS

Art. 918 547 00 - Order number of the Set (Slide hummer & 15 adaptors)

Description

Slide hammer 4 kg
 9 pcs Adapters. All of the following: slide hammer and Adapters can be ordered separately according to the numbers below

NEW



Art. 918 518 16

Adapters M16x1
 injector DENSO
 np. Toyota 2.2D



Art. 918 518 12

Adapters M12x1,5
 At the fuel connector (DENSO)
 np. 2.2 HDI



Art. 918 550 18

Injector Dismantling Tool
BOSCH



Art. 918 518 17

Adapters M17x1



Art. 918 518 14

Adapters M14x1,5



Art. 918 550 21

Valve seat remover
DENSO



Art. 918 518 20

Adapters M20x1
DENSO



Art. 918 518 23

Adapters M25x0,5
 injectors DENSO



Art. 918 550 22

Valve seat remover
SIEMENS



Art. 918 410 00

Adapters M17x1 - **BOSCH**



Art. 918 518 25

Adapters M25x1
 Siemens PSA



Art. 918 518 24

Adapters M25x0,75 injectors
 DENSO



Art. 918 420 00

Adapters articulated



Art. 918 518 27

Adapters M27x1
 np. Siemens PSA



Art. 918 518 28

Adapters M27x1



Weight 7,0 kg

The use of slide hummer with the Adapters
 - Dual connector Adapters (Bosch)
 - and (Articulated Adapters)

Adapters Strengthened Dual connector Adapters-Bosch 17x1

Art. 918 410 00**Description**

The pulling force distributes to the male and female threads of the injector.
Prevents the injector thread from damaging.
The injector is connected to the pull-out screw external and internal thread,
which ensures that the injector is not damaged during dismantling.

Weight

0,4 kg

**Adapters for use with a hydraulic cylinder also**

Articulated Adapters for Slide Hummer

Art. 918 420 00**Description**

Articulated Adapters for Slide Hummer M18x1,5(I) / M18x1,5(E).
The adapter prevents the injector from bending during pull-out.
It allows you to adjust the angle when working in confined areas.

Weight

0,3 kg



Special Adapters for Injector DENSO Ford / Toyota / Mazda , and other

Art. 918 411 00**Description**

Special Adapters for use with both HP hammer hammer (M18x1,5)
and to all hydraulic systems, HP.
The adapter design allows installation at the injector body.

Application

Application DENSO injectors mounted on Ford 2.2 TDCI engines
And in cars of Toyota, Mazda and others.

Weight0,34 kg **Adapters for use with a hydraulic cylinder also****NEW**

Special Adapters for Injector HDI SIEMENS

Art. 918 412 00**Description**

Special Adapters for use with slide hummer HP (M18x1,5)
and to all hydraulic systems, HP.
The adapter design allows the injector to be removed by two threads (M14 and M25)

Application

Application SIEMENS injectors mounted on motors
Citroen, Peugeot and othersAdapter for use with hydraulic cylinders

Weight0,2 kg **Adapters for use with a hydraulic cylinder also****NEW**

Injector Dismantling Special Tools

Art. 918 550 21Valve seat remover
DENSO**NEW****Art. 918 550 22**Valve seat remover
SIEMENS**NEW****Art. 918 550 18**Injector Dismantling Tool
BOSCH

Diesel Injector Remover Set BMW 2.0d & 3.0d**Art. 918 430 00**

Description Equipped with a special cutter and Adapters Pneumatic for cleaning the seat injectors.

Application BOSCH injectors in engines:
M47TU, M57, M57TU, M87, M87TU

Weight 4,0 kg

**+ Art. 918 495 50**

Hydraulic actuator. 20 ton with sleeve
with the sleeve M16 x 1,5 art. 918 495 10

4,5 kg

**Additional equipment for puller to injectors****Art. 918 520 00**

Description 2,5m hydraulic hose with quick coupling to the actuator

Weight 1,50 kg

**Art. 918 530 00**

Description Hydraulic foot pump (0-700 bar)

Weight 11,20 kg

**CHRYSLER / Jeep Pullers to injectors****Puller to injectors 2.5/2.8 CRD Chrysler Jeep****Art. 918 480 00**

Description Puller have thrust plate with columns, axial bearing, the paw (handle injector) and a feed screw with a nut.

Puller allows you to pull the injector through unscrewing (feed screw) - without removing the coil Injector - located in its upper part.

Application Engine VM 2.5 CRD also 2.8 CRD (from 2001 year) mounted in:
Chrysler Voyager / Grand Voyager
Jeep Cherokee

Weight 4,90 kg



Kit for pulling injectors CITROEN, PEUGEOT 2.0/2.2 HDI 16V**Art. 918 490 00**

Description Set of includes tools for pulling baked injectors by unscrewing the (screws pulling), and also pulling using 20t hydraulic actuator located which in the kit.

Application Engines DW10ATED4 (2,0l) and DW12TED4 (2,2l) mounted in:
Citroen C5, C8, Evasion,
Fiat Ulysse,
Ford Focus (06-),
Lancia Phedra
Peugeot 406, 407, 607, 806, 807
Suzuki Vitara, Volvo S40 II , V50

Weight 7,0 kg

**Extra plate to kit 918 490 00 - for engines CITROEN/PEUGEOT 2.0 HDI 8V****Art. 918 491 00**

Description Set includes a support plate and columns to use a set 918 490 00 to pulling the baked injectors in the engine 2.0HDI - DW10 RHY/RHZ (2.0 L) in the 8-valve technology installed in cars:
Citroen, Peugeot, Fiat and Suzuki.

Included is also screwed tip to the injector that allows you to use a hammer impact 918 540 00.

Application Citroen, Peugeot, Fiat and Suzuki engines 2.0HDI - DW10 RHY/RHZ (2.0 L) in the 8-valve technology
Weight 2,0 kg

**Accessories additional for puller to injectors****Art. 918 520 00**

Description 2,5m hydraulic hose with quick coupling to the actuator
Weight 1,50 kg

**Art. 918 530 00**

Description Hydraulic foot pump (0-700 bar)
Weight 11,20 kg

**Art. 918 540 00**

Description Slide hammer 4 kg (see page37)
Weight 4,5 kg

**Diesel Injector Remover Set CITROEN/PEUGEOT 1.6 HDI + FORD 1.6 TDCI 16V****Upgrade !** **Art. 918 495 00**

Description Set of includes tools for pulling baked injectors by unscrewing the screws pulling.
Application Citroen, Peugeot, engines 1.6HDI 21/5000 with the injection system BOSCH and SIEMENS
Weight 7,0 kg

NEW

+ Art. 918 461 00

Hydraulic actuator 20 ton with the sleeve M18 x 1,5 art. 918 461 00
Weight 4,5 kg



The kit now includes Adapters enhancements for injectors HDI Siemens and Bosch

Diesel Injector Remover Set CITROEN/PEUGEOT 2.2 HDI, Fiat/IVECO 2.2 JTD, Ford 2.2 TDCI

Art. 918 322 00**Application**

Citroen Jumper / Peugeot Boxer 2.2 HDI
 Ford Transit 2.2 TDCI
 Fiat Ducato / IVECO 2.2 JTD

Weight

8 kg

+ Art. 918 461 00**Weight**

4,5 kg

**NEW**

Adapters special injector DENSO Ford / Toyota / Mazda And other

Art. 918 411 00**Description**

Special Adapters for use with both HP hammer hammer (M18x1,5) and to all hydraulic systems, HP.

The adapter design allows installation at the injector body.

Application

Application DENSO injectors mounted on Ford 2.2 TDCI engines
 And in cars of Toyota, Mazda and others.

**Weight**

0,34 kg

NEW

Accessories additional for puller to injectors

Art. 918 520 00**Description**

2,5m hydraulic hose with quick coupling to the actuator
 1,50 kg

**Description****Art. 918 530 00****Weight**

Hydraulic foot pump (0-700 bar)

**Description****Art. 918 540 00****Weight**

Slide hammer 4 kg (see page37)



Diesel Injector Remover Set CITROEN/PEUGEOT 2.3 HDI, FIAT 2.3 JTD , IVECO 2.3 HPI**Application**

Citroen Jumper / Peugeot Boxer
Fiat Ducato Power, IVECO Daily

Art. 918 323 00

Engine 2.3 l

The possibility of using a 20T hydraulic actuator

Weight

8 kg

+ Art. 918 461 00

Hydraulic actuator 20 ton with the sleeve M18 x 1,5 art. 918 461 10

Weight

4,5 kg



The kit includes a Strengthened Dual connector Adapters 918 410 00

Diesel Injector Remover Set CITROEN/PEUGEOT 3.0 HPi, FIAT 3.0 JTD, IVECO 3.0 HPI**Application**

Citroen / Peugeot
Fiat Ducato, IVECO Daily

Art. 918 330 00

Engines 3.0 l with Electromagnetic Injector

The possibility of using a 20T hydraulic actuator

Weight

8 kg

+ Art. 918 461 00

Hydraulic actuator 20 ton with the sleeve M18 x 1,5 art. 918 461 10

Weight

4,5 kg



The kit includes a Strengthened Dual connector Adapters 918 410 00

Strengthened Dual connector Adapters for piezo injector 3.0 HPi**Description**

Strengthened Dual connector Adapters for piezo injector 3.0 HPi
Additional equipment for 918 330 00 set

Art. 918 331 00**Application**

Injectors piezo

NEW**Weight**

0,34 kg



Diesel Injector Remover Set FIAT 1.3 JTD / OPEL 1.3 CDTI

Application

Fiat, Lancia 1.3 JTD/ Multijet
Opel 1.3 CDTI 16V
Suzuki 1.3 DDIS

Art. 918 313 00

The possibility of using a 20T hydraulic actuator

NEW

Weight

8 kg

+ Art. 918 461 00

Hydraulic actuator 20 ton
with the sleeve M18 x 1,5 art. 918 461 10



Weight

4,5 kg

The kit includes a Strengthened Dual connector Adapters 918 410 00



Diesel Injector Remover Set FIAT / Alfa Romeo / Lancia 1.9 JTD/2.4 JTD, OPEL 1.9 CDTI

Application

Fiat, Lancia, Alfa Romeo 1.9 JTD + 2.4 JTD (11.02-)

Art. 918 319 00

NEW

Opel Astra H, Vectra C, Zafira (04.04-)
1.9 CDTI
The possibility of using a 20T hydraulic actuator

Weight

8 kg

+ Art. 918 461 00

Hydraulic actuator 20 ton
with the sleeve M18 x 1,5 art. 918 461 10



Weight

4,5 kg

The kit includes a Strengthened Dual connector Adapters 918 410 00



Accessories additional for puller to injectors

Description

Art. 918 520 00

2,5m hydraulic hose with quick coupling to the actuator

1,50 kg



Weight

Description

Art. 918 530 00

Hydraulic foot pump (0-700 bar)

Weight

11,20 kg



Description

Art. 918 540 00

Slide hammer 4 kg (see page 37)

Weight

4,5 kg



Diesel Injector Remover Set FIAT/IVECO 2.2 JTD, CITROEN/PEUGEOT 2.2 HDI, FORD 2.2 TDCI**Application**

Fiat Ducato / IVECO 2.2 JTD
 Citroen Jumper / Peugeot Boxer 2.2 HDI
 Ford Transit 2.2 TDCI

Art. 918 322 00

The possibility of using a 20T hydraulic actuator

Weight

8 kg

+ Art. 918 461 00

Hydraulic actuator 20 ton with the sleeve M18 x 1,5 art. 918 461 10

Weight

4,5 kg

**Diesel Injector Remover Set CITROEN/PEUGEOT 2.3 HDI, FIAT 2.3 JTD, IVECO 2.3 HPI****Application**

Fiat Ducato Power, IVECO Daily
 Citroen Jumper / Peugeot Boxer
 Engine 2.3 I

Art. 918 323 00

The possibility of using a 20T hydraulic actuator

Weight

8 kg

+ Art. 918 461 00

Hydraulic actuator 20 ton with the sleeve M18 x 1,5 art. 918 461 10

Weight

4,5 kg

**Diesel Injector Remover Set Fiat 3.0 JTD / IVECO 3.0 HPI / Citroen/Peugeot 3.0 HPI****Application**

Fiat Ducato
 Iveco Daily
 Citroen / Peugeot
 Engine 3.0 HPI

Art. 918 330 00

The possibility of using a 20T hydraulic actuator

Weight

8 kg

+ Art. 918 461 00

Hydraulic actuator 20 ton with the sleeve M18 x 1,5 art. 918 461 10

Weight

4,5 kg



Diesel Injector Remover Set

FIAT 1.3 JTD / OPEL 1.3 CDTI
+ FIAT / Alfa Romeo / Lancia 1.9 JTD/2.4 JTD, OPEL 1.9 CDTI

Application

Fiat, Lancia 1.3 JTD/ Multijet
 Opel 1.3 CDTI 16V
 Suzuki 1.3 DDIS

Art. 918 314 00

Fiat, Lancia, Alfa Romeo 1.9 JTD + 2.4 JTD (11.02-)

Opel Astra H, Vectra C, Zafira (04.04-)
 1.9 CDTI Two camshafts
 The possibility of using a 20T hydraulic actuator

**NEW****Weight**

14 kg

+ Art. 918 461 00

Hydraulic actuator 20 ton
 with the sleeve M18 x 1,5 art. 918 461 10

**Weight**

4,5 kg

+ Hydraulic pump and hose - see adjacent pages



The kit includes a Strengthened Dual connector
 Adapters 918 410 00

Diesel Injector Remover Set

CITROEN/PEUGEOT 2.3 HDI, FIAT 2.3 JTD, IVECO 2.3 HPI
+ CITROEN/PEUGEOT 3.0 HPI, FIAT 3.0 JTD, IVECO 3.0 HPI

Application

Fiat Ducato Power, IVECO Daily
 Citroen Jumper / Peugeot Boxer
 Engine 2.3 I

Art. 918 324 00**NEW****Weight**

15 kg

+ Art. 918 461 00

Hydraulic actuator 20 ton
 with the sleeve M18 x 1,5 art. 918 461 10

**Weight**

4,5 kg

+ Hydraulic pump and hose - see adjacent pages



The kit includes a Strengthened Dual connector Adapters 918 410 00

Kit for pulling injectors MERCEDES CDI Common-Rail**MASTER****Description**

A set of tools for pulling the injectors from the hydraulic actuator.
Tools included in the kit allow you to draw the injectors by:

- unscrew
- knock out (requires an additional set of hammer impact 918 540 00)
- for pulling using a hydraulic actuator

Application

Mercedes CDI Common Rail, A-klasa, C-klasa, E-klasa, Sprinter, Vito, Vario, Viano

Weight

6,0 kg

**Tool for pulling injectors MERCEDES CDI Common-Rail****Art. 918 550 00****Description**

Tool for pulling injectors allow you to draw the injectors by:

- unscrew
- knock out (requires an additional set of hammer impact 918 540 00 page 28)
- for pulling using a hydraulic actuator
(requires an additional set 918 510 00 + 918 520 00 + 918 530 00)

Application

Mercedes CDI Common Rail, C-klasa, E-klasa, Sprinter, Vito, Vario, Viano (bez A-klasy)

Weight

1,30 kg

**Tool for pulling injectors (complement to the set 918 550 00) MERCEDES CDI A - Class****Art. 918 560 00****Description**

Tool for pulling injectors allow you to draw the injectors by:

- unscrew
- knock out (requires an additional set of hammer impact 918 540 00 page 28)
- for pulling using a hydraulic actuator
(requires an additional set 918 510 00 + 918 520 00 + 918 530 00)

Application

Mercedes CDI Common Rail A-klasa

Weight

1,20 kg

**Additional equipment for puller to injectors****Art. 918 510 00****Description**

Hydraulic actuator with sleeve

Weight

2,20 kg

**Art. 918 530 00****Description**

Hydraulic foot pump (0-700 bar)

Weight

11,20 kg

**Art. 918 520 00****Description**

2,5 m hydraulic hose with quick coupling to the actuator

Weight

1,30 kg

**Description**

Slide hammer 4 kg (see page 37)

Weight

4,5 kg



MERCEDES Pullers to injectors

Diesel Injector Remover Set MERCEDES CDI 2.2 / 2.7 /3.2

Art. 918 555 00

NEW

Description

Diesel Injector Remover Set
Tools from this set allow you to: Unscrew the injector Pull the injector with the hydraulic cylinder The pulling force distributes to the male and female threads of the injector. Prevents the injector thread from damaging The injector is connected to the pull-out screw external and internal thread,

Application

Mercedes CDI Common Rail, C-klaa, E-klaa, Sprinter, Vito, Vario, Viano
Engine 2.2 / 2.7 / 3.2 DCI Common Rail

Weight

10,0 kg

Additional equipment

+ Art. 918 461 00

Hydraulic actuator 20 ton with the sleeve M18 x 1,5 art. 918 461 10

4,5 kg



which ensures that the injector is not damaged during dismantling !

Diesel Injector Remover Set MERCEDES A-Class 1.7 CDI

Art. 918 565 00

NEW

Description

Diesel Injector Remover Set
Tools from this set allow you to:
Unscrew the injector
Pull the injector with the hydraulic cylinder

Application

Mercedes A klasa - Engine 1.7 CDI Common Rail

Weight

9,0 kg

Additional equipment

+ Art. 918 461 00

Hydraulic actuator 20 ton with the sleeve M18 x 1,5 art. 918 461 10

4,5 kg



which ensures that the injector is not damaged during dismantling !

Accessories additional for puller to injectors

Art. 918 520 00

Description

2,5 m hydraulic hose with quick coupling to the actuator

Weight

1,30 kg



Art. 918 530 00

Description

Hydraulic foot pump (0-700 bar)

Weight

11,20 kg



Diesel Injector Remover Set MERCEDES V6 3.0 CDI

Art. 918 576 00**Description**

Diesel Injector Remover Set

NEW**Application**Mercedes CDI Common Rail - Piezo Injectors
Engine 3.0 V6 CDI Mounted on many Mercedes models**Weight**

5,5 kg

Additional equipment**+ Art. 918 461 00**

Hydraulic actuator 20 ton with the sleeve M18 x 1,5 art. 918 461 10

4,5 kg



The kit includes a Strengthened Dual connector Adapters for MERCEDES with engine 3.0 V6 only

Additional equipment for puller to injectors

Art. 918 520 00**Description**

2,5m hydraulic hose with quick coupling to the actuator

Weight

1,30 kg

**Art. 918 530 00****Description**

Hydraulic foot pump (0-700 bar)

Weight

11,20 kg



Diesel Injector Remover Set MERCEDES Piezo Injectors DELPHI

Art. 918 575 00**Description**

Dimensions of the hammer allow to use the extractor in places hard to access.

Application

Mercedes - engines with piezo injectors Delphi

Weight

6,0 kg

**NEW**

Tool for pulling injectors RENAULT / OPEL / NISSAN / SUZUKI 1.9 dCi

Art. 918 590 00

Description

Tool for pulling injectors allow you to draw the injectors by:

- unscrew
- knock out (requires an additional set of surge hammer 918 540 00 page 28)
- for pulling using a hydraulic actuator (requires an additional set 918 510 00 + 918 520 00 +918 530 00)

Application

Renault: Megane, Scenic, Laguna, Trafic, Master

Opel: Vivaro, Movano

Nissan: Interstar

Suzuki: Vitara (07-)

Weight

3,10 kg



Tool for pulling injectors RENAULT / OPEL / NISSAN 2.2, 2.5 dCi / DTI

Art. 918 580 00

Description

Tool for pulling injectors allow you to draw the injectors by:

- unscrew
- knock out (requires an additional set of surge hammer 918 540 00 page 28)
- for pulling using a hydraulic actuator (requires an additional set (See bottom of this page):

 - 918 510 00
 - 918 520 00
 - 918 530 00

Application

Renault: Espace, Laguna, Master

Opel: Movano

Nissan: Interstar, Primastar

Weight

2,80 kg



Accessories additional for puller to injectors

Art. 918 510 00

Description

Hydraulic actuator with sleeve

Weight

2,20 kg



Art. 918 530 00

Description

Hydraulic foot pump (0-700 bar)

Weight

11,20 kg



Art. 918 520 00

Description

2,5m hydraulic hose with quick coupling to the actuator

Weight

1,30 kg



Art. 918 540 00

Description

Slide hammer 4 kg (see page 37)

Weight

4,5 kg



Diesel Injector Remover Set for (Piezo and electromagnetic injector)**Renault / Opel / Nissan 2.0 dCi / CDTi with hydraulic cylinder.****Art. 918 592 00****Description**

Set of includes tools for pulling baked injectors by unscrewing the screws pulling.
It is applicable for piezo injectors, installed to 2010 and electromagnetic injectors after 2010.

The kit includes a Strengthened Dual connector Adapters 918 410 00Extract the injector with the actuator **20 ton**

Hydraulic requires:

- 918 520 00 Hydraulic foot pump
- 918 530 00 Hydraulic hose 2,5m with quick coupling to the actuator

Application

Renault Master / Opel Vivaro z Engine 2.0 dCi / CDTi

NEW**Weight**

7,0 kg

Additional equipment

Hydraulic pump and hose - see adjacent pages

**Diesel Injector Remover Set for (Piezo and electromagnetic injector)****Renault / Opel / Nissan 2.0 dCi / CDTi****Art. 918 591 00****Description**

Set of includes tools for pulling baked injectors by unscrewing the screws pulling.
It is applicable for piezo injectors, installed to 2010 and electromagnetic injectors after 2010.

The kit includes a Strengthened Dual connector Adapters 918 410 00

Extract the injector with the actuator

Hydraulic requires:

- 918 520 00 Hydraulic foot pump
- 918 530 00 Hydraulic hose 2,5m with quick coupling to the actuator

Application

Renault Master / Opel Vivaro z Enginem 2.0 dCi / CDTi

Weight

7,0 kg

Additional equipment**+ Art. 918 461 00**

Hydraulic actuator 20 ton with the sleeve M18 x 1,5 art. 918 461 10

4,5 kg



+ Hydraulic pump and hose - see adjacent pages



Petrol Injector Remover Set for 2,0 FSI – VW / Audi / Seat / Skoda**Art. 918 450 00****Description** Set of tools for pulling and assembly injectors in FSI motors.

Suitable adapters help in the installation of injector seals.

Application VW / Audi / Seat / Skoda**Weight** 2,2 kg**Diesel Injector Remover Set for 2,0 TDI - VW / Audi / Seat / Skoda****Art. 918 440 00****Description** Extractor with Slide Hummer for injectors f or engine 2,0 TDI 16V (103 kW)**Application** VW / Audi / Seat / Skoda**Weight** 1,3 kg**Milling cutters to the crankshaft****Art. 902 200 00****Description** This allows frontal area milling of the crankshaft after removing the crankshaft pulley.
On equipped with 3 different conducting heads.**Application** Engine TDI
VW, Audi, Seat, Skoda**Weight** 0,70 kg**Puller with the milling cutters to glow plug Diesel****Art. 902 350 00****Description** Device for pulling out spark plugs.
Milling cutters (thread screw M12 and M10) provided in the kit allow the improve spark plug socket in the cylinder head.**Application** Universal**Weight** 0,85 kg

Puller of pads to injectors Diesel + Common Rail**Art. 902 300 00**

| | |
|------------------------|---|
| Description | Device for pulling pads from the slot injector. Construction of puller allows seamless removal of the pads the sealing injectors remaining in nest after dismantling the injector. |
| Overall length: | 250 mm |
| Application | Universal |

**Head for Diesel injector seals extractor & CR****for set 902 300 00****Art. 902 310 00**

| | |
|--------------------|--|
| Description | Glowica Head (spare part) for Diesel injector seals extractor & CR for set 902 300 00 |
| Weight | 0,1 kg |

**NEW****Set of cutters for injectors Diesel + Common Rail****Art. 902 250 00**

| | |
|--------------------|--|
| Description | Set of to clear and renew the slot injector in the engine block. Milling cutter has at the end a leading guide pin to make easy to obtain the correct surface renewed injection slot. Equiped with a set of 4 pieces of cutters with different shapes for different types of nests injectors with a diameter of 17mm. Milling cutters allows also the regeneration of the surface of the injector. Length: 175 mm |
| Application | Universal |
| Weight | 0,50 kg |

**Cutter for injector sockets 17mm****to set 902 250 00****Art. 902 250 02**

| | |
|-------------------------|---|
| Description | Slanted cutter used for injector sockets for engines BMW, Citroen, Peugeot, Renault |
| Types of engines | For engines BMW, Citroen, Peugeot i Renault |
| Weight | 0,1 kg |

**NEW****Milling cutters to injectors Diesel + Common Rail****Art. 902 255 00**

| | |
|--------------------|---|
| Description | This allows to clearing and renew the injector slot in the engine block. Milling cutter has at the end a leading guide pin to make easy to obtain the correct surface renewed injection slot. On equipped is also milling cutter to the injector with a hole at the spraying tip. Length: 250 mm |
| Application | Universal |
| Weight | 0,50 kg |



Universal timing cumshaft sprocket tool set**Application****Art. 904 100 00**
Universal timing cumshaft sprocket tool set

Includes 4 single and 1 double camshaft lock used for single, double or quadrupled pistonless reciprocating motors when replacing a

NEW**Weight**

0,35 kg

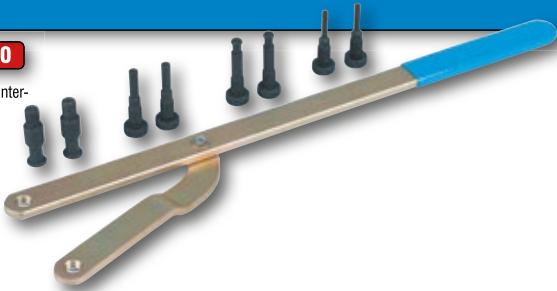
Sprocket holding tool**Description****Art. 911 760 00**

Universal wrench to the dismantling of gears timing belt with interchangeable tips with diameters:

- ø 16 mm
- ø 9,5 mm
- ø 7,5 mm
- ø 5,5 mm

Length wrench: 500 mm
Distance between arms: 30 to 300 mm**Weight**

1,70 kg

**Belt tension tester****Art. 915 000 00****Description**Universal device to control the timing belts tension.
Comparative table of results allows for application in many types of vehicles.**Weight**

0,45 kg

**Sprocket holding tool****Art. 911 750 00****Description**

Used to counter-hold camshaft or injection pump gear during release of centre bolt to allow sprocket to freeley turn on shaft during belt replacement / tensioning.

Diameter of pin: ø 14 mm
Length wrench: 400 mmDistance between arms: 20 to 190 mm
0,95 kg**Weight****Flywheel locking wrench****Art. 911 800 00****Description**

Wrench to locking the flywheel for dismantling and assembling toothed gears and clutch disks.

Weight

0,30 kg



Stretchy Belt (V BELT) Fitting Kit Also to the double pulley**Art. 904 122 00**

Especially for cars:

| | |
|--------------------|---|
| Application | Ford: Fiesta, Focus, C-Max, Mondeo (1.4, 1.6 petrol), Mondeo, Transit, Courier, Fusion Volvo S40, C30, V50 (1.6 petrol) and also: BMW Petrol and Diesel 118, 120, 325, 330, 520, 525, 530, 535, 730, X3, X5 Chrysler: Grand Voyager, Voyager Citroen: C2, C3, C4, Jumper Relay Fiat: Albea, Doblo, Marea, Multipla, Ducato, Fiorina, Fiorino Qubo, Linea, Siena, Stilo, Lancia Lybra Iveco: Daily Peugeot: 206, 207, 307, Boxer Mazda: 3, 5 |
| Weight | 1,1 kg |

**Universal V Belt disassembly and assembly tool (V Belt / Stretchy Belt)****v- belt****Art. 904 123 00**

Universal tool for assembly and disassembly of V-belts

| | |
|--------------------|---|
| Application | The instruments are very helpful when removing and installing V-belts on pulleys. The application of one device to the pulley during the rotation of the wheel causes the tensioned belt to slide down, the second device causes the belt to slide on the wheel when the wheel is rotated |
| Weight | 0,09 kg |

**Art. 904 123 50**

Universal tool for assembly and disassembly of V-belts

Made of fiber reinforced plastic

| | |
|---------------|---------|
| Weight | 0,04 kg |
|---------------|---------|

**V Belt disassembly and assembly tool****Art. 904 120 00**

V Belt disassembly and assembly tool

| | |
|--------------------|--|
| Application | Citroen, Peugeot, Ford, Fiat, Dacia And other. |
| Weight | 0,4 kg |



Wrenches to the ventilators

Models

Wrenches to the viscous ventilator clutch.

Types

Wrench 32mm - 918 011 00
 Wrench 36mm - 918 012 00
 Wrench with hook - 918 013 00

Application

Audi, VW
 Also: BMW, Land Rover, Ford and Opel



Wrench to the ventilators MERCEDES

Art. 918 010 00

Models

Wrench to the viscous ventilator clutch.

Types Of engines

Mercedes Sprinter 906
 218, 318, 418, 518 CDI (06-09)
 Engine 642 3.0 CDI



Puller the timing belt sprockets

Art. 911 600 00

Models

Puller with adjustable arms spacing to pulleys with holes.
 VW / AUDI and other.

Types of engines

Universal

Weight

0,90 kg



Large Timing Wheel Puller

Art. 911 611 00

Description

Adjustable drawcord to dismantling the gears shafts timing, injection pumps, etc.

Diameter - 130mm

Includes 2 set. paws

Weight

2,20 kg



Small Timing Wheel Puller

Art. 911 612 00

Description

Adjustable drawcord to dismantling the gears shafts timing, injection pumps, etc.
 Diameter - 90mm

Weight

0,30 kg



PETROL BMW - MINI N12/N14

chain

Art. 905 450 00

| | |
|-------------------------|---|
| Models | MINI Mini R56/R57 (07-10), One (07-10), Cooper (06-10), Cooper S (06-10), Corman R55 (07-14), Coupe R58 (11-14), Roadster R59 (12-14) |
| Types of engines | 1.4 & 1.6 Valvetronic about code N12 B14/B14AB/B16A 1.6 Direct Injection about code N14 B16A/B16CD/B16CD/T0, B16CD/TD, B16T0 |
| Weight | 2,45 kg |

Serial numbers
MINI tools:
OEM: 11 9 540
OEM: 11 9 550
OEM: 11 9 590
OEM: 11 9 790Also for cars
Citroen, Peugeot**+ Art. 903 468 00**

| | |
|-----------------------------|---|
| Additional equipment | A set of special tools for assembly and disassembly of the timing chains and related work are being replaced. |
| | The numbers of the factory tools MINI: OEM: 11 4 360, 11 5 140, 11 9 330 |

**PETROL BMW & MINI N13 / N18**

chain

Art. 903 440 00

| | |
|-------------------------|---|
| Models | BMW 1.6 Seria 1, F20 / F21 (2011-) Seria 3, F30 / F31 (2012-) |
| Types of engines | MINI Cooper S Hatchback R56 (2011-) Cooper S Corman R55 (2011-) Cooper S Convertible R57 (2011-) |
| Weight | N13 / N18 |
| | The numbers of the factory tools BMW & MINI: OEM: 11 7 440 OEM: 11 9 340 OEM: 11 9 590 [0496709] OEM: 2299362 |



OEM: 11 7 440

OEM: 11 9 340

PETROL BMW - MINI N14

chain

Art. 903 430 00

| | |
|-------------------------|---|
| Models | MINI ONE (01-06) Cooper (01-06) Cooper S (02-06), Cooper SJ JC, Cooper S JCW (Series R50-52-53-55-56-57) |
| Types of engines | N14 W10B16AA, W10B16BA, W11B16AA |
| | The numbers of the factory tools MINI / PSA: OEM: 11 8 240 (241:242) [PSA C786] OEM: 11 8 250 OEM: 11 8 370 [PSA C795] OEM: 11 9 550 [PSA 0197-A2] OEM: 11 9 551 [PSA 0197-A1] OEM: 11 9 590 [PSA 0197-B] |



NEW

Petrol BMW&MINI 1.2/1.5/2.0/3.0 B38/B48/B58

+ Diesel 1.5/2.0 B37/B47/B57

Chain

Art. 903 417 00

Description

A set of timing tools for petrol 1.2, 1.5, 2.0, 3.0 and Diesel engines 1.5, 2.0.

Models + Types of engines

PETROL ENGINES

BMW Series: 1, 2, 3, 4, i8 (i12), X1, 7 (G11/12)
 1.5 B38A15A, B38B15A, B38K15A
 2.0 B48A20A, B48A20B, B48B20A, B48B20B
 3.0 B58B30A

MINI Models: Hatch, Clubman, Convertible

1.2 B38A12A
 1.5 B38A15A
 2.0 B48A20A

DIESEL ENGINES

BMW Series: 1, 2, 3, 4, 5, X1, X3, X4, X5
 1.5 B37C15A, B37D15A,
 2.0 B47C20A, B47C20B, B47D20A, B47B20B
 3.0 B57D30A

MINI Models: Hatch, Clubman, Convertible

1.5 B37 C15A
 2.0 B47 C20A

Weight

7,2 kg

NEW



OEM: 11.6.48, 11.4.120, 11.8.740, 11.8.760, 11.9.340, 2.288.380, 2.357.904, 2.358.122, 2.365.488

Petrol BMW 1.5/2.0/3.0 & MINI 1.2/1.5/2.0 B38/B48/B58

Chain

Art. 903 415 00

Description

A set of timing tools for petrol 1.2, 1.5, 2.0, 3.0

Models + Types of engines

PETROL ENGINES

BMW Series: 1, 2, 3, 4, i8 (i12), X1, 7 (G11/12)
 1.5 B38A15A, B38B15A, B38K15A
 2.0 B48A20A, B48A20B, B48B20A, B48B20B
 3.0 B58B30A

MINI Models: Hatch, Clubman, Convertible

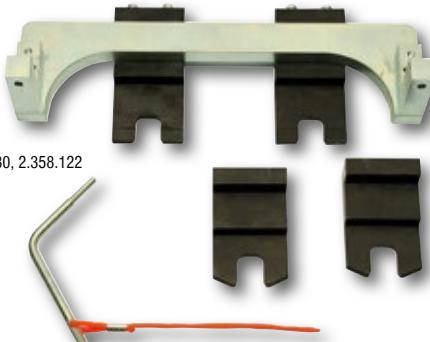
1.2 B38A12A
 1.5 B38A15A
 2.0 B48A20A

Weight

5,3 kg

NEW

OEM: 2.288.380, 2.358.122



For Cars with automatic transmission gearbox You need
HP 903 415 50 (OEM: 2.365.488) - see below!

BMW & MINI 1.5/2.0/3.0 Petrol & 1.2/1.5/2.0 Diesel

Chain

Art. 903 415 50

Description

Special adapter for flying whell locking pin for cars with automatic transmission gearbox.

Models + Types of engines

PETROL ENGINES **BMW & MINI**
 1.5/2.0/3.0 B38/B48/B58

DIESEL ENGINES **BMW & MINI**
 1.5/2.0/3.0 B37/B47/B57

Weight

0,2 kg

NEW



OEM: 2.365.488

BMW & MINI Crankshaft Holding Tool for Petrol & Diesel

Chain

Art. 903 415 60**Description** Crankshaft Holding Tool for Petrol&Diesel Engines (2014-)**Models**
+ Types of engines PETROL ENGINES**BMW Series:** 1, 2, 3, 4, i8 (i12), X1, 7 (G11/12) & Mini
1.2 B38A12A (only Mini)
1.5 B38A15A, B38B15A, B38K15A
2.0 B48A20A, B48A20B, B48B20A, B48B20B
3.0 B58

DIESEL ENGINES

BMW Series: 1, 2, 3, 4, X1, X2, X3, X4, X5 & Mini
1.5 B37D15A, B337C15A
2.0 B47D20A, B47D20B, B47C20A, B47C20B**Weight** 0,2 kg

OEM: 2.357.904

NEW

BMW & MINI Balance Shaft Alignment Tool 1.2/1.5 Petrol & 1.5 Diesel

Chain

Art. 903 415 70**Description** Balance Shaft Alignment Tool (2013-)**Models**
+ Types of engines PETROL ENGINES**BMW Series:** 1, 2, 3, 4, X1, i8 (i12)
1.5 B38A15A, B38B15A, B38K15A
MINI Hatch, Clubman, Convertible
1.2 B38A12A

DIESEL ENGINES

BMW Series: 1, 2, X1
1.5 B37D15A, B337C15A
MINI Hatch, Clubman, Convertible
1.5 B37C15A**Weight** 0,8 kg

OEM: 2.288.943, 2.358.646

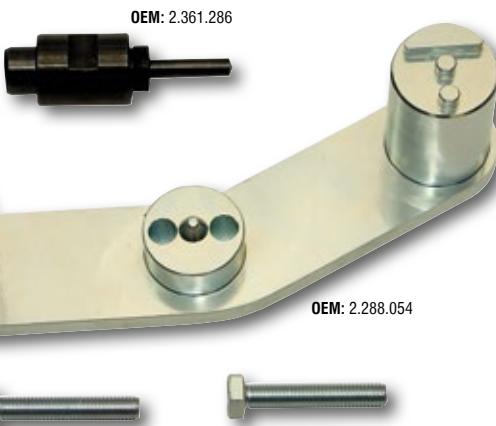
NEW

BMW & MINI Balance Shaft Alignment Tool 2.0 Petrol (B48) & 2.0 Diesel (B47)

Chain

Art. 903 415 80**Description** Balance shaft alignment tool and balance shaft removal tool**Attention!**
Also for Diesel Engines N47
after 04.2013**Models**
+ Types of engines PETROL ENGINES**BMW Series:** 1, 2, 3, 4, X1, 7 (G11/12)
2.0 B48A20A, B48A20B, B48B20A, B48B20B
MINI Hatch, Clubman, Convertible
2.0 B48A20A

DIESEL ENGINES

BMW Series: 1, 2, 3, 4, 5, X1, X3, X4, X5
2.0 B47C20A, B47C20B, B47D20A, B47B20
MINI Hatch, Clubman, Convertible
2.0 B47C20A**Weight** 2,2 kg

OEM: 2.361.286

OEM: 2.288.054

NEW

PETROL 1.6 N40/N45/N45T chain**Art. 903 475 00**

Description
A set of timing tools for petrol engines with a capacity of 1.6 liter, installed in BMW cars, „1“ and „3“

Models
Engines N40 / N45 / N45T a marking code B16 / B16A / B16AC [115/116KM]



| | | |
|---------------------------|---|---|
| + Types of engines | Series „1“ 116i (E81/82/87/88); 2003-2010 | Series „3“ 316i (E46/E90/91/92/93); 2001-2010 316Ci (E46); 2001-2006 316ti (E46); 2001-2006 |
| Weight | 1,95 kg | |

OEM: 11.5.120, 11.7.250, 11.7.251, 11.7.252, 11.7.260, 11.9.232, 11.9.340

PETROL 1.8/2.0 N42/N46/N46T VALVETRONIC chain**Art. 903 460 00**

Description
A set of timing tools for petrol engines with a capacity of 1.8 and 2.0 with Valvetronic system installed in BMW cars.
The kit consists of two suitcases (also sold separately).
This kit allows the exchange and setting timing (set HP 903 460 01)

Models
Engines N42 / N46 / N46T with system Valvetronic
a marking code B18 / B18A / B20 / B20A / B20B

**Art. 903 460 01**

| | | |
|---------------------------|--|---|
| + Types of engines | Series „1“ 118i/120i (E81/82/87/88) 2004-2013 | Series „5“ 520i (E60); 2004-2010 |
| | Series „3“ 316i/316tiCompact (E46); 2001-2005 318tiCompact (E46); 2001-2005 318i (E46); 2001-2007 318i (E90); 2005-2008 320i (E46/E90/91/92/93); 2004-2008 | Z4 2.0 (E85/E86); 2004-2009; X1 2.0i (E84); 2010-2011 X3 2.0i (E83); 2005-2009; |
| | | WARNING! Some BMW models despite the Commercial Description e.g. 320i have an Engine with a capacity of 1.8l. |
| Weight | 903 460 01 - 2,30 kg; 903 460 02 - 3,70 kg | |

OEM: 11.5.120, 11.9.270, 11.9.291, 11.9.292, 11.9.300, 11.9.340, 11.9.350

**Art. 903 460 02**

OEM: 11.9.300, 11.9.301, 11.9.302, 11.9.303, 11.9.320, 11.9.390

PETROL 1.6/2.0 N43 (B16/B20) chain**Art. 903 463 00**

Description
The kit includes :

Flywheel Locking Tool
Timing Chain Tensioner
Chain Tensioner Locking Pins x 2
VANOS Sensor Alignment Tool
Camshaft Locking Tool
Balance Shaft Locking Tool

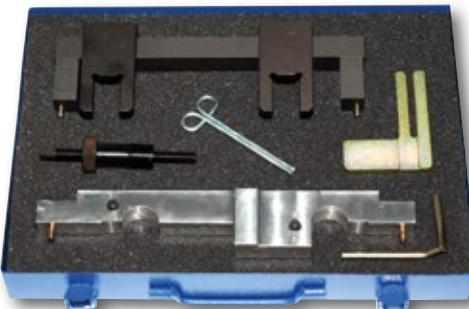
Types of engines + Models
Engine N43:
1.6 B16A/A/00 (122 KM)
2.0 B20A / B20AA / B20AY / B20KO / B20UO (122KM / 143KM / 170 KM)

Series „1“
E81/E82/E87/E88 (06-13) **Series „3“**
E90/E91/E92/E93 (06-13)

Series „5“
E60/E61 (07-10)

Weight

4,5 kg



OEM: 11.3.340, 11.5.120, 11.8.690, 11.8.700, 11.08.710, 10.09.340

PETROL Engine Timing and LockingTool Kit BMW N20, N26

chain

Art. 903 450 00

| | | |
|--------------------|---|--|
| Description | Set of timing locks for gasoline engine o 2.0 capacity mounted in BMW cars | |
| Models | Engine N20 B20, B20A, B20B/U0, B2000 N26 B20 | |
| + Types of engines | Series „1“ 125i F20/21 (12-14) X1 2.0i xDrive E84 (11-14) X1 2.8i xDrive E84 (11-14) | Series „5“ 520i F10/11 (10-14) 528i/xDrive F10/11(11-14) |
| | Series „3“ 320i/xDrive F30/F31 (12-14) 328i/xDrive F30/F31 (12-14) X3 xDrive 20i F25 (11-14) | Z4 2.0 sDrive2.0i E89 (11-14) 2.0 sDrive2.8i E89 (11-14) |
| Weight | 4,5 kg | |



OEM: 11.9.340, 2.219.548, 83 30 2212830, 83 30 2212831

PETROL 2.5/3.0 N51/N52/N52K/N53/N54 and N55 chain**Upgrade !****Art. 903 466 00**

| | | |
|--------------------|---|---|
| Description | Set of timing locks for gasoline engines with capacity 2.5 and 3.0, mounted on BMW cars | |
| Models | Engine N51 / N52 / N52K with Valvetronic and Engine N53 and N54 with direct injection (without Valvetronic) + N55 B30A, B30A/M0, B30A/00, B30MO, B30MO, B3000 | |
| + Types of engines | Series „1“ 125i E82 (07-12) 130i E81/E87 (05-13) 135iS E82 (07-11) X1 2.8xDrive E84 (09-11) + N55 Engines: 135i E81/82/87/88 (10-14) M135i/xDrive F20/21 (12-14) X1 2.8i xDrive E84 (11-14) | Series „5“ 523i E60/61 (04-10);F10/11(10-11) 525i/xi E60/61 (04-10); F10/11(10-11) 528i/xi E60/61 (06-08); F10/11(10-11) 530i/xi E60/61 (05-10); F10/11(11-13) 535i/xi E60/61 (05-10) X5 3.0i/xDrive3.0i/3.5i E70 (06-10) + N55 Engines: 535i/xDrive F10/11 (10-14) ActiveHybrid 5 F10/11 (11-14) GT 535i/xDrive F07 (09-14) X5 xDrive 35i E70 (10-13) |
| | Series „3“ 323i E90/91/92/93 (04-11) 325i/xi E90/91/92/93 (04-13) 328i/xi E90/91/92/93 (04-08) 330i/xi E90/91/92/93 (04-13) 335i/xi E90/91/92/93 (05-11) X3 2.5si/3.0si E83 (06-10) xDrive2.5i + 3.0i E83 (06-10) X3 xDrive2.8i + 3.5i F25 (11-13) + N55 Engines: 335i E90/91/92/93 (09-14) 335i/xDrive F30/F31 (12-14) X3 xDrive 35i F25 (11-14) | 630i E63/64 (04-11) X6 xDrive3.5i E71 (08-10) X6 xDrive 35i E71/72 (09-14) 640i F12/13 (11-14) |
| Weight | 4,9 kg | 730i/Li E65/66 (04-08) 730i F01/02/04 (08-11) Z4 2.5si/3.0si E85/86 (05-10) Z4 2.3i/3.0i/3.5i E89 (09-13) |

**Upgrade !**

+ an additional element in the set

OEM BMW: 11.4.290

OEM: 11.4.280, 11.4.281, 11.4.282, 11.4.283, 11.4.285
11.4.290, 11.0.300, 11.8.520/521, 11.9.340**Petrol 3.0 N55 Vanos alignment plate** chain**Art. 903 467 10**

| | |
|--------------------|--|
| Description | The vanos alignment plate for N55 engines (from set 903 466 00) |
| Models | Engine N55 B30A, B30A/M0, B30A/00, B30MO, B30MO, B3000 |
| + Types of engines | Series „1“ 135i E81/82/87/88 (10-14) M135i/xDrive F20/21 (12-14) X1 2.8i xDrive E84 (11-14) |
| | Series „3“ 335i E90/91/92/93 (09-14) 335i/xDrive F30/F31 (12-14) |
| Weight | 0,2 kg |



OEM BMW: 11.4.290

OEM: 11.4.290

PETROL N40/N42/N45/N46/N46T/N51/N52 chain ADDITIONAL KIT**Art. 903 468 00****Description**

A set of special tools for assembly and disassembly of chains timing, blocking the balance rollers and related work with their exchange.

**Models + Types of engines**

Engine 1.8, 2.0, 2.5, 3.0
N40/N42/N45/N45T/N46T/N51/N52/N52K/N53/N54

Also for cars
MINI N12/N14 and CITROEN/PEUGEOT EP3/EP6

Weight

2,35 kg

OEM: 11.4.360, 11.5.140, 11.9.280, 11.9.330

Petrol 3.0 N55 Chain**Art. 903 467 00****Description**

The kit of timing tools for petrol engines with a capacity of 3.0, installed in BMW.

**Models + Types of engines**

| | |
|---|--|
| Series „1“ 135i E81/82/87/88 (10-14) | Series „5“ 535i/xDrive F10/11 (10-14) |
| M135i/xDrive F20/21 (12-14) | ActiveHybrid 5 F10/11 (11-14) |
| X1 2.8i xDrive E84 (11-14) | GT 535i/xDrive F07 (09-14) |
| | |
| Series „3“ 335i E90/91/92/93 (09-14) | Series „6“ 640i F12/13 (11-14) |
| 335i/xDrive F30/F31 (12-14) | X3 xDrive 35i F25 (11-14) |
| | X5 xDrive 35i E70 (10-13) |
| | X6 xDrive 35i E71/72 (09-14) |

Weight

4,5 kg

OEM: 11.4.285, 11.4.290, 11.0.300, 11.9.340

Petrol 3.0 N55 Injector Remover and installing device**Art. 903 474 00****Models + Types Of engines**

Engine 3.0 mounted in BMW cars
Engine N55 B30A, B30A/M0, B30A/00, B30M0, B30MO, B3000

See set 903 467 00

Specification additional to Set 903 467 00

**Weight**

1,0 kg



OEM: 13.0.270

Crankshaft Seal Installing Tool BMW**Art. 903 468 80****Application**

Rear seal replacement device(Gearbox) of the crankshaft.
For Elring crankshaft No.257.770
This Crankshaft Seal Flange Remover and Installer is suitable for

**Weight**

3,8 kg

PETROL 1.8 - 3.0 chain**+ DIESEL 1.8/2.5 td chain****MASTER****Art. 903 100 00****Models**

BMW: serie 3, 5, 7, 8, Z3, Z4, X3, X5
E30, E31, E32, E34, E36, E38, E39, E46, E60, E83, E85.
PETROL: 1.6, 1.8, 1.9, 2.0, 2.3, 2.5, 2.8, 5.0; **V12:** 750i, 850i.
also with a single VANOS system
For Engines with the „double VANOS“ system - see complementary set 903 455 00 or the full set 903 456 00DIESEL:
BMW 1.8tds, 2.5td/tds; **OPEL** Omega 2.5TD; **RANGE ROVER**: 2.5 TD

Types of engines

BMW: M40, M41, M42, M43, M44, M50, M51, M52, M70, M73
RANGE ROVER: 254 6D

Weight

5,70 kg

Additional equipment**+ Art. 903 350 00**

Timing chain tensioner
2.5 TD

OEM: 11.3.360



OEM: 11.3.190, 11.3.240, 11.3.290, 11.3.292, 11.3.320, 11.3.340,
11.3.390, 11.4.220, 11.5.490

+ Art. 903 370 00

Device for ejection of the injection pump 2.5 TD

+ Art. 903 120 00

For Engines V12 750i / 850i (M70 i S70)

OEM: 11.3.190

PETROL 2.0/2.2/2.3/2.5/2.8/3.0 „Dual“ VANOS (VVT) - complement to the set 903 100 00**Art. 903 455 00****Models**

| | |
|---------------------------|--------------------|
| 325i/Compact | [E39] (2000-07) |
| 320i/323i/328i/330i/Coupe | [E46] (1998-07) |
| 520i/523i/525i/530i | [E39] (1998-05) |
| 520i/525i/530i | [E60/61] (2003-05) |
| 728i | [E38] (1998-02) |
| 730i | [E65/66] (2002-05) |
| X3 3.0 | [E83] (2003-07) |
| X5 3.0i | [E53] (1999-07) |
| Z3 2.0i/2.2i/2.8i/3.0i | [E36] (2000-03) |
| Z4 2.5/3.0 | [E85] (2003-06) |



OEM: 11.3.450, 11.6.150, 11.6.180

Types of engines

M52 (TU)/ M54 / M56
20 6S 4/ 22 6 S1/ 25 6S 4/ 25 6S 5/ 28 6S 2/ 30 6S 3

Weight

2,95 kg

PETROL 2.0/2.2/2.3/2.5/2.8/3.0 „Dual“ VANOS (VVT) - full set**Art. 903 456 00****Models**

| | |
|---------------------------|--------------------|
| 325i/Compact | [E39] (2000-07) |
| 320i/323i/328i/330i/Coupe | [E46] (1998-07) |
| 520i/523i/525i/530i | [E39] (1998-05) |
| 520i/525i/530i | [E60/61] (2003-05) |
| 728i | [E38] (1998-02) |
| 730i | [E65/66] (2002-05) |
| X3 3.0 | [E83] (2003-07) |
| X5 3.0i | [E53] (1999-07) |
| Z3 2.0i/2.2i/2.8i/3.0i | [E36] (2000-03) |
| Z4 2.5/3.0 | [E85] (2003-06) |



OEM: 11.3.390, 11.3.450, 11.4.220, 11.6.150, 11.6.180

Types of engines

M52 (TU)/ M54 / M56
20 6S 4/ 22 6 S1/ 25 6S 4/ 25 6S 5/ 28 6S 2/ 30 6S 3

Weight

4,60 kg

PETROL 3.0 / 3.5 / 4.0 / 4.4 / 4.6 M60 / M62 chain**Art. 903 400 00****Description**

Kit includes tools for blocking four camshafts.

Models

BMW: 730 i / 740 i [E32;E38] (92 - 94; 94 - 96), 530 i / 540 i [E34] (92 - 96), 535 i / 540 i [E39] (96 - 00) 735 i / 740 i [E38] (96 - 02), 840 i / Ci [E31] (93 - 99), X5 4.4 / 4.6 [E52] (99 - 04).

Types of engines

M60 (30 8S 1/40 8S 1), M62 (35 8S 1 / 35 82 2 / 44 8S 1 / 44 8S 2 / 44 8S 2 / 46 8S).

Weight

3,75 kg

Additional equipment**+ Art. 903 150 00**

Locking pin for the flywheel



OEM: 11.2.300



OEM: 11.2.441/445, 11.2.442/446, 11.2.443/444

+ Art. 903 170 00

Endurance braking chain tensioner.



OEM: 11.3.390, 11.4.220

Kit for the M60 / M62 Vanos engine fitted to- BMW/Land Rover**Art. 903 410 00****Description**Camshaft Sensor Locking Tool RH
Camshaft Sensor Locking Tool LH

Engine: M60 / M62
BMW Series 5 / 7 / 8 / X5
Covers engines fitted to 4.4 Range Rover (2003-2005)

Application:

- BMW seri 5/7/8/X5

Weight

0,4 kg



OEM: 11.6.450 = (11.6.451 + 11.6.452)

Key to the viscous fan clutch BMW**Art. 903 468 50****Description**Double-sided spanner with spacing of 38mm and 44.5mm
Replaces the two factory BMW wrenches OEM: 115030 and 115050**NEW**

OEM: 11.5.030, 11.5.050

Application

BMW all series
Engines:
M10, M20, M30, M40, M44, M50, M52, M52tu, M54, M56
M60, M 62, M70, M73, S14, S38, S50, B32, S54

Weight

0,2 kg

PETROL V8 3.6/4.0/4.4/4.8 N62/N62TU + 6.0 V12 N73 chain**Art. 903 470 00**

Types of engines
Engines V8 codes N62 and N62TU
also engine V12 6.0 code N73

Models

| | |
|---------------------|---------------------|
| 540i E60/61 (05-10) | 735i E65/66 (02-05) |
| 545i E60/61 (03-06) | 740i E65/66 (05-08) |
| 550i E60/61 (05-10) | 745i E65/66 (02-05) |
| | 750i E65/66 (06-08) |
| 645i E63/64 (03-06) | |
| 650i E63/64 (05-10) | 760i V12 (02-08) |

| |
|------------------------|
| X5 4.4 E53/E70 (03-07) |
| X5 4.8 E53/E70 (04-10) |

Weight
2,70 kg



OEM: 11.9.190, 11.9.460, 11.9.461, 11.9.462, 10.09.463

BMW N63 V8 4.4 Injector Remover and installing device**Upgrade !****Art. 903 472 00**

Types of engines
Engine V8 about codes N63
B44, B44A, B44A/00, B44B, B4400

Models

| | |
|-----------------------------------|--------------------------------------|
| 550i/xDrive/sDrive F10/11 (10-14) | 750i xDrive/sDrive F01/02/04 (10-12) |
| 5GT xDrive/sDrive F07 (09-14) | X5 xDrive50i E70 (10-13) |
| | X6 xDrive50i E71/72 (08-14) |
| 650i xDrive/sDrive F12/13 (11-12) | |

Upgrade !
+ an additional element in the set



OEM: 11.8.090, 11.8.570, 11.9.190, 11.9.890

Weight
2,00 kg

BMW N63 Tool for assembly / disassembly of the injectors**Art. 903 473 00**

Numer fabryczny narzędzia BMW – OEM: 2249115

Models
BMW
550i F11 Specification optional for sets 903 463 00 i 903 456 00
5GT F07
650i F12/F13
750i F01/02/04
X5 xDrive50i E70
X6 xDrive50i E71/E72

Types of engines
V8 N63 (09.2012 -)

Weight
0,5 kg

NEW

OEM: 12249115

PETROL N63 / S63 Timing tool kit

chain

Art. 903 563 00**Models****BMW**

X5M E70 (2010-2013)
 X6M E71 (2010-2013)
 Wiesmann GT MF5 (2011-)
 M5 F10 (2011-)
 M6 F12/F13 (2012-)
 M6 Gran Coupe F06 (2013-)

Types Of engines**N63 (09.2012 -)**

OEM: 83302249117 (#2249117)
OEM: 83302249140 (#2249140)
S63 B4400
S63 B44T0
OEM: 83302249144 (#2249144)
OEM: 83302249159 (#2249159)
OEM: 83302249162 (#2249162)
OEM: 11.8.570

Weight

6,3 kg

OEM: 11.9.190

**BMW M3 (S65) 2007-2013 Timing tool kit**

chain

Art. 903 465 00**Models****BMW**

E90 M3 (2007-2013)
 E91/92/93 M3 (2007-2013)

Types Of engines**4.0 S65 B40A (420 KM)**

The numbers of the factory tools BMW:

OEM: 11.9.970
OEM: 11.5.320
OEM: 11.5.370
OEM: 11.5.290

Weight

4,5 kg



DIESEL 2.0d / 3.0d M47/M57 + Common Rail chain**Upgrade !****Art. 903 200 00**

Description Set contains camshaft lock with handle, stem for blocking the flywheel and locking the tensioners.

| | | |
|---------------|---|--|
| Models | 118d E87 (03-07) 120d E87 (03-07) 318d/t/d E46 / E90/E91 (00-08) 320d/crd E46 / E90/E91 (97-08) 325d E90/91/92/93 (06-10) 330d/xd/crd E46 / E90/91/92/93 (98-08) 335d E90/91/92 (06-10) | 520d E39/ E60/61 (99-10) 525d/xd E39/ E60/61 (99-10) 530d/xd E39/ E60/61 (98-10) 535d E60/61 (04-10) 635d E63/E64 (04-10) 730d E38/ E65/66 (98-08) X3 2.0d E83 (03-07) X3 3.0d E83 (03-10) X5 3.0d E53/E70 (00-10) |
|---------------|---|--|

| | |
|-------------------------|--|
| Types of engines | M47, M47TU, M47T2, M57, M57TU, M57TU2 |
|-------------------------|--|

Also for cars
LAND ROVER, OPEL i ROVER

**Upgrade !**

+ 2 mandrels for blocking the balance rollers

Weight 1,15 kg

OEM: 11.2.300, 11.3.340, 11.5.180, 11.6.080, 11.6.320, 11.6.321, 11.6.322

Additional equipment

+ Art. 903 280 00

Puller the injection pump gear wheel



OEM: 11.8.740, 13.5.190

+ Art. 903 260 15

The cap to the crankshaft



OEM: 11.6.480

+ Art. 903 220 60

Camshaft locking tool for engines 2.0d/3.0d of gear post driven camshaft (TU)

**DIESEL 2.0 / 3.0 d + Common Rail****Art. 903 280 00**

Description Puller the injection pump gear wheel

Models + Types of engines BMW: Series 3, 5, 7 E38/E39/E46/E53/E60/E63/E65/E70/E83/E90
Engine: M47, M47TU, M57, M57TU

LAND ROVER:
Freelander (Td4, Td6)
OPEL:
Omega B 2.5DTI (Y25DT)

ROVER:
75 2.0D (M47R)
0,6 kg



OEM: 11.8.740, 13.5.190

DIESEL 2.0 / 3.0 d Common Rail**Art. 903 200 30**

Description Balance Shaft Alignment Tool

Models + Types of engines BMW: Series 3, 5, 7, X3, X5, X6 E46/E53/E60/E61/E65/E66/E70/E71/E72/E81/E82/E83/E87/E88 E90/E91/E92/E93
Engine: M47T2, M57T2

Weight 0,2 kg



OEM: 11.5.180, 11.6.080

BMW & Mini 1.5/2.0/3.0 Diesel Engines B37 / B47 / B57

Art. 903 416 00

Application

DIESEL ENGINES

BMW Series: 1, 2, 3, 4, 5, X1, X3, X4, X5, 7
 1.5 B37C15A, B37D15A,
 2.0 B47C20A, B47C20B, B47D20A, B47B20B
 3.0 B57D30A

MINI Hatch, Clubman, Convertible

1.5 B37 C15A
 2.0 B47 C20A

NEW

OEM: 11.4.120, 11.8.740, 11.8.760, 2.357.904, 2.365.488



Weight

0,3 kg

BMW 2.0/3.0d N47/N47S/N57 Timing tool kit

Art. 903 260 00

Description

Kit includes camshaft locking tool with handle, pin to lock the flywheel and the cap to rotate the crankshaft.

Models

| | |
|------------------------|-------------------------|
| 118d E81/87 (06-10) | 318d E90/E91 (07-10) |
| 120d E81/82/87 (06-10) | 320d E90/E91/92 (05-10) |
| 123d E81/82/87 (07-10) | 520d E60/61 (06-08) |

N47 / N47S D20A

X3 2.0d E83 (07-10)

Types of engines

Weight

0,95 kg

+ Art. 903 285 00

The injection pump bushing.
 Retains the position of the gear wheel
 when removing the pump for engines N47/N47S

Weight

0,2 kg

OEM: 11.8.740



OEM: 11.5.320, 11.6.480, 11.8.760

Puller injection pump BMW 2.0d N47/N47S

Art. 903 287 00

Application

BMW

Engine with codes:
 N47 2.0d (2006-2010)
 mounted in models BMW serii 1, 3, 5, X3

Weight

0,3 kg



OEM: 11.8.740

chain

BMW 2.0/3.0d N47/N47S/N57 Timing tool kit

Art. 903 265 00

Models

BMW

Series 1: 116d 118d 120d 123d (E81 E82 E87 E88 F20)
 Series 3: 316d 318d 320d 325d 330d (E90 E91 E92 E93 F30)
 Series 5: 520d 525d 530d 530d 535d 535d GT GT M550d (E60 E61 F07 F10 F11)
 Series 7: 730d 740d 750d (F01)
 X1: 1.8d; 2.0d; 2.3d, (E84)
 X3: 1.8d; 2.0d; 3.0d, 3.5d (E83 F25)
 X5: 3.0d; 4.0d; M50d, (E70)
 X6: 3.0d; 4.0d; M50d, (E71)

NEW

Types of engines

2.0/3.0d N47, N47S, N57 (2007-2015)

Weight

1,4 kg



OEM: 11.3.340, 11.4.320, 11.5.320, 11.6.480, 11.8.740, 11.8.760,

Timing tool kit MASTER for BMW 2.0d/3.0d N47/N47S/N57

chain

Art. 903 266 00

Models

BMW
 Series 1: 116d 118d 120d 123d (E81 E82 E87 E88 F20)
 Series 3: 316d 318d 320d 325d
 330d (E90 E91 E92 E93 F30)
 Series 5: 520d 525d 530d 530d
 535d 535i GT GT M550d
 (E60 E61 F07 F10 F11)
 Series 7: 730d 740d 750d (F01)
 X1: 1.8d; 2.0d; 2.3d, (E84)
 X3: 1.8d; 2.0d; 3.0d; 3.5d (E83 F25)
 X5: 3.0d; 4.0d; M5.0d, (E70)
 X6: 3.0d; 4.0d; M5.0d, (E71)

Types of engines

2.0/3.0d N47, N47S, N57 (2007-2015)

Weight

5,0 kg



OEM: 11.3.340, 11.4.320, 11.5.320, 11.6.480, 11.8.740, 11.8.750, 11.8.760, 11.8.790

Balance Shaft Alignment Tools for 1.6d/2.0d/3.0d N47/N47S/N57

chain

Art. 903 266 50

Models

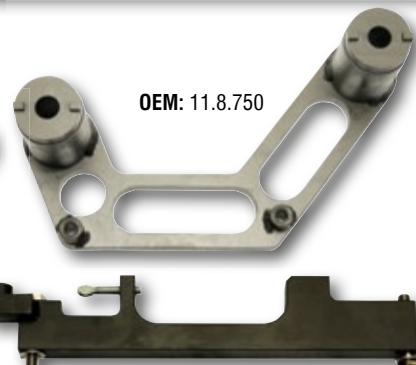
BMW
 Series 1: 116d 118d 120d 123d (E81 E82 E87 E88 F20)
 Series 3: 316d 318d 320d 325d
 330d (E90 E91 E92 E93 F30)
 Series 5: 520d 525d 530d 530d
 535d 535i GT GT M550d
 (E60 E61 F07 F10 F11)
 Series 7: 730d 740d 750d (F01)
 X1: 1.8d; 2.0d; 2.3d, (E84)
 X3: 1.8d; 2.0d; 3.0d; 3.5d (E83 F25)
 X5: 3.0d; 4.0d; M5.0d, (E70)
 X6: 3.0d; 4.0d; M5.0d, (E71)

Types of engines

2.0/3.0d N47, N47S, N57 (2007-2015)

Weight

2,7 kg



OEM: 11.8.790

BMW Crankshaft Holding Tool 2.0d /3.0d

N47 /N47S / N57

Art. 903 265 50

Description

Tool for fixing the crankshaft
 It is an additional element (supplement) to the set HP 903 260 00

Models

BMW
 Series 1: 116d 118d 120d 123d (E81 E82 E87 E88 F20)
 Series 3: 316d 318d 320d 325d 330d (E90 E91 E92 E93 F30)
 Series 5: 520d 525d 530d 530d 535d 535d GT GT M550d
 (E60 E61 F07 F10 F11)
 Series 7: 730d 740d 750d (F01)
 X1: 1.8d; 2.0d; 2.3d, (E84), X3: 1.8d; 2.0d; 3.0d; 3.5d (E83 F25)
 X5: 3.0d; 4.0d; M5.0d, (E70), X6: 3.0d; 4.0d; M5.0d, (E71)

Types of engines

2.0/3.0d N47, N47S, N57 (2007-2015)

Weight

0,35 kg



Wrench for vibration damper pulley wheel BMW Diesel

v-ribbed belt

Art. 903 230 00

NEW

Includes two exchangeable bushings for different types of pulleys

Application

BMW

- 1 - E81 120d
- 1 - E88 118d (01-12)
- 3 - E46 320d (01-12)
- 3 - E90/E91 318d/320d
- 5 - E60/E61
- X3 - E83 2.0d
- 3 - E46 318d/320d (98-2001)
- 5 - E39 (2000-2003)



OEM: 11.6.310

Serial numbers (BMW) pulleys which fits tool

BMW 11237787304
BMW 11237790021
BMW 11237793882
BMW 11237801977
BMW 11237805696

BMW 11232247565
and replacements
Contitech, Corteco,
FEBI. INA, SNo., Vaico
And other

Weight

2,5 kg

Vibration Damper Brace BMW and Mini 1.6d/2.0d/3.0d N47/N57

v-ribbed belt

Art. 903 260 50

NEW



OEM: 11.7.220

Application

BMW / MINI

Engine with codes:
N47 2.0d (2007-)
N57 3.0d (2008-)
mounted in models BMW and MINI

Includes a rotating cap
crankshaft

Weight

2,5 kg

DIESEL 2.5 TDS chain

Art. 903 300 00

Description

Kit includes camshaft locking tool, to block pin flywheel, tensioners locking pins and the injection pump puller.



OEM: 11.3.320, 11.3.340, 13.5.120, 11.2.300

Models

BMW: 318 tds (E36), 325 td / tds (E36), 525 td / tds (E34 / E39),
725 tds (E38), (91 - 03);

OPEL: Omega B 2.5 TD (94 - 01);

LAND ROVER: Range Rover 2.5 DT / SE.

Types of engines

BMW: M41 (17 4T 1), M51 (25 6T 1);

OPEL: OHC 25 DT / X25 DT;

RANGE ROVER: 25 6D (94 - 02).

Also for cars
LAND ROVER, OPEL i ROVER

Weight

1,10 kg

Additional equipment

DIESEL 2.5 TDS Timing chain tensioner

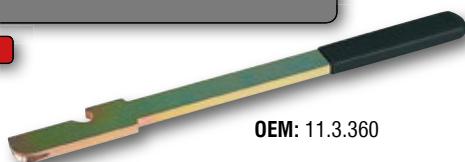
Art. 903 350 00

Models

See set 903 300 00

Weight

0,45 kg



OEM: 11.3.360

PETROL 1.6 16V belt**Art. 904 010 02**

| | | |
|-----------------------------|-----------------------|---|
| Models | Chevrolet Cruze (09-) | Also for cars: OPEL i SAAB |
| Types of engines | 1.6 16V - LXT | |
| Weight | 30 g | OEM: EN-852 |
| Additional equipment | | + Art. 904 008 00 Roll locking pin to tensioning the timing belt. + Art. 904 012 00 Flywheel holding tool. |

+ Art. 904 010 40 Patrz poniżej**Wrench timing belt to tensioning****Art. 904 010 40**

| | | |
|-------------------------|---|--|
| Models | Wrench water pump to tensioning the timing belt 41mm. | |
| | | Kalos, Aveo, Espero, Nexia, Lanos, Nubira, Lacetti, Cruze (97-09) |
| Types of engines | 1.4 - A14DM, A14MS, F14S3 | Also for cars: OPEL |
| | 1.4 16V - F14D3 | |
| | 1.5 - G15MF | |
| | 1.5 16V - A15DM | |
| | A15SMS, A15MF | |
| | 1.6 16V - A16DM | |
| | A16DMS, F16D3, LXT | |
| Weight | 0,40 kg |  |

OEM: EN-42492, J-424492, KM-421A**PETROL 1.0 / 1.2 / 1.4 chain****Upgrade !****Art. 904 022 50**

Kit includes tools:

Camshaft Sensor Disc Setting Tool
Inlet Camshaft Adjuster Tool Camshaft Sensor Locating Tool

Chain Tensioner Pin 4mm

Belt Tensioner Pin 2.5mm

Camshaft Locking Plate

Crankshaft Locking Pin

| | |
|-------------------------|------------------------------|
| Models | 1.2 Engine : LWD/A12XEL |
| Types of engines | 1.2 Engine: LDC/A12XER |
| | 1.2 Engine L2Q/A12XEL |
| | 1.4 Kod Enginea : LDD/A14XER |
| | 1.4 Kod Enginea : LDD/A14XEL |

Also for cars:
OPEL**Weight** 3,1 kg**Upgrade ! Added lock HP 904 026 00 (OEM: EN 49978)****OEM:** EN-952, EN-953-A, EN-955-1, EN-49977, EN-49977-100, EN-49977-200**PETROL 1.4/1.6/1.8 16V belt****Art. 904 013 00**

| | |
|-------------------------|--|
| Description | Kit includes the camshafts locking tool, flywheel holding tools and locking pin the timing belt tensioner. |
| Models | Aveo, Cruze (09-14) |
| Types of engines | 1.4 16V - G14D 1.6 16V - LDE, LLU, LXV 1.8 16V - ZH0 |
| Weight | 0,65 kg |

OEM: EN-6333, EN-6340, EN-6625**DIESEL 2.0d VCDi belt****Art. 904 021 00**

| | |
|-------------------------|--|
| Models | Nubira, Lacetti, Evanda, Epica, Captiva, Cruze |
| Types of engines | 2.0 D - LLW, LNP, RA420, Z20S1, Z20D |
| Weight | 1,15 kg |

**OEM:** EN-48245, EN-48246

Chrysler / Jeep 2.5/2.8 CRD

belt

Art. 904 200 00

Models Chrysler (Grand) Voyager (01-08), Jeep Cherokee (01-08)

Types of engines 2.5 CRD - R2516C, R2516C5, R2516L, R2516K
2.8 CRD - R2816K, R2816K4

Weight 0,70 kg



OEM: Mot854, VM1051, VM1052, VM1053, VM1056, VM1068, VM1080, VM8873

Chrysler / Jeep 2.8 CRD from 2008

belt

Art. 904 300 00

Description Serial numbers of tools OEM: VM.9991, VM.9992

Models Jeep Cherokee, Wrangler (2008-2011)
Chrysler Grand Voyager (2008-2014)
Lancia Voyager 2,8D MultiJet 16V (2011-14)
Dodge Nitro

Types of engines ENS / ENo. (49C / 50C / 51C / 52C)
VM 64 C

Weight 1,2 kg



OEM: VM.9991 / 2000040996

OEM: VM.9992 / 2000040581

PETROL & DIESEL belt**MASTER****Upgrade !****Art. 905 951 00****Models****CITROËN:** All Models (1984-2013)**PEUGEOT:** All Models (1984-2013)
without engines 6-cylinders**Types of engines****Petrol engines:**1.0, 1.1, 1.3, 1.4, 1.5, 1.6, 1.8, 2.0
1.4 16V: ET3J4 (KFU), TU3A/JP (KFV/KFW/KFT)
1.6 16V, 2.0 16V (engines codes TU, XU)
1.8 16V, 2.0 16V, 2.2 16V (engines codes EW7, EW10, EW12)**Engines Diesel'a:**

1.4, 1.5, 1.7, 1.9, 2.1, 2.5 D / TD (engines codes TUD, XUD)

Diesel HDI: 1.4, 1.6, 2.0, 2.2, 2.8 (engines codes DW8, DV4, DV6, DW10, DW12, FJ6A, F6JB, F6JC)**Weight**

5,00 kg

Numbers OEM: as in the sets detailed below**Includes sets:****Art. 905 420 00****Art. 905 700 00****Art. 905 430 00****Art. 905 600 00****Art. 905 800 00****Art. 907 180 00****Citroen / Peugeot 1.0 / 1.2 VTi****chain****Art. 905 440 00****Models**

| | |
|-----------------|--------------------------|
| Peugeot: | Citroen: |
| 208 (2012-) | C3 III (2012-) |
| 2008 (2012-) | C4 Cactus (2014-) |
| 308 (2013-) | DS3 / DS3 Cabrio (2013-) |

OEM: 0109 2A



Types of engines
 1.0 VTi EBO (ZMZ)
 1.0 VTi EB0F (ZMZ)
 1.2 VTi EB2 (HMZ/HMW)
 1.2 eVTi EB2F (HMZ)
 1.2 eTHP EB2DT (HNZ)

NEW**Weight**

2,15 kg

PETROL 1.0-2.0 belt**Art. 905 600 00****Models**

CITROËN: AX, BX, ZX, C15, Saxo, Visa, Xantia, Xsara;
PEUGEOT: 106, 205, 206, 306, 307, 309, 405, 406, 605, 806,
 Partner, Boxer; **FIAT:** Ulysse, Ducato;

**Types of engines**1.0, 1.1, 1.3, 1.4, 1.6, 1.8, 1.9, 2.0, 1.6 16v, 2.0 16v.
TU, XU (86 - 08).**Weight**

0,80 kg

Numbers OEM:

| | | | | | | | | | |
|----------|--------|---------|---------|---------|---------|---------|-----------|-----------|----------|
| 0132AJ2 | 0132AK | 0132Q | 0132Q7 | 0132R | 0132RZ | 0132X1Z | 0134Q | 0153A | 0188F |
| 0188-K | 0188-M | 0189-K | 4200TH | 4507-TA | 4507-TB | 4507-TJ | 4533-TAC1 | 4533-TAC2 | 4533-TAD |
| 57111-TA | 6012-T | 7004-TG | 7014-TM | 7014-TN | 7017-TU | 7018-TY | 7044-T | 9004-T | 9022-TM |
| 9041-TZ | 9044-T | 9765.54 | 9766.98 | 9767.27 | 9767.89 | 9767.94 | D86 | | |

PETROL 1.4 16V „ET” belt**Art. 905 430 00**

Models CITROËN: C2, C3, Pluriel, C4, Saxo, Xsara, Nemo, Berlingo; (01-14)
PEUGEOT: 106, 1007, 206 (CC), 207, 306, 307; (01-13)

Types of engines 1.4 16V: ET3J4 (KFU) , TU3A/JP (KVF/KFW/KFT)

Weight 0,30 kg



OEM: 0132QY, 0188-K, 0189-K, 4200TH, 4533-TAD

PETROL Citroen/Peugeot 1.4 VTi /1.6 THP 16V chain + MINI N12/N14**Art. 905 450 00**

Models Citroen Berlingo III, C3, DS3, C4 (Picasso), C5 III (08-13)
Peugeot 207 (CC), 208, 308, 3008, 5008, RCZ (06-13)

Types of engines Engine: 1.4 VTi Valvematic about codeEP3
Engine: 1.6 VTi Valvematic about codeEP6
Engine: 1.6 THP Direct Injection about codes EP6DT, EP6DTS, EP6CDT

Citroen

C3 III - EP3C (8F01), EP6C (5F01)
C3 Picasso - EP3 (8FS), EP3C (8F01) EP6 (5FW)
C4, C4 Picasso - EP6 (5FW), EP6DT (5FX)
C5 III - EP6CDT (5F04)
DS3 - EP3 (8FS), EP6C (5F01), EP6DT (5FX)

Peugeot

207 - EP3 (8FS), EP6 (5FW), EP6C (5F01), EP6DT (5FX), EP6DTS (5FY)
308 - EP3 (8FS), EP3C (8F01) EP6 (5FW), EP6C (5F01)
EP6CDTX (5FU), EP6DT (5FX), EP6DTS (5FY)
3008 - EP6 (5FW), EP6C (5F01), EP6DT (5FX), EP6CDT (5F04)
5008 - EP6 (5FX), EP6C (5F01), EP6CDT (5F04)
RCZ - EP6CDTX (5FU), EP6CDT (5F04)

Weight 2,45 kg



OEM: 0197-A1, 0197-A2, 0197-A3, 0197-B

Also for cars MINI

OEM: 11.4.360, 11.5.140, 11.9.330

PETROL 1.8 / 2.0 /2.2 16V HPI „EW” belt**Art. 905 420 00**

All engines with the crankshaft pulley fastened central screw and older models with a pulley fastened with 4 screws.

Models

CITROËN: C4, C5 II, C5 III, C8 Xsara/Picasso, Jumpy, Evasion (98-11)
PEUGEOT: 206/306, 307, 406/Coupe, 407, 607, 806, 807, Expert (98-11)

Types of engines

1.8 16V
 EW7J4 (6FZ), EW7A (6JY)

2.0 16V
 EW10A (RFJ), EW10J4S (RFK), EW10J4, EW10J4/L5
 EW10J4R/L5, EW10J4/L4/5 (RFN/RFR)

2.0 HPI
 EW10D (RLZ)

Also for cars LANCIA

2.2 16V
 EW12J4/L5 (3FZ), EW12J4 (3FY)

**Numbers OEM:**

| | | | | |
|--------|---------|---------|----------|--------|
| 0132AK | 0188-K | 0189-A | 0189-AZ | 0189-B |
| 0189-C | 0189-J | 0189-K | 0189-L | 0189-R |
| | 0189-S1 | 0189-S2 | 4533-TAD | |

Weight

1,50 kg

Crankshaft wrench PETROL 1.8 / 2.0 /2.2 16V HPI „EW” belt**Art. 905 425 00**

Wrench is used for positioning the flange of the crankshaft pulley.

Models

Wrench is addition for sets 905 420 00 and 905 951 00.
 For engines: 1.8 16V, 2.0 16V, 2.2 16V code „EW”
 - with unregulated of the camshafts wheels



OEM: 0606-A1/A2

Weight

0,40 kg

DIESEL 1.4, 1.6, 2.0, 2.2 HDI belt**Upgrade !****Art. 905 800 00****Models**

CITROËN: C1, C2, C3, C5, C4, C4 Picasso, C5/I/II, C6, C8, Xsara, Xsara Picasso, Xantia, Evasion, Berlingo, Dispatch, Jumper, Jumpy, Relay, Grand Picasso, C-Crosser

PEUGEOT: 107, 1007, 206/CC, 207, 306, 307/CC, 308, 406/Coupe, 407, 607, 806, 807, Expert II, Boxer II, Partner 2.0 HDI;

FORD: Fiesta, Fusion, Focus C-Max (1.4 / 1.6 TDCi)

Types of engines

DIESEL: 1.9D; 1.4/1.6/2.0/2.2 HDI
 DW8, DV4, DV6, DW10, DW12, F6JA, F6JB, F6JC (98-14)

Weight

2,45 kg



Upgrade ! Added OEM: 0188AH, 0188-K, 0188Q1, 4200-TH, 0153-AL

Numbers OEM:

| | | | | | | | | | |
|---------|-----------|----------|----------|----------|----------|---------|---------|---------|---------|
| 0132AJ1 | 0132AK | 0134Q | 0153A | 0178T | +0188AH | 0188-E | 0188F | 0188-H | 0188-J1 |
| 0188-J2 | +0188-K | 0188-M | 0188-P | +0188Q1 | 0188-X | 0188-Y | 0189-K | 0194-A | 0194-B |
| 0194-C | 4533-TAC1 | 4533-TAD | 57111-TA | 57111-TC | 57111-TE | 7014-TJ | 7014-TN | 7017-TR | 7044-T |
| 9004-T | 9044-T | 9766.98 | 9767.27 | 4200-TH | 0153-AL | | | | |

DIESEL 1.4-2.5 belt

Art. 905 700 00

Models

CITROËN: AX, BX, MX, ZX, Saxo, Visa, Xantia, Xsara, C15, C25, Berlingo, Jumper, Jumpy;

PEUGEOT: 106, 205, 306, 309, 405, 406, 605, 806, Boxer, Expert, Partner.

FIAT: Ducato, Ulysse, Scudo 1.9, 2.1 D/TD;

ROVER 1.5 D; **Nissan:** Micra 1.5 d; **FSO:** Polonez 1.9 D.

Types of engines

DIESEL: 1.4, 1.5, 1.7, 1.8, 1.9, 2.1, 2.5, D/TD;
TUD, XUD (84 - 03)

Weight

2,25 kg



Numbers OEM:

| | | | | | | | | | |
|----------|----------|----------|----------|---------|---------|----------|----------|-----------|------------|
| 0117-AR | 0132AB | 0132AJ1 | 0132P | 0132Q | 0132Q7 | 0134Q | 0153A | 0178T | 0188F |
| 0188-H | 0188-J2 | 0188-M | 0188-Y | 4507-TA | 4507-TL | 4507-TS1 | 4507-TS2 | 4533-TAC1 | 57111-TA |
| 57111-TB | 57111-TC | 57111-TD | 57111-TE | 6012-T | 7014-TJ | 7014-TN | 7017-TR | 7019-T | 7044-T |
| 9004-T | 9022-TM | 9044-T | 9765.54 | 9766.98 | 9767.27 | 9767.27 | D86 | M8 Bolts | 1860617000 |

DIESEL 2.2 HDI

Upgrade !

Art. 907 220 00

Models i Engine

CITROËN/PEUGEOT Jumper(01-14) / Boxer(00-14)
2.2 HDI - PSA Puma 2.2 DT 4HV/4HU

Also for cars
FIAT, Ford

Weight

0,50 kg OEM: 2000016500, 2000018700, 0198-A,
0198-B2, 2000017100



Upgrade ! - A crankshaft locking pin has been added 907 200 95

DIESEL 2.2 Set of tools for balance shafts

Art. 906 190 00

Description

A set of tools to adjust the balance shafts in Ford 2.2 DOHC engines, in which the procedure of replacement timing it requires disassembly of balancing shafts.

NEW

OEM: 303-1330

Models + Engine

Peugeot 406, 407, 508, 607, 807, 4007 (02-15) DW12....

Citroën C5/I/II, C6, C8, C-Crosser HDi/GT HDi (02-15)
4HX/4HN/4HW/4HP/4HK/4HR/4HT/4HZ/4HS

FORD Galaxy, SMAX, Mondeo TDCi/Tci (08-15)

Q4BA, Q4WA, KNBB, KNBA, KNWA

Land Rover Discovery/Discover Sport/Freelander 2 (09-15)
224DT (eD4/SD4/TD4/TD4e)

Mitsubishi Outlander DI-D/DC (07-13) 4HK/4HN

Range Rover Evouqe (11-15) 224DT (eD4/SD4)



OEM: 303-1329

OEM: 303-1328 / 0190D

Weight

0,9 kg

Also for cars
FORD, Land Rover, Range Rover, Mitsubishi

DIESEL Duratorq Citroen/Peugeot 2.0/2.2/2.4

Timing tool kit

Art. 907 230 00

Description

Timing lock basic kit - crankshaft lock, flywheel locking pin, locking pins for timing gears.

Models + Types of engines

CITROEN/PEUGEOT Jumper/Boxer after 2014
2.2 HDI - PSA Puma 2.2 DT 4HV/4HU

Weight

0,50 kg

Also for cars
FORD and FIAT



DIESEL 3.0 HDi chain

Art. 907 090 00

Models

CITROEN: Relay/Jumper III (06-13)
PEUGEOT: Boxer III (06-14)

Also for cars
FIAT and IVECO

Types of engines

3.0HDI
- F1CE (F30DTE)

Weight

0,80 kg



OEM: 1860638000, 18G1671, 2000018200,
07LAG-PT20100, 99360614, 99360615, 0132AB

DIESEL 2.5 / 2.8 belt

Art. 907 180 00

Models and engines

CITROEN/PEUGEOT Jumper(01-02) / Boxer(00-06)
2.8TD/HDI - 8140.63, 9140.43, 8140.43s

Also for cars
FIAT, IVECO,
OPEL and RENAULT



Weight

0,30 kg

DIESEL 2.7 V6 HDI belt

Art. 905 810 00

Models

CITROEN C5 III (05-10) 407/Coupe (04-09), 607 (04-10)
C6 (06-08)

Types of engines

TD 17TE D4 (UHZ)
DT17BTED4 (UHZ)

Weight

0,50 kg



OEM: 0132AK, 0188-K, 0189-K, 0195-C, 0195-H, 0195-K

PETROL 1.4 12V, 1.2/1.4/1.6/1.8 16V, 2.0 20V

FIAT MASTER PETROL

Art. 907 900 00

Models
+ Types
of engines

1.2 16V: 176 B9.000/182 B2.000/188 A5.000
 (+ 1.4 16V : 843 A1.000) FIAT (97-09): Albea, Bravo, Brava, Palio Weekend, Siena, Stilo; LANCIA: Ypsilon (96-07), Musa (04-08)

1.4 12V: 182 A3.000/182 A5.000/840 A2.000/840 A4.000
 FIAT (95-00): Bravo, Brava, Palio Weekend Marea, Marea Weekend, Siena; LANCIA (96-01): Ypsilon

1.6 16V: 178 B3.000/182 A4.000/182 A6.000/182 B6.000
 FIAT (95-07): Bravo, Brava, Doblo/Cargo, Palio Weekend, Marea/Weekend, Multipla, Tipo, Siena, Stilo
 LANCIA : Delta (96-99), Lybra (99-06)

1.8 16V (115 KM): 182 A2.000, 1860 847/C/2
 FIAT (95-02): Bravo, Brava, Marea/Weekend, Punto HGT, Stilo;
 LANCIA : Dedra, Delta

2.0 20V (5 cyl.): 182 A1.000/175 A3.000
 FIAT (95-01) : Bravo, Marea/Weekend, Coupe

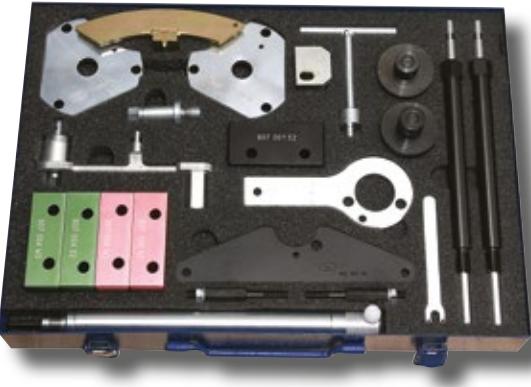
Detailed Description of applications in Description sets

Weight

3,5 kg Numbers OEM: as in the sets detailed below

Set 907 900 00 Contains Sets and tools with numbers:

Art. 907 004 00 **Art. 907 006 00** **Art. 907 015 00** **Art. 907 015 70** **Art. 907 020 00** **Art. 907 030 10** **Art. 907 050 10**
Art. 907 050 60 **Art. 907 060 00** **Art. 907 070 00**



DIESEL 1.3 - 3.0 D/TD/JTD (Fiat+Alfa Romeo+Iveco+Lancia)

FIAT DIESEL MASTER

Art. 907 910 00

Models
+ Types
of engines

1.3 JTD - FIAT: Panda, Idea, Doblo / Cargo 1.3 JTD Multijet (04-07) engines codes 188 A8.000, 188 A9.000

1.3 CDTi (04-07) - OPEL: Agila, Corsa, combo, Astra - H, Tigra - B, Meriva, engines codes: Z13DT, Z13DTH

1.6 JTD 16V - Engine with codes 198A2.000, 198A3.000, 198A6.000, 350A2.000

1.9 D/TD/JTD po 98r - all Models and Types Of engines group Fiat/Alfa/Lancia

1.9 JTD16V/CDTi - all Models and Types Of engines group Fiat/Alfa/Lancia and Opel/Saab

2.0 JTD 16V - Engine about code198A5.000 (belt)

2.3 JTD (02-09) - F1AE0481C, F1AE0481D, F1AE0481N (Ducato)

2.4 JTD10V/ 2.4 JTD20V - all Models i Types Of engines Fiat/Alfa/Lancia

2.5 D/TD (87-05) - 8144.67/8140.27/8140.47R/8144.21 Ducato/Daily/Turbo Daily

2.8 D/JTD (87-05) - 8140.43/8140.63/8140.43S Ducato/Daily/Turbo Daily also vans Citroen/Opel/Renault

3.0 JTD chain (02-09) - F1CE0481A (Iveco, Ducato)

Detailed Description of applications in Description. Sets on the following pages



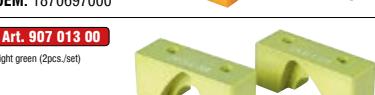
Weight

3,0 kg Numbers OEM: as in the sets detailed below

Set 907 910 00 contains Sets and tools with numbers:

Art. 904 015 00 **Art. 904 015 50** **Art. 904 019 00** **Art. 907 050 10** **Art. 907 050 60** **Art. 907 090 00** **Art. 90718000**



| Interlocks the camshafts | Models and Engines | Codes Engines | Additional options |
|--|---|---|---|
| Art. 907 001 00 Black  OEM: 1860899000 | FIAT Bravo, Brava (95-98) 1.4 12V LANCIA Ypsilon (96-01) 1.4 12V | 182 A3.000 182 A5.000 840 A2.000 840 A4.000 | + Art. 907 070 10 Available as set: 907 070 00 OEM: 1860899000, 1860901000 |
| Art. 907 002 00 Violet (2 pcs./set)  OEM: 1.825.042.000 | ALFA ROMEO 145, 146, 147 (96-10) 1.4 16V, 1.5 16V; 155, 156 (96-06) 1.6 16V | 1.4 16V 335.03 1.6 16V 321.02, 321.04, 322.05, 676.01 | + Art. 907 030 10 OEM: 1860845000 |
| Art. 907 003 00 Brown (2pcs./set)  OEM: 1.870.797.000 | ALFA ROMEO 147 (05-10) 1.6 16V 105 KM | 372.03 | + Art. 907 030 10 OEM: 1860845000 |
| Art. 907 004 00 Green (2pcs./set)  OEM: 1860875000 | FIAT Bravo, Brava, Maree, Punto HGT, Stilo (95-02) 1.8 16V 115 KM; LANCIA: Delta, Dedra 1.8 16V 115 KM | FIAT 182 A2.000 LANCIA 182 A2.000 1860 847/C.2. 1.8 16V 115 KM | + Art. 907 030 10 + Art. 907 050 60 For Stilo 192 A4.000 + Art. 907 050 10 |
| Art. 907 005 00 Blue (2pcs./set)  OEM: 1.825.041.000 | ALFA ROMEO 145, 146, 147, 155, 156, 166, Spider/GTV, GT (95-09) 1.8 16V / 2.0 16V | 1.8 16V 322.01, 322.05, 671.06 2.0 16V 162.02, 323.01, 323.10, 341.03, 363.01, 672.04 | + Art. 907 030 10 + Art. 907 030 20 OEM: 1.822.154.000 |
| Art. 907 006 00 Pink (2pcs./set)  OEM: 1860892000 | FIAT Bravo, Brava, Maree, Weekend, Coupe (95-01) 2.0 20v | 182 A1.000 | |
| Art. 907 007 00 Grey (2pcs./set)  OEM: 1860847000 | FIAT: Barchetta, Coupe, Punto (96-05); LANCIA: Delta, Dedra (96-99) 1.8 16V 130KM | 183 A1.000 (130KM) | + Art. 907 030 10 + Art. 907 050 60 OEM: 1860898000 |
| Art. 907 009 00 Red (4pcs./set)  OEM: 1.825.040.000 / 1.870.896.600 | ALFA ROMEO 156, 166, GTV (96-07) 2.5, 3.0 V6 24V LANCIA Thesis 3.0 V6 - 3.2 V6 | 2.5 V6 324.01, 324.05, 342.01, 362.01 3.0 V6 161.02, 161.05, 343.01, 361.01, 841A.000 3.2 V6 841L.000 | |
| Art. 907 012 00 Orange (2pcs./set)  OEM: 1870697000 | LANCIA Lybra (99-05) 1.8 16v FIAT Punto HGT/Stilo | 839 A4.000 839 A7.000 192 A4.000 188.A6.000 183.A6.000 | + Art. 907 030 10 + Art. 907 030 20 + Art. 907 050 60 |
| Art. 907 013 00 Light green (2pcs./set)  OEM: 1.870.859.000 | ALFA ROMEO 147, 156, 166, GTV, Spider, GT (04-) 2.0 JTS 20V | 839 A2.000 839 A3.000 937 A1.000 937 A2.000 | |
| Art. 907 014 00 Brown (4pcs./set)  OEM: 1.870.849.000 | ALFA ROMEO 147GTA, 156GTA, 166, GTV, Spider, GT (02-) 3.2 V6 24V | 932 A.000 936 A.000 | |

+
907 019 00The Wrench
VARIATOROEM:
1.822.147.000+
907 020 00Tool for
setting
the GMPOEM:
1.825.013.000,
1860895000+
911 090 00Dial
indicator 0-5mm

PETROL FIAT/ALFA ROMEO/LANCIA 0.9 TwinAir (chain)**Art. 907 309 00**

Models
 Alfa Romeo Mito (12-)
 Fiat 500 (10-)
 Panda (12-)
 Punto (12-)
 Lancia Ypsilon (12-)

Types of engines
 0.9 TwinAir Turbo
 about code 312A2000

Weight 0,8 kg



OEM: 2.000.035.100, 2.000.035.200, 2.000.035.300

PETROL FIAT/ALFA ROMEO/LANCIA 1.4 MultiAir (belt)**Art. 907 314 00**

Models
 Alfa Romeo Mito (09-)
 Giulietta (10-)
 Fiat Punto Evo (09-)
 Lancia Ypsilon (09-)

Types of engines
 1.4 (105KM) 955A6.000
 1.4 (135KM) 955A2.000/A7.000
 1.4 (163KM) 955A8.000
 1.4 (170KM) 940A2.000



OEM: 1.860.987.000, 2.000.004.500, 2.000.034.400, 2.190.754.000

PETROL ALFA ROMEO/ LANCIA 1.7 TBi (belt)**Art. 907 317 00**

Models
 Alfa Romeo
 Giulietta (10-),
 159 (09-),
 Spider (09-),
 Brera (09-)
 Lancia
 Delta 1.7Di (09-)

Types of engines
 1.7 TBi (1.7Di) with timing belt
 939B1000 (200KM)
 940A1000 (235KM)



OEM: 1.860.898.000, 2.000.000.700, 2.000.003.000, 2.000.033.500

PETROL 1.6 16V belt**Art. 907 015 00****Description**

Set includes Interlocks the camshafts and the instrument to pre-tension the timing belt.

Models

FIAT: Palio Weekend Brava, Bravo, Doblo/Cargo, Marea/Weekend, Marengo, Multipla, Tipo, Stilo, Siena (95-09)

LANCIA: Delta (96-99), Lybra (99-06)

Types of engines

1.6 16V - 178B3.000, 182A4.000, 182A6.000, 182B6.000

Weight

1,45 kg



OEM: 1860874000, 1860876000

Additional equipment**+ Art. 907 020 00**

Tool for setting the GMP.

**+ Art. 907 015 70**

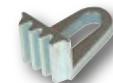
Flywheel holding tool

OEM: 1860680000
1860771000

**+ Art. 905 190 00**

Flywheel holding tool
Palio Weekend (-00), Stilo

OEM: 1862161000, 1860703000

**Tool for setting the GMP****Art. 907 020 00****Models**

FIAT / ALFA ROMEO / LANCIA / VW and other.

Weight

0,45 kg



OEM:
1.825.013.000,
1860895000

Additional equipment**+ Art. 911 090 00**

Dial indicator 0-5mm

**PETROL 1.2 / 1.4 16V belt****Art. 907 060 00****Description**

Set includes Interlocks the camshafts, instruments to set the crankshaft and the wrench to the belt tensioner.

Models

FIAT: 500, Panda, Punto, Grande Punto, Albea, Linea, Bravo, Brava, Palio, Idea, Weekend, Siena, Stilo, Marea 1.2 16V (97-12);

ALFA ROMEO: MiTo (08-12);
LANCIA: Ypsilon, Musa (96-13)

Types of engines

1.2 16V - 176B9.000, 182B2.000, 188A5.000,
1.4 16V - 843A1.000, 169A3.000, 192B2.000, 198A1.000
198A4.000, 199A6.000, 199A8.000, 955A1.000

Weight

1,20 kg



OEM: 1860985000, 1860987000, 1860992000,
2000015800, 2000004500, 1871000900

PETROL 1.4 12V belt**Art. 907 070 00****Description**

Kit includes timing tools for camshaft and locking tool the crankshaft.

Models

FIAT: Bravo, Brava, Marea/Weekend 1.4 12V (95-98)

LANCIA: Ypsilon 1.4 12V (96-01)

Types of engines

1.4 12V - 182A3.000, 182A5.000, 840A2.000, 840A4.000

Weight

0,60 kg



OEM: 1860899000, 1860901000

THE Wrench VARIATOR**Art. 907 019 00****Models**

ALFA ROMEO, FIAT i LANCIA
16V and 20V

Types of engines

Engines equipped with
the the camshafts variator.



OEM: 1852161000

PETROL 1.1 / 1.2 / 1.4 8V belt**Art. 907 100 00**

| | |
|-------------------------|---|
| Models | FIAT: 500, Idea, Linea, Grande Punto, Palio, Doblo/Cargo, Panda ALFA ROMEO: Ypsilon, Musa FORD: Ka |
| Types of engines | 1.1 8V - 187A1.000 1.2 8V - 169A4.000, 188A4.000, 199A4.000, 223A5.000 1.4 8V - 199A7.000, 350A1.000 |
| Weight | 1,35 kg |
| |  Also for cars: FORD |

PETROL 1.8 16V belt**Art. 904 013 00**

| | |
|-------------------------|--|
| Description | Kit includes the camshafts locking tool, flywheel holding tools and locking pin the timing belt tensioner. |
| Models | FIAT: Croma (05-11) |
| Types of engines | ALFA ROMEO: 159 (05-10) 1.8 16V - 939 A4.000 |
| Weight | 0,65 kg |

Flywheel holding tool**Art. 907 050 60**

| | |
|-------------------------|---|
| Models | FIAT: Brava, Punto, Idea, Marea, Multipla, Stilo 1.9 D / TD / JTD (96-06); Bravo, Brava 1.8 16v (95-02); Marea 1.8 16v (96-03); Stilo 1.8 16v (01-06) ALFA ROMEO: GT 2.0 JTS (04-06); 145 / 146 / 156 / 166 1.9 / 2.4 JTD (97-06); LANCIA: Delta 1.8 16v (96-99), Lybra 1.8 16v (99 - 03). 182 A2.000, 182 A7.000, 182 A8.000, 182 B4.000, 188 A2.000, 188 A3.000, 188 B2.000, 192 A1.000, 192 A3.000, 192 A4.000 937 A1.000, 932 A2.000; 323.02, 325.02, 325.01, 342.02, 937 A2.000 |
| Types of engines | 0,15 kg |



OEM: 1860898000

PETROL 1.2 8V / 1.2 8V EVO2 belt**Art. 907 150 00**

| | |
|-------------------------|--|
| Models | Fiat Palio/Siena, Panda, Punto, Grande Punto, Palio Weekend Engine 1.2 8V/ 1.2 8V EVO2 |
| Types of engines | 188 A4.000 (1999-2013) |
| Weight | 1,00 kg |

**+ Art. 907 020 00**

Tool for setting the GMP

**PETROL 1.8/2.0 belt****Art. 905 600 00**

| | |
|-------------------------|-----------------------------------|
| Models | Ulyse 1.8/20 Turbo Ducato 2.0 |
| Types of engines | XU10J4 (LFU, RFU, GRX, RFW) 95-98 |

Art. 904 014 00

| | |
|-------------------------|---|
| Models | The camshafts locking tool Croma (05-10) |
| Types of engines | 2.2 16V - 194 A1.000 |
| Weight | 1,00 kg |



OEM: 1860845000

Timing belt tensioner**Art. 907 030 10**

| | |
|---------------|--|
| Models | ALFA ROMEO: 16V - 1.4, 1.6, 1.8, 2.0 (95 -); FIAT: Bravo, Brava 1.8 16v (95 - 00); Marea 1.8 16v (96-03); Barchetta 1.8 16v (96-00); LANCIA: Delta, Dedra 1.8 - (96 - 99); Lybra 1.8 16v (99-03). AR 232.01, 672.04, 162.01, 323.10. |
| Weight | 0,85 kg |

OEM: 1860845000

Art. 907 030 20

| | |
|---------------|--|
| Models | ALFA ROMEO: 145, 146, 147, 155, Spider, GTV 2.0 Twin Spark (95 - 03); LANCIA: Delta, Dedra 1.8 (96 - 98). AR 323.01, 672.04, 162.01, 323.10. |
| Weight | 0,95 kg |

OEM: 1.822.154.000



PETROL 2.0 16V „EW” belt**Art. 905 420 00**

Models
Types of engines
Weight

LANCIA: Phedra (02-06)
2.0 16V - EW10 (RFN)

Also for cars
CITROEN/PEUGEOT

1,50 kg

**DIESEL 1.3 JTD Multi Jet chain****Art. 904 019 00**

Models

FIAT: 500, 500L, Panda, Punto, Grande Punto, Punto EVO, Linea, Idea, Qubo, Fiorino, Doblo/Cargo (04-14)

LANCIA: Ypsilon (03-06), Musa (04-09)

Also for cars Citroen, OPEL, FORD i SUZUKI

Types of engines

1.3 JTD 16V - 169A1.000, 169A5.000, 169B1.000,
188A8.000, 188A9.000,
199A2.000, 199A3.000, 199A9.000,
199B1.000, 199B2.000, 199B4.000
223A9.000, 263A2.000



OEM: 1871000900, 1860985000, 8mm

+ Art. 904 019 50

Weight
Additional equipment

A set of additional tools
for setting camshaft after
removing the engine head and
other major engine repairs.

Also
for cars:
OPEL, FORD i SUZUKI

Models
+ Types of engines

Application as Set 904 019 00



OEM: 1870900300, 1870900400, 1871000200

Weight
Additional equipment

+ Art. 904 019 60
Key to the camshaft
Description - see next page



NEW

FLYWHEEL Holding tools**Art. 907 050 70**

Models

FIAT: Bravo, Brava 1.9 D (95-02);
LANCIA: Delta 1.6 (95-97)

160 A7.000

OEM: 1860766000



Models

FIAT: Brava, Bravo, Doblo / Cargo, Marea, Multipla, Palio Weekend, Siena, Stilo 1.6 16V (95-06).

182 A4.000, 182 A6.000, 182 B6.000.

OEM: 1860680000, 1860771000

**Art. 907 015 70**

Models

FIAT: ALFA ROMEO; 1.9 JTD 16V



OEM: 2000000700

DIESEL 1.6/1.9/2.0/2.4 JTD belt**Art. 904 015 00**

Models

FIAT: All Models (99-14)

ALFA ROMEO: 145, 146, 147, Giulietta, 156, 159, Cross Wagon, 166, GT, Brera, Spider (98-14)

LANCIA: Musa, Lybra, Kappa, Thesis (97-10)

Also for cars OPEL i SAAB

1.6 JTD 16V - 198A2.000, 198A3.000, 198A6.000,

263A3.000, 263A4.000, 263A5.000, 350A2.000

1.9 JTD 8V - 323.02, 371.01, 182B4.000, 182B9.000,

186A6.000, 186A8.000, 186A9.000, 188A2.000, 188A7.000,

188B2.000, 192A1.000, 192A3.000, 192A8.000, 192A9.000,

192B4.000, 192B5.000, 199A5.000, 223A7.000, 223B1.000

937A2.000, 937A3.000, 939A1.000, 939A5.000, 939A7.000

1.9 JTD 16V - 192A5.000, 192B1.000, 937A4.000, 937A5.000

939A2.000, 939A8.000

2.0 JTD 16V - 198A5.000, 263A1.000, 940A5.000,

2.4 JTD 10V - 325.01, 342.02, 362.02, 185A6.000,

838A8.000, 839A5.000, 839A6.000, 841C.000

2.4 JTD 20V - 841C.000, 841D.000, 841G000, 841H.000,

841M.000, 939A3.000, 939A9.000

Weight

0,80 kg



OEM: 1870896900, 1.860.905.000, 1.860.905.010,
2000003000

+ Art. 904 015 50

Flywheel holding tool

Or

+ Art. 907 050 60

Flywheel holding tool



Key to the camshaft 1.3 JTD**Art. 904 019 60**Models
+ Types
of engines

Fiat 1.3 JTD/MultiJet - all Models (2003-)
 OPEL 1.3 CDTi - all Models (2003-)
 Citroen Nemo 1.3 HDi (FHZ-F13DTE5)
 Peugeot Bipper 1.3 HDi (F13DTE5-FHZ)

NEWAlso for cars
CITROEN/PEUGEOT i OPEL

The serial numbers of the tool:
 FIAT OEM: 1871008600
 PSA OEM: 0104-B/0104B
 FORD OEM: 303-1475

Weight

0,2 kg

Specification additional to Set 904 019 00

DIESEL 1.9/2.4D/TD/JTD belt**Art. 907 050 10**

Models

FIAT: 1.9 D/TD/JTD, 2.4 JTD Engine (OHC)
 Engines JTD 16V - Set 904 015 00 previous page

Weight

0,35 kg



OEM: 1860905000, 2190754000

+ Art. 907 050 60

Flywheel holding tool.

**DIESEL 2.5 D/TD, 2.8D/JTD belt****Art. 907 180 00**

Models

FIAT: Cromo (93-97), Ducato (87-06)

Types
of engines

2.5 D - 8144.76
 2.5 TD - 8140.27, 8140.47R, 8144.21, 8144.97Y
 2.8D/TD - 8140.43, 8140.63
 2.8JTD - 8140.43S

Weight

0,30 kg

Also
for cars
CITROEN/PEUGEOT
LAND ROVER,
OPEL i ROVER

OEM: 1860617000, 1860638000, Mot1054

**DIESEL 1.6/2.0/2.2 JTD belt****Upgrade !****Art. 905 800 00**

Models

FIAT: Scudo (99-10), Ulysse (99-07), Ducato (01-06)
 LANCIA: Zeta (99-02), Phedra (02-07)

Also for cars

CITROEN/PEUGEOT i FORD

Types
of engines

1.6 JTD - DV6UTED4 (Fiat Scudo)
 2.0 JTD - DW10ATED (RHM/RHT/RHV/RHW/RHX/RHZ)
 2.2 JTD - DW12TED4 4HW



Weight

2,45 kg

OEM: 2000022500, 2000023000, 2000023100, 2000023200

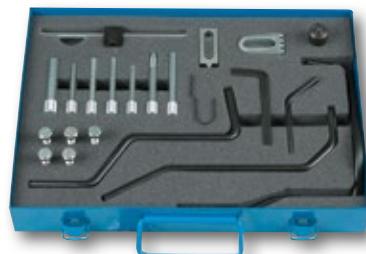
DIESEL 1.9 D/TD, 2.1 D/TD**Art. 905 700 00**

Models

Ducato 1.9D, Ulysse 2.1 TD
 Scudo 1.9D/TD

Types
of engines

XUD 9TF (98-)

**DIESEL 2.3JTD belt / 3.0 JTD chain****Art. 907 090 00**

Models

FIAT Ducato

2.3 JTD belt - F1AE0481C, F1AE0481D, F1AE0481N (02-14)
 3.0 JTD chain - F1CE0481D chain (2004-)

Weight

0,80 kg

Also for cars IVECO



OEM: 99360614, 99360615, 1860617000, 99360614

DIESEL 2.2 JTD**Upgrade !****Art. 907 220 00****Models
i Engine**FIAT Ducato (06-14)
2.2 JTD - 4HVAlso
for cars
CITROEN, PEUGEOT,
FORD**Weight**

0,70 kg

Upgrade ! - A crankshaft locking pin has been added 907 200 95

OEM: 2000016500, 2000018700, 2000017100, 0198-A

DIESEL JTD 2.2 / 3.0 chain, 2.3 belt**Art. 907 200 00****Description**

A set of locking and timing devices regulatory for cars FIAT 2.2 JTD, 3.0 JTD with timing chain and the 2.3 JTD with belt timing.

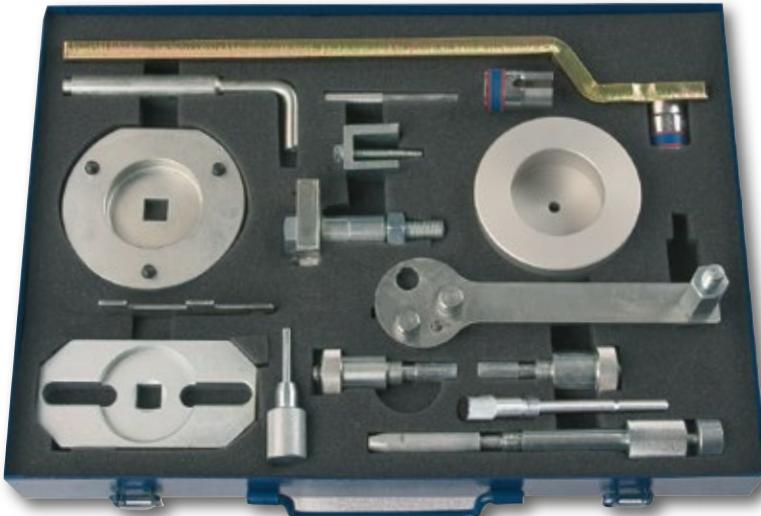
Also for cars IVECO

ModelsFiat Ducato 2.2, 2.3, 3.0 Diesel MultiJet
Fiat Ducato 2.3 Diesel MultiJet (HPI)
Fiat Ducato 3.0 Diesel MultiJet HPI (2004-)**Types
of engines**

| | | | | | | |
|------------------|-------------------------------------|-------------|------------|------------|------------|------------|
| 2.2 JTD | F1AE0481 (A, B, C, F, G, H, ID, IN) | OEM: | 99360614 | 99360615 | 1860617000 | 1860815000 |
| 2.3 JTD - | F1CE0481 (A, F) Engine HPI | 1860846000 | 2000016500 | 2000016700 | 2000016900 | 2000017000 |
| 3.0 JTD - | F1CE0481 (B, H) Engine HPT | 2000017100 | 2000017300 | 2000018400 | 2000018700 | 2000019200 |

Weight

5,30 kg



PETROL &

DIESEL

belt & chain

FORD MASTER

Art. 906 601 00

Models
and engines

Engine petrol:

FORD: Fiesta, Puma, Focus, Focus C-MAX, Escort, Orion, Mondeo, Cougar, Courier, Tourneo, Transit, Fusion, Connect;
1.25, 1.4, 1.6, 1.7, 1.8, 2.0 16V (91-14)

MAZDA: 121 1.25 (DHA) 16V

Engine Diesel's:

All Models (1983-2014) with engines

1.4, 1.6 TDCI (02-14)

1.8 D/TD (88-00), 1.8Di (98-04), 1.8TDCi (01-08)

2.0 Ddi, 2.0 TDDi, 2.0 TDCi, 2.2 TDCi (00-14)

2.0, 2.4TDDi/TDCi 16v Duratorq (00-14)

2.5 Di/Turbo/TCI (83 - 00)

MAZDA: 1.8 D (95-99)

CITROEN / PEUGEOT: 1.4, 1.6 HDI (02 - 14)

A detailed description of the use in descriptions of sets
on next pages.

Weight

2,50 kg

Also for cars

MAZDA, VOLVO, LAND ROVER



PETROL 1.0 ECO BOOST (Econetic/SCTi) - 3 cyl.

belt

Art. 906 540 00

Models

| | |
|-------------|-----------------------|
| Ford | EcoSport |
| Fiesta | Tourneo Connect |
| Focus | Grand Tourneo Connect |
| B-MAX | TransitConnect |
| C-MAX | Transit Courier |
| Grand C-MAX | (2011-2017) |

| | |
|------------|--|
| Types | 1.0 Eco Boost (Econetic/SCTi) |
| of engines | M1JA SFJA SFJB M1DA M2DA P4JA P4JB XMJA XMJB M1JE M2GA |

NEW



OEM: 303-732, 303-1054, 303-1602, 303-1603, 303-1604, 303-1605/1, 303-1605/2, 303-1606/1, 303-1606/2,

Weight

3,55 kg

PETROL 1.25 - 2.0 16V + 1.6 16V Ti-VCT belt / chain**Art. 906 330 00**

| | |
|---------------|--|
| Models | Fiesta, Fusion, Puma, Focus, Focus C-MAX, B-MAX, Escort, Orion, Mondeo, Cougar, Kuga, Galaxy, Courier, Tourneo, Transit, Connect; 1.25, 1.4, 1.6, 1.7, 1.8, 2.0 16v (91-14) również 1.6 Ti-VCT 16V (HXDA, HXJA, PNBA, RHBA) |
| Weight | Set not supports engines 2.0 EcoBoost (2010-2014) |

Also for cars
MAZDA i VOLVOOEM: 21-163, 21-210, 21-259,
303-507, 303-748, 303-1097**Weight** 0,60 kg**+ Art. 906 350 00**

Set to the dismantling of the pulley of crankshaft

FORD: Focus, Fiesta, Puma 1.25, 1.4, 1.6, 1.7 16v (95 - 98);**MAZDA:** 121 1.4, 1.6 16v.**Weight** 1,90 kg

OEM: 15-030A, 21-214, 21-215, 303-510, 303-511

+ Art. 906 310 00Flywheel holding tool
for petrol engines
in place of starter

OEM: 303-393-0-01

PETROL 1.25 - 2.0 16V + 1.6 16V Ti-VCT / Ecoboost 1.6SCTi

belt & chain

Art. 906 340 00

| | |
|---------------|---|
| Models | Fiesta, Fusion, Puma, Focus, Focus C-MAX, B-MAX, Escort, Orion, Mondeo, Cougar, Kuga, Galaxy, Courier, Tourneo, Transit, Connect; 1.25, 1.4, 1.6, 1.7, 1.8, 2.0 16v (91-14) 1.6 Ti-VCT 16V and EcoBoost 1.6 SCTi |
| Weight | Set not supports Of engines 2.0 EcoBoost (2010-2014) - See set 906 550 00 |

The numbers of the factory tools
FORD OEM: 303-1550
21-210/303-507
303-748/21-259
303-620/21-163
303-376/21-162(B)
303-1097

NEW

**Weight** 0,60 kg**PETROL 1.6 16V Ti-VCT belt****Art. 906 320 00**The device for wheel alignment camshaft in engines
with variables camshaft phasing

| | |
|-------------------------|---|
| Models | Fiesta, Focus, Focus C-Max, Mondeo (03-14) 1.6 16v Ti - VCT |
| Types of engines | HXDA, HXJA PNBA, RHBA |

OEM: 303-1097**Weight** 0,55 kg**PETROL 1.2 DURATEC belt****Art. 907 100 00**Ford KA (09-)
Engine 1.2 FP4 (169A4.000)
Also for cars: FIAT, LANCIA

| | |
|---------------|---|
| Models | Ford KA (09-) Engine 1.2 FP4 (169A4.000) |
| Weight | 1.35 kg |



PETROL 1.6 EcoBoost/SCTi The camshafts locking tool**Art. 906 122 00****NEW**

| | | |
|-------------------------|---|--|
| Models | FORD Fiesta (2013-) Fusion (2013-) Focus (2011-) Mondeo (2007-) | C-Max (2011-) Galaxy (2006-) Kuga (2013-) Transit Connect (2013-) Turneo Connect (2013-) |
| Types of engines | 1.6 EcoBoost (110kW/150KM) 1.6 EcoBoost (132kW/180KM) | |
| Weight | 0,3 kg | OEM: 303-1552 / RZ-1503 |

**PETROL 1.6 EcoBoost SCTi Tool for setting the crankshaft pulley****Art. 906 300 40**

| | | |
|-------------------------|---|--|
| Models | FORD Fiesta (2013-) Fusion (2013-) Focus (2010-2013) C-MAX (2011-) S-MAX (2010-) Galaxy (10-) Kuga (2013-) Turneo Connect(2013-) Grand Turneo Connect (2013-) Transit Connect (2014-) | Specification additional 906 300 00, 906 330 00 i 906 601 00 |
| Types of engines | 1.6 EcoBoost SCTi /GTDI | |
| | IQJA (105KM) JQDA , JQDB, JQGA, JQMA, JQMB (150 KM) JTWA, JTWB (160KM) JTDA, JTDB (182KM) | |

0,1 kg



OEM: 303-1550

PETROL 1.6 16V Ti-VCT / Ecoboost 1.6SCTi**belt****Art. 906 335 00****NEW**

| | |
|-------------------------|--|
| Models + engines | FORD - B-MAX, C-MAX, Focus, Galaxy, Mondeo, S-MAX 1.6 EcoBoost po (2010-2012) IQJA, JQDA, JQDB, JTDA, JTDB, JTWA, JTBA, JTBB |
| Weight | 0,45 kg |
| | OEM FORD/VOLVO: 303-1097 / 999-7429 303-1550 / 999-7431 303-748 / 999-7406 303-1054 |

**PETROL 2.0 SCTi Ecoboost /Ti-VCT Timing tool kit****chain****Art. 906 550 00****NEW****NEW****NEW**

| | |
|-------------------------|---|
| Models | Ford Focus (2011-) S-MAX (2010-) Mondeo (2010) |
| Types of engines | 2.0 SCTi Ecoboost TNBA / TNBB / TNWA / TNWB / TPWA / TPBA 2.0 TiVCT MGDA / XQDA |
| Weight | 1,5 kg |



PETROL 1.6 /2.0 Ford / VOLVO / Mazda Timing tool kit

belt / chain

Models
+ engines

FORD: Fiesta (2008-15), Focus (2004-15), B-MAX (2012-15), C-MAX (2003-15), Grand C-Max (2010-15), S-Max (2010-15), Galaxy (2010-15), Kuga (2013-15), Tourneo (Grand) Connect (2013-15), Transit Connect (2013-15)

Engines Ecobost 1.6: HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQJA, JQDA, JQDB, JQGA, JQMA, JQMB, JTDA, JTDB, JTJA, JTMA, JTWA, JTWB, MUDA, PNDA, RVJA, SIDA, U5JA, XTDA

Engines Ecobost 2.0: TNBA, TNBB, TNWA, TPBA, TPWA (from 2010 -)
XQDA, MGDA, R9DA (2011 -)

VOLVO: V40 (13-), V40 Cross Country, S60 (11-), S80 (07-), S80L, V60, V70 (08-), XC60, S60 (11-)

Engines: 1.6 B4164T, B4164T2, B4164T3, B4164T4 , B4164T
2.0 B4204T6, B4204T7, MMT6, MPS6

NEW

Mazda: Mazda 5 (CW) (2010-15), Mazda 6 (GH) (2010-13) **Engine:** MZR 2.0 (LF), LF(MZRDID)

**The numbers of the factory tools:**

Volvo: OEM: 999-7405, 999-7415, 999-7406, 999-7431, 999-7415, 999-7416, 303-1504

Ford: OEM: 303-1504, 303-1565, 303-1097, 303-748, 303-1550

Mazda: OEM: 303-1061, 303-507, 205-072

Weight

2,9 kg

PETROL 2.5 TURBO (EURO 4) belt

Art. 906 500 00

Timing tool kit and regulators for engines: Ford / Volvo 2.5 Turbo PETROL.

Models

FORD: Focus, Mondeo, S-Max 2.5 ST, Galaxy 2.5 ST (2005-)

Types
of engines

2.5 Turbo (EURO 4) - HUBA, HUWA, HYDA

Volvo S40, S60, S80, V50, V70, C70, XC70, XC90

Weight

3,70 kg

Also for cars
VOLVO

OEM: 303-1179, 303-1179, 303-1178,
303-1182, 303-1183



PETROL 1.8 SCI chain**Art. 906 450 00**

| | |
|-------------------------|---|
| Models | Mondeo 1.8 |
| Types of engines | 1.8 SCI Turbo CFBA |
| Weight | 0,30 kg |
| |  |

OEM: 303-507, 303-620, 303-1060, 303-1061
Also for cars MAZDA 2.3

PETROL 2.8 chain**Art. 911 014 00**

| | |
|-------------------------|----------------|
| Models | Galaxy (95-00) |
| Types of engines | 2.8 AAA, AMY |
| Weight | 0,55 kg |

Also for cars SEAT and VOLKSWAGEN
OEM: 21-203

DIESEL 1.3 TDCi 16V DURATORQ chain**Art. 904 019 00**

| | |
|-----------------------------|---|
| Models | KA (2009-2014) 1,3 TDCi - 169A1.000 (FD4) BAAA/B |
| Weight | 0,65 kg |
| Additional equipment | A set of additional tools for setting camshaft after removing the engine head and other major engine repairs. + Art. 904 019 50 |
| Weight | 1,70 kg |
| Additional equipment | + Art. 904 019 60 Key to the camshaft |

Also for cars FIAT, LANCIA OPEL and SUZUKI

OEM: 303-1469, 303-1468

NEW

OEM: 303-1475



OEM: 303-1472

DIESEL 1.8 D/TD/Di/TDCi & 2.5 Di/Turbo/TCI belt**Art. 906 100 00**

Models FORD: Fiesta, Courier, Escort, Orion, Sierra, Mondeo 1.8D/TD (88-00); Fiesta, Focus 1.8Di (98-04), 1.8TDCi (01-10); Transit, Tourneo 2.5Di/Turbo/TCI (83-00);
MAZDA: 1.8 D (95-99).

Types of engines BHDA/B, BHPA, C9DC, C9DA/B, FFBA, F9DA/B, HCPA, FFDA, HCPB, KHBA, P7PA, P9PA, QYBA, R2PA, R3PA, RWPA, RFK, RFN, RKD, RTJ, RTK, 4EB, 4EC, 4ED, 4FA, 4FB, 4FC, 4FD, 4GA, 4GB, 4GC, 4GD, 4GE, 4HB, 4HC

Weight 1,50 kg

| | | | | | | | |
|------------------------|-------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| OEM: 21-104 303-193 | 21-123 303-367 | 21-162(B) 303-376 | 21-168 303-393 | 21-229 303-651 | 23-018 310-018 | 23-020 310-019 | 23-029 310-033 |
|------------------------|-------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|



DIESEL TDCi 1.4 - 2.4 belt & chain**Art. 906 201 00**

| | |
|-------------------------|---|
| Models | Fiesta, Fusion, Focus, C-Max, Mondeo, Galaxy, Transit (00-14); 1.4 TDCi - F6JA, F6JB, F6JC, F6JD 1.6 TDCi - G8DA, G8DB, HHDA, HHDB, HHJA, HHJB, HHJD TZJA, T1BA, T1BB, T1BC, T1DA, T1DB, T3DA, T3DB, 2.0 TDi - ABFA, D3FA, F3FA 2.0 TDdi - D5BA, D6BA 2.0 TDCi - AZBA, AZBC, AZWA, AZWC, QXWA, FMBA, FMBB, FIFA, G6DA, G6DB, G6DC, HJBA, HJBB, HJBC, HJBE, KLBA, KLWA, LPBA, N7BA, N7BB, QXBA, QXBB, QXWB, SDBA, TXBA, TXDA, TXDB, TXWA, TYBA, TYDA, TYWA, UFBA, UKDB, UFDB, UKBA, 2.2 TDCi - QJBA, QJBB, QJBC, QJBD 2.4 Dti - D2FA, D2FB, D4FA, D6FA, F4FA 2.4 TDCi - FXFA, H9FA, H9FB, JXFA, PHFA |
| Types of engines | |
| Weight | 0,80 kg |

Also for cars CITROEN/PEUGEOT, LAND ROVER, MAZDA and VOLVO



OEM: 21-168 21-234 21-251 21-260 21-262
21-263 303-393-01 303-620 303-675 303-698
303-732 303-734 303-735 303-1054 303-1059

+ Art. 906 250 00**+ Art. 906 210 00**

Wrench to the timing belt

DIESEL 2.0 / 2.2 TDdi/TDCi chain

Wrench to the timing belt tensioner ancillary equipment

Art. 906 210 00**DIESEL 2.0 / 2.4 16v chain**

Set for dismantling and installation of injection pumps

Art. 906 250 00

| | |
|-------------------------|--|
| Models | FORD: Mondeo, Transit Diesel Duratorq 16V 2.0, 2.4 (01-14). FMBA/B, D5BA, ABFA, D3FA, F3FA, D2FA, D4FA, F4FA. |
| Types of engines | |

Weight

1,40 kg



OEM: 21-238, 21-240-(01), 303-679, 303-681

DIESEL 1.9 TDI PD belt (Galaxy)**Art. 904 010 34**

| | |
|-------------------------|----------------|
| Models | Galaxy (99-06) |
| Types of engines | ANU, ASZ, AUY |
| Weight | 0,65 kg |



Also for cars AUDI, VW, SEAT, SKODA i MITSUBISHI

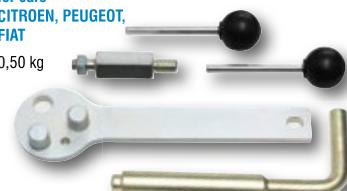
OEM: 23-058, 23-059, 310-084, 310-085

DIESEL 2.2 TDCi „Puma”**Upgrade !****Art. 907 220 00**

| | |
|---------------------------|---|
| Models and engines | FORD Transit (06-14) 2.2 TDCi - P8FA |
| Weight | 0,50 kg |

Weight

0,50 kg



OEM: 23-058, 23-059, 310-084, 310-085

Upgrade !
A crankshaft locking pin has been added 907 200 95

DIESEL 2.2 TDCi The injection pump wheel puller / crankshaft**Art. 906 140 00****Description**

The injection pump wheel puller / crankshaft
Cooperates with the locking of the injection pump (see below)HP 906 260 00.

Models + Types of engines

Ford Transit / Mazda / Rover:
All Models with engine 2.2 TDCi „PUMA“ (-2011)

Weight

0,45 kg

**OEM Ford:** 303-249 -1**Mazda:** 49UN30324901Also
for cars MAZDA, ROVER**DIESEL 2.0/2.2/2.4/3.2 Diesel Duratorq device / injection pump lock****Art. 906 260 00****Description**

Tool fastening the injection pump gear.
Allows disassembly of the injection pump while blocking the timing system.

Models

FORD Mondeo (2000-2007)
Transit (2000-)

Types of engines

Diesel engine „Puma“:
2.0 Duratorq D/ TDCi / TDCI/ TDDI/ TDD
2.2 Duratorq TDCi
2.4 Duratorq DI / TDCi / TDDi
3.2 Duratorq TDCi

Weight

0,1 kg

OEM Ford: 303-1151**DIESEL Duratorq Ford 2.0/2.2/2.4 Timing tool kit****Art. 906 150 00****Description**

Set contains: tbolt for blocking the flywheel - in place of the GMP sensor, the crankshaft wrench, the flywheel lock, the pins for locking the timing gears

Models

FORD Mondeo (2000-2007) Transit (2000-)

**Types of engines**

Engine Diesel'a „Puma“:
2.0 Duratorq D/ TDCi / TDCI/ TDDI/ TDD
2.2 Duratorq TDCi (CYFA, CYFB, DRFA, DRFB, P8FA, P8FB, PGFA, PGFB, QVFA, QWFA, SRFA, SRFB, SRFC, SRFD, SRFE, UHFA, CYFC, DRFC, USRA)
2.4 Duratorq DI / TDCi / TDDi
3.2 Duratorq TDCi

**Weight**

3,5 kg

DIESEL 2.0/2.2/2.4/3.2 Duratorq Key to the crankshaft**Art. 906 150 10**

| | |
|-----------------------------|---|
| Models | FORD Mondeo (2000-2007) Transit (2000-) |
| Types of engines | Engine Diesel „Puma“: 2.0 Duratorq DI/ TDCi / TDCi/ TDDi/ TDDI 2.2 Duratorq TDCi (CYFA, CYFB, DRFA, DRFB, P8FA, P8FB, PGFA, PGFB, QVFA, QVFB, SRFA, SRFB, SRFB, SRFc, SRFd, SRFE, UHFA, CYFC, DRFC, USRA) 2.4 Duratorq DI / TDCi / TDDi 3.2 Duratorq TDCi Petrol engine: 2.3 Duratec HE |
| Weight | 2,0 kg |

**NEW**

OEM: FORD 303-1310

DIESEL Duratorq Ford 2.0/2.2/2.4 Timing tool kit**Art. 907 230 00**

| | |
|--|---|
| Description | Timing lock basic kit - crankshaft lock, flywheel locking pin, locking pins for timing gears. |
| Models + Types of engines | Like Set 906 150 00 - see page 92 |
| Weight | 0,50 kg |

Also
for cars Citroen/Peugeot and FIAT**NEW**

OEM: 303-1587 / 21-251



OEM: 303-698 (PSA 0198A)

DIESEL & PETROL**Flywheel holding tool for petrol engines in place of starter****Art. 906 180 00**

| | |
|--------------------|--|
| Description | Universal lock for all FORD / Mazda models for blocking the flywheel during work related with timing replacement. Interchangeable teeth of different lengths they guarantee matching the lock to many Of engines models. |
| Models | FORD / Mazda - most models after 1988, Diesel and Petrol (without the latest 1.0/1.6 EcoBoost) |
| Weight | 0,4 kg |

OEM: 303-393-01

OEM: 303-393-02



OEM: 303-393 / 21-168

DIESEL 2.2 Ford/PSA/Land Rover Set of tools for balance shafts**Art. 906 190 00**

| | |
|-----------------------------|---|
| Description | A set of tools to adjust the balance shafts in Ford 2.2 DOHC engines, in which the procedure of replacement timing It requires the removal of balance shafts. |
| Models + Engines | FORD Galaxy, SMAX, Mondeo TDCi/Tci (08-15) Q4BA, Q4WA, KNBB, KNBA, KNWA |
| | Peugeot 406, 407, 508, 607, 807, 4007 (02-15) DW12.... |
| | Citroen C5/I/III, C6, C8, C-Crosser HDi/GT HDi (02-15) 4HX/4HN/4HW/4HP/4HK/4HR/4HT/4HZ/4HS |
| | Land Rover Discovery/Discover Sport/Freelander 2 (09-15) 224DT (eD4/SD4/TD4/TD4e) |
| | Mitsubishi Outlander DI-D/DC (07-13) 4HK/4HN |
| | Range Rover Evoque (11-15) 224DT (eD4/SD4) |

OEM: 303-1329

OEM: 303-1328

Also
for cars: Citroen/Peugeot, Land Rover/Range Rover, Mitsubishi

Weight 0,9 kg

PETROL &

DIESEL

Art. 904 051 00

Description Set to replace timing belts for engines with roller compensatory.

Models Cars with petrol engines:

Civic(91-95), Accord(92-03), Prelude(92-01),
Shuttle/Odyssey(95-01)

Cars with Diesel engines: Civic (97-00), Accord (96-03)

Types of engines Petrol engine:

1.6 B16A2
1.8 F18A3, F18B2, F18B4
2.0 F22Z, F22B2, F22B8, H22A2, H22A5, H22A7, H22A8
2.3 F23A7, F23Z5, H23A2, H23A3
3.0 J30A1

Diesel engine:

2.0 TDi
20T2N
20T2R

Weight 0,80 kg



OEM: 07LAG-PT20100, 07744-0010400, 14540-P13-003,
14540-P8A-A01, 18G 1523, 18G 1717, 18G 1719

Types of engines

Civic (01-06)
1.4(D1425, D1426)
1.6(D16V1, D17W7)
1.7(D17A2, D17A8, D17A9)

Accord (93-03)
1.8/2.0(F18A3, F20B3, F20Z1, F200Z2)
2.2/2.3(F22Z2, F22B5, F23Z5),
3.0

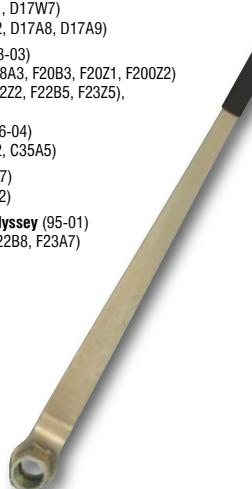
Legend (96-04)
3.5(C35A2, C35A5)

FRV (04-07)
1.7 (D17A2)

Shuttle/Odyssey (95-01)
2.2/2.3 (F22B8, F23A7)

Weight

3,30 kg



OEM: 07MAB-PY3010A, 07JAB-0010400

HYUNDAI / KIA Timing Tools

PETROL 16V 1.6 / 1.8 / 2.0 / 2.4 belt

Art. 904 045 00

Models Lantra (91-06)

Also for cars MITSUBISHI

Sonata (93-01)

Trajet (00-05)

Santa-Fe (01-06)

Types of engines G4-N G4CP G4-R
G4-P G4JS 4JP

Weight 0,20 kg



OEM: 09244-28000, 09244-28100, 09244-28101

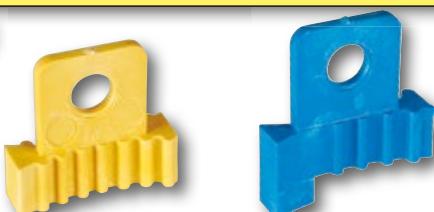
PETROL 2.0 16V belt

Art. 904 020 00

Models HYUNDAI: Sonata 2.0 16V (99 -)
Yellow: 904 020 10

HYUNDAI: Sonata 2.0 16V (- 99)
Blue: 904 020 11

Weight 50 g



PETROL**& DIESEL****Flywheel holding tool****Universal Hyundai & KIA****Description****Art. 904 045 20**

Universal Flywheel holding tool, having Application in most Hyundai and KIA cars, Engineami both petrol and Diesel with Engineami. The design of the device allows it to fit many models / in cars.

Weight

0,55 kg

NEW

OEM: 09321 - 2B100

**DIESEL 1.1 / 1.4 / 1.6 / 1.7 CRDi Set timing locks****Art. 904 045 30**

Lock, injection pump puller.

Models

Hyundai - Matrix, Accent/Excel, Getz, i10, i20, i20 Coupe, ix20, i30, ix35, i40, i20 Coupe, Elantra, Tucson (01-)

KIA - Carens, Cee'd, Optima, Picanto, Pro-Cee'd, Rio, Serato, Soul, Sportage, Venga (05-)

Types of engines

1.1 CRDi - D3FA, D3FA (U2), D3FF
1.4 CRDi - D4FC (U1), D4FC (U2)
1.5 CRDi - D3EA, D4FA-L, D4FA, D4FA-H
1.6 CRDi - D4FB-H (U1), D4FB (U1), D4FB-L (U1), D4FB (U2), D4FB-L (U2), D4FB-H (U2), D4FB
1.7 CRDi - D4FD (U2), D4FD-L (U2), D4FD-H (U2), D4FD

Weight

1,30 kg

NEW

OEM: 09331 - 2A000 / 2A010

DIESEL 2.0 / 2.2 CRDi Tooth wheel puller for injection pumps**Art. 904 045 40**

Tooth wheel puller for injection pumps

Models

Hyundai, KIA with engines: 2.0 CRDi i 2.2 CRDi

NEW

OEM: 09331 - 1M100

DIESEL 2.5 CRDi Tooth wheel puller for injection pumps**Art. 904 045 50**

OEM: 09331 - 4A000

Tooth wheel puller for injection pumps

Models

Hyundai, KIA with 2.5 CRDi engines

NEW**Weight**

1,15 kg

DIESEL 2.5 / 2.8 belt**Art. 907 180 00****Models and Engines**

IVECO Daily/Turbo Daily (87-06) **Also for cars CITROEN/PEUGEOT, FIAT, OPEL i RENAULT**

2.5D / 2.5DT - 8140.07 8140.27S 8140.47R 8140.97
8140.21 8140.47 8140.67F

2.8D / 2.8JTD - 8140.23 8140.43N 8140.63
8140.43B 8140.43R 8140.23.27
8140.43C 8140.43S 8140.43.37

Weight

0,30 kg



OEM: 1860617000

DIESEL JTD 2.2 / 3.0 chain, 2.3 belt**Art. 907 200 00****Description**

A set of camshaft locking tool and devices regulatory for cars IVECO 2.2, 3.0, with a timing chain and 2.3 JTD with camshaft stripe.

Models

IVECO 23/35/40 Daily 2.2JTD / 2.3 HPI
IVECO 35/40/45/50/ Daily 3.0 HPI

Also for cars FIAT**Types of engines**

2.2 JTD
2.3 JTD - F1AE0481 (A, B, C, F, G, H, ID, IN)
3.0 JTD - FICE0481 (A, F) Engine HPI
FICE0481 (B, H) Engine HPT

Weight

5,30 kg

| | | | | | | | |
|-----------|-----------|-----------|------------|------------|------------|-----------|-----------|
| OEM: | 99360614 | 99360615 | 1860815000 | 1860617000 | 1860846000 | 200016500 | 200016700 |
| 200016900 | 200017000 | 200017100 | 200017300 | 200018400 | 200018400 | 200018700 | 200019200 |

DIESEL JTD 2.3 belt / 3.0 chain**Art. 907 090 00****Models****Daily 2.3, 3.0 JTD (02-11)****Also for cars FIAT****Types of engines**

2.3 JTD - F1AE0481 (A, B, C, F, G, H, ID, IN)
3.0 JTD - FICE0481 (A, F) Engine HPI
FICE0481 (B, H) Engine HPT

Weight

0,80 kg



OEM: 99360614, 99360615

JAGUAR Timing Tools**DIESEL 2.0D / 2.2D chain****Art. 906 201 00****Models**

X-Type (2003-2010)

Also for cars

CITROEN/PEUGEOT, FORD, LAND ROVER, MAZDA and VOLVO

Types of engines

2.0D - FMBA, FMBB

2.2D - QJBA

0,80 kg

**+ Art. 906 250 00****DIESEL 2.7 TDV6 belt****Art. 904 010 70****Types of engines****Models**

S-Type (04-08) XJ6 (04-09) XF (07-09)

2.7V6 - 276DT/TG

Also for cars
LAND ROVER

OEM: 303-1116, 303-1117, 303-1126, 303-1132

PETROL 1.8 16V / 2.0 16V belt**Art. 904 010 60**

Models and Engines
Freelander (97-06)
Discovery (93-97)
1.8 16V - 18K16
2.0 16V - 20T4 (T16)

Also for cars
ROVER/MG PETROL and Diesel

Weight
1,0 kg

OEM: LRT-12-060, LRT-12-134, LRT-12-058, LRT-12-141, LRT-12-143

**DIESEL 2.5 Turbo chain****Art. 903 300 00**

Description
Kit includes the injection pump puller and the camshaft locking tool, pin to block flywheel, tensioners locking pins.

Also for cars
BMW i OPEL

Models
Range Rover 2.5 DT / SE

Types of engines
25 6T (94 - 02) (BMW: M51) **BMW MASTER art. 903 100 00**

Weight
1,10 kg



OEM: LRT-12-108, LRT-12-112, LRT-12-114, LRT-12-119

+ Art. 903 350 00

Timing chain tensioner

OEM: LRT-12-115

DIESEL 2.2 Td4 / 2.4 Td4 chain**Art. 906 201 00**

Models
Evoque (11-14), Freelander 2 (06-14),
Defender (06-11)

Types of engines
2.2 - Td4 /Td4e/eD4/SD4 - DW12B(C)TED4 belt
2.4 - Td4 / 244DT chain

also for cars:
CITROEN, PEUGEOT, FORD, JAGUAR, MAZDA i VOLVO

Weight
0,80 kg



+ Art. 906 250 00

**DIESEL 2.0 Td4 / 3.0 Td6 chain****Art. 903 200 00**

Description
Kit includes camshaft locking tool with handle, pin to block the flywheel and tensioners locking pins

Models + Types of engines
Freelander 2.0 Td4 (00 - 06) - 204D3/Td4 (BMW: M47)
Range Rover 3.0 Td6 (02-06) - 306D1/Td6 (BMW: M57)

Weight
1,15 kg



OEM: LRT-12-108, LRT-12-114

+ Art. 903 280 00

Puller the injection pump gear wheel

**DIESEL 2.0TDi / 2.5 Td5 / 2.7 TDV6****Art. 904 010 70**

Models + Types of engines
Freelander (97-00)
90/110/130/Defender (99-07)
2.5 Td5 - 10P, 15P chain
Discovery (98-05)
Sport/Discovery 3 (04-08)
Range Rover (05-08)

2.0 TDi - 20T2N, 20T2R belt
2.5 Td5 - 10P, 15P chain
2.5 Td5 - 10P, 15P chain
2.7 TDV6 - 276DT belt
2.7 TDV6 - 276DT belt

Also for cars
JAGUAR



OEM: 303-1132 303-1116 303-1117 303-1126
LRT-12-058 LRT-12-143 LRT-12-145 LRT-12-158

DIESEL 2.2 Set of tools for balance shafts**Art. 906 190 00****Description**

A set of tools to adjust the balance shafts in Ford 2.2 DOHC engines, in which the procedure of replacement timing.
It requires the removal of balance shafts.



OEM: 303-1330

NEW

Models + Engines

Land Rover Discovery/Discover Sport /Freelander 2 (09-15)
224DT (eD4/SD4/TD4/TD4e)
Peugeot 406, 407, 508, 607, 807, 4007 (02-15) DW12....
Citroen C5/III, C6, C8, C-Crosser HDi/GT HDi (02-15)
4HX/4HN/4HW/4HP/4HK/4HR/4HT/4HZ/4HS
FORD Galaxy, SMAX, Mondeo TDCi/TCi (08-15)
Q4BA, Q4WA, KNBB, KNBA, KNWA
Mitsubishi Outlander DI-D/DC (07-13) 4HK/4HN
Range Rover Evouqe (11-15) 224DT (eD4/SD4)

Weight

0,9 kg

Also for cars FORD, Land Rover, Rnge Rover, Mitsubishi

OEM: 303-1329

OEM: 303-1328 / 0190D

MAZDA Timing Tools**PETROL 1.25 - 2.3 16V belt/chain****Art. 906 300 00****Models**

| | | |
|-------------|------------|-----------------|
| 121 (95-00) | 5 (05-) | MPV (02-05) |
| 2 (02-07) | 6 (02-) | Tribute (01-04) |
| 3 (03-) | MX-5 (05-) | |

**Types of engines**

| | | | | | |
|-----------------|----------------|----------------|----------------|----------------|----------------|
| 1.25 16V | 1.4 16V | 1.6 16V | 1.8 16V | 2.0 16V | 2.3 16V |
| DHA | FXJA | FYJA | L8 | LF | L3 |
| FUJA | FXJB | | | YF | |
| FUJB | | | | | |



OEM: 49 JE01 061, 49 JE02 061

Weight

0,40 kg

Also for cars FORD; is up in FORD MASTER Art.: 906 601 00

+ Art. 906 350 00

Set to dismantle the crankshaft pulley.
MAZDA 121 1.25 16V (DHA)



OEM: 49 JE01 602, 49 JE01 062

PETROL 2.3 belt/chain**Art. 906 450 00**

NEW

Models

CX-7 (07-2013)

Types of engines

2.3 Turbo
L3 Turbo
(260 KM)

Weight

0,30 kg

Also for cars FORD;
Ford 1.8 SCi (Engine code CFBA)

OEM: 49JE01061, 49 UN30310610

PETROL 1.6 / 2.0 Timing tool kit

belt / chain

Models
+ Engines**Art. 909 200 00**

Mazda: Mazda 5 (CW) (2010-15), Mazda 6 (GH) (2010-13) Engine: MZR 2.0 (LF), LF(MZR DIDI)

VOLVO: V40 (13-), V40 Cross Country, S60 (11-), S80 (07-), S80L, V60, V70 (08-), XC60, S60 (11-)

Engine: 1.6 B4164T, B4164T2, B4164T3, B4164T4 , B4164T
2.0 B4204T6, B4204T7, MMT6, MPS6

NEW

FORD: Fiesta (2008-15), Focus (2004-15), B-MAX (2012-15), C-MAX (2003-15), Grand C-Max (2010-15), S-Max (2010-15), Galaxy (2010-15), Kuga (2013-15), Tourneo (Grand) Connect (2013-15), Transit Connect (2013-15)

Engine Ecobost 1.6: HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQJA, JQDA, JQDB, JQGA, JQMA, JQMB, JTDA, JTDB, JTJA, JTMA, JTWA, JTWB, MUDA, PNDA, RVJA, SIDA, U5JA, XTD

Engine Ecobost 2.0: TNBA, TNBB, TNWA, TPBA, TPWA (od 2010 r)
XQDA, MGDA, R9DA (od 2011-)

The numbers of the factory tools:

Mazda OEM: 303-1061, 303-507, 205-072

Volvo OEM: 999-7405, 999-7415, 999-7406, 999-7431, 999-7415, 999-7416, 303-1504

Ford OEM: 303-1504, 303-1565, 303-1097, 303-748, 303-1550

Weight 2,9 kg

DIESEL 1.4 / 1.6 belt**Art. 906 201 00**

Models

MAZDA: 2 (02-)
3 (04-)Types
of engines

FJ6A, F6JB, Y6

Weight

0,80 kg



OEM: 49 JE02 018, 49 JE02 020, 49 JE02 021

DIESEL 1.8 D belt**Art. 906 100 00**

Models

Mazda 1.8D (95-98)

Also for cars
FORD

PETROL MINI N12/N14

chain

Art. 905 450 00

Models

MINI
 Mini R56/R57 (07-10), One (07-10), Cooper (06-10), Cooper S(06-10),
 Corman R55 (07-14), Coupe R58 (11-14), Roadster R59 (12-14)

Types of engines

1.4 & 1.6 Valvetronic about code N12
 B14/B14AB/B16A

Serial numbers
 MINI tools:

OEM: 11 9 540

1.6 Direct Injection about code N14
 B16A/B16CD/B16CD/T0, B16CD/TD, B16TO

OEM: 11 9 550
 OEM: 11 9 590
 OEM: 11 9 790

Weight

2,45 kg

Also for cars
 Citroen, Peugeot

**+ Art. 903 468 00**

Additional equipment

A set of special tools for assembly and disassembly of the timing chains and related work are being replaced.

The numbers of the factory tools MINI:
 OEM: 11 4 360, 11 5 140, 11 9 330

**PETROL MINI N13 / N18**

chain

Art. 903 440 00

Models

MINI

Cooper S Hatchback R56 (2011-)
 Cooper S Corman R55 (2011-)
 Cooper S Convertible R57 (2011-)

OEM: 11 9 590

Types of engines

N13 / N18

NEW

OEM: 229 9362

OEM: 11 9 340

Weight

2,5 kg

Also for cars
 BMW



OEM: 11 7 440

OEM: 11 7 440

PETROL MINI N14

chain

Art. 903 430 00

Models

MINI

ONE (01-06)
 Cooper (01-06)
 Cooper S (02-06), Cooper SJ JC, Cooper S JCW
 (Series R50-52-53-55-56-57)

NEW

OEM: 11 8 240

OEM: 11 8 370

Types of engines

N14 W10B16AA, W10B16BA, W11B16AA

The numbers of the factory tools MINI / PSA:
 OEM: 11 8 240 (241;242) [PSA C786]
 OEM: 11 8 250
 OEM: 11 8 370 [PSA C795]
 OEM: 11 9 550 [PSA 0197-A2]
 OEM: 11 9 551 [PSA 0197-A1]
 OEM: 11 9 590 [PSA 0197-B]

OEM: 11 8 250

OEM: 11 9 590

Weight

3,5 kg

Also for cars
 Citroen/Peugeot

OEM: 11 9 551

OEM: 11 9 550



PETROL BMW&MINI 1.2/1.5/2.0/3.0 B38/B48/B58 + Diesel 1.5/2.0 B37/B47/B57**Art. 903 417 00****Description**

A set of timing tools for petrol 1.2, 1.5, 2.0, 3.0 and Diesel engines 1.5, 2.0.

Models + Types of engines

Petrol engines

BMW Series: 1, 2, 3, 4, i8 (i12), X1, 7 (G11/12)
 1.5 B38A15A, B38B15A, B38K15A
 2.0 B48A20A, B48A20B, B48B20A, B48B20B
 3.0 B58B30A

MINI Models: Hatch, Clubman, Convertible

1.2 B38A12A
 1.5 B38A15A
 2.0 B48A20A

Diesel engines

BMW Series: 1, 2, 3, 4, 5, X1, X3, X4, X5
 1.5 B37C15A, B37D15A,
 2.0 B47C20A, B47C20B, B47D20A, B47B20B
 3.0 B57D30A

MINI Models: Hatch, Clubman, Convertible

1.5 B37 C15A
 2.0 B47 C20A

Weight

7,2 kg

NEW

OEM: 11.6.48, 11.4.120, 11.8.740, 11.8.760, 11.9.340, 2.288.380, 2.357.904, 2.358.122, 2.365.488

Petrol BMW 1.5/2.0/3.0 & MINI 1.2/1.5/2.0 B38/B48/B58**Chain****Art. 903 415 00****Description**

A set of timing tools for petrol 1.2, 1.5, 2.0, 3.0 and Diesel engines 1.5, 2.0.

Models + Types of engines

Petrol engines

BMW Series: 1, 2, 3, 4, i8 (i12), X1, 7 (G11/12)
 1.5 B38A15A, B38B15A, B38K15A
 2.0 B48A20A, B48A20B, B48B20A, B48B20B
 3.0 B58B30A

MINI Models: Hatch, Clubman, Convertible

1.2 B38A12A
 1.5 B38A15A
 2.0 B48A20A

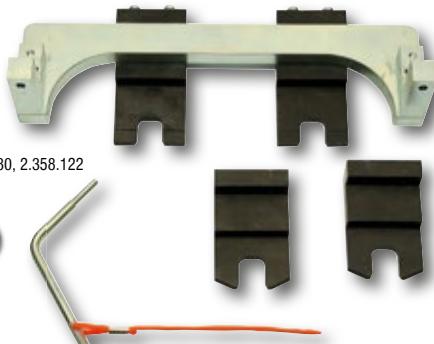
Weight

5,3 kg

For Cars with automatic transmission gearbox You need
 HP 903 415 00 (OEM: 2.365.488) - see below!

NEW

OEM: 2.288.380, 2.358.122

**BMW & MINI 1.5/2.0/3.0 Petrol & 1.2/1.5/2.0 Diesel****Chain****Art. 903 415 50****Description**

Special adapter for flying wheel locking pin for cars with automatic transmission gearbox.

Models + Types of engines

Petrol engines **BMW & MINI**
 1.5/2.0/3.0 B38/B48/B58

Diesel engines **BMW & MINI**
 1.5/2.0/3.0 B37/B47/B57

Weight

0,2 kg

NEW

OEM: 2.365.488



BMW & MINI Crankshaft Holding Tool for Petrol & Diesel

Chain

Art. 903 415 60

Description Crankshaft Holding Tool for Petrol&Diesel Engines (2014-)**Models**
+ Types
of engines

Petrol engines

BMW Series: 1, 2, 3, 4, i8 (i12), X1, 7 (G11/12) & Mini
1.2 B38A12A (only Mini)
1.5 B38A15A, B38B15A, B38K15A
2.0 B48A20A, B48A20B, B48B20A, B48B20B
3.0 B58

Diesel engines

BMW Series: 1, 2, 3, 4, X1, X2, X3, X4, X5 & Mini
1.5 B37D15A, B337C15A
2.0 B47D20A, B47D20B, B47C20A, B47C20B**Weight** 0,2 kg

NEW

BMW & MINI Balance Shaft Alignment Tool 1.2/1.5 Petrol & 1.5 Diesel

Chain

Art. 903 415 70

Description Balance Shaft Alignment Tool (2013-)**Models**
+ Types
of engines

Petrol engines

BMW Series: 1, 2, 3, 4, X1, i8 (i12)
1.5 B38A15A, B38B15A, B38K15A
MINI Hatch, Clubman, Convertible
1.2 B38A12A

Diesel engines

BMW Series: 1, 2, X1
1.5 B37D15A, B337C15A
MINI Hatch, Clubman, Convertible
1.5 B37C15A**Weight** 0,8 kg

NEW

BMW & MINI Balance Shaft Alignment Tool 2.0 Petrol (B48) & 2.0 Diesel (B47)

Chain

Art. 903 415 80

Description Balance shaft alignment tool
and balance shaft removal tool**Attention!**
Also for Diesel Engines N47
after 04.2013**Models**
+ Types
of engines

Petrol engines

BMW Series: 1, 2, 3, 4, X1, 7 (G11/12)
2.0 B48A20A, B48A20B, B48B20A, B48B20B
MINI Hatch, Clubman, Convertible

2.0 B48A20A

DIESEL ENGINES

BMW Series: 1, 2, 3, 4, 5, X1, X3, X4, X5
2.0 B47C20A, B47C20B, B47D20A, B47B20
MINI Hatch, Clubman, Convertible
2.0 B47C20A**Weight** 2,2 kg

OEM: 2.361.286



NEW

MINI & BMW 1.5/2.0/3.0 Diesel Engines B37 / B47 / B57

Application

Diesel engines

Art. 903 416 00

MINI Hatch, Clubman, Convertible

1.5 B37 C15A
2.0 B47 C20A

BMW Series: 1, 2, 3, 4, 5, X1, X3, X4, X5, 7

1.5 B37C15A, B37D15A,
2.0 B47C20A, B47C20B, B47D20A, B47B20B
3.0 B57D30A

NEW



Weight

0,3 kg

DIESEL 1.6 / 2.0d N47 Common Rail

chain

Art. 903 260 00

Description

Set contains blok A set of special tools for assembly and disassembly of the timing chains and related work are being replaced.

Models

MINI

Mini/One/Cooper D/Countryman/Corman/Paceman,
Corvan, Roadster

Types of engines

1.6 N47 C16K1, C16U1 (10-14)
2.0 N47 C20K1, C20U1 (11-14)Also for cars
BMW

Weight

0,95 kg



Additional equipment

+ Art. 903 285 00

The injection pump bushing
Retains the position of the gear wheel
when removing the pump for engines N47/N47S

OEM: 11 8 740

The numbers of the factory tools MINI:
OEM: 11 5 320, 11 6 480, 111 8 760

Puller injection pump MINI 1.6 / 2.0d N47

chain

Art. 903 287 00

Application

MINI

Engine with codes:
1.6 N47 C16K1, C16U1 (10-14)
2.0 N47 C20K1, C20U1 (11-14)Also for cars
BMW

OEM: 11 8 740

Weight

0,3 kg

DIESEL MINI 1.6

belt

Art. 905 460 00

Models

MINI: Cooper D (06-10), Corman (07-10)

Types of engines

1.6D - W16 D16 (9HZ)

The numbers of the factory tools MINI:

OEM: 00 2 271
OEM: 02.2.272
OEM: 11.0.300
OEM: 11.9.790

Weight

1,0 kg



PETROL 16V 1.8 - 3.5 belt**Art. 904 045 00**

| | |
|-------------------------|--|
| Models | Colt (89-95), Eclipse (93-00), Space Runner (99-04) Lancer (89-05), 3000GT (93-00), Challenger (98-00) Carisma (96-05), Space Star (99-06), Grandis (04-) Galant (93-03), Outlander (03-07), L200/Triton (97-06) Sigma (91-96), Space Wagon (92-05) Shogun/Pajero/Pinnin/Montenero (94-00) |
| Types of engines | 1.8 16V GDi 2.0 /16V/V6/GDi 2.4/GDi 2.5 V6 3.0 V6 3.5 / GDi V6 4G67 4G63 4G64 6G73 6G72 6G74 4G93 4G94 / 6A12 4G69 6A72 |
| Weight | 0,20 kg |

Also for cars HYUNDAI

**PETROL set. 7 pc belt****Art. 904 040 00**

| | |
|---------------|---|
| Models | Brażowy: 904 040 18 MITSUBISHI: Space Wagon (97-); Czarny: 904 040 19 + 904 040 20 MITSUBISHI: Carisma (96-); Space Star (97-); Galant 2.0 GTI (91-); Zielony: 904 040 21 + 904 040 22 MITSUBISHI: Galant 24V 2.5 (97-); Sigma 24v 3.0 (91-); Galant 4x4 (91-) Fioletowy: 904 040 23 + 904 040 24 MITSUBISHI: Pajero 3500 (98-) |
| Weight | 0,30 kg |

**DIESEL 1.9 DI-D belt****Art. 905 250 00**

| | |
|-------------------------|---------------------------------------|
| Models | Carisma (97-05) Space Star (00-06) |
| Types of engines | F9Q-1/2, F8Q |

Also for cars OPEL, RENAULT, NISSAN



| | |
|--------------------------|---------|
| Weight | 2,00 kg |
| + Art. 905 300 00 | |

Set for setting injection pump
Carisma (97-02) F8Q

OEM: MB996036, MB996037

**DIESEL 2.0 DI-D belt****Art. 904 010 34**

| | |
|-------------------------|--------------------------------------|
| Models | Grandis (05-09) Outlander (07-09) |
| Types of engines | BSY |
| Weight | 0,65 kg |

Also for cars AUDI, VW, SEAT, SKODA, FORD
includes a set of VW MASTER art. 911 990 00

| | |
|-----------------------------|--|
| Additional equipment | |
| + Art. 915 500 00 | |

OEM: MB995207, MB995209, MD998384

+ Art. 915 500 00Wrench to the tensioner
timing belt.

PETROL 1.6 16V**+ DIESEL 1.5 dCi****Art. 905 100 00**

Models
+Types
of engines

PETROL: Kubistar (03-09)
1.6 16V - K4M 752/753

DIESEL: Micra (03-10),
Note (06-13),
Kubistar (03-09)
Tiida (07-11)

1.5 dCi - K9K 260/270/272/274/276/702/704/710

Weight

1,00 kg

Additional equipment**Also for cars**
DACIA, OPEL and RENAULT**+ Art. 905 130 00**

Camshaft sprocket
locking device for 16V
engines.
Essential for removing
and installing gear
wheels for camshaft.



OEM: Mot1490-01

OEM: KV113B0130, KV113B0110
Mot1054, Mot1430, Mot1489, Mot1496**DIESEL Timing tool kit 1.6 dCi**

chain

Art. 905 270 00**Models**

Nissan: Qashqai/Qashqai + 2 (2011-)
X-Trail (2014-)

Mercedes: C-klasa C180 (2014-)
Opel: Vivaro-B 1.6CDTI (2014-)
Renault: All Models 1.6 dCi(2006-)

NEW

Types
of engines

1.6 dCi/CDTI

Renault / Nissan: R9M, R9M 402, R9M 404, R9M 408, R9M 409,
R9M 410, R9M 413, R9M 450, R9M 452

Mercedes: 626.951

Opel: LWU/R9M, LWX/R9M, LWY/R9M, LWZ/R9M,

OEM: Mot.1880
MB 626 589 00 15 00
Opel: EN-51241



OEM: Mot.1874
MB: 626 589 04 40 00
Opel: EN48332

Weight

0,8 kg

DIESEL 1.5 / 1.9 / 2.2 / 2.5 dCi belt**Art. 905 250 00****Models**

Micra (03-10)
Almera (02-06)
Cube (09-11)
Note (06-13)
Tiida (07-11)
Qashqai (07-14)

1.5 dCi - K9K 260/270/272/274/276/702/704/710
1.9 dCi - F9Q 760/762/772/774
2.2 dCi - G9T 722/750
2.5 dCi - G9U 632/650/720/724/726/750/754

Weight

Also for cars
OPEL and RENAULT



OEM: Mot1430, Mot1489, Mot1534, Mot1536, Mot1537, Mot1543

DIESEL 2.0 dCi chain**Art. 905 281 00****Models**

Qashqai (07-14), X-Trail (07-14), Primastar (06-14), NV 400 (11-14)

Types of engines2.0 dCi - M9R 630/780/782/784/786/788
2.3 dCi - M9T 630 - 698Also for cars
OPEL and RENAULT

OEM: Mot1766, Mot1769, Mot1770, Mot1773

Weight

2,40 kg

Models

Qashqai (07-14), X-Trail (07-14), Primastar (06-14), NV 400 (11-14)

Types of engines2.0 dCi - M9R 630/780/782/784/786/788
2.3 dCi - M9T 630 - 698**Basic set****Art. 905 280 00**Also for cars
OPEL and RENAULT

OEM: Mot1766, Mot1769

Weight

0,50 kg

DIESEL V6 3.0 dCi Timing tool kit**Art. 905 282 00****Models**Renault: Laguna III / Latitude (2009-)
Nissan: Pathfinder / Navara (2010-)
Infinity: M30 / FX / EX (2010-)

NEW

Types of engines

3.0 V6 dCi with 9X code

Weight

0,9 kg



OEM: Mot.1880

OEM: Mot.1874

PETROL &

DIESEL

OPEL MASTER

Art. 904 900 00

Models
+ Types
of engines

basic basic Petrol engines mounted on all models Opel:

1.0/1.2/1.4 16V timing chain (97-10)
1.4/1.6/1.8/2.0/2.2 16V timing belt (93-10)

Diesel engines mounted on all models Opel:

1.3 CDTi - Z13DT, Z13DTH
1.6 Diesel - (86-2000)
1.7 D/TD
1.9 CDTi - passenger cars (Z19DTH, Z19DT)
2.0 CDTi - timing belt
2.0/2.2 DTi - timing chain
2.5D - timing chain
2.8D - timing chainA detailed description of the use in descriptions of sets
on pages next.

Weight

5,0 kg



Numbers OEM: as in the sets detailed below

Kit 904 900 00 includes sets and utility numbers:

[Art. 904 008 00](#) [Art. 904 010 01](#) [Art. 904 010 02](#) [Art. 904 010 35](#) [Art. 904 011 00](#) [Art. 904 013 00](#) [Art. 904 015 00](#)
[Art. 904 018 00](#) [Art. 904 019 00](#) [Art. 907 180 00](#) [Art. 911 024 00](#) [Art. 911 026 00](#) [Art. 911 028 00](#)

PETROL 1.0/1.2/1.4 DOHC chain

Art. 904 010 35

Description

Kit includes the camshafts locking tool, the pin to block crank-shaft, device for positioning the camshaft detector and the pin to locking chain tensioner.



Models

Agila, Astra G/H, Combo, Corsa B/C/D, Meriva, Tigra
1.0 12V / 1.2 16V / 1.4 16V Twin Cam Ecotec (97-13)Types
of engines1.0 12V - X10XE, Z10XE, Z10XEP
1.2 16V - X12XE, Z12XE, Z12XEP
1.4 16V - Z14XEL, Z14XEPAlso
for cars:
SUZUKI

Weight

0,80 kg

OEM: KM-952, KM-953, KM-954, KM-955, KM-953-A, KM-955-1

PETROL 1.0 Camshaft locking chain

Art. 904 026 00

Description

Tool for setting the impulse wheel of the sensor
the camshaft position

Models

Opel
Corsa D (2009-2015)Types
of engines

1.0 A10XEP (65KM)

Supplement Set: 904 022 00 and 904 010 35

Weight

0,2 kg



OEM: EN-49978

PETROL 1.0 / 1.2 / 1.4 Opel / Chevrolet Timing tool kit

chain

Upgrade !**Art. 904 022 50****Models**

Adam, Ampera, Astra-J, Aveo, Corsa-D, Meriva-B, Mokka, Zafira-C Tourer (2009-) Chevrolet AVEO 1.2/1.4 (2011-)

Types of engines

1.0 A10XEP,
1.2 A12XEL(L2Q), A12XER(LDC), L2Q, LDC, LWD
1.4 A14NEL(LUH), A14NET(LUJ), A14XER(LDD), L2Z A14XFL(LUJ), A14XEL(LDD),

The numbers of the factory tools OPEL OEM:

| | |
|--------------|--------------|
| EN 49978 | EN 49977-100 |
| EN 49977-200 | KM-955-2 |
| KM-952 | 6628-A |

Weight

3,1kg

Upgrade ! Tool added HP 904 026 00 (OEM: EN 49978)**PETROL 1.6/1.8 16V (TURBO) belt****Art. 904 013 00****Description**

Kit includes the camshafts locking tool, flywheel locking tools, the pin fixing the timing belt tensioner.

Models

Corsa - D, Astra-G,-H, Meriva, Zafira-B, Vectra-C, Signum, Insignia (03-13)

Types of engines

1.6 Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER, A16XER/LDE
1.8 Z18R, Z18XER/2HO

Also for cars
ALFA ROMEO and FIAT

Weight

0,65 kg



OEM: KM-6333, KM-6340, KM-6625, KM-6628, KM-6349, KM-911

PETROL Interlocks the camshafts set 5 pcs**Art. 904 010 00****Models + Types of engines**

Yellow **Art. 904 010 01**
Astra-F+G+H, Meriva, Speedster, Zafira-A+B, Vectra-B+C, Signum, Omega-B, Sintra, Frontera-A+B (95 -)
1.8 16V - C18EL, X18E, X18E1, Y18EL, Z18E, Z18EL
2.0 16V - C20SEL, C20XE, X20EV, Z20LEH, Z20LEL, Z20LER, Z20LET
2.2 16V - X22SE, X22XE, Y22SE, Y22XE, Z22XE

Blue **Art. 904 010 02**
Combo, Corsa B+C, Tigris -B, Meriva, Astra F+G+H, Vectra -B+C (93 -)
1.4 16V - X14XE, Z14XE
1.6 16V - Z16SEJ, X16XE, X16EL, Y16XE, Z16XE, Z16YNG;

Green **Art. 904 010 03**
OPEL: Vectra, Omega; SAAB: 900, 9000;
2.5, 3.0 V6 (94 -) -> See set 904 016 00

Red **Art. 904 010 04**
OPEL: Vectra, Omega; SAAB: 900, 9000;
2.5, 3.0 V6 (94 -) -> See set 904 016 00

White **Art. 904 010 05**
Astra, Calibra, Omega 1.8, 2.0 16V (93-) with small wheels of the camshafts



OEM: KM-800-1, KM-800-2, KM-852, KM-853

+ Art. 904 012 00 *

Flywheel holding tool
* without OPEL V6 2.53.0

**+ Art. 904 011 00**

Flywheel holding tool
(automatic transmission)



OEM: KM-6130

+ Art. 904 008 00 *

Roll locking pin to
tensioning the timing belt.

PETROL 1.6 SIDI Engine timing tools kit

chain

Art. 904 080 00**Description** Engine timing tool with special crankshaft pulley holding tool.**Models**

| Models | Types Of engines | 1.6 SIDI / 1.6 SIDI Turbo EcoFlex |
|-------------------------|------------------|-----------------------------------|
| Opel from 2013 | LVP/A16XHT | |
| Astra-J | LWC/A16SHT | |
| Zafira-C Tourer | LVP/B16XHT | |
| Insignia | LWC/B16SHT | |
| Insignia Country Tourer | LWC/B16SHL | |
| Cascada | LWC/B16SHL | |

Weight

2,0 kg

NEW

OEM: EN-50513, EN-51147, EN-51148, EN-51153

PETROL 2.0 / 2.4 Opel / Chevrolet / SAAB Timing tool kit

chain

Art. 904 024 00**Models** Opel : Astra OPC, Insignia, Antara

SAAB: 9-5

Chevrolet: Captiva, HHR, Malibu

Types of engines2.0 A20NFT (LHU)
A20NHT (LTG)
A20NHT (LDK)2.4 A24XE
A24XF
LE5, LE9**Weight**

3,7 kg

NEW

OEM: EN-43652/J43653

OEM: EN-49212

OEM: EN-955-20/KM955-20

OEM: EN-955-10/KM955

OEM: EN-48953

PETROL 2.0/2.4 Ecotec The camshafts locking tool

chain

Art. 904 025 00**Description** The camshafts locking tool (OEM: EN 48593)

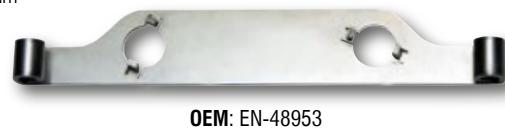
The device for timing control 904 023 00 (see below) supplements this instrument.

NEW**Models**

| Models | Types Of engines | 2.0 LHU/A20NFT |
|---------------------|------------------|---------------------------|
| Opel | | 2.0 E85 LHU/A20NFT |
| Astra J OPC (2012-) | | 2.0 SIDI Turbo LTG/A20NHT |
| Insignia (2008-) | | 2.0 Turbo LDK/A20NHT |
| Antara (2011-2012) | | 2.0 Turbo LHU/A20NFT |
| Chevrolet | | 2.4 A24XE (LE5) |
| Malibu (2012-) | | 2.4 LE5/LE9 |
| Captiva (2011-) | | 2.4 LE9 |
| HHR (2008-2009) | | 2.4 LE5 |

Weight

0,5 kg



OEM: EN-48953

PETROL 1.8/2.0 Device for the control of the timing phases**Art. 904 023 00****Models + Types of engines**Agila
Corsa
Insignia

1.8 A 18 XER (2HO)
2.0 A 20 NHT (LDK)**Weight**

0,85 kg



OEM: EN-49212

PETROL 2.0 Turbo

chain

Art. 904 009 00

Models
Camshaft timing locks
Vectra C (03-08), Signum (03-08)

Zafira B (05-10)

Types of engines
Z20NET

Weight 0,6 kg



OEM: KM-6362

PETROL 2.0 Turbo

chain

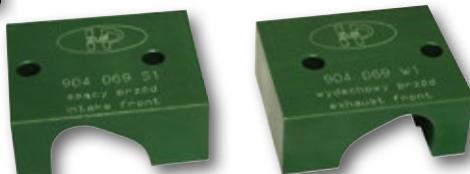
Art. 904 069 00

Models
Opel / SAAB (2007-)

Types of engines
2.0 T B207 E/L (150/170KM)

NEWAlso for cars
SAAB

Weight 0,6 kg



OEM: EN-48366

PETROL 2.0 Turbo

chain

Art. 904 089 00

Models
Opel / SAAB (2007-)

Types of engines
2.0 T B207 R (210KM)

NEWAlso for cars
SAAB

Weight 0,6 kg



OEM: EN-48368

Opel / SAAB Timing tool kit 2.0 Turbo (3 sets)

chain

Art. 904 090 00

Models
Opel Vectra C, Signum, Zafria B; (03-10)
SAAB (2007-)

OEM: KM-6362

EN-48366

EN-48368

Types of engines
2.0 T Z20 NET
2.0 T B207 E/L (150/170KM)
2.0 T B207 R (210KM)

Weight 1,8 kg

Contains Sets and tools:

Art. 904 009 00**Art. 904 069 00****Art. 904 089 00****NEW**

PETROL 2.0 16V belt**Art. 905 100 00****Models**Vivaro (01-)
F4R 720/722/820Also for cars
RENAULT and NISSAN

OEM: KM-6031, KM-6233

Weight

1,00 kg

Additional equipmentCamshaft sprocket locking device for 16V engines.
Essential for removing and installing gear wheels for camshaft.**+ Art. 905 130 00****+ Art. 904 012 00**

Flywheel holding tool

PETROL 2.8/3.0/3.2/3.6 V6 Timing tool kit

chain

Art. 904 061 00**Models**

Opel

Also for cars

SAAB, Chevrolet, Cadillac

Types of enginesEngine V6 2.8i/3.6i
A30XH, A30XF, Z32SE, A28NER,
A28NET, Z28NET, Z28NEL, B284E
B284L, B284R, LF1, LY7, LP1, LLT**NEW****Weight**

0,6 kg



OEM: EN-48383, EN-46111

DIESEL 1.3 CDTi chain**Art. 904 019 00**

Models Agila, Agila B, Corsa C/D, Combo C/D, Astra H/J, Tigra-B, Meriva A, Zafira B

1.3 CDTi (04-14)

Types of engines Z13DT, Z13DTH, Z13DTJ, Z13DTR, Z13DTE, Z13DTC, A13DTC, A13DTE, A13DTR, A13FD(LN9), Y13DT

Weight 0,65 kg **Also for cars**
FIAT, FORD, LANCIA and SUZUKI



OEM: EN-46781, EN-46785

Additional equipment**+ Art. 904 019 50**

A set of additional tools
for setting camshaft after
removing the engine head and other major engine repairs.

Weight 0,65 kg **Also for cars**
FIAT, FORD, LANCIA and SUZUKI



OEM: KM-662-C, EN 46785

DIESEL 1.3 CDTi Key to the camshaft**Art. 904 019 60**

Models + Types of engines OPEL 1.3 CDTi - all Models (2003-)
Fiat 1.3 JTD/MultiJet - all Models (2003-)
Citroen Nemo 1.3 HDi (FHZ-F13DTE5)
Peugeot Bipper 1.3 HDi (F13DTE5-FHZ)
FORD Ka 1.3 CDTi 169A1.000 (FD4) BAAA/B (09-14)

NEW

The serial numbers of the tool:

FIAT OEM: 1871008600

PSA OEM: 0104-B/0104B

FORD OEM: 303-1475



Specification additional to Set 904 019 00

Weight 0,2 kg**PETROL & DIESEL****Wrench to tensioning the belt timing****Art. 904 010 40**

Models OPEL: 1.2 - 1.6 SOHC.
Wrench water pump to tensioning the timing belt 41mm.



also for cars:

CHEVROLET and DAEWOO

Art. 904 010 46

Models OPEL: 1.8, 2.0 SOHC, 1.6D, 1.7D.
Wrench to the water pump to tensioning the timing belt 46 mm.



also for cars:

CHEVROLET and DAEWOO

OEM: KM-509A

DIESEL 1.6 D / 1.7 D / TD belt**Art. 911 028 00**

Models The dial gauge Holder
OPEL: Kadett, Astra, Vectra
1.6 D, 1.7 D / TD (86 - 00).



Weight 0,30 kg **OEM:** KM-661-1

Models Flywheel holding tool
OPEL: Astra 1.7 D (- 98).

**Art. 911 024 00**

Weight 0,10 kg **OEM:** KM-851

Models Pin to locking flywheel
OPEL: Astra 1.7 D (98 -).

**Art. 911 026 00**

Weight 0,15 kg **OEM:** KM-951

DIESEL 1.6 CDTi Timing tool kit

chain

Models Opel : Astra-J, Meriva-B, Mokka, Zafira C-Tourer (2013-)

Art. 904 028 00

chain

Types of engines 1.6 CDTi ecoFLEX
B16ADTH (LVL)
B16DTL (LVM)
B16DTN (LVL)
B16DTC (LVM)
B16DTE (LWQ)
B16 (LVL)
B16DTJ (LVL)

Weight 1,1 kg

OEM: EN-51140

NEW

OEM: EN-5118

OEM: EN-955-10/KM955

OEM: EN-6349

OEM: EN-6130/6349
EN-50513**DIESEL 1.6 CDTI Timing tool kit**

chain

Models Opel: Vivaro-B 1.6CDTI (2014-)
Renault: all Models 1.6 dCi(2006-)
Nissan: Qashqai/Qashqai+2 (2011-), X-Trail (2014-)
Mercedes: C-klasa C180 (2014-)

Art. 905 270 00OEM: Opel: EN-51241, Mot.1880
MB 626 589 00 15 00

Types of engines 1.6 CDTI / dCi
Opel: LWW/R9M, LWX/R9M, LWY/R9M, LWZ/R9M
Renault / Nissan: R9M, R9M 402, R9M 404, R9M 408, R9M 409,
R9M 410, R9M 413, R9M 450, R9M 452
Mercedes: 626.951

Weight 0,8 kg**NEW**OEM: Opel: EN48332, Mot.1874
MB: 626 589 04 40 00**Also for cars Renault/Nissan/Mercedes****DIESEL 1.9 / 2.0 CDTI belt****Art. 904 015 00**

Models Astra-H, Vectra-C, Signum, Zafira-B, Insignia (04-14)
Types of engines 1.9 CDTI - Z19DT, Z19DTH, Z19DTJ, Z19DTL
2.0 CDTI - A20DT (LBS/LBX/LBY/LCD)

Weight 0,80 kgalso for cars:
ALFA ROMEO,
FIAT and LANCIA

OEM: EN-46788, EN-46789

DIESEL 2.0 D belt**Art. 904 021 00**

Models Antara (06-)
Types of engines 2.0 D - Z20DM, Z20DMH

Also for cars
CHEVROLET**Weight** 1,15 kg

OEM: EN-48245, EN-48246

DIESEL 1.9/2.0 CDTi The injection pump wheel puller**Art. 904 015 60**

Models Astra-H / J, Vectra-C, Signum, Zafira-B, Insignia (04-14)

Types of engines 1.9 CDTI - Z19DT, Z19DTH, Z19DTJ, Z19DTL
2.0 CDTI - A20DTC, A20DTH, A20DTJ, A20DTR

Weight 0,2 kg
Specification additional to Set 904 015 00

OEM: EN-46790

NEW

DIESEL 2.0/2.3 CDTi chain**Art. 905 281 00**

| | |
|-------------------------|--|
| Models | Vivaro (07-14), Movano B (10-14) |
| Types of engines | 2.0 CDTi - M9R 630 do 788 2.3 CDTi - M9T 670 do 698 |
| Weight | 2,40 kg |



OEM: EN-48330, EN-48331, EN-48332, EN-48334

DIESEL 2.0 / 2.2 DTI chain**Art. 904 018 00**

| | |
|-------------------------|--|
| Models | Astra-G, Zafira-A, Vectra-B+C, Omega, Signum, Sintra, Frontera-B 2.0/2.2 D DTI (98-06) |
| Types of engines | 2.0 DTI - X20DTH, X20DTL, Y20DTH, Y20DTL 2.2 DTI - X22DTH, Y22DTH, Y22DTR |
| Weight | 2,10 kg |

Also for cars SAAB



OEM: KM-927, KM-929, KM-932, KM-933

DIESEL 2.5 TDS chain**Art. 903 300 00**

| | |
|-------------------------|------------------------|
| Models | Omega B 2.5 TD (94-01) |
| Types of engines | 25DT / X25DT; |
| Weight | 1,10 kg |

Also for cars BMW i LAND ROVER



OEM: KM-811, KM-813, KM-823, KM-825

DIESEL 3.0 CDTI belt**Art. 904 070 00**

| | |
|-------------------------|----------------------------|
| Models | Vectra C, Insignia, Signum |
| Types of engines | 3.0 CDTI - Y30DT, Z30DT |
| Weight | 0,30 kg |

Device for blocking the crankshaft pulley.
Necessary when unscrewing the pulley.
It prevents breaking the wedge on the pulley.

DIESEL 1.9 Di/DTi/CDTi, 2.2 DTi, 2.5 DTi/CDTi belt**Art. 905 250 00**

| | |
|-------------------------|--|
| Models | Movano 1.9 CDTi, 2.2/2.5 DTi (00-10), Vivaro 1.9/2.5 DTi (01-10) |
| Types of engines | 1.9 CDTI - F9Q 724/760/762/772/774 |
| Weight | 2,00 kg |
| | Also for cars OPEL i NISSAN |



OEM: KM-6031, KM-6203, KM-6204, KM-6205, KM-6233

DIESEL 2.5 DTI chain**Art. 903 200 00**

| | |
|-------------------------|-----------------|
| Models | Omega-B (01-03) |
| Types of engines | Y25DT |
| Weight | 1,15 kg |

also for cars :
BMW and
LAND ROVER

OEM: KM-813, KM-823, KM-6267

+ Art. 903 280 00

Puller the injection pump gear wheel

OEM: KM-6270

**DIESEL 2.5D / 2.8D TURBO belt****Art. 907 180 00**

| | |
|-------------------------|------------------------------|
| Models | Arena(97-01) / Movano(98-03) |
| Types of engines | 2.5D - S8U 770/772 |
| Weight | 0,30 kg |
| | OEM: KM-6031 |

also for cars:CITROEN/PEUGEOT, FIAT, IVECO and RENAULT



OEM: EN-46646

PETROL &

DIESEL 1.5dCi

RENAULT MULTI-SET

Art. 905 000 00

Models Twingo, Clio/Sport, Kangoo, Megane, Modus/Grand Modus, Scenic/Grand Scenic, Laguna, Espace

Types of engines 1.2, 1.4, 1.6, 1.8, 2.0, 2.0Turbo 16v (1998 - 2014);
2.0 16V IDE, 1.5 dCi;

1.2 16V - D4F 702 - 772
1.2t 16V - D4Ft 780 - 786
1.4 16V - K4J 700 - 780
1.6 16V - K4M 690 - 866
1.8 16V - F4P 720 - 771
2.0 16V - F4R 700 - 832
2.0t 16V - F4Rt 720 - 897

F5R 700 - 711
K9K;

Weight 4,35 kg

A detailed description of the use in the descriptions sets on pages next

Includes kits and tools:

Art. 905 100 00

Art. 905 110 00

Art. 905 120 00

Art. 905 130 00

Art. 905 140 00

Art. 905 150 00



Numbers OEM: as in the sets detailed below

PETROL 16v

DIESEL 1.5 dCi

Art. 905 100 00

Models RENAULT: Twingo, Clio / Sport, Modus/Grand Modus, Kangoo, Megane/Megane II, Scenic/Scenic II / Grand Scenic II, Laguna/ Laguna II, Espace

1.2, 1.4, 1.6, 1.8, 2.0, 2.0Turbo 16v (98 - 14); 1.5 dCi;

DACIA/Nissan: All Models with Engine 1.5 dCi

1.2 16V - D4F 702 - 772
1.2t 16V - D4Ft 780 - 786
1.4 16V - K4J 700 - 780
1.6 16V - K4M 690 - 866
1.8 16V - F4P 720 - 771
2.0 16V - F4R 700 - 832
2.0t 16V - F4Rt 720 - 897

K9K;

Weight 1,00 kg



OEM: Mot861, Mot1054, Mot1430, Mot1489, Mot1496, Mot1750

Additional equipment

+ Art. 905 150 00

Flywheel holding tool
for engines code F8Q and F9Q



See the tools on the right page:

Art. 905 120 00

Art. 905 130 00

Art. 905 140 00

PETROL 1.4 / 1.6 16V belt

Art. 905 120 00

Models Wrench to tighten guide roll the timing belt
Clio III, Modus, Megane/Scenic I&II, Kangoo (01-14)

1.4 16V - K4J 730/732/740/770/780

1.6 16V - K4M 708/716/730/732/750/752/753/760/761/764/766

782/790/791/792/794/800/801/802/804/812/813

Weight 0,3 kg



OEM: Mot1386

PETROL 1.6 16V belt

Art. 905 130 00

Camshaft sprocket locking device for
Essential for removing and installing gear wheels for camshaft

Models Clio III, Modus,
Megane/Scenic I&II,
Kangoo (01-14)

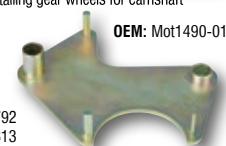
1.6 16V - K4M 708/716

730/732/750/752/753/760/

761/764/766/782/790/791/792

794/800/801/802/804/812/813

Weight 0,85 kg



OEM: Mot1490-01

PETROL 1.8 / 2.0 16V belt

Art. 905 140 00

Device for locking the belt pulleys camshafts
Clio II, Megane/Scenic, Megane II, Scenic II, Laguna, Laguna II, Espace (98-)

Models 1.8 16V - F4P 720/722/760

2.0 16V - F4R 700/701/712

713/714/715/720/722/730

732/740/741/744/746/770

771/776/780/784/786/787

790/791/792/794/795/796

797/820/830

Types of engines 2.0 16V - F4Rt 776

Weight 1,00 kg



OEM: Mot1509, Mot1509-01, Mot1801

PETROL 2.0 IDE 16V belt**Art. 905 110 00****Models** Megane / Laguna II 2.0 IDE (95-05)**Types of engines** 2.0 16V - F5R 700/701/740**Weight** 0,70 kg

OEM: Mot1526, Mot861, Mot1054, Mot1430,

PETROL 2.0 16V / 2.5 20V belt**Art. 905 200 00****Models** Laguna, Safrane 2.0 16V, 2.5 20V (96-01)**Types of engines** 2.0 16V - N7Q 704/710/711
2.5 20V - N7U 700/701**Weight** 1,70 kgAlso for cars:
VOLVO

OEM: Mot1337, Mot1340, Mot1348

PETROL &**DIESEL****Art. 905 150 00****Models** RENAULT: Clio, Kangoo, Megane, Twingo, Scenic, Laguna, Express, Expert 1.2, 1.6, 1.9 D / TD**Types of engines** D7F, K7M, K4J, K4M, F4P, F4R, F8Q, F9Q**Weight** 40 g

OEM: Mot582-01

Models**Types of engines****Weight****RENAULT:** Laguna, Safrane, Espace 2.2 TD.

G8T.

50 g

Art. 905 170 00

OEM: Mot1316

Models**Types of engines****Weight****RENAULT:** Megane, Scenic, Laguna, Espace, Express, Extra, R5, R9, R11, R19, R21, Clio 1.7 - 2.2, 1.8 - 2.1 D.**F3P F3R, E7J, J7R, F7P, F7R, F8M, F8Q.**

0,18 kg

Art. 905 190 00

OEM: Mot582

DIESEL 1.6 dCi

chain

| | |
|-------------------------|---|
| Models | Renault: all Models 1.6 dCi(2006-) Nissan: Qashqai/Qashqai+2 (2011-) X-Trail (2014-) |
| Types of engines | 1.6 dCi/CDTI Renault / Nissan: R9M, R9M 402, R9M 404, R9M 408, R9M 409, R9M 410, R9M 413, R9M 450, R9M 452 Mercedes: 626.951 Opel: Vivaro-B 1.6CDTI (2014-) |
| Weight | 0,8 kg |

Art. 905 270 00**NEW**

OEM: Mot.1970
MB 626 589 00 15 00
Opel: EN-51241



OEM: Mot.1969
MB: 626 589 04 00
Opel: EN48332

Also for cars Mercedes ! - C180 (2014-)**DIESEL 1.5 / 1.9 / 2.2 / 2.5 dCi belt****Art. 905 250 00**

| | |
|-------------------------|---|
| Models | Clio II&III, Modus, Megane(II), Scenic (II), Laguna (II), Espace, Kangoo, Trafic II, Master II (99-) DACIA: All Models 1.5 dCi |
| Types of engines | 1.5 dCi - K9K 608 - 846 1.9 dCi - F9Q 650 - 872 2.2 dCi - G9T 600 - 750 2.5 dCi - G9U 630 - 754 |
| Weight | 2,00 kg |

Also for cars NISSAN i OPEL

OE#:
Mot861 Mot1054 Mot1430 Mot1489
Mot1534 Mot1536 Mot1537 Mot1538
Mot1543 Mot1705

**DIESEL 2.0 dCi chain****Art. 905 281 00**

A complete set of tools to replace the timing chain in the 2.0 dCi engines. In addition to the locking tool of the crankshaft and camshaft located the wrench to the crankshaft and a special device for setting the self-regulatory camshaft wheel with double gear post.

| | |
|-------------------------|--|
| Models | Megane II, Scenic/Grand/Scenic, Laguna II+III, Latitude, Vel Satis, Espace, Koleos, Trafic II, Master III (05-14) |
| Types of engines | 2.0 dCi - M9R 700/721/722/724/740/742/746/760/761/780/802 803/805/830/832/833/845/849 2.3 dCi - M9T 670 do 698 |
| Weight | 2,40 kg |

Also for cars NISSAN i OPEL**DIESEL 2.0 dCi chain****Set basic****Art. 905 280 00**

| | |
|-------------------------|--|
| Models | Megane II, Scenic/Grand/Scenic, Laguna II+III, Latitude, Vel Satis, Espace, Koleos, Trafic II, Master III (05-14) |
| Types of engines | 2.0 dCi - M9R 700/721/722/724/740/742/746/760/761/780/802 803/805/830/832/833/845/849 2.3 dCi - M9T 670 do 698 |
| Weight | 0,50 kg |

**OEM:** Mot1766, Mot1769

DIESEL 2.5D/Turbo 2.8D/dTi/dCi belt**Art. 907 180 00**

| | |
|-------------------------|--|
| Models | Trafic (88-00), Master (80-08), Mascot (98-07) |
| Types of engines | 2.5 D - S8U 720/722/730/731/742/748/750/752/770/772/780/782 2.5 D Turbo - S9U 700/702/704/714/740 2.8 dTi - S9W 700/702 2.8 dCi - S9W 206/208/212 |
| Weight | 0,30 kg |

Also for cars:
CITROEN/PEUGEOT, FIAT, IVECO i OPEL



OEM: Mot861, Mot1054, Mot863

DIESEL 3.0 dCi V6 Timing tool kit

chain

Art. 905 282 00

| | |
|-------------------------|--|
| Models | Renault: Laguna III / Latitude (2009-) Nissan: Pathfinder / Navara (2010-) Infinity: M30 / FX / EX (2010-) |
| Types of engines | 3.0 V6 dCi about cod V9X |
| Weight | 0,9 kg |

Also for cars:
NISSAN, INFINITY

NEW

OEM: Mot1880

OEM: Mot1970

PETROL &**DIESEL****ROVER + MG belt****Art. 904 010 60****Models
and Engines**

DIESEL 1.9 D / TD
 Cars with petrol engines:
 ROVER: 200(-99), 400(-99), 600 (-90), 800 (-99), 25 (99-05),
 45 (99-05), 75 (99-05), Streetwise (03-06)
 MG: ZR (01-05), ZS (01-05), ZT/ZT-T(03-05), MGF(95-05), MGTF (0205)
 Land Rover: Freelander 1.8 16V
 Types of petrol engines:
 1.4 16V (K16) ,
 1.6 16V (16K16, D16A8, D16A9)
 1.8 16V (18K16, MPI VVC, F18A3),
 2.0 (F2021, F20Z2, 20HDM8, H23A3)
 Cars with Diesel engines:
 ROVER: Metro 114D, Metro 1.5D (-95), 218 D (91-95), 418 D (94-97),
 220 D, 420D, 620D (95-99) 25, 45 (99-05), Streetwise (03-06),
 Montego 2.0 D/DT
 MG: ZR, ZS (01-05), Express (03-05)
 Types of Diesel engines:
 1.4D (K9A TUD3), 1.5D (TUD5 V7J/VJY/VJZ), 1.8D (XUD7TE9A),
 1.9D (XUD9A/D9B), 2.0 (20TZN, 20TZR, 20T), MDI 2.0 D/TD

Weight

1,0 kg



| OEM: | 18G-1522 | 18G-1549 | 18G-1570 | 18G-1580 |
|------|----------|----------|----------|----------|
| | 18G-1632 | 18G-1671 | 18G-1717 | 18G-1719 |
| | 4507-TA | 4507-TJ | | |

PETROL 2.0 / 2.5 V6 ROVER + MG belt**Art. 904 010 80****Models**

ROVER: 45 (99-05)
 75 (99-05)
 825 (96-99)
MG: ZR (04-05)
 ZS (01-05)
 ZT/ZT-T (01-05)

**Types
of engines**

2.0 & 2.5 - KV6

Weight

3,0 kg

OEM:
 18G-1522 18G-1549 18G-1570 18G-1580
 18G-1632 18G-1671 18G-1717 18G-1719
 4507-TA 4507-TJ

**DIESEL 2.0 d chain****Art. 903 200 00****Description**

Kit includes camshaft locking tool with handle, pin to block the flywheel and tensioners locking pins.

Models

ROVER: 75 2.0 D;
MG: ZT (01-05)
LAND ROVER: Freelander TD 4 2.0 D (00 - 04).

**Types
of engines**

ROVER/MG: M47R
LAND ROVER: TDH.

Also for cars
BMW, LAND ROVER i OPEL

Weight

1,15 kg

Additional equipment**+ Art. 903 280 00**

Puller the injection pump
 gear wheel



| | | | | |
|------|------------|------------|------------|--------|
| OEM: | 11-171 | 11-172 | 12-173 | 12-174 |
| | LRT-12-172 | LRT-12-173 | LRT-12-174 | |

PETROL 1.8 16V belt**Art. 904 010 01**

| | | |
|----------------------|---|---|
| Models | SAAB: 93 (03-) | Also for cars OPEL |
| Types of engines | Z18XE | |
| Weight | | + Art. 904 008 00 |
| Additional equipment |  | Roll locking pin to tensioning the timing belt. OEM: KM-6130 |



OEM: KM-853

**+ Art. 904 012 00**Flywheel holding tool.
OEM: KM-911**Opel / Chevrolet / SAAB Timing tool kit 2.0 / 2.4**

chain

Art. 904 024 00

| | | |
|------------------|--|--|
| Models | Opel: Astra OPC, Insignia, Antara SAAB: 9-5 Chevrolet: Captiva, HHR, Malibu | OEM: EN-43652/J43653 |
| Types of engines | 2.0 A20NFT (LHU) A20NHT (LTG) A20NHT (LDK) 2.4 A24XE A24XF LE5, LE9 |  OEM: EN-45027 |
| Weight | 3,7 kg |  OEM: EN-48585 |
| | | OEM: EN-48953 |

NEW

DIESEL 1.9 TiD belt**Art. 904 015 00**

| | | |
|------------------|------------------------------|---|
| Models | SAAB: 93 (98-04), 95 (02-06) | Also for cars ALFA ROMEO, FIAT, OPEL |
| Types of engines | Z19DT, Z19DTH | |
| Weight | 0,80 kg |  OEM: 32 025 008, 32 025 009, 87 92 335 |

DIESEL 2.2 TiD chain**Art. 904 018 00**

| | | |
|------------------|---------------------------------------|---|
| Models | SAAB: 93 (98-04) / 95 (02-06) 2.2 TiD | also for cars: OPEL |
| Types of engines | D223L | |
| Weight | 2,10 kg |  OEM: 83 95 337, 83 95 352, 83 95 386, 83 95 394 |

PETROL 2.0 TURBO**Art. 904 009 00**

| | |
|-------------------------|---|
| Models | Camshaft timing locks Vectra C (03-08), Signum (03-08) Zafira B (05-10) |
| Types of engines | Z20NET |
| Weight | 0,6 kg |

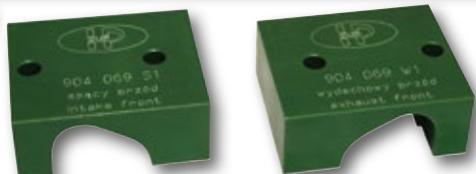


OEM: KM-6362

chain

PETROL 2.0 TURBO**Art. 904 069 00**

| | |
|-------------------------|----------------------------|
| Models | Opel / SAAB (2007-) |
| Types of engines | 2.0 T B207 E/L (150/170KM) |
| Weight | 0,6 kg |

Also for cars
SAAB

OEM: EN-48366

chain

PETROL 2.0 TURBO**Art. 904 089 00**

| | |
|-------------------------|----------------------|
| Models | Opel / SAAB (2007-) |
| Types of engines | 2.0 T B207 R (210KM) |
| Weight | 0,6 kg |

Also for cars
SAAB

OEM: EN-48368

chain

PETROL 2.0 Turbo Timing tool kit 2.0 Turbo (3 SET)**Art. 904 090 00**

| | |
|-------------------------|---|
| Models | SAAB (2007-) Opel Vectra C, Signum, Zafira B; (03-10) |
| Types of engines | 2.0 T Z20 NET 2.0 T B207 E/L (150/170KM) 2.0 T B207 R (210KM) |
| Weight | 0,6 kg |

OEM: KM-6362

EN-48366

EN-48368



Contains Sets and tools:

Art. 904 009 00**Art. 904 069 00****Art. 904 089 00**

chain

PETROL 2.8/3.0/3.2/3.6 V6 Timing tool kit**Art. 904 061 00**

| | |
|-------------------------|--|
| Models | SAAB - Opel |
| Types of engines | Engine V6 2.8i/3.6i Opel, Chevrolet, Cadillac |
| Weight | 0,6 kg |

Also for cars

SAAB

OEM: EN-48383, EN-46111



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PETROL 1.0/1.2 TWIN CAMS chain**Art. 904 010 35**

Description Kit includes the camshafts locking tools, the pin to block crank-shaft, device for positioning the camshaft detector and the pin to locking chain tensioner.

Models SUZUKI: Wagon R+ (05-08) Also for cars OPEL

Types of engines Z10XEP, Z12XEP

Weight 0,80 kg



OEM: 09912-38310 09919-08310
09919-58310 09919-58320

DIESEL 2.0D Turbo belt**Upgrade !****Art. 905 800 00**

Models SUZUKI: Grand Vitara (00-06)

Types of engines RHW, RHZ Also for cars CITROEN/PEUGEOT, FIAT, FORD and LANCIA

Weight 2,45 kg



OEM:
09910-26530 09910-26540 09919-56550
09944-36011 OUT0000141 OUT0000151
OUT0000160

DIESEL 1.3 DDiS chain**Art. 904 019 00**

Models SUZUKI: Swift (04-), Ignis (03-), Wagon R+ (03-08)

Z13DT, Z13DTH.

Also for cars
OPEL, FIAT and FORD

Weight 0,65 kg



OEM: 09912-38300, 09912-46310, 09917-68610

+ Art. 904 019 50
A set of additional tools for setting camshaft after removing the engine head and other major engine repairs.



Weight
Additional equipment

1,70 kg

+ Art. 904 019 60

Key to the camshaft
Description - see next page



NEW

OEM: 303-1475

DIESEL 1.9 D belt**Art. 905 250 00**

Models SUZUKI: Grand Vitara (05-09)

K9K, F9Q, G9T, G9, G9U.

Also for cars
OPEL, RENAULT, NISSAN, DACIA

Weight 2,00 kg



OEM: 09912-46510, 09919-76530

PETROL &

DIESEL

VW / AUDI / SEAT / SKODA

MASTER

Art. 911 990 00

Models

VW, Audi, Seat, Skoda: All Models

Ford Galaxy 1.9 TDI / 1.9 TDI PD

Petrol engines:

1.2 6V, 1.2 12V

1.4/1.6 16V

1.4/1.6 FSI (belt)

Engine Diesel'a:

1.2 TDI PD

1.4 TDI PD

1.7 SDI

1.9 D/TD/SDI/TDI/TDI PD

2.0 TDI PD + Common Rail

2.5 V6 TDI / 3.3 V8 TDI (97-06)

A detailed description of the use in the descriptions sets on pages next.

Includes sets and tools:

Art. 911 023 00

Art. 904 010 34

Art. 911 021 00

Art. 911 022 00

Art. 911 400 00

Art. 911 500 00

Art. 915 500 00

Types of engines

Weight 4,50 kg Numbers OEM: as in the Sets listed above



PETROL FSI / TFSI / TSI

VW / AUDI / SEAT / SKODA 1.2/1.4/1.6/1.8/2.0/2.4/3.2/4.2/5.2

MASTER FSI

Upgrade !

Art. 911 980 00

Models

VW, Audi, Seat, Skoda - all Models

Types of engines

Engine petrol:
 1.2 TSI - CBZA, CBZA (to older engines required 911 500 00)
 1.4 FSI / TFSI belt / chain - all Types
 1.6 FSI / TFSI belt / chain - all Types
 1.8 TSI / TFSI - all Types
 2.0 FSI / TFSI - all Types
 2.4 V6 - BDW
 3.2 V6 FSI - AUK, BGP, BGQ, BKH, BPK
 4.2 V8 FSI - BAR, BVJ, BNS, BYH, CAUA (+ pin 911 023 20)
 5.2 V10 FSI - BXA, BSM (+ pin 911 023 20)

Detailed description of the application in the Description Descriptions on the following pages of ecatalog

Set contains the key for the crankshaft, and chain wrench for engines 1.8 / 2.0 TSI / TFSI.

Numbers OEM: as in the sets detailed below

Includes sets and tools:

Art. 907 020 00

Art. 911 021 00

Art. 911 006 00

Art. 911 021 50

Art. 911 007 00

Art. 911 025 00

Art. 911 008 00

Art. 911 027 00

Art. 911 010 00

Art. 911 530 00

Weight

Numbers OEM: as in the sets listed above

6,50 kg

+ Art. 911 780 00

Wrench to the crankshaft do of engines 1.4/1.6 FSI



+ Ring for remove screw
vibration damper and mounting
lower chain guard.

OEM: T10368

+ Timing Chain
Tensioner
OEM: T10368

+ Art. 911 006 10

Camschaft Spacer tool
1.8 / 2.0 TFSI

OEM: T30004, VAG3415

OEM VW/AUDI: T40191 (SKODA OEM: T30050)

PETROL 1.0 + 1.2 / 1.4 TSI Timing tool kit**Art. 911 550 00****Models**

VW UP (2011 -) 1.0 Bluemotion Techn./Ecofuel
 Skoda Citigo (2011-) 1.0 Ecofuel, 1.0 GreenTech
 Seat Mii (2012 -) 1.0 Ecofuel, 1.0 Ecomotive
 Audi A3 (2013-), VW Golf VII (2012-), Jetta (12-)
 Skoda Octavia (2013-), Seat Leon (2013-)

Types of engines

1.0 TSI: CHYA (44 kW), CHYB (55 kW), CPGA (50 kW)
 1.2 TFSI CJZA (105KM), CJZB (86KM)
 1.4 TFSI CMBA, CXSA (122KM), CHPA (140KM)
 1.4 TGI CPWA (110KM)
 1.4 TSI Multi Fuel CPVA (122KM)
 1.4 Hybrid CRJA (150KM)
 1.6 TFSI CWNA (81 kW) i CWNB (VW Golf SW)

Weight

1,6 kg

**NEW**

OEM: T10476, T10499, T10340, T10477, T10494, T10487

PETROL 1.0 TSI/ Bluemotion Timing lock**Art. 911 540 20****Models**

VW UP (2011 -) 1.0 Bluemotion Techn./Ecofuel
 Skoda Citigo (2011-) 1.0 Ecofuel, 1.0 GreenTech
 Seat Mii (2012 -) 1.0 Ecofuel, 1.0 Ecomotive

Types of engines

1.0 CHYA (44 kW), 1.0 CHYB (55 kW), 1.0 CPGA (50 kW)
 1.6 TFSI CWNA (81 kW) i CWNB (VW Gol SW)

Weight

0,1 kg

**NEW**

OEM: T10476

PETROL 1.0 TSI/ Bluemotion Timing tool kit**Art. 911 540 00****Models**

VW UP (2011 -) 1.0 Bluemotion Techn./Ecofuel
 Skoda Citigo (2011-) 1.0 Ecofuel, 1.0 GreenTech
 Seat Mii (2012 -) 1.0 Ecofuel, 1.0 Ecomotive

Types of engines

1.0 CHYA (44 kW), 1.0 CHYB (55 kW), 1.0 CPGA (50 kW)
 1.6 TFSI CWNA (81 kW) i CWNB (VW Gol SW)

Weight

1,2 kg

**NEW**

OEM: T10476, T10340, T10477

PETROL 1.0 TSI/ Bluemotion Camshaft Sprocket Locking Tool**Art. 911 541 00****Models**

VW UP (2011 -) 1.0 Bluemotion Techn./Ecofuel
 Skoda Citigo (2011-) 1.0 Ecofuel, 1.0 GreenTech
 Seat Mii (2012 -) 1.0 Ecofuel, 1.0 Ecomotive

Types of engines

1.0 CHYA (44 kW), 1.0 CHYB (55 kW), 1.0 CPGA (50 kW)
 1.6 TFSI CWNA (81 kW) i CWNB (VW Gol SW)

Weight

1,2 kg

**NEW**

OEM: T10476, T10499, T10340, T10477

PETROL 1.2/1.4 TSI Timing tool kit with tensioner wrench

belt

| | |
|------------------|---|
| Models | Audi A3 (2013-) VW Golf VII (2012-), Jetta (12-) Skoda Octavia (2013-) Seat Leon (2013-) |
| Types of engines | Engine: 3 i 4 cyl. with timing belt 1.2 TFSI CJZA (105KM), CJZB (86KM) 1.4 TFSI CMBA, CXSA (122KM), CHPA (140KM) 1.4 TGI CPWA (110KM) 1.4 TSI Multi Fuel CPVA (122KM) 1.4 Hybrid CRJA (150KM) |
| Weight | 0,8 kg |

Art. 911 520 00



OEM: T10494, T10499, T10340

NEW

PETROL 1.2/1.4 TSI Camshaft Locking Tool

belt

| | |
|------------------|---|
| Models | Audi A3 (2013-) VW Golf VII (2012-) Skoda Octavia (2013-) Seat Leon (2013-) |
| Types of engines | 4 Cyl. with timing belt 1.2 TFSI CJZA (105KM), CJZB (86KM) 1.4 TFSI CMBA, CXSA (122KM), CHPA (140KM) 1.4 TGI CPWA (110KM) 1.4 TSI Multi Fuel CPVA (122KM) 1.4 Hybrid CRJA (150KM) |
| Weight | 0,3 kg |

Art. 911 510 00



OEM: T10494

NEW

PETROL 1.2/1.4 TSI/TFSI (2013) Camshaft Drive Belt Tension Wrench

| | |
|------------------|--|
| Models | VW/Audi/Seat/Skoda (2013-) |
| Types of engines | 3 & 4 cyl. Engin with belt Camshaft Drive Belt Tension Wrench |
| Weight | 0,2 kg |

Art. 911 505 00



OEM: T10499

NEW

PETROL 1.4 TSI Slacken/tighten poly V belt Tool (2013 -)

| | |
|------------------|----------------------------|
| Models | VW/Audi/Seat/Skoda (2013-) |
| Types of engines | 4cyl Engine with belt |
| Weight | 0,3 kg |

Art. 911 511 00



OEM: T10447

NEW

PETROL 1.0 / 1.2 / 1.4 NEW Special Crankshaft Pulley Wrench

| | |
|------------------|---|
| Models | VW/Audi/Seat/Skoda (2013-) |
| Types of engines | 1,0 MPI 1,0 MPI (GNC) 1,0 TSI 3 Cyl. 1,2 TSI 1,4 TFSI 1,4 TDI 3 Cyl. |
| Weight | 2,4 kg |

Art. 911 560 00



OEM: T10475

NEW

PETROL 1.4 Turbo (TSI/TFSI) Timing tool kit

belt

Art. 911 515 00

| | |
|-------------------------|---|
| Models | VW Polo, Golf VII, Passat Audi A1/Sportback, A3 CABrio/Sedan/Sportback Seat Ibiza |
| Types of engines | 4 cyl Engine with belt TSI/TFSI CPTA, CZE A (2012-) |
| Weight | 0,2 kg |

NEW

OEM: T10340, T10504 (T10504/1, T10504/2)

PETROL FSI / TFSI / TSI**VW / AUDI / SEAT / SKODA****1.2 / 1.4 / 1.6 FSI****Art. 911 970 00**

| | |
|-----------------------|--|
| Models | VW, Audi, Seat, Skoda - all Models with Engines FSI/TFSI/TSI 1.2/1.4/1.6 |
| Engine petrol: | |
| | 1.2 TSI - CBZA, CBZA (for older engines 911 500 00 see below) 1.4 FSI / TFSI belt / chain - all models 1.6 FSI / TFSI belt / chain - all models |

| | |
|---------------|---------|
| Weight | 2,00 kg |
|---------------|---------|

Contains Sets and tools:

Art. 907 020 00**Art. 911 025 00****Art. 911 021 00****Art. 911 530 00****Art. 911 021 50**

OEM: T10016, T10074, T10110, T10170, T10340, T10414, T10171 A, T10171, T10340, T10341, T40011

PETROL VW, Audi, Seat, Skoda Variator Wrench**NEW****Art. 911 021 60**

| | |
|----------------------------------|---------------------------------|
| Description | Variator dismantle wrench. |
| Models + Types of engines | VW/Audi/SEAT/Skoda - all Models |
| Weight | 0,35 kg |

PETROL VW Golf VII 1.2/1.4 TSI Flywheel locking tool**NEW****Art. 911 555 00**

| | |
|----------------------------------|--|
| Description | Flywheel lock before rotating during de / assembling the flywheel and clutch |
| Models + Types of engines | VW Golf 7 - 1.2 / 1.4 TSI and other models |
| Weight | 0,25 kg |

PETROL 1.2 6v/12v chain**Art. 911 500 00****Description**

Set includes Interlocks the camshafts for engines 12V (2 pc); for engines 6V (1 pc) and the locking pin crankshaft.

Models

VW: Polo, Fox **SEAT:** Ibiza, Cordoba **SKODA:** Fabia, Fabia II (HTP)

6V : AWY, BBM, BMD (02-10)

12V : AZQ, BME, BXV, BZG (02-10)

Types of engines

Weight 0,70 kg



OEM: T10120, T10121, T10123

PETROL 1.2 TSI chain**Art. 911 530 00****Models**

Camschaft and Crankshaft lockig tool
VW: Polo, Golf, Golf+, Bettle, Jetta, Touran, Caddy/Maxi (09-14)
AUDI: A1, A3/Cabrio (10-14)

SEAT: Ibiza, Altea, Leon, Toledo (10-14)

SKODA: Fabia II, Rapid, Roomster/Praktik, Yeti (10-14)

1.2 TFSI CBZA (86KM), CBZB (105KM) and CBZC (90KM)

Types of engines

1.6 (CFNA, 105KM)
mounted in Skoda Fabia II

**Weight**

0,50 kg

OEM: T10340, T10414

PETROL 1.4/1.6 16V Wrench to the crankshaft**Art. 911 780 00****Models**

VW: Lupo, Polo, Polo Classic, Golf, Golf Plus, Bettle, Bora, Caddy
AUDI: A2

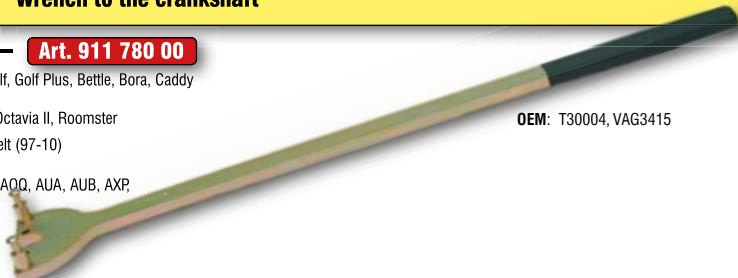
SKODA: Fabia, Fabia II, Octavia, Octavia II, Roomster

Engine **1.4 16V, 1.6 16V (FSI)** belt (97-10)

Types of engines
AAR, AFK, AHW, AJV, AKQ, APE, AQQ, AUA, AUB, AXP, BAD, BBY, BBZ, BCA

Weight

2,00 kg



OEM: T30004, VAG3415

PETROL 1.4/1.6 16v , 1.4/1.6 FSI (belt)**Art. 911 021 00****Models**

VW: Lupo, Polo, Polo Clasic, Beetle, Golf, Bora, Caddy (97-11)
AUDI: A2 (00-06)

SEAT: Arosa, Ibiza, Cordoba, Toledo, Leon, Inca (99-09)

SKODA: Fabia, Fabia II, Octavia, Octavia II, Roomster (99-09)

1.4 16V - AFK, AHW, AKQ, APE, AQQ,

AUA, AUB, AXO, AXP, BBY, BBZ, BCA,

BKY, BUD, BXW

1.4 FSI - ARR

1.6 16V- AJV, ARC, ATN,

AUS, AVY, AZD, BCB

1.6 FSI - BAD

Types of engines**Weight**

0,50 kg



OEM: T10016, T10074

Additional equipment: _____**Timing tool kit 1.6 FSI****+ Art. 911 021 50**

Tool for setting the roller suction valves in engines

1.6 FSI with a timing belt

Application:

1.6 FSI [BAD]

belt

Complementary tool kit
HP 911 021 00



0,50 kg

OEM: T10110

+ Art. 911 780 00

Wrench to the crankshaft



OEM: T30004, VAG3415

PETROL 1.4TSI/TFSI+1.4/1.6FSI chain**Art. 911 025 00****Models**

VOLKSWAGEN: Polo, Golf, Golf Plus, Jetta, Eos, Scirocco, Tiguan, Touran, Passat, Sharan (02-14)
AUDI: A1, A3 (03-14)
SEAT: Ibiza, Leon, Altea/XL, Toledo (07-14)
SKODA: Fabia II, Rapid, Octavia II/III, Roomster, Yeti, Superb II (04-14)

Types of engines

1.4 FSI - AXU, BKG, BLN
 1.4 TSI/TFSI - BLG, BMY, BWK, CAVA, CAVB, CAVC, CAVD, CAVF, CAXA, CAXC, CDGA, CHPA, CHYA, CKMA, CMBA, CMSB, CPTA, CTJB, CTJC, CTHA, CTHE, CTHF, CTHP
 1.6 FSI - BAG, BLF, BLP, BTS

Weight

0,90 kg



OEM: T10171, T10340, T10341, T40011

+ Art. 907 020 00

Tool for setting the GMP.



OEM: T10170

Dial indicator
0-5mm
Graduation 0.01 mm

+ Art. 911 090 00**PETROL 1.2 TSI / 1.4 TFSI Timing Chain Test Tool****Art. 911 025 50****Description**

Set of special tools for measuring timing chain wear.



NEW

Models + Types of engines

Type/Model: Various VOLKSWAGEN Group models
 Engine/Assembly group: 4-cyl. injection engine
 (1.2 l engine, direct injection, turbocharger)
 4-cyl. injection engine
 (1.4 l engine, direct injection, turbocharger)
 For example:
 Audi A4 (2008-), Q5 (2009-)
 Golf 2009 >
 4-cyl. injection engine

Weight

1,7 kg

OEM VW/AUDI: T10550 = T10550/1 + T10550/2 + T10550/3 + T10550/4

PETROL 1.8 / 2.0 TFSI/TSI Vibration Damper Holding Tool

chain

Art. 911 008 60**Description**

This is an essential item required to maintain the engine timing when removing the front vibration damper



NEW

Models Types of engines

VW/Audi/SEAT/Skoda - all Models
 1.8: BZB, CDAA, BPU, BYT, CABA, CABB, CDHA, CDHB, CABD, DAJB, CUSA, CJSB, CJEB, CJEE, CJED, CYGA, CDAC, CJSC, CGYA, DAJA
 2.0: CAWB, CCZA, CBFA, CCTA, CDNB, CDNC, CDND, CJXA, CJXE, CJXH, CHHB, CHHA, CULA, CFKA, DEDA, CHJA, CAWA, CCZC, CCZD, CPSA, CJKA, CJKB, CESB, CETA, CPFA, CNCD, CPLA, CYRB, CYRC, CNCE, CYNB, CYPA, CULB, CULC, CNCB, CWZA, CJXF, CJXC, CJXB, CJXG, CHHC, CCZB

Weight

2,0 kg

OEM VW/AUDI: T10531

PETROL 1.8/2.0 FSI/ TFSI Set of specialch tools for timing change

| | | | |
|----------------------------------|---|-------------------------------------|--|
| Models | In Set, the key to the crankshaft and caps for adjusting the rollers Timing. | OEM: T10351 T10352/1 T10352/2 | |
| Types of engines | 1.8 TSI/FSI/TFSI 2.0 TSI/FSI/TFSI | OEM: T10355 | |
| Weight | 2,00 kg | OEM: T40011 | |
| | Upgrade ! | Art. 911 008 00 | OEM: T10368 + Locking the timing chain tensioner |
| | | + Art. 911 007 00 | OEM: T10368 + Ring for remove screw vibration damper and mounting lower chain guard |
| | | = Art. 911 006 00 | |
| Models + Types of engines | Includes a chain tensioning key, timing gears and bolts. | | |
| Weight | VW 1.8 TSI (08-14) CDAA, CDAB AUDI 2.0 TFSI (11-14) CAEB, CJEB, CNCD | OEM: T40196 | |
| Additional equipment | + Art. 907 020 00 Tool for setting the GMP | OEM: T40271 | |
| | | OEM: T40243 | |
| | | | + Art. 911 090 00 |

PETROL 1.8/2.0 TFSI Camschaft Spacer tool

| | | |
|----------------------------------|--|-------|
| Description | Art. 911 006 10 | chain |
| Models + Types of engines | PETROL 1.8/2.0 TFSI Camschaft Spacer tool chain Used for location of sliding pieces on camshaft. | |
| Weight | Audi A4 (2008-), Q5 (2009-) and others from the group VW/AUDI 4 cylinders TFSI Engines Used for location of sliding pieces on camshaft. | |
| | 0,1 kg | |

OEM VW/AUDI: T40191 (SKODA OEM: T30050)

PETROL 1.8/2.0 TFSI Camshaft Adjustment Control Valve Removal Tool

| | |
|----------------------------------|--|
| Description | Art. 911 008 20 |
| Models + Types of engines | Camshaft Adjustment Control Valve Removal Tool (3 pcs) All Models VA/Audi/Seat/Skoda 1.8 TSI/FSI/TFSI 2.0 TSI/FSI/TFSI |
| Weight | 0,1 kg |

OEM: T10351
T10352/1
T10352/2

PETROL 1.8 / 2.0 TFSI**Camshaft sprocket locking tool**

chain

Description

Inlet end Exhaust sprocket camshaft

Art. 911 008 40**Models + Types of engines**VW/Audi/SEAT/Skoda - all Models
Engine 1.8/2.0 TFSI III generation (2008-)**NEW**

OEM VW/AUDI: T20208

Weight

0,4 kg

PETROL 2.0 FSI / TFSI chain in the engine head**Art. 911 027 00****Models**

VOLKSWAGEN: Golf, Golf Plus, Jetta, Eos, Scirocco, Tiguan, Touran, Passat (03-11)

AUDI: A3, A3, S3, A5, A6, TT (03-11)

SEAT: Ibiza, Leon, Altea/XL, Exeo (04-11)

SKODA: Fabia II, Octavia II, Roomster, Superb II (04-11)

Types of engines

2.0 FSI - AWA, AXW, BHD, BLR, BLX, BLY, BMB, BVX, BVY, BVZ

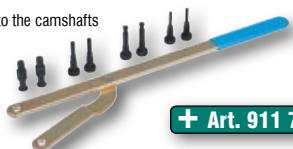
2.0 TFSI - AXX, BGB, BHZ, BPG, BPJ, BPY, BUL, BWA, BWE, BWJ, BWT, BYD, BYK, BZC, CDLA, CDLB, CDLC, CDLD, CDMA

Weight

1,45 kg

Additional equipment

Key to the camshafts

**+ Art. 911 760 00**

OEM: T10252, T10020, T10115, T10092, 3366, T40011, T10060/A

PETROL 1.8/1.8T belt

Holder to chain tensioner of camshaft in engine head

Art. 911 029 00**Models**

AUDI: A3, A4, A6, TT, S3; SEAT: Ibiza, Cordoba, Leon, Toledo, Alhambra; SKODA: Octavia, Superb; VOLKSWAGEN: Beetle, Golf, Bora, Passat, Sharan (98-09)

Types of engines

AHA, AMB, AMU, APB, ART, ATC, ATQ, AWM, AWN, AWP, BBD, BCY, BEA, BEL, BRM, APH, ATQ, AUG, AWV, BKF, BNU, ADR, AEB, AFY, AGN, AGU, AJH, AUL, AJP, AJQ, AMB, AMK, ANB, APG, APP, APT, APU, APX, ARH, ARK, ARX, ARY, ARZ, AUG, ALM, AUQ, AVC, AWC, AWM, AWP, AWV, AWU, AWV, AYP, BAM.

Weight

85 g



OEM: T10092, 3366, T40011

PETROL & DIESEL**Wrench belt tensioner****Art. 915 500 00****Description**Wrench to tensioner roller the timing belt.
Construction of the wrench allows you to set the head at different angles to the handle.**Models**VW, AUDI, SEAT, SKODA
Petrol and Diesel engines**Weight**

OEM: T10020, J-30009, J-30009A

0,25 kg

PETROL 2.3 / 2.8 chain**Art. 911 013 00**

Models VW: Golf / Bora, Jetta, GTI, Passat 2.3 / 2.8 (02-05);
AUDI: A8 (05-).

Types of engines AQN, AQP, AUE, BDF, BDP, BJS, BSB.

Weight

0,50 kg



OEM: T10068

PETROL 3.0 V6 30V belt**Art. 911 012 00**

Description Set includes Interlocks the camshafts 2 pcs and a pin to block the crankshaft.

Models AUDI: A4, A4 Cabrio, A6, A8 (00-06)

Types of engines AVK, ASN, BBJ

OEM: T40026

Weight

2,00 kg



OEM: T40030

+ Art. 911 012 50

Auxiliary sleeve to control for position of camshaft.

OEM: T40028

+ Art. 911 023 30

Sleeves for dismantling the front belt.

OEM: VAG 3369

VW, Audi 2.8FSI / 3.0TFSI / 3.2 FSI Camschafts locking tool**chain****Art. 911 011 00**

Description Camshaft timing locks.
Crankshaft locking tool see HP 911 010 15

Models Audi A4, A5, S4, S5, A6, A7, A8 Q5, Q7 (2008-)
Engine: 6 Cyl: 2.8 FSI, 3.0 TFSI, 3.2 FSI

Types of engines BDX, CAJA, CAKA, CALA, CALB, CCAA, CCEA, CCDA, CGWA, CGWB, CGWC, CGWD, CGXB, CGXC, CHVA, CJBA, CJTB, CJTC, CMDA, CMUA, CTVA

Weight

1,0 kg

Additional equipment

Pin to locking crankshaft.

Application as 911 011 00

2.4 V6 - BDW,

3.2 V6 FSI - AUK, BGP, BGQ, BKH, BPK

+ Art. 911 010 15

OEM: T40069

**NEW**

OEM: T40133

VW/Audi 3.6 FSI V6 Timing Adjustment Tool

Art. 911 013 20

Description

For locking the high pressure pump sprocket.
For Engines Without Mechanical Vacuum Pump



Modela

Audi Q7 (2007-2010), VW Passat (2007-2010)

Types of engines

3.6 FSI V6 (4V/cyl)
about codes BLV, BHL, BHK

Weight

0,1 kg



OEM: T10332

PETROL V6 / V8

Camshaft timing locks

AUDI: 80, 100, A4, A6, A8

2.6 ABC
2.8 AAH

1,90 kg



Art. 911 018 00

Models

AUDI: A4, RS4, S4, A6, Allroad, A8: 2.4, 2.7T, 2.8 (V6 30V) (94-05)
VW: Passat 2.8 30V (96-05)

SKODA: Superb 2.8 30V (02-08)

Engines in the
technique 5 valves

Types of engines

2.4 - AGA, AJG, ALF, ALW, AML, AMM, APC, APS, APZ, ARJ,
ARN, ARN, ASM, BDV
2.7T - AGB, AJK, ASJ, ARE, AZA, AZB, AZR, BES
2.8 - ACK, AGE, ALG, AMX, APR, AQD, ATX, BBG

Weight

2,20 kg



OEM: VAG3391, T30065

Art. 911 019 00

Models

AUDI: A6, S6, A8, S8, RS6 (98-09)

VOLKSWAGEN: Touareg, Phaeton (03-07)

Types of engines

3.7 - AKC, AQG, BFL
4.2 - AKB, ANK, AQF, AQH, AJQ, ARS, ART, ARU, ASG, AUW,
AUX, AYS, AWN, AWU, AVN, AXQ, BBD, BCY, BFM, BGH,
BGJ, BHX, BRV

Weight

2,00 kg



OEM: T40005

Art. 911 017 00

Additional equipment

Pin to locking crankshaft
Applicable as above:
also 3.0 V6 TDI

+ Art. 911 023 20



OEM: VAG3242

+ Art. 911 023 30

Sleeves for dismantling the front belt.

OEM: VAG 3369

PETROL 4.2 V8 chain

Art. 911 009 00

AUDI: S4 (04-08)

BAT, BBK

1,2 kg



OEM: T30052, T40046, T40047

PETROL V8 3.7/4.2 belt

Art. 911 015 00

AUDI: A8 (94 - 02),

ABZ, AEW, AHC, AKH.

1,40 kg



OEM: VAG3341

+ Art. 915 500 00

Wrench to the timing belt
tensioner

DIESEL 1.9 TDI / SDI belt**Art. 911 400 00****Models**

VW: Polo / Classic, Golf / Bora, Bettle, Caddy (97-06)
Allows the exchange of camshaft without removing the valve cover.

Types of engines

ASY, AGP, AGR, AHF, ALH, AQM, ASV, AYQ and inne Engine 4 cyl. SDI i TDI group VW/AUDI with vacuum pump on camshaft.

Weight

0,50 kg



OEM: T10098, T20038, T20102, J-40074, VAG3359

Additional equipment**+ Art. 915 500 00**

Wrench to the timing belt tensioner

**DIESEL 1.2 / 1.4 TDI PD 3 cylinders****Art. 911 330 00**

Slat for setting the united injector.

Engines VW / Audi with unit injectors are with two types of magnetic solenoid valves for unit injectors. Construction of the device - adjustment knob - allows its use both in the older and new types of engines.

Models + Types of engines

Engine 3 cyl. TDI PD

**Art. 911 330 00****Art. 911 340 00****Art. 911 340 00**

Slat for setting the united injector.

Engines VW / Audi with unit injectors are with two types of magnetic solenoid valves for unit injectors. Construction of the device - adjustment knob - allows its use both in the older and new types of engines.

Models + Types of engines

Engine 4 cyl. TDI PD

**Art. 911 345 00**

Set of 2 types of slats for engines 3 and 4 cyl.

DIESEL 2.5/5.0 TDI PD Setting Gauge Pump Nozzle Unit Adjust**Art. 911 355 00****Models**

VW: Touareg 2.5 / 5.0 TDI PD
Setting Gauge Pump Nozzle Unit Adjust

Types of engines

2.5 TDI PD - R5
5.0 (4.9) TDI PD V10

Weight 0,20 kg



OEM : T10210

DIESEL TDI 1.2 / 1.4 / 1.9 / 2.0 TDI PD + 1.6 / 2.0 TDI Common Rail

Art. 904 010 34

Description

Set includes two types of crankshaft locking tools of different modules of the teeth. The set includes pins to block the camshafts and the timing belt tensioner handle.

Models

VW: Lupo, Fox, Polo, Golf, Golf Plus, Bora, Jetta, Beetle, Scirocco, Passat, Sharan, Touran, Tiguan, Caddy, Transporter (98-14)

AUDI: A1, A2, A3, A4, A5, A6, TT, Q3, Q5 (98-14)

SEAT: Arosa, Ibiza, Cordoba, Altea/XL, Leon, Toledo, Alhambra (99-14)

SKODA: Fabia (II), Rapid, Roomster, Octavia (II), Superb (II) (00-14)

FORD: Galaxy (00-06)

Types of engines

1.2 TDI PD - ANY, AYZ
1.4 TDI PD - AMF, ATL, BAY, BHC, BMS, BNM, BNV

1.9 TDI PD - AJM, AMG, ANJ, ARL, ARX, ASZ, ATD, ATJ, AUY, AVB, AVF, AVQ, AWX, AXW, AXC, AXR, BEW, BJB, BKC, BKE, BLS, BLT, BMT, BPX, BRB, BRM, BRU, BSU, BSV, BSW, BTB, BVK, BXE, BXF

2.0 TDI PD - AZV, BKD, BDJ, BDK, BGW, BHW, BKP, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRC, BRE, BRF, BRT, BSS, BUY, BUZ, BVE, BVF, BVG, BVH, BWV

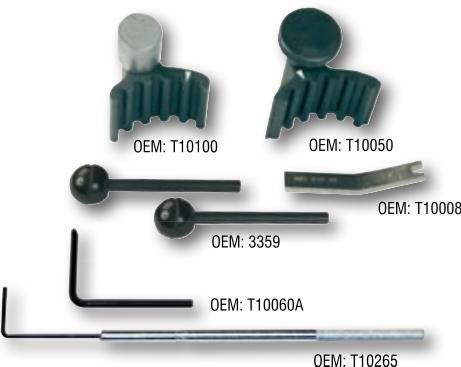
COMMON RAIL

1.2 TDI CR - CFWA 1.6 TDI CR - CAYA, CAYB, CAYC

2.0 TDI CR - CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CBEA, CCHA, CCHB, CEGA, CFCA, CFFA, CFFB, CFGB, CFGC, CFGD, CFHB, CFHC, CFHD, CFJA, CGLC, CGLD, CGLE, CJAA, CJCA, CJCB, CJCC, CLCA, CLJA, CLLA, CKTB, CKTC, CKUB, CKUC, CMFA, CMGB

Weight

0,75 kg



Additional equipment

+ Art. 915 500 00

Wrench to the timing belt tensioner



Puller the timing belt sprockets

Art. 911 600 00

Models

VW / AUDI And other

Types of engines

AGK, ATA And other
Universal

Weight

0,90 kg



OEM: T40001

DIESEL 2.0 TDI PD

Art. 904 010 37

Lock position rollers compensatory (oil pump).

Engine 2.0 TDI PD



OEM: T10255

DIESEL TDI 1.6 / 2.0 TDI Common Rail

Art. 911 410 00

Description

Set contains special key to the camshaft pulley, the pulley puller and camshaft.

Models

VW: Lupo, Fox, Polo, Golf, Golf Plus, Bora, Jetta, Beetle, Scirocco, Passat, Sharan, Touran, Tiguan, Caddy, Transporter (98-14)

AUDI: A1, A2, A3, A4, A5, A6, TT, Q3, Q5 (98-14)

SEAT: Arosa, Ibiza, Cordoba, Altea/XL, Leon, Toledo, Alhambra (99-14)

SKODA: Fabia (II), Rapid, Roomster, Octavia (II), Superb (II) (00-14)

COMMON RAIL

1.2 TDI CR - CFWA 1.6 TDI CR - CAYA, CAYB, CAYC And other

2.0 TDI CR - CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CBEA, CCHA, CCHB, CEGA, CFCA, CFFA, CFFB, CFGB, CFGC, CFGD, CFHB, CFHC, CFHD, CFJA, CGLC, CGLD, CGLE, CJAA, CJCA, CJCB, CJCC, CLCA, CLJA, CLLA, CKTB, CKTC, CKUB, CKUC, CMFA, CMGB And other



OEM: T10051

OEM: T10052

DIESEL TDI 1.2 / 1.4 / 1.9 / 2.0 TDI PD + 1.6 / 2.0 TDI Common Rail**Art. 911 430 00****Models**

VW: Lupo, Fox, Polo, Golf, Golf Plus, Bora, Jetta, Beetle, Scirocco, Passat, Sharan, Touran, Tiguan, Caddy, Transporter (98-14)

AUDI: A1, A2, A3, A4, A5, A6, TT, Q3, Q5 (98-14)

SEAT: Arosa, Ibiza, Cordoba, Altea/XL, Leon, Toledo, Alhambra (99-14)

SKODA: Fabia (II), Rapid, Roomster, Octavia (II), Superb (II) (00-14)

FORD: Galaxy (00-06)

Types of engines

1.2 TDI PD - ANY, AZV,

1.4 TDI PD - AMF, ATL, BAY, BHC, BMS, BNM, BNV

1.9 TDI PD - AJM, AMG, ANJ, ARL, ARX, ASZ, ATJ, AUY, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, BEW, BJB, BKD, BKE, BLS, BLT, BMT, BPX, BRB, BRM, BRU, BSU, BSV, BSW, BTB, BVK, BXE, BXF, BXJ

2.0 TDI PD - AZV, BKD, BDJ, BDK, BGW, BHW, BKP, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRC, BRE, BRF, BRT, BSS, BUY, BUZ, BVE, BVF, BVG, BVH, BWV

COMMON RAIL

1.2 TDI CR - CFWA 1.6 TDI CR - CAYA, CAYB, CAYC,

2.0 TDI CR - CAAA, CAAB, CAAC, CAAD, CAAE, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CBEA, CCHA, CCHB, CEGA, CFCA, CFFA, CFGB, CFGC, CFGD, CFHD, CFHC, CFHD, CFJA, CGLC, CGLD, CGLE, CJAA, CJCA, CJCB, CJCC, CLCA, CLJA, CLLA, CKTB, CKTC, CKUB, CKUC, CMFA, CMGB,

Weight

2,0 kg **Packing - plastic or metal suitcase**

**Crankshaft lock 1.6 / 2.0 TDI CR - Engine production after 2012****Art. 911 420 00****Models**

VW / AUDI / SEAT / SKODA po 2012 roku
Crankshaft Timing Tool and Locking Pin
Fuel Pump Locking and Camshaft Alignment Pins (2 pcs)

Types of engines

1.6 TDI CR - CLHA, CLHB

2.0 TDI CR - CKFC, CKFB, CRBC, CRFC, CUNA

Weight

0,30 kg

**Tandem Pump pressure tester****Art. 924 000 00****Description**

The tester is used to check the internal pressure in tandem diesel engines 1.9 & 2.0 TDI

Specification

0-16 bar pressure gauge with hose and quick coupler and Special Adapters

**Weight**

0,65 kg

Mills for the crankshaft**Art. 902 200 00****Description**

Allows milling of the front face of the crankshaft after disassembly of the crankshaft pulley.
The equipment has 3 different guide heads.

Application

Engine TDI
VW, Audi, Seat, Skoda

Weight

0,70 kg



Camshaft/Head Rebuild Kit 1.6/2.0/2.7/3.0/4.0/4.2

TDI Common Rail

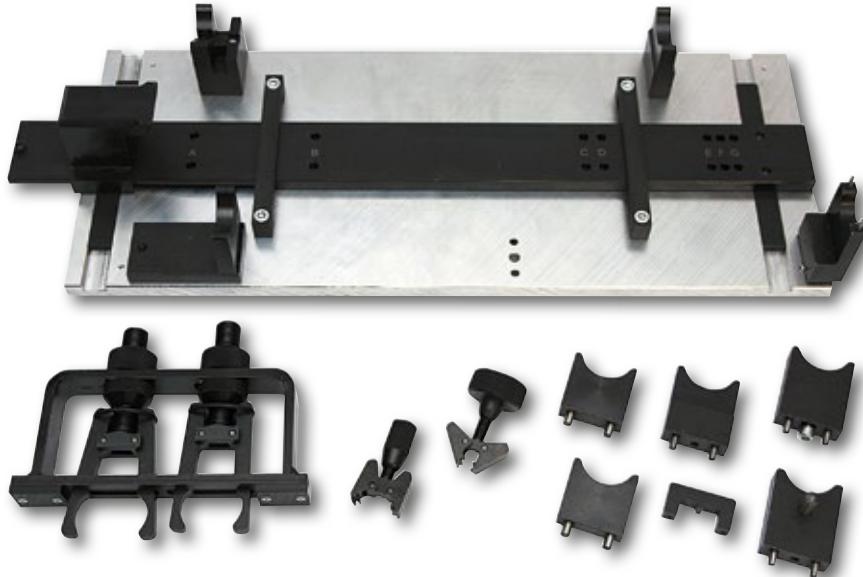
Art. 911 390 00

Description

This is equivalent to OEM tooling and is used when servicing or rebuilding the cylinder heads on a large range of VAG and Porsche diesel engines. It is specifically designed to allow the camshafts to be refitted into the cylinder head in their correct timed position. This is necessary because the cylinder heads are designed with a camshaft retaining frame that splits from the cylinder head along the centre line of the cam bearing caps. When refitting the existing or new camshafts they need to be assembled correctly in the retaining frame and then clamped in place while assembling to the cylinder head. The camshafts must be installed with the camshaft fitting jig, otherwise the camshaft bearings in the retaining frame will be destroyed and the cylinder head must be replaced. ear tooth alignment clamps

Types of engines

1.6/2.0/2.7/3.0/4.0/4.2 TDI CR



Weight

11.5 kg

OEM: T40094, T40095, T40096, T40096/1, T40094/1 do T40094/11

PETROL 1.4/1.6 + DIESEL 1.9/2.0 SDI/TDI & Common Rail Device for the exchange of the shaft seal

Art. 911 320 00

Models

AUDI: A3, A4
VW: Golf, Touran And other

Types of engines

 PETROL: 1.4 / 1.6 16V
 Diesel: 1.9/2.0 SDI/TDI + Common Rail

OEM : T10134 / T10017



VW CRAFTER 2.5 TDI Common Rail**Device for the exchange of the shaft seal****Art. 911 325 00**

Description Diesel engine assembly of sealing flange with integrated sender wheel

Models + Types of engines VW: Crafter 2.5 TDI Common Rail po 2006 roku



Weight 2,0 kg

OEM : T50010

NEW

Models VW: Transporter, Crafter, LT, T4 engines 5-cylinders

2.4D - AAB, AJA

2.5SDI - AGX

2.5TDI - ACV, AHD, AHY, AJT, ANJ, APA, AUF, AXG, AXL, AYC, BBE, BBF

2.5TDI Common Rail - BJJ, BJK, BJL, BJM, CEBA, CEBB, CECA, CECB

Art. 911 470 00

Types of engines

Additional equipment

OEM: T50009, VAG2064, VAG3418, VAG3355

See beside

+ Art. 911 450 00

Wrench to the timing belt tensioner

Art. 911 460 00

Models VW: Transporter, LT 5cyl. 2.5 DTI, 2.4 D; AUDI: 100, A6 2.5 TDI 5 cyl.

Weight 0,10 kg



OEM: VAG3355

VW CRAFTER 2.5 TDI Common Rail WRENCH TO THE VISCOUS VENTILATOR CLUTCH

Art. 911 471 00

Description WRENCH TO THE VISCOUS VENTILATOR CLUTCH

Models + Types of engines VW: Crafter 2.5 TDI Common Rail after 2006

Weight 0,3 kg



NEW

CRANKSHAFT WHEEL WRENCH TDI 5 CYL.

Art. 911 450 00

Description The wrench to lock and disassembly pulley crankshaft.

Models VW: Transporter, LT 5 cyl. 2.5 DTI, 2.4 D (95-03); AUDI: 100, A6 2.5 TDI 5 cyl.

Types of engines VW: ACV, AHY, AJT, AUF, AXG, AXL, AYC, AAB, AJA; AUDI: AAT, ABP, AEL (91-97)

Weight 3,45 kg



OEM : VAG3248A

DIESEL 2.5TDI V6 + V8 3.3TDI V8 belt**Art. 911 023 00****Models**

VW: Passat TDi 2.5 V6 TDI (98-05)
AUDI: A4, A6, A8, Allroad 2.5 V6 TDI (97-08), A8 3.3 V8 TDI
SKODA: Superb 2.5 V6 TDI (02-08)

Types of engines

AFB, AKN, AKE, AYM, BAU, BCZ, BDG, BDH, BFC

Weight

0,80 kg

Opcje dodatkowe**+ Art. 911 600 00**

Puller to gearwheel belt camshaft



Pin to wedge fuel pump.

**+ Art. 911 400 10**

OEM : T30052, T30094, T40030, VAG3242, VAG3369

DIESEL 2.7 TDI PD V6 + 3.0 TDI V6 + 4.0 TDI V8 + 4.2 TDI V8 chain**Art. 911 310 00****Models**

AUDI: A4, A5, A6, A6 Allroad, A7, A8, Q5, Q7 (03-14)
VW: Touareg (05-14), Phaeton (08-14)

Types of engines

2.7 TDI V6 - BBP BSG, CAMA, CAMB, CANA, CANC, CAND, CGKA, CGKB
3.0 TDI V6 - ASB, BKN, BKS, BMK, BMZ, BNG, BUG, BUN, CAPA,
CARA, CARB, CASA, CASB, CASC, CATA, CCMA, CCWA, CCWB,
CDTA, CDTB, CDUC, CDUD, CDYA, CDYB, CDYC, CEXA, CGQB,
CJMA, CKFB, CKFC, CLAA, CLAB, CLZB, CMHA, CRCA

4.0 TDI V8 - ASE**4.2 TDI V8 - BTR****Weight**

1,60 kg

Additional equipment**+ Art. 911 612 00**

Puller to gearwheel belt camshaft three-leg



OEM : T30052, T40049, T40058, T40060, T40061, T40062, VAG3242, VAG3359

VW / Audi DIESEL 2.7 TDI PD V6 + 3.0 TDI V6 + 4.0 TDI V8 + 4.2 TDI V8 chain**Art. 911 315 00****Models**

AUDI: A4, A5, A6, A6 Allroad, A7, A8, Q5, Q7 (03-14)
VW: Touareg (05-14), Phaeton (08-14)

Types of engines

2.7 TDI V6 - BBP BSG, CAMA, CAMB, CANA, CANC, CAND, CGKA, CGKB
3.0 TDI V6 - ASB, BKN, BKS, BMK, BMZ, BNG, BUG, BUN, CAPA,
CARA, CARB, CASA, CASB, CASC, CATA, CCMA, CCWA, CCWB,
CDTA, CDTB, CDUC, CDUD, CDYA, CDYB, CDYC, CEXA, CGQB,
CJMA, CKFB, CKFC, CLAA, CLAB, CLZB, CMHA, CRCA

4.0 TDI V8 - ASE**4.2 TDI V8 - BTR****NEW****Weight**

2,20 kg

Also Common Rail Engines Common Rail

OEM : T30052, [T40046](#), T40049, T40058, T40060, T40061, T40062, [T40135](#), [T40246](#), [T40071](#), VAG3242, VAG3359

VW/Audi 2.7 / 3.0 TDI Common Rail High Pressure Pump Locking Tool**Art. 911 315 10**

| | |
|-------------------------|--|
| Models | Audi A4/A5/A6, Q5/Q7 (07-12) VW Phaeton/Touareg (07-15) Porsche Cayenne (08-16) |
| Types of engines | 2.7 TDI CR - CAMA, CAMB, CGKA, CGKB, CANA, CANB, CANC, CAND 3.0 TDI CR - CCWB, CCWA, CCLA, CDVA, CDVB, CDVC, CASA, CASB, CCMA, CAS, M05/9E, M05/9D(CAS), CARA, CEXA, CEXB, CASC, CATA, CASD |
| Weight | 0,1 kg |

NEW

OEM: T40135

DIESEL 2.5 TDI PD gear wheels**Art. 911 350 00**

| | |
|-----------------------------|---|
| Description | Tool Kit includes: - camshaft gear wheel locking tool - gear wheel holder the camshaft - device for locking the crankshaft - device for locking the camshaft - device for setting the crankshaft |
| Models | VW: Transporter T5, Touareg |
| Types of engines | AXD, AXE, BAC, BLJ, BLK, BPD, BPC, BPE, BNZ (2003-) |
| Weight | 8,00 kg |
| Additional equipment | See below - 911 370 00 and 911 360 00 |



OEM : T10193, T10225, T10226, T10234

DIESEL 4.9 (5.0) TDI PD gear wheels

Complement to the set 911 350 00

Art. 911 370 00

| | |
|--------------------|---|
| Description | Kit 911 370 00 is complementary to a set of 911 350 00 Extension kit for 4.9 TDI for engines (5.0 TDI), includes: - device for to set camshaft (second) - device for to set crankshaft |
| Models | 4.9TDI (5.0TDI) - AYH (03-) |
| Weight | 1,70 kg |



OEM : T10194, T10195

DIESEL 2,5 TDI PD water pump**Art. 911 360 00**

| | |
|--------------------|--|
| Description | Device for dismantling water pump: - gear wheel puller - remover to pump see Art. 911 350 00 |
| Models | |
| Weight | 0,85 kg |



OEM : T10221, T10222A

DIESEL 2.5/5.0 TDI PD Setting Gauge Pump Nozzle Unit Adjust**Art. 911 355 00**

| | |
|-------------------------|---|
| Models | VW: Touareg 2.5 / 5.0 TDI PD |
| Types of engines | 2.5 TDI PD - R5 5.0 (4.9) TDI PD V10 |

Weight 0,20 kg



OEM : T10210

VW LT DIESEL 2.8 TDI gear wheels

Art. 911 380 00

Models

VW: LT 2.8 TDI
 Kit includes camshaft locking tool
 and a special wrench to the crankshaft.

Types of engines

AGK, ATA (97-06), AUH (01-06), BCQ (02-06)

Weight

1,90 kg



OEM : VAG3445, VAG3447

Puller to gearwheel belt camshaft

Art. 911 612 00

Description

Puller to gearwheel belt camshaft three-leg



Weight

0,30 kg

Wheels puller crankshaft

VW/Audi

Art. 911 615 00

Models

Puller for dismantling crankshaft belt pulleys.

Engine 4 i 5 cyl. VW/Audi



VW/ Audi Wrench to dismantling the fuel pump

Art. 911 630 00

Models

Serial number tool – OEM: 3307

| | |
|--------------------|--------------------|
| Audi | Volkswagen |
| A4 (2002-2004 AWD) | Passat (1998-2005) |
| A6 (1999-2004) | |
| 90 Quattro | |
| S3, S6, RS6 | |

Weight

1,5 kg



A wrench to disassemble gears

Art. 911 760 00

Timing Tools

Description

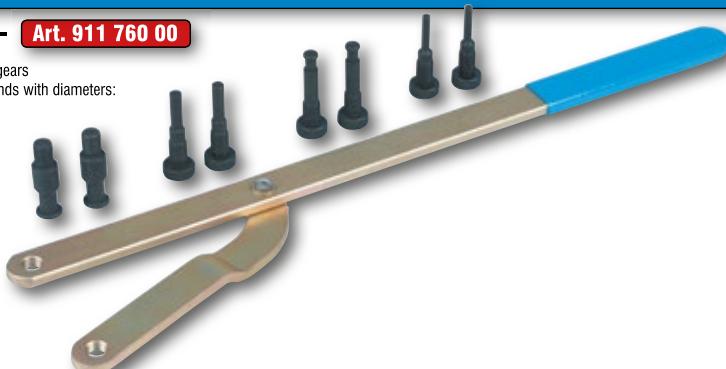
Universal key for disassembly of gears
 timing belt with interchangeable ends with diameters:

- ø 16 mm
- ø 9,5 mm
- ø 7,5 mm
- ø 5,5 mm

length: 500 mm
 spacing arms: od 30 do 300 mm

Weight

1,70 kg



VW/Audi DSG Clutch Removal Kit VAG

Art. 911 001 00

Description

DSG clutch removal tool set for VAG 7 speed gear boxes found in Volkswagen Golf (2004-) Volkswagen Golf Plus (2005-) VW Touareg , with 6speed gear box type 08D (2003-) Audi A3 (2004-)

Types of engines

Clutch Support Bridge and Force Screw OEM T10323
Puller Clutch OEM T10373
Setting Tool Release Bearing Model OEM T10374
Clutch Press Piece OEM T10375
Thrust Pieces OEM T10376

NEW



OEM: T10323, T10373, T10374, T10375, T10376

Weight

5,8 kg

Wrenches to the ventilators

Models

Wrenches to the viscous ventilator clutch.

Art. 918 011 00



Types

Wrench 32mm - 918 011 00
Wrench 36mm - 918 012 00
Wrench with hook - 918 013 00

Application

Audi, VW
Also: BMW, Land Rover, Ford and Opels

Art. 918 012 00



Art. 918 013 00



Suspension VW group

Art. 902 100 00

Models

The device for setting the camber angle.
VW: Golf II, Golf III, Vento (92), Passat (88 - 96)
Corrado (90 - 96), Caddy, Polo (94);

AUDI;
SEAT;
SKODA.



Weight

1,30 kg

Wrench to the alternator

Art. 911 620 00

Application

A special wrench to alternator of the group car VW.
For BOSCH alternators.

Weight

0,17 kg



Application

A special wrench to alternator of the group car VW.
For VALEO alternators.

Weight

0,17 kg

Art. 911 625 00



PETROL 1.6/1.8/2.0 16V**Art. 906 300 00**

Models VOLVO: S40/V50 (04-10)
C30 (06-10)
1.6 16V - B4164S3 (belt)
1.8 16V - B4184S11 (chain)
2.0 16V - B42043S (chain)

Also for cars
FORD i MAZDA

OEM: 999-7152, 999-7201, 999-7151

Weight 0,40 kg**PETROL 1.6/1.8/1.9/2.0/2.2/2.3/2.4/2.5 belt****Art. 905 200 00**

Models 850 (92-97)
C70 (98-02)
S40 (96-04)
V40 (96-04)

S60 (01-05)
S70 (97-00)
S80 (00-05)**Also for cars**
RENAULT

Types of engines B4164...
B4194... B5234...
B5252... B4184...
B4204... B5244...
B5254... B5202...

Weight 1,70 kg

OEM: 999-5451, 999-5452, 999-5555

VOLVO / Ford / Mazda Timing tool kit 1.6 /2.0**belt / chain****Art. 909 200 00**

Models + Engine VOLVO: V40 (13-), V40 Cross Country, S60 (11-), S80 (07-), S80L, V60, V70 (08-), XC60, S60 (11-)
Engine: 1.6 B4164T, B4164T2, B4164T3, B4164T4 , B4164T
2.0 B4204T6, B4204T7, MMT6, MPS6

NEW

FORD: Fiesta (2008-15), Focus (2004-15), B-MAX (2012-15), C-MAX (2003-15), Grand C-Max (2010-15), S-Max (2010-15), Galaxy (2010-15), Kuga (2013-15), Tourneo (Grand) Connect (2013-15), Transit Connect (2013-15)

Engine Ecobost 1.6: HXDA, HXDB, HXJA, HXJB, IQDA, IQDB, IQJA, JODA, JDAB, JQGA, JQMA, JQMB, JTDA, JTDB, JTJA, JTMA, JTWA, JTWB, MUDA, PNDA, RVJA, SIDA, U5JA, XTD

Engine Ecobost 2.0: TNBA, TNBB, TNWA, TPBA, TPWA (od 2010 r)
XQDA, MGDA, R9DA (od 2011-)

Mazda: Mazda 5 (CW) (2010-15), Mazda 6 (GH) (2010-13) **Engine:** MZR 2.0 (LF), LF(MZR DIDI)

**The numbers of the factory tools:**

Volvo: OEM: 999-7405, 999-7415, 999-7406, 999-7431, 999-7415, 999-7416, 303-1504

Ford: OEM: 303-1504, 303-1565, 303-1097, 303-748, 303-1550

Mazda: OEM: 303-1061, 303-507, 205-072

VOLVO Petrol 2.0 Engine B4204 Timing Tool Kit

belt

Art. 909 100 00**NEW****Description**

For setting and checking the motor control times is required for e.g. Working on the valve drive and changing the cylinder head gasket.
Suitable for Volvo B4204 engine (8-speed gearbox)

Models + Engine

VOLVO: V40 (2013-), V40 Cross Country(2008-), S60 (2011-) S60L(2007-), V60 (2008-), V60 Cross Country (2008-), V70 (2008-), S80 (2007-), XC60(2008-), XC70 (2008-), XC90 (2016-), V541

Engines codes: B4154T5, B4154T6, B4204T9,B4204T10, B4204T11, B4204T12, B4204T15, B4204T19, B4204T20, B4204T21, B4204T23, B4204T27, B4204T28, B4204T32, B4204T35 do B4204 T41

**Weight**

8,5 kg

The numbers of the factory tools **VOLVO**
OEM 999-7490, OEM 999-7493, OEM 999-7495, OEM 999-7496 OEM 999-7497

PETROL 2.5 TURBO

belt

Art. 906 500 00**Models**

A set of locking tools and camshaft of the regulatory devices for engines: Ford / Volvo 2.5 Turbo PETROL.

Types of engines

Ford: Focus, Mondeo, S-Max 2.5 ST, Galaxy 2.5 ST
Volvo S40, S60, S80, V50, V70, C70, XC70, XC90

Weight

Engine 2.5 Turbo PETROL, (EURO 4)
HUBA, HUWA, HYDA (2005-)

3,70 kg



OEM: 999-7005, 999-5433, 999-5765, 999-5452, 999-5451

PETROL & DIESEL**Wrench to the crankshaft****Art. 906 500 15****Models**

Wrench to the crankshaft Volvo; petrol engines and Diesel's a
S80 (98-06) S40/V40 (97-) S70 / V70 (97-07) V50 (04-)
XC70 (02-07) XC90 (06-) S60 (00-) C30 (09-)
C70 (98-)

Types of engines

| Engine petrol: | Diesel engines: |
|-----------------------|------------------------|
| 1.6 - B4164S | 2.4 - D5244.. |
| 1.8 - B4184S | 2.4T - D5244.. |
| 1.9T - B4194T | 2.9 - B6294.. |
| 2.0 - B4204... | 2.9T - B6294T |
| 2.0T - B5204... | 2.5T - B5254.. |
| 2.3 - B5234FS | 2.8T6 - B6284.. |
| 2.3T - B5234.. | 2.9 - B6294.. |
| | 2.9T - B6294T |

Weight

0,60 kg



OEM Volvo: 999-5433

PETROL 1.6 16V Ti-VCT / Ecoboost 1.6 SCTi

belt

Art. 906 335 00Models
+ EngineVOLVO - S60, V60, S80, V70 (2010-2011)
1.6 B4164T/T2/T3FORD - B-MAX, C-MAX, Focus, Galaxy, Mondeo, S-MAX
1.6 EcoBoost po (2010-2012)
IQJA, JQDA, JQDB, JTDA, JTDB, JTWA, JTWB, JTBA, JTBB**NEW**

Also for cars FORD

OEM FORD/VOLVO:

303-1097 / 999-7429
303-1550 / 999-7431
303-748 / 999-7406,
999-7201
303-1054

Weight

0,45 kg

PETROL 3.0 / 3.2 T6

belt

Art. 906 700 00

Models

Enables control and setting of the motor control times
Suitable for Volvo S80, XC90, XC60, XC70 with 3.0T and 3.2T6
engine from year 2007.

Volvo S80, XC90, XC60, XC70

Types
of enginesEngine 3.0 / 3.2 T6 Turbo PETROL
(2007-)
Includes locking tools for cam and crankshaftOEM: 999-7257 Crankshaft Timing Tool
999-7261 Position Sensor Tool(Camshaft Alignment Tool)
999-7264 Counterhold (Cover Installer/Remover)
999-7266 Cover Alignment Tool
999-7271 Support
777-7272 TORX 60 (Star Socket)
999-7263 Counterhold (Cover Installer/Remover)

Weight

5,90 kg



OEM: 999-7257, 999-7261, 999-7263, 999-7264, 999-7266, 999-7271, 777-7272

Volvo Crankshaft wrench / block**NEW****Art. 906 500 50**

Models

| | | |
|-----------------|------------|----------------------|
| 240/360 (85-93) | Types | 2.0 B200E |
| 244/245 (85-92) | Of engines | 2.0 16V B204E |
| 740 (85-93) | | 2.0 16V Turbo B204FT |
| 760 (85-91) | | 2.3 B230E |
| 940 (91-98) | | 2.3 B230F |
| 960 (85-98) | | 2.3 Turbo B230FT |
| | | 2.3 16V B234F |
| | | 2.3 16V B234G |

Weight

0,9 kg



OEM: 9995284 or 5284

VOLVO Timing tool kit 1.6/1.9/2.0 i 2.4 Diesel (1996- 2015)**Art. 909 050 00****NEW**

Models + Engine
VOLVO C30, C70, S40, S60, S80, V40, V50, V60, V70,
 XC60, XC70, XC90 (1996 - 2015)

1.6 (4 cyl.) D4162T, D4164T
 1.9 (4 cyl.) D4192T3, D4192T4
 2.0 (4 cyl.) D4204T, D4204T2
2.0/2.4 (5 cyl.) D5204T, D5204T2, D5204T3, D5204T5, D5244T,
 D5244T10, D5244T11, D5244T13, D5244T14,
 D5244T15, D5244T16, D5244T17, D5244T18,
 D5244T19, D5244T2, D5244T3, D5244T4, D244T5,
 D5244T6, D5244T7, D5244T8, D5244T9

Weight 1,25 kg**Additional equipment** Wrench to the crankshaft**Art. 906 500 15**

OEM Volvo: 999-5433

**The numbers of the factory tools VOLVO/FORD:**

OEM: 303-1329, OEM: T10264, OEM: 999-7169,
 OEM: 999-7233, OEM: 999-7122, OEM: 999-7121,
 OEM: 999-7119, OEM: 999-7120, OEM: 0134Q,
 OEM: 999-7005, OEM: 999-7007

DIESEL 1.6D / 2.0D**belt****Art. 906 201 00**

Models + Types of engines
VOLVO: Engine 1.6D D4164T
 C30 (06-10)
 S40 (04-10)
 V50 (06-10)

Also for cars
CITROEN/PEUGEOT, FORD,
MAZDA i LAND ROVER

VOLVO Engine 2.0D D4204T/D4204T2
 C30 (06-09)
 S40 (04-09)
 V50 (04-09)
 C70 (06-10)

The numbers of the factory tools VOLVO:
OEM: 999-7119, 999-7120, 999-7121,
 999-7233, 999-7122, 999-7169,

Weight 0,80 kg**DIESEL 2.0D / 2.4D 5 cyl.****Art. 909 051 00**

Models + Types of engines
VOLVO: C70, S40, S60, S80, V50, V60, V70, XC60, XC70, XC90
Engine 2.0 i 2.4 about codes :
 D5204T, D5204T2, D5204T3, D5204T5, D5244T, D5244T10,
 D5244T11, D5244T13, D5244T15, D5244T17, D5244T18,
 D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7

NEW**Weight** 0,80 kg**Additional equipment** Wrench to the crankshaft**Art. 906 500 15**

OEM Volvo: 999-5433



The numbers of the factory tools VOLVO/FORD:
OEM Volvo: 999-7007, 999-7005

COMPARATIVE TABLE tool numbers (OEM)

to locate special ZUP HP tools by OEM serial numbers

WARNING! The table does not include new products introduced after 2015!!!

METHOD OF CONDUCT - use of the table

- Find the serial number (OEM) of the special tool needed in the factory instructions, publications **Autodata, ESI [tronic]** or others.

- Find the factory number in the comparative table (first column).

The table is divided by car brands,
serial numbers of tools (OEM)

are ranked cumulatively and alphabetically.

- In the second column (**No.ZUP HP**) of the table the number of the tool's equivalent is found special which he has according to signs of the ZUP HP.
- In the third column (**No. Set ZUP HP**) the table can be found on the numbers of ZUP HP Ssetrs containing the tools you are looking for.

| Factory No. OEM | No. ZUP HP | No. Set |
|-------------------|------------|--|
| Alfa Romeo | | |
| 1.822.146.000 | 911 750 00 | 911 750 00 |
| | 911 760 00 | 911 760 00 |
| 1.822.147.000 | 907 019 00 | 907 019 00 |
| 1.822.149.000 | 907 030 10 | 907 030 10 |
| 1.822.154.000 | 907 030 20 | 907 030 20 |
| 1.825.013.000 | 907 020 00 | 907 020 00 |
| 1.825.040.000 | 907 009 00 | 907 009 00 |
| 1.825.041.000 | 907 005 00 | 907 005 00 |
| 1.825.042.000 | 907 002 00 | 907 002 00 |
| 1.860.898.000 | 907 050 60 | 907 050 60 907 317 00 907 900 00 907 910 00 |
| 1.860.905.000 | 907 050 10 | 907 050 10 904 015 00 |
| 1.860.937.000 | 907 060 30 | 907 314 00 907 060 00 907 100 00 |
| 1.870.684.000 | 922 159 00 | 922 159 00 |
| 1.870.734.000 | 907 002 00 | 907 002 00 |
| 1.870.797.000 | 907 003 00 | 907 003 00 |
| 1.870.849.000 | 907 014 00 | 907 014 00 |
| 1.870.859.000 | 907 013 00 | 907 013 00 |
| 1.870.896.900 | 904 015 20 | 904 015 00 |
| 2.000.000.700 | 904 015 50 | 907 317 00 904 015 50 |
| 2000003000 | 907 050 10 | 907 050 10 904 015 00 |
| 2.000.012000 | 904 013 10 | 904 013 00 |
| 2.000.012100 | 904 010 07 | 904 013 00 |



SUBSTITUTION OF TOOL FACTORY DEFAULT

**WARNING! The table does not include novelties introduced after 2015.
Look for OEM numbers directly at the Description of articles inside the catalog!**

Factory No. - the number of original tools which can be found in the factory manuals, or in a book Autodata - Toothed Belts / Timing Chains
HP the number - the equivalent of the original tools from the production of HPset of number - the set number that contains searches of the special tool

| Factory No. | No. HP | No. Set HP | Factory No. | No.H | No. Set HP | Factory No. | No. HP | No. Set HP |
|-------------------|--------------------------|--|--|------------|--|-------------------------------------|------------------|--|
| Alfa Romeo | | | | | | | | |
| 1.822.146.000 | 911 750 00 911 760 00 | 911 750 00 911 760 00 | 11.3.390 | 903 170 00 | 903 170 00 903 100 00 903 456 00 | 11.9.320 | 903 462 50 | 903 460 00 903 460 02 |
| 1.822.147.000 | 907 019 00 | 907 019 00 | 11.3.450 | 903 455 30 | 903 455 00 903 456 00 | 11.9.330 | 903 468 10 | 903 468 00 |
| 1.822.149.000 | 907 030 10 | 907 030 10 907 900 00 | 11.4.220 | 903 170 00 | 903 170 00 903 100 00 903 456 00 | | | |
| 1.822.154.000 | 907 030 20 | 907 030 20 | 11.4.280 | 903 466 10 | 903 466 00 | 11.9.340 (11.9.341 +11.9.342) | 903 461 30 | 903 450 00 903 460 00 903 460 01 903 463 00 903 466 00 903 467 00 903 475 00 |
| 1.825.013.000 | 907 020 00 | 907 020 00 907 900 00 911 980 00 | 11.4.281 | 903 466 10 | 903 466 00 | 11.9.350 | 903 461 40 | 903 460 00 903 460 01 |
| 1.825.040.000 | 907 009 00 | 907 009 00 | 11.4.282 | 903 466 10 | 903 466 00 | 11.9.390 | 903 462 10 | 903 460 00 903 460 02 |
| 1.825.041.000 | 907 005 00 | 907 005 00 | 11.4.283 | 903 466 10 | 903 466 00 | 11.9.460 | 903 470 10+20+30 | 903 470 00 |
| 1.825.042.000 | 907 002 00 | 907 002 00 | 11.4.285 | 903 467 10 | 903 467 00 | 11.9.461 | 903 470 10 | 903 470 00 |
| 1.860.898.000 | 907 050 60 | 907 050 60 907 317 00 907 900 00 907 910 00 | 11.4.290 | 903 466 20 | 903 466 00 903 467 00 | 11.9.462 | 903 470 20 | 903 470 00 |
| 1.860.905.000 | 907 050 10 | 907 050 10 904 015 00 | 11.4.360 | 903 468 40 | 903 468 00 | 11.9.463 | 903 470 30 | 903 470 00 |
| 1.860.987.000 | 907 060 30 | 907 314 00 907 060 00 907 100 00 | 11.5.120 | 903 461 10 | 903 460 00 903 460 01 903 463 00 903 475 00 | 11.9.480 | 903 472 10 | 903 472 00 |
| 1.870.684.000 | 922 159 00 | 922 159 00 922 000 00 | 11.5.140 | 903 468 20 | 903 468 00 | 13.5.120 | 903 310 00 | 903 300 00 |
| 1.870.734.000 | 907 002 00 | 907 002 00 | 11.5.180 | 903 200 10 | 903 200 00 903 200 30 | 13.5.190 | 903 280 00 | 903 280 00 |
| 1.870.797.000 | 907 003 00 | 907 003 00 | 11.5.320 | 903 260 10 | 903 260 00 | 13.5.330 | 903 472 00 | 911 000 00 |
| 1.870.849.000 | 907 014 00 | 907 014 00 | 11.5.490 | 903 140 00 | 903 100 00 | 2 219 548 | 903 450 10 | 903 450 00 |
| 1.870.859.000 | 907 013 20 | 907 013 00 | 11.6.080 | 903 200 20 | 903 200 00 903 200 30 | 83 30 2212830 | 903 450 20 | 903 450 00 |
| 1.870.896.900 | 904 015 20 | 904 015 00 | 11.6.150 | 903 455 10 | 903 455 00 903 456 00 | 83 30 2212831 | 903 450 30 | 903 450 00 |
| 2.000.000.700 | 904 015 50 | 904 015 50 907 317 00 | 11.6.180 | 903 455 20 | 903 455 00 903 456 00 | | | |
| 2.000.003.000 | 907 050 10 | 907 050 10 904 015 00 | 11.6.320 | 903 210 00 | 903 200 00 | | | |
| 2.000.004.500 | 907 110 00 | 907 100 00 907 060 00 907 314 00 | 11.6.321 | 903 210 00 | 903 200 00 | | | |
| 2.000.012.000 | 904 013 10 | 904 013 00 | 11.6.322 | 903 220 00 | 903 200 00 | | | |
| 2.000.012.100 | 904 010 07 | 904 013 00 | 11.6.450 (11.6.451 +11.6.452) | 903 410 00 | 903 410 00 | | | |
| 2.000.012.800 | 904 013 20 | 904 013 00 | 11.6.480 | 903 260 15 | 903 260 00 | | | |
| 2.000.003.000 | 904 015 50 | 907 317 00 | 11.7.250 | 903 475 20 | 903 475 00 +903 475 30 | | | |
| 2.000.004.500 | 907 309 10 | 907 309 00 | 11.7.251 | 903 475 20 | 903 475 00 | | | |
| 2.000.034.400 | 907 314 30 | 907 314 00 | 11.7.252 | 903 475 30 | 903 475 00 | | | |
| 2.000.033.500 | 907 317 10 + 20 | 907 317 00 | 11.7.260 | 903 475 10 | 903 475 00 | | | |
| 2.000.035.100 | 907 309 10 | 907 309 00 | 11.8.090 | 903 472 20 | 903 472 00 | | | |
| 2.000.035.200 | 907 309 20 | 907 309 00 | 11.8.520/521 | 903 466 30 | 903 466 00 | | | |
| 2.000.035.300 | 907 309 30 | 907 309 00 | 11.8.570 | 903 472 30 | 903 472 00 | | | |
| 2.190 754.000 | 907 050 22 | 907 314 00 907 050 10 907 900 00 907 910 00 | 11.8.690 (11.8.691 +11.8.692 +11.8.693) | 903 463 20 | 903 463 00 | | | |
| | | | 11.8.700 | 903 463 40 | 903 463 00 | | | |
| | | | 11.8.710 | 903 463 30 | 903 463 00 | | | |
| | | | 11.8.711 +11.8.712) | | | | | |
| | | | 11.8.740 | 903 285 00 | 903 280 00 | | | |
| | | | 11.8.760 | 903 260 13 | 903 260 00 | | | |
| | | | 11.9.190 | 903 470 40 | 903 470 00 903 472 00 | | | |
| | | | 11.9.232 | 903 475 20 | 903 475 00 | | | |
| | | | 11.9.270 | 903 461 20 | 903 460 00 903 460 01 | | | |
| | | | 11.9.280 | 903 468 30 | 903 468 00 | | | |
| | | | 11.9.291 | 903 461 60 | 903 460 00 903 460 01 | | | |
| | | | 11.9.292 | 903 461 50 | 903 460 00 903 460 01 | | | |
| | | | 11.9.300 | 903 462 30 | 903 460 00 32 +903 462 30 | | | |
| | | | 11.9.301 | 903 462 20 | 903 460 00 903 460 02 | | | |
| | | | 11.9.302 +11.9.303 | 903 462 20 | 903 460 00 903 460 02 | | | |
| 11.3.300 | 903 466 40 | 903 466 00 903 467 00 | | | | | | |
| 11.2.300 | 903 150 00 | 903 150 00 903 100 00 903 200 00 903 300 00 | | | | | | |
| 11.2.441/445 | 903 400 00 | 903 400 00 | | | | | | |
| 11.2.442/446 | 903 400 00 | 903 400 00 | | | | | | |
| 11.2.443/444 | 903 400 00 | 903 400 00 | | | | | | |
| 11.3.190 | 903 120 00 | 903 100 00 | | | | | | |
| 11.3.240 | 903 110 00 | 903 100 00 903 456 00 | | | | | | |
| 11.3.290 | 903 180 00 | 903 100 00 | | | | | | |
| 11.3.292 | 903 180 00 | 903 100 00 | | | | | | |
| 11.3.320 | 903 130 00 | 903 100 00 903 300 00 | | | | | | |
| 11.3.340 | 903 240 00 | 903 100 00 903 200 00 903 300 00 903 463 00 | | | | | | |
| 11.3.360 | 903 350 00 | 903 350 00 | | | | | | |

| CHEVROLET / DAEWOO | | |
|---------------------------|-------------|--------------------------|
| EN-852 | 904 010 02 | 904 010 00 |
| EN-952 | 904 010 356 | 904 022 00 |
| EN-953-A | 904 010 354 | 904 022 00 |
| EN-955-1 | 904 010 357 | 904 022 00 |
| EN-6333 | 906 200 70 | 904 013 00 904 900 00 |
| EN-6340 | 904 010 07 | 904 013 00 904 900 00 |
| EN-6625 | 904 013 20 | 904 013 00 904 900 00 |
| EN-42492 | 904 010 40 | 904 010 40 |
| EN-48245 | 904 021 10 | 904 021 00 |
| EN-48246 | 904 021 20 | 904 021 00 |
| EN-49977 | 904 022 10 | 904 022 00 |
| EN-49977-100 | 904 022 10 | 904 022 00 |
| EN-49977-200 | 904 022 20 | 904 022 00 |
| J-424492 | 904 010 40 | 904 010 40 |
| KM-421A | 904 010 40 | 904 010 40 |

| CHRYSLER | | |
|-----------------|---------------------------------|--------------------------|
| Mot854 | 905 500 10 | 905 500 00 |
| Mot861 | 905 100 30 R2 =905 500 50 R5 | 905 250 00 905 500 00 |
| VM1011 | 911 000 00 | 911 000 00 |
| VM1013 | 911 000 00 | 911 000 00 |
| VM1051 | 904 200 04 | 904 200 00 |
| VM1052 | 904 200 03 | 904 200 00 |
| VM1053 | 904 200 02 | 904 200 00 |
| VM1056 | 904 200 05 | 904 200 00 |
| VM1068 | 904 200 01 | 904 200 00 |
| VM1080 | 904 200 07 | 904 200 00 |
| VM8873 | 904 200 06 | 904 200 00 |



SUBSTITUTION OF TOOL FACTORY DEFAULT

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Look for OEM numbers directly at the Description of articles inside the catalog!

| Factory No. | No. HP | No. Set HP | Factory No. | No. HP | No. Set HP | Factory No. | No. HP | No. Set HP |
|-------------------------|------------------|--|-------------|--------------------------------|--|-------------|-----------------|--|
| CITROEN, PEUGEOT | | | | | | | | |
| 0117AK/F | 911 000 00 | 911 000 00 | 0189-A | 905 400 01 P1 905 400 05 P2 | 905 420 00 905 951 00 | 4533-TAD | 905 400 07 U | 905 420 00 905 430 00 905 600 00 905 800 00 905 951 00 |
| 0117AR | 905 700 10 S1 | 905 700 00 905 951 00 | 0189-AZ | 905 400 01 P1 905 400 05 P2 | 905 420 00 905 951 00 | 5711-TA | 905 600 04 T4 | 905 600 00 905 700 00 905 800 00 905 951 00 |
| 0132AA | 911 750 00 | 911 750 00 | 0189-B | 905 400 04 P4 | 905 420 00 905 951 00 | 5711-TB | 905 700 01 D1 | 905 700 00 905 951 00 |
| 0132AB | 905 700 05 D5 | 905 700 00 | 0189-C | 905 400 06 P6 | 905 420 00 905 951 00 | 5711-TC | 905 700 02 D2 | 905 700 00 905 800 00 905 951 00 |
| 0132AJ1 | 905 600 04 T4 | 905 600 00 905 700 00 905 800 00 905 951 00 | 0189-J | 905 400 03 P3 | 905 420 00 905 951 00 | 5711-TD | 905 700 03 D3 | 905 700 00 905 951 00 |
| 0132AJ2 | 905 600 03 T3 | 905 600 00 905 951 00 | 0189-K | 905 400 07 U | 905 420 00 905 430 00 905 600 00 905 800 00 905 810 00 905 951 00 | 5711-TE | 905 700 50 N2 | 905 700 00 905 800 00 905 951 00 |
| 0132AK | 905 400 07 U | 905 420 00 905 430 00 905 600 00 905 800 00 908 810 00 905 951 00 | 0189-L | 905 400 02 P2 | 905 420 00 905 951 00 | 6012-T | 905 190 00 | 905 600 00 905 700 00 905 951 00 |
| 0132P | 905 700 60 D6 | 905 700 00 905 951 00 | 0189-R | 905 410 10 P9 | 905 420 00 905 951 00 | 6016-T | 911 750 00 | 911 750 00 |
| 0132Q | 905 600 08 W6 | 905 600 00 905 700 00 905 951 00 | 0189-S1 | 905 410 30 P10 | 905 420 00 905 951 00 | 7004-TG | 905 600 06 T6 | 905 600 00 905 951 00 |
| 0132QZ | 905 600 08 W6 | 905 600 00 905 700 00 905 951 00 | 0189-S2 | 905 410 20 P11 | 905 420 00 905 951 00 | 7010-T | 911 000 00 | 911 000 00 |
| 0132QY | 905 430 01 | 906 430 00 905 951 00 | 0191/2.A | 907 200 50 | 907 090 00 907 200 00 907 910 00 | 7014-TJ | 905 700 06 W8 | 905 700 00 905 800 00 905 951 00 |
| 0132R | 905 600 06 T6 | 905 600 00 905 951 00 | 0191/2.B | 907 200 60 | 907 090 00 907 200 00 907 910 00 | 7014-TM | 905 600 02 T2 | 905 600 00 905 951 00 |
| 0132RZ | 905 600 06 T6 | 905 600 00 905 951 00 | 0194-A | 906 200 10 F6 | 905 800 00 905 951 00 906 201 00 906 601 00 | 7014-TN | 905 600 04 T4 | 905 600 00 905 700 00 905 800 00 905 951 00 |
| 0132X1Z | 905 600 10 K8 | 905 600 00 905 700 00 905 951 00 | 0194-B | 906 200 20 F7 | 905 800 00 905 951 00 906 201 00 906 601 00 | 7017-TR | 905 700 07 W8/2 | 905 700 00 905 800 00 905 951 00 |
| 0134Q | 905 600 11 Z1 | 905 600 00 905 700 00 905 800 00 905 951 00 | 0194-C | 906 200 30 F8 | 905 800 00 905 951 00 906 201 00 906 601 00 | 7017-TU | 905 600 07 T7 | 905 600 00 905 951 00 |
| 0153A | 905 600 11 Z1 | 905 600 00 905 700 00 905 800 00 905 951 00 | 0195-C | 905 810 02 | 905 810 00 | 7018-TY | 905 600 06 T6 | 905 600 00 905 951 00 |
| 0178T | 905 700 07 W8/2 | 905 700 00 905 800 00 905 800 00 | 0195-H | 905 810 01 | 905 810 00 | 7019-T | 905 700 09 W7 | 905 700 00 905 951 00 |
| 0188-E | 905 700 17 M8X80 | 905 800 00 905 951 00 | 0195-K | 905 810 03 | 905 810 00 | 7044-T | 905 600 11 Z1 | 905 600 00 905 700 00 905 800 00 905 951 00 |
| 0188-F | 905 600 11 Z1 | 905 600 00 905 700 00 905 800 00 905 951 00 | 0197-A1 | 905 450 20 | 905 450 00 | 9004-T | 905 600 11 Z1 | 905 600 00 905 700 00 905 800 00 905 951 00 |
| 0188-H | 905 700 02 D2 | 905 700 00 905 800 00 905 951 00 | 0197-A2 | 905 450 40 | 905 450 00 | 9022-TM | 905 190 00 | 905 600 00 905 700 00 905 951 00 |
| 0188-J1 | 907 700 40 N1 | 905 800 00 905 951 00 | 0197-A3 | 905 450 30 | 905 450 00 | 9041-TZ | 905 600 05 T5 | 905 600 00 905 951 00 |
| 0188-J2 | 905 700 50 N2 | 905 700 00 905 800 00 905 951 00 | 0197-B | 905 450 10 | 905 450 00 | 9044-T | 905 600 11 Z1 | 905 600 00 905 700 00 905 800 00 905 951 00 |
| 0188-K | 905 400 07 U | 905 420 00 905 430 00 905 600 00 905 800 00 905 810 00 905 951 00 | 0198-A | 907 200 95 | 907 200 00 | 9765.54 | 905 190 00 | 905 600 00 905 700 00 905 800 00 905 951 00 |
| 0188-M | 905 600 04 T4 | 905 600 00 905 700 00 905 800 00 905 951 00 | 0198-B2 | 907 200 90 | 907 200 00 907 220 00 | 9766.98 | 905 600 04 T4 | 905 600 00 905 700 00 905 800 00 905 951 00 |
| 0188-P | 905 700 30 B1 | 905 800 00 905 951 00 | 0606-A1/A2 | 905 425 00 | 905 425 00 | 9767.27 | 905 600 08 W6 | 905 600 00 905 700 00 905 951 00 |
| 0188-X | 905 700 20 WS | 905 800 00 905 951 00 | 4200TH | 905 600 09 S3 | 905 600 00 905 430 00 905 951 00 | 9767.34 | 905 700 06 W8 | 905 700 00 905 800 00 905 951 00 |
| 0188-Y | 905 700 06 W8 | 905 700 00 905 800 00 905 951 00 | 4507-TA | 905 600 08 W6 | 905 600 00 905 700 00 905 951 00 | 9767.89 | 905 600 10 K8 | 905 600 00 905 951 00 |
| | | | 4507-TB | 905 600 01 T1 | 905 600 00 905 951 00 | | | |
| | | | 4507-TJ | 905 600 10 K8 | 905 600 00 905 951 00 | | | |
| | | | 4507-TL | 905 700 60 D6 | 905 700 00 905 951 00 | | | |
| | | | 4527-TS1 | 905 700 04 D4 | 905 700 00 905 951 00 | | | |
| | | | 4527-TS2 | 905 700 05 D5 | 905 700 00 905 951 00 | | | |
| | | | 4533-TAC1 | 905 600 04 T4 | 905 600 00 905 700 00 905 800 00 905 951 00 | | | |
| | | | 4533-TAC2 | 905 600 03 T3 | 905 600 00 905 951 00 | | | |



SUBSTITUTION OF TOOL FACTORY DEFAULT

WARNING! The table does not include novelties introduced after 2015.

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| Factory No. | No. HP | No. Set HP | Factory No. | No. HP | No. Set HP | Factory No. | No. HP | No. Set HP |
|-------------|-----------------------------|--|-------------|---------------------------|--|-------------|---------------------------|--|
| 9767.94 | 905 600 02 T2 | 905 600 00 905 951 00 | 1871000900 | 904 019 20 | 904 019 00 907 910 00 | 21-240-(01) | 906 250 20 +906 250 30 | 906 250 00 |
| D86 | 905 190 00 | 905 600 00 905 700 00 905 951 00 | 2000012800 | 904 013 20 | 904 013 00 904 900 00 | 21-251 | 906 200 50 F10 | 906 201 00 |
| M8 Bolts | 905 700 14 M8x40 (3 szt) | 905 700 00 905 951 00 | 2000015800 | 907 060 40 | 907 060 00 | 21-259 | 906 300 30 FN | 906 300 00 |
| 1860617000 | 905 700 04 D4 | 905 700 00 905 951 00 | 2000016500 | 907 200 90 | 907 200 00 907 220 00 | 21-260 | 906 200 10 F6 | 906 201 00 906 601 00 905 800 00 905 951 00 |
| 1860638000 | 907 180 10 | 907 180 00 905 951 00 | 2000016700 | 907 200 96 | 907 200 00 | 21-262 | 906 200 30 F8 | 906 201 00 906 601 00 905 800 00 905 951 00 |
| Fiat | | | 2000016900 | 907 200 70 | 907 200 00 | 21-263 | 906 200 20 F7 | 906 201 00 906 601 00 905 800 00 905 951 00 |
| 99360614 | 907 200 60 | 907 200 00 907 090 00 | 2000017000 | 907 200 75 | 907 200 00 | 23-018 | 911 000 00 | 911 000 00 |
| 99360615 | 907 200 50 | 907 200 00 907 090 00 | 2000017100 | 907 200 95 | 907 200 00 | 23-019 | 906 100 20 F2 | 906 100 00 |
| 1852161000 | 907 019 00 | 907 019 00 | 2000017300 | 907 200 14 | 907 200 00 | 23-020 | 906 170 00 F12 | 906 100 00 906 601 00 |
| 1860161000 | 905 190 00 | 905 190 00 | 2000018400 | 907 200 10 | 907 200 00 | 23-029 | 906 100 50 F5 | 906 100 00 906 601 00 |
| 1860617000 | 907 200 40 | 907 200 00 907 090 00 | 2000018700 | 907 200 80 | 907 220 00 907 200 00 | 23-047 | 911 030 01 | 911 000 00 911 990 01 |
| 1860638000 | 907 180 10 | 907 180 00 907 910 00 905 951 00 | 2000019200 | 907 200 20 | 907 200 00 | 23-058 | 904 010 32 | 904 010 34 911 990 00 |
| 1860680000 | 907 015 70 | 907 015 70 | 2000022500 | 906 200 30 F8 | 906 201 00 906 601 00 905 800 00 905 951 00 | 23-059 | 904 010 31 | 904 010 34 911 990 00 |
| 1860703000 | 905 190 00 | 905 190 00 | 2000023000 | 906 200 10 F6 | 906 201 00 906 601 00 905 800 00 905 951 00 | 205-072 | 911 750 00 911 760 00 | 911 750 00 911 760 00 |
| 1860766000 | 907 050 70 | 907 050 70 | 2000023100 | 906 200 10 F6 | 906 201 00 906 601 00 905 800 00 905 951 00 | 303-098 | 911 750 00 911 760 00 | 911 750 00 911 760 00 |
| 1860771000 | 907 015 70 | 907 015 70 | 2000023200 | 906 200 20 F7 | 906 201 00 906 601 00 905 800 00 905 951 00 | 303-193 | 906 100 10 F1 | 906 100 00 906 601 00 |
| 1860815000 | 907 200 94 | 907 200 00 | 2000034400 | 907 314 30 | 907 314 00 | 303-194 | 911 022 00 | 911 022 00 911 000 00 911 990 00 |
| 1860831000 | 911 750 00 | 911 750 00 | 2000035100 | 907 309 10 | 907 309 00 | 303-367 | 906 120 00 | 906 100 00 906 601 00 |
| 911 760 00 | 911 760 00 | | 2000035200 | 907 309 20 | 907 309 00 | 303-376 | 906 120 00 | 906 100 00 906 601 00 |
| 1860831001 | 911 750 00 | 911 750 00 | 2000035300 | 907 309 30 | 907 309 00 | 303-393 | 906 180 00 | 906 100 00 906 601 00 |
| 911 760 00 | 911 760 00 | | 2190754000 | 907 050 22 | 907 050 10 907 314 00 907 900 00 907 910 00 | 303-393-01 | 906 180 06 | 906 201 00 906 601 00 |
| 1860845000 | 907 030 10 | 907 030 10 | 2190754200 | 907 140 00 | 907 100 00 | 303-393-02 | 906 180 05 | 906 310 00 906 601 00 |
| 1860846000 | 907 200 30 | 907 200 00 | 2190754400 | 907 130 00 | 907 100 00 | 303-510 | 906 350 30 | 906 350 00 |
| 1860847000 | 907 007 00 | 907 007 00 | 2190754500 | 907 110 00 | 907 100 00 907 060 00 | 303-511 | 906 350 10 +906 350 20 | 906 350 00 |
| 1860848000 | 911 750 00 | 911 750 00 | 2192044500 | 907 110 00 | 907 100 00 907 060 00 | 303-507 | 906 100 30 F3 | 906 300 00 906 601 00 906 450 00 |
| 911 760 00 | 911 760 00 | | 2190754200 | 907 140 00 | 907 100 00 | 303-620 | 906 100 40 F4 | 906 201 00 906 601 00 906 450 00 |
| 1860874000 | 907 015 10 +907 015 20 | 907 015 00 | 2190754400 | 907 130 00 | 907 100 00 | 303-651 | 906 130 00 | 906 100 00 906 601 00 |
| 1860875000 | 907 004 00 | 907 004 00 | 2190754500 | 907 110 00 | 907 100 00 907 060 00 | 303-675 | 906 200 40 | 906 201 00 906 601 00 |
| 1860876000 | 907 015 56 | 907 015 00 907 900 00 | 2192044500 | 907 110 00 | 907 100 00 907 060 00 | 303-676 | 906 210 00 | 906 210 00 906 601 00 |
| 1860885000 | 911 750 00 | 911 750 00 | 99360614 | 907 200 60 | 907 200 00 | 303-679 | 906 250 10 | 906 250 00 906 250 20 |
| 911 760 00 | 911 760 00 | | 99360615 | 907 200 50 | 907 200 00 907 090 00 | 303-681(01) | 906 250 20 +906 250 30 | 906 250 00 |
| 1860892000 | 907 006 00 | 907 006 00 | 2190754200 | 907 140 00 | 907 100 00 | 303-698 | 906 200 50 F10 | 906 201 00 906 601 00 |
| 1860895000 | 907 020 00 | 907 020 00 | 2190754400 | 907 130 00 | 907 100 00 | 303-732 | 906 200 10 F6 | 906 201 00 906 601 00 905 800 00 905 951 00 |
| 1860898000 | 907 050 60 | 907 050 60 | 2190754500 | 907 110 00 | 907 100 00 907 060 00 | 303-734 | 906 200 30 F8 | 906 201 00 906 601 00 905 800 00 905 951 00 |
| | | | 21-104 | 906 100 10 F1 | 906 100 00 906 601 00 | 303-735 | 906 200 20 F7 | 906 201 00 906 601 00 905 800 00 905 951 00 |
| 1860899000 | 907 001 00 | 907 070 00 | 21-105 | 911 022 00 | 911 022 00 911 000 00 911 990 00 | 21-203 | 911 014 00 | 911 014 00 |
| 1860901000 | 907 070 10 | 907 070 00 | 21-123 | 906 160 00 F11 | 906 100 00 906 601 00 | 21-210 | 906 100 30 F3 | 906 300 00 906 601 00 |
| 1860905000 | 907 050 10 | 907 050 10 907 900 00 | 21-162(B) | 906 120 00 | 906 100 00 906 601 00 | 21-214 | 906 350 30 | 906 350 00 |
| 1860985000 | 907 060 20 | 907 060 00 907 900 00 | 21-163 | 906 100 40 F4 | 906 300 00 906 601 00 | 21-215 | 906 350 10 | 906 350 00 + 906 350 20 |
| 1860987000 | 907 060 30 | 907 314 00 907 060 00 907 100 00 | 21-168 | 906 180 01 +906 180 02 | 906 100 00 906 201 00 906 601 00 | 21-229 | 906 130 00 | 906 100 00 906 601 00 |
| 1860992000 | 907 060 10 | 907 060 00 907 900 00 | 21-203 | 911 014 00 | 911 014 00 | 21-234 | 906 200 40 | 906 201 00 906 601 00 |
| 1865090000 | - | 911 000 00 | 21-210 | 906 100 30 F3 | 906 300 00 906 601 00 | 21-238 | 906 250 10 | 906 250 00 |
| 1870684000 | 922 159 00 | 922 159 00 922 000 00 | 21-214 | 906 350 30 | 906 350 00 | | | |
| 1870697000 | 907 012 00 | 907 012 00 | 21-215 | 906 350 10 | 906 350 00 + 906 350 20 | | | |
| 1870823000 | 907 150 00 | 907 150 00 | 21-229 | 906 130 00 | 906 100 00 906 601 00 | | | |
| 1870896000 | 904 015 20 | 904 015 00 907 910 00 | 21-234 | 906 200 40 | 906 201 00 906 601 00 | | | |
| 1870900300 | 904 019 80 | 904 019 50 | 21-238 | 906 250 10 | 906 250 00 | | | |
| 1870900400 | 904 019 70 | 904 019 50 | | | | | | |
| 1871000200 | 904 019 60 | 904 019 50 | | | | | | |



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| Factory No. | No. HP | No. Set HP | Factory No. | No. HP | No. Set HP | Factory No. | No. HP | No. Set HP |
|---------------------------------|------------------|--|-------------------|----------------------------|--------------------------|---------------|---------------------------|--|
| FORD ciąg dalszy | | | | | | | | |
| 303-748 | 906 300 30 FN | 906 300 00 906 601 00 | 2000018400 | 907 200 10 | 907 200 00 | LRT-12-058 | 904 010 61 | 904 010 70 904 010 60 |
| 303-1053 | 915 500 00 | 915 500 00 911 990 00 | 2000018700 | 907 200 80 | 907 200 00 | LRT-12-060 | 904 010 50 | 904 010 50 904 010 60 |
| 303-1054 | 906 200 70 | 906 201 00 906 601 00 | 2000019200 | 907 200 20 | 907 200 00 | LRT-12-108 | 903 150 00 | 903 100 00 903 300 00 903 200 00 |
| 303-1059 | 906 200 42 | 906 201 00 906 601 00 | JAGUAR | | | LRT-12-112 | 903 130 00 | 903 100 00 903 300 00 |
| 303-1060 | 906 450 20 | 906 450 00 | 303-1116 | 904 010 75 | 904 010 70 | LRT-12-114 | 903 310 00 | 903 100 00 903 200 00 903 300 00 |
| 303-1061 | 906 450 10 | 906 450 00 | 303-1117 | 904 010 72 | 904 010 70 | LRT-12-115 | 903 350 00 | 903 350 00 |
| 303-1179 | 906 500 10 | 906 500 00 | 303-1126 | 905 810 01 | 904 010 70 905 810 00 | LRT-12-119 | 903 310 00 | 903 300 00 |
| 303-1097 | 906 320 00 | 906 320 00 906 601 00 | 303-1132 | 904 010 71 | 904 010 70 | LRT-12-132 | 911 760 00 | 911 760 00 |
| 303-1468 | 904 019 80 | 904 019 50 | LANCIA | | | LRT-12-134 | 904 010 50 | 904 010 50 904 010 60 |
| 303-1469 | 904 019 60 | 904 019 50 | 1860771000 | 907 015 70 | 907 015 70 907 900 00 | LRT-12-141 | 904 010 62 | 904 010 60 904 010 70 |
| 303-1472 | 904 019 20 | 904 019 00 904 900 00 907 910 00 | 1860831000 | 911 750 00 911 760 00 | 911 750 00 911 760 00 | LRT-12-143 | 904 010 63 | 904 010 60 904 010 70 |
| 303-1477 | 907 140 00 | 907 100 00 | 1860845000 | 907 030 10 | 907 030 10 907 900 00 | LRT-12-158 | 904 010 79 | 904 010 70 |
| 303-1478 | 907 120 00 | 907 100 00 | 1860847000 | 907 007 00 | 907 007 00 | LRT-12-172 | 903 310 00 | 903 100 00 903 200 00 903 300 00 |
| 303-1479 | 907 130 00 | 907 100 00 | 1860874000 | 907 015 10 +907 015 20 | 907 015 00 907 900 00 | LRT-12-173 | 903 210 00 | 903 200 00 |
| 303-1480 | 907 110 00 | 907 100 00 | 1860875000 | 907 004 00 | 907 004 00 907 900 00 | LRT-12-174 | 903 220 00 | 903 200 00 |
| 310-017 | 911 000 00 | 911 000 00 | 1860876000 | 907 015 56 | 907 015 00 907 900 00 | LRT-12-178 | 903 280 00 | 903 280 00 |
| 310-018 | 906 100 20 F2 | 906 100 00 906 601 00 | 1860885000 | 911 760 00 | 911 760 00 | MAZDA | | |
| 310-019 | 906 170 00 F12 | 906 100 00 906 601 00 | 1860895000 | 907 020 00 | 907 020 00 907 900 00 | 49 G032 354 | 911 750 00 | 911 750 00 |
| 310-033 | 906 100 50 F5 | 906 100 00 | 1860898000 | 907 050 60 | 907 050 60 907 317 00 | 49 JE01 050 | 906 100 10 F1 | 906 100 00 906 601 00 |
| 310-055 | 911 030 01 | 911 000 00 911 990 00 | 1860901000 | 907 070 10 | 907 070 00 | 49 JE01 054 | 906 120 00 | 906 100 00 906 601 00 |
| 310-084 | 904 010 32 | 904 010 34 911 990 00 | 1860905000 | 907 050 10 | 907 050 10 904 015 00 | 49 JE01 061 | 906 100 30 F3 | 906 300 00 906 601 00 906 450 00 |
| 310-085 | 904 010 31 | 904 010 34 911 990 00 | 1860961000 | 907 008 00 | 907 008 00 | 49 JE01 063 | 906 170 00 F12 | 906 100 00 906 601 00 |
| T74P-6256-B | 911 750 00 | 911 750 00 911 760 00 | 1860985000 | 907 060 20 | 907 060 00 907 900 00 | 49 JE01 602 | 906 350 10 +906 350 20 | 906 350 00 |
| HONDA | | | | | | | | |
| 07LAG-PT20100 | 904 050 03 | 904 051 00 | 1860987000 | 907 060 30 | 907 060 00 907 900 00 | 49 JE01 062 | 906 350 30 | 906 350 00 |
| 07MAB-PY3010A | 904 055 00 | 904 055 00 | 1860992000 | 907 060 10 | 907 060 00 907 900 00 | 49 JE01 062 | 906 201 00 | 906 601 00 905 800 00 905 951 00 |
| 07JAB-0010400 | 904 055 00 | 904 055 00 | 1870697000 | 907 012 00 | 907 012 00 | 49 JE02 020 | 906 200 30 F8 | 906 201 00 906 601 00 905 800 00 905 951 00 |
| 07744-0010400 | 904 050 02 | 904 051 00 | 1870900300 | 904 019 80 | 904 019 50 | 49 JE02 021 | 906 200 20 F7 | 906 201 00 905 800 00 905 951 00 |
| 14540-P13-003 +14540-P8A-A01 | 904 050 01 | 904 051 00 | 1870986900 | 904 015 20 | 904 015 00 | 49 JE02 061 | 906 300 30 FN | 906 300 00 |
| 18G 1521 | 911 760 00 | 911 760 00 | 1871000200 | 904 019 60 | 904 019 50 | 49 UN20 5072 | 906 400 00 | 906 400 00 |
| 18G 1523 | 904 010 61 | 904 051 00 | 1871000900 | 904 019 20 | 904 019 00 | 49 UN30310610 | 906 450 10 | 906 450 00 |
| 18G 1717 | 904 010 62 | 904 051 00 | 2000000700 | 904 015 50 | 907 317 00 904 015 50 | 49 B011 105 | 906 400 00 | 906 400 00 |
| 18G 1719 | 904 010 63 | 904 051 00 904 010 60 904 010 70 | 2000003000 | 904 015 50 | 907 317 00 904 015 00 | 499 140 074 | 911 000 00 | 911 000 00 |
| HYUNDAI | | | | | | | | |
| 09244-28000 | 904 045 01 | 904 045 00 | 2000004500 | 907 110 00 | 907 100 00 907 060 00 | IVECO | | |
| 09244-28100 | 904 045 10 | 904 045 00 | 20000015800 | 907 060 40 | 907 060 00 | 00.2.271 | 905 460 10 | 905 460 00 |
| IVECO | | | | | | | | |
| 99360614 | 907 200 60 | 907 200 00 907 090 00 | 20000035200 | 907 309 20 | 907 309 00 | 00.2.272 | 905 460 20 | 905 460 00 |
| 99360615 | 907 200 50 | 907 200 00 907 090 00 | 20000035300 | 907 309 30 | 907 309 00 | 11.0.300 | 906 200 20 | 905 460 00 906 201 00 |
| 1860815000 | 907 200 94 | 907 200 00 | LAND ROVER | | | 11.4.360 | 903 468 40 | 903 468 00 |
| 1860617000 | 907 200 40 | 907 200 00 905 700 04 | 303-1116 | 904 010 75 | 904 010 70 | 11.5.140 | 903 468 20 | 903 468 00 |
| 1860846000 | 907 200 30 | 907 200 00 | 303-1117 | 904 010 72 | 904 010 70 | 11.9.330 | 903 468 10 | 903 468 00 |
| 2000016500 | 907 200 90 | 907 200 00 | 303-1126 | 905 810 01 | 904 010 70 905 810 00 | 11.9.540 | 905 450 20 | 905 450 00 + 30 |
| 2000016700 | 907 200 96 | 907 200 00 | 303-1132 | 904 010 71 | 904 010 70 | 11.9.550 | 950 450 20 | 905 450 00 + 40 |
| 2000016900 | 907 200 70 | 907 200 00 | 303-1270 | 906 200 42 | 906 201 00 906 601 00 | 11.9.590 | 905 450 10 | 905 450 00 |
| 2000017000 | 907 200 75 | 907 200 00 | 303-1272 | 906 180 01 + 906 180 06 | 906 201 00 906 601 00 | 11.9.790 | 906 200 10 | 905 460 00 906 201 00 |
| 2000017100 | 907 200 95 | 907 200 00 | 303-1277 | 906 200 20 | 906 201 00 906 601 00 | | | |
| 2000017300 | 907 200 14 | 907 200 00 | | | | | | |



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| Factory No. | No. HP | No. Set HP | Factory No. | No. HP | No. Set HP | Factory No. | No. HP | No. Set HP |
|-------------------|------------|------------|-----------------|----------------------------------|------------|-------------|--|--|
| MITSUBISHI | | | | | | | | |
| MB995207 | 915 500 00 | 915 500 00 | KM-421A | 904 010 40 | 904 010 40 | Mot582 | 905 190 00 | 905 190 00 |
| | 911 990 00 | | KM-509A | 904 010 46 | 904 010 46 | Mot582-01 | 905 150 00 | 905 150 00 |
| MB995208 | 911 027 35 | 911 027 00 | KM-571B | 911 090 00 | 911 000 00 | Mot799-01 | 911 750 00 | 911 750 00 |
| MB995209 | 904 010 31 | 904 010 34 | KM-652 | 904 011 00 | 904 011 00 | Mot854 | 905 500 10 | 905 500 00 |
| | 911 990 00 | | KM-661-1 | 911 028 00 | 911 028 00 | Mot856 | 911 000 00 | 911 000 00 |
| MB996036 | 905 300 20 | 905 300 00 | KM-798 | 911 000 00 | 911 000 00 | Mot856-01 | 911 000 00 | 911 000 00 |
| MB996037 | 905 300 10 | 905 300 00 | KM-800 | 904 016 00 | 904 016 00 | Mot861 | 905 100 30 R2 = 905 500 50 R5 | 905 100 00 905 250 00 905 500 00 |
| MB996043 | 905 500 10 | 905 500 00 | KM-800-1 | 904 010 04 | 904 010 00 | Mot910 | 905 500 30 R3 + 905 500 40 R4 | 905 500 00 |
| MD998384 | 911 000 00 | 911 000 00 | KM-800-2 | 904 010 03 | 904 010 00 | Mot910/1 | 905 500 30 R3 | 905 500 00 |
| MD995206 | 911 400 10 | 904 010 34 | KM-800-10 | 904 016 20 | 904 016 00 | Mot910/2 | 905 500 40 R4 | 905 500 00 |
| | 911 990 00 | | KM-800-20 | 904 016 10 | 904 016 00 | Mot996-01 | 905 500 10 | 905 500 00 |
| | | | KM-800-30 | 904 016 08 | 904 016 00 | Mot1054 | 905 100 30 R2 = 905 500 50 R5 | 905 100 00 905 250 00 905 500 00 |
| | | | KM-811 | 903 130 00 | 903 300 00 | Mot1131 | 905 500 10 | 905 500 00 |
| | | | | 903 100 00 | 903 100 00 | Mot1135-01 | 905 500 20 | 905 500 00 |
| | | | | 903 200 00 | | Mot1198 | 905 500 10 | 905 500 00 |
| | | | KM-813 | 903 150 00 | 903 300 00 | Mot1200 | 905 500 10 | 905 500 00 |
| | | | | 903 100 00 | 903 100 00 | Mot1311-04 | - | 922 000 00 |
| | | | | 903 200 00 | | Mot1311-05 | - | 922 000 00 |
| | | | KM-822 | 903 350 00 | 903 350 00 | Mot1316 | 905 170 00 | 905 170 00 |
| | | | KM-823 | 903 310 00 | 903 300 00 | Mot1317 | 905 500 10 | 905 500 00 |
| | | | | 903 100 00 | 903 100 00 | Mot1318 | 905 500 60 R6 | 905 500 00 |
| | | | KM-825 | 903 310 00 | 903 300 00 | Mot1337 | 905 200 10 | 905 200 00 |
| | | | KM-851 | 911 024 00 | 911 024 00 | Mot1340 | 905 200 20 | 905 200 00 |
| | | | KM-852 | 904 010 02 | 904 010 00 | Mot1348 | 905 200 30 | 905 200 00 |
| | | | KM-853 | 904 010 01 | 904 010 00 | Mot1358 | 905 300 10 | 905 300 00 |
| | | | KM-911 | 904 012 00 | 904 012 00 | Mot1359 | 905 300 20 | 905 300 00 |
| | | | KM-927 | 904 018 50 | 904 018 00 | Mot1368 | 905 120 00 | 905 120 00 |
| | | | KM-929 | 904 018 40 | 904 018 00 | Mot1386 | 905 530 00 | 905 530 00 |
| | | | KM-932 | 904 018 10 | 904 018 00 | Mot1430 | 905 100 30 R2 = 905 500 50 R5 | 905 100 00 905 250 00 905 500 00 |
| | | | KM-933 | 904 018 20 | 904 018 00 | Mot1489 | 905 100 20 R1 | 905 100 00 |
| | | | | + 904 018 30 | | Mot1490-01 | 905 130 00 | 905 130 00 |
| | | | KM-951 | 911 026 00 | 911 026 00 | Mot1496 | 905 100 10 | 905 100 00 |
| | | | KM-952 | 904 010 356 | 904 010 35 | Mot1534 | 905 250 60 | 905 250 00 |
| | | | KM-953 | 904 010 354 | 904 010 35 | Mot1536 | 905 250 10 R7 | 905 250 00 |
| | | | KM-954 | 904 010 350 | 904 010 35 | Mot1537 | 905 250 70 | 905 250 00 |
| | | | KM-955 | 904 010 358 | 904 010 35 | Mot1538 | 905 250 50 +(-30) +(-40) +(+42) +(+43) | 905 250 00 |
| | | | KM-966 | 905 500 30 R3 | 905 500 00 | Mot1539 | 905 250 60 R7 | 905 250 00 |
| | | | + 905 500 40 R4 | | | Mot1543 | 905 250 50 +(-30) +(-40) +(+42) +(+43) | 905 250 00 |
| | | | KM-2024 | 918 012 00 | 918 012 00 | Mot1548 | 905 250 70 | 905 250 00 |
| | | | KM-4028-1 | 911 000 00 | 911 000 00 | Mot1558 | 905 250 80 | 905 250 00 |
| | | | KM-4029-1 | 911 000 00 | 911 000 00 | Mot1568 | 905 250 90 | 905 250 00 |
| | | | KM-6031 | 905 100 30 R2 = 905 500 50 R5 | 905 100 00 | Mot1578 | 905 250 100 | 905 250 00 |
| | | | | 905 250 00 | 905 250 00 | Mot1588 | 905 250 100 | 905 250 00 |
| | | | KM-6032 | 905 500 10 | 905 500 00 | Mot1598 | 905 250 110 | 905 250 00 |
| | | | KM-6034 | 905 300 20 | 905 300 00 | Mot1608 | 905 250 120 | 905 250 00 |
| | | | KM-6035 | 905 300 10 | 905 300 00 | Mot1618 | 905 250 130 | 905 250 00 |
| | | | KM-6077 | 906 200 70 | 904 014 00 | Mot1628 | 905 250 140 | 905 250 00 |
| | | | KM-6130 | 904 008 00 | 904 008 00 | Mot1638 | 905 250 150 | 905 250 00 |
| | | | | 904 900 00 | | Mot1648 | 905 250 160 | 905 250 00 |
| | | | KM-6148 | 904 014 50 | 904 014 00 | Mot1658 | 905 250 170 | 905 250 00 |
| | | | KM-6163 | 911 000 00 | 911 000 00 | Mot1668 | 905 250 180 | 905 250 00 |
| | | | KM-6203 | 905 250 10 R7 | 905 250 00 | Mot1678 | 905 250 190 | 905 250 00 |
| | | | KM-6204 | 905 250 70 | 905 250 00 | Mot1688 | 905 250 200 | 905 250 00 |
| | | | KM-6205 | 905 250 60 | 905 250 00 | Mot1698 | 905 250 210 | 905 250 00 |
| | | | KM-6233 | 905 100 10 | 905 100 00 | Mot1708 | 905 250 220 | 905 250 00 |
| | | | KM-6234 | 905 250 50 | 905 250 00 | Mot1718 | 905 250 230 | 905 250 00 |
| | | | | +(-30) +(-40) +(+42) +(+43) | | Mot1728 | 905 250 240 | 905 250 00 |
| | | | KM-6244 | 905 140 00 | 905 140 00 | Mot1738 | 905 250 250 | 905 250 00 |
| | | | | 905 000 00 | | Mot1748 | 905 250 260 | 905 250 00 |
| | | | KM-6245 | 911 750 00 | 911 750 00 | Mot1758 | 905 250 270 | 905 250 00 |
| | | | KM-6267 | 903 210 00 | 903 200 00 | Mot1768 | 905 250 280 | 905 250 00 |
| | | | KM-6270 | 903 280 00 | 903 280 00 | Mot1778 | 905 250 290 | 905 250 00 |
| | | | KM-6333 | 906 200 70 | 904 013 00 | Mot1788 | 905 250 300 | 905 250 00 |
| | | | | 904 900 00 | | Mot1798 | 905 250 310 | 905 250 00 |
| | | | KM-6340 | 904 010 07 | 904 013 00 | Mot1808 | 905 250 320 | 905 250 00 |
| | | | | 904 900 00 | | Mot1818 | 905 250 330 | 905 250 00 |
| | | | KM-6625 | 904 013 20 | 904 013 00 | Mot1828 | 905 250 340 | 905 250 00 |
| | | | | 904 900 00 | | Mot1838 | 905 250 350 | 905 250 00 |
| | | | KM-6628 | 904 013 10 | 904 013 00 | Mot1848 | 905 250 360 | 905 250 00 |
| | | | | 904 900 00 | | Mot1858 | 905 250 370 | 905 250 00 |
| | | | KM-952 | 904 010 356 | 904 010 35 | Mot1868 | 905 250 380 | 905 250 00 |
| | | | | 904 022 00 | | Mot1878 | 905 250 390 | 905 250 00 |
| | | | KM-953-A | 904 010 354 | 904 010 35 | Mot1888 | 905 250 400 | 905 250 00 |
| | | | | 904 022 00 | | Mot1898 | 905 250 410 | 905 250 00 |
| | | | KM-955-1 | 904 010 357 | 904 010 35 | Mot1908 | 905 250 420 | 905 250 00 |
| | | | | 904 022 00 | | Mot1918 | 905 250 430 | 905 250 00 |
| | | | KM-956-1 | 904 010 358 | 904 010 35 | Mot1928 | 905 250 440 | 905 250 00 |
| | | | | 904 022 00 | | Mot1938 | 905 250 450 | 905 250 00 |
| | | | KM-957-1 | 904 010 359 | 904 010 35 | Mot1948 | 905 250 460 | 905 250 00 |
| | | | | 904 022 00 | | Mot1958 | 905 250 470 | 905 250 00 |
| | | | KM-958-1 | 904 010 360 | 904 010 35 | Mot1968 | 905 250 480 | 905 250 00 |
| | | | | 904 022 00 | | Mot1978 | 905 250 490 | 905 250 00 |
| | | | KM-959-1 | 904 010 361 | 904 010 35 | Mot1988 | 905 250 500 | 905 250 00 |
| | | | | 904 022 00 | | Mot1998 | 905 250 510 | 905 250 00 |
| | | | KM-960-1 | 904 010 362 | 904 010 35 | Mot2008 | 905 250 520 | 905 250 00 |
| | | | | 904 022 00 | | Mot2018 | 905 250 530 | 905 250 00 |
| | | | KM-961-1 | 904 010 363 | 904 010 35 | Mot2028 | 905 250 540 | 905 250 00 |
| | | | | 904 022 00 | | Mot2038 | 905 250 550 | 905 250 00 |
| | | | KM-962-1 | 904 010 364 | 904 010 35 | Mot2048 | 905 250 560 | 905 250 00 |
| | | | | 904 022 00 | | Mot2058 | 905 250 570 | 905 250 00 |
| | | | KM-963-1 | 904 010 365 | 904 010 35 | Mot2068 | 905 250 580 | 905 250 00 |
| | | | | 904 022 00 | | Mot2078 | 905 250 590 | 905 250 00 |
| | | | KM-964-1 | 904 010 366 | 904 010 35 | Mot2088 | 905 250 600 | 905 250 00 |
| | | | | 904 022 00 | | Mot2098 | 905 250 610 | 905 250 00 |
| | | | KM-965-1 | 904 010 367 | 904 010 35 | Mot2108 | 905 250 620 | 905 250 00 |
| | | | | 904 022 00 | | Mot2118 | 905 250 630 | 905 250 00 |
| | | | KM-966-1 | 904 010 368 | 904 010 35 | Mot2128 | 905 250 640 | 905 250 00 |
| | | | | 904 022 00 | | Mot2138 | 905 250 650 | 905 250 00 |
| | | | KM-967-1 | 904 010 369 | 904 010 35 | Mot2148 | 905 250 660 | 905 250 00 |
| | | | | 904 022 00 | | Mot2158 | 905 250 670 | 905 250 00 |
| | | | KM-968-1 | 904 010 370 | 904 010 35 | Mot2168 | 905 250 680 | 905 250 00 |
| | | | | 904 022 00 | | Mot2178 | 905 250 690 | 905 250 00 |
| | | | KM-969-1 | 904 010 371 | 904 010 35 | Mot2188 | 905 250 700 | 905 250 00 |
| | | | | 904 022 00 | | Mot2198 | 905 250 710 | 905 250 00 |
| | | | KM-970-1 | 904 010 372 | 904 010 35 | Mot2208 | 905 250 720 | 905 250 00 |
| | | | | 904 022 00 | | Mot2218 | 905 250 730 | 905 250 00 |
| | | | KM-971-1 | 904 010 373 | 904 010 35 | Mot2228 | 905 250 740 | 905 250 00 |
| | | | | 904 022 00 | | Mot2238 | 905 250 750 | 905 250 00 |
| | | | KM-972-1 | 904 010 374 | 904 010 35 | Mot2248 | 905 250 760 | 905 250 00 |
| | | | | 904 022 00 | | Mot2258 | 905 250 770 | 905 250 00 |
| | | | KM-973-1 | 904 010 375 | 904 010 35 | Mot2268 | 905 250 780 | 905 250 00 |
| | | | | 904 022 00 | | Mot2278 | 905 250 790 | 905 250 00 |
| | | | KM-974-1 | 904 010 376 | 904 010 35 | Mot2288 | 905 250 800 | 905 250 00 |
| | | | | 904 022 00 | | Mot2298 | 905 250 810 | 905 250 00 |
| | | | KM-975-1 | 904 010 377 | 904 010 35 | Mot2308 | 905 250 820 | 905 250 00 |
| | | | | 904 022 00 | | Mot2318 | 905 250 830 | 905 250 00 |
| | | | KM-976-1 | 904 010 378 | 904 010 35 | Mot2328 | 905 250 840 | 905 250 00 |
| | | | | 904 022 00 | | Mot2338 | 905 250 850 | 905 250 00 |
| | | | KM-977-1 | 904 010 379 | 904 010 35 | Mot2348 | 905 250 860 | 905 250 00 |
| | | | | 904 022 00 | | Mot2358 | 905 250 870 | 905 250 00 |
| | | | KM-978-1 | 904 010 380 | 904 010 35 | Mot2368 | 905 250 880 | 905 250 00 |
| | | | | 904 022 00 | | Mot2378 | 905 250 | |



SUBSTITUTION OF TOOL FACTORY DEFAULT

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| Factory No. | No. HP | No. Set HP | Factory No. | No. HP | No. Set HP | Factory No. | No. HP | No. Set HP |
|--------------|---------------------------|--|-------------|--|--|-------------|-------------------------|--|
| ROVER | | | | SUZUKI | | | | |
| 11-171 | 903 150 00 | 903 200 00 903 300 00 903 100 00 | 09910-26530 | 905 700 06 W8 | 905 800 00 905 700 00 905 951 00 | T10074 | 911 021 00 trzpieńie | 911 021 00 911 900 00 911 970 00 911 980 00 |
| 12-172 | 903 310 00 | 903 200 00 903 300 00 903 100 00 | 09910-26540 | 905 600 04 T4 | 905 800 00 905 700 00 905 600 00 905 951 00 | T10092 | 911 029 10 | 911 029 00 |
| 12-173 | 903 210 00 | 903 200 00 | 09912-38300 | 904 019 00 | 904 019 00 904 900 00 907 910 00 | T10098 | 911 400 01 | 911 400 00 911 990 00 |
| 12-174 | 903 220 00 | 903 200 00 | 09912-38310 | 904 010 356 | 904 010 35 904 900 00 | T10100 | 904 010 33 | 904 010 34 911 990 00 |
| 12-178 | 903 280 00 | 903 280 00 | 09912-46310 | 904 019 00 | 904 019 00 904 900 00 907 910 00 | T10110 | 911 021 50 | 911 021 50 911 970 00 911 980 00 |
| 12-184 | 904 010 68 | 904 010 60 | 09912-46510 | 905 100 30 R2 = 905 500 | 905 250 00 905 100 00 905 500 00 | T10115 | 911 027 35 | 911 027 00 911 980 00 |
| 18G 1376 | 911 000 00 | 911 000 00 | 09912-57810 | 911 000 00 | 911 000 00 | T10171A | 911 025 15 | 911 025 00 911 980 00 |
| 18G 1521 | 911 760 00 | 911 760 00 | 09917-68610 | 904 019 20 | 904 019 00 904 900 00 | T10120 | 911 500 20 | 911 500 00 911 990 00 |
| 18G 1522 | 904 010 61 | 904 010 60 | 09919-08310 | 904 010 350 | 904 010 35 904 900 00 | T10121 | 911 500 30 | 911 500 00 911 990 00 |
| 18G 1549 | 904 010 67 | 904 010 60 | 09919-56550 | 905 700 50 N2 | 905 800 00 905 700 00 905 951 00 | T10123 | 911 500 10 | 911 500 00 911 990 00 |
| 18G 1552 | 911 000 00 | 911 000 00 | 09919-58310 | 904 010 354 | 904 010 35 904 900 00 | T10134 | 911 320 00 | 911 320 00 |
| 18G 1570 | 904 010 50 | 904 010 60 | 09919-58320 | 904 010 358 | 904 010 35 904 900 00 | T10170 | 907 020 00 | 907 020 00 911 980 00 |
| 18G 1580 | 904 050 02 | 904 010 60 | 09919-76530 | 905 250 50+ (-30)+(+40)+ (-42)+(+43) | 905 250 00 | T10171 | 911 025 15 | 911 025 00 911 970 00 911 980 00 |
| 18G 1632 | 905 700 06 W8 | 904 010 60 905 700 00 905 800 00 905 951 00 | 09944-36011 | 905 700 30 B1 | 905 800 00 905 951 00 | T10172 | 911 760 00 | 911 760 00 |
| 18G 1671 | 904 050 04 | 904 010 60 904 051 00 | OUT0000141 | 905 700 50 N2 | 905 800 00 905 700 00 905 951 00 | T10193 | 911 350 30 | 911 350 00 |
| 18G 1717 | 904 010 62 | 904 010 60 904 051 00 | OUT0000151 | 905 600 04 T4 | 905 800 00 905 700 00 905 951 00 | T10194 | 911 370 20 | 911 370 00 |
| 18G 1719 | 904 010 63 | 904 010 60 904 051 00 904 010 70 | OUT0000160 | 905 700 06 W8 | 905 800 00 905 700 00 905 951 00 | T10195 | 911 370 10 | 911 370 00 |
| 303 986 | 904 010 81 | 904 010 80 | | | | T10199 | 911 350 20 | 911 350 00 |
| 4507-TA | 905 600 08 W6 | 904 010 60 905 600 00 905 700 00 905 951 00 | | | | T10199/1 | 911 350 10 | 911 350 10 |
| 4507-TJ | 905 600 10 10 K8 | 904 010 60 905 600 00 905 951 00 | | | | T10210 | 911 355 00 | 911 355 00 |
| 4507-TL | 905 700 60 D6 | 905 700 00 905 951 00 | | | | T10221 | 911 360 10 | 911 360 00 |
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| LRT12-208 | 904 010 87 | 904 010 80 | | | | T10264 | 904 010 38 | 904 010 38 911 340 00 |
| LRT12-232 | 904 010 88 | 904 010 80 | | | | T10265 | 911 400 20 | 904 010 34 911 430 00 911 990 00 |
| SAAB | | | | | | T10340 | 911 025 17 | 911 025 00 911 530 00 911 970 00 911 980 00 |
| 32 025 008 | 904 015 20 | 904 015 00 | MP-1-300 | 911 022 00 | 911 022 00 911 000 00 911 990 00 | T10341 | 911 025 18 | 911 025 00 911 970 00 911 980 00 |
| 32 025 009 | 904 015 30 | 904 015 00 | MP-1-301 | 911 400 10 | 904 010 34 911 400 00 911 990 00 | T10352 | 911 008 20 | 911 008 00 911 006 00 911 980 00 |
| 83 94 983 | 904 017 00 | 904 017 00 | MP-1-302 | 915 500 00 | 915 500 00 911 990 00 | T10352/1 | 911 008 25 | 911 008 00 911 006 00 911 980 00 |
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| 83 95 386 | 904 018 10 | 904 018 00 | T10020 | 915 500 00 | 911 027 00 911 980 00 | T10490 | 911 420 10 | 911 420 00 |
| 83 95 394 | 904 018 20 +904 018 30 | 904 018 00 | T10025 | 911 450 00 | 911 450 00 | T10492 | 911 420 20 | 911 420 00 |
| 87 92 335 | 904 015 12 | 904 015 00 | T10050 | 904 010 31 | 904 010 34 911 990 00 | T20038 | 911 400 01 | 911 400 00 911 990 00 |
| KM-800-1 | 904 010 04 | 904 010 00 904 016 00 | T10051 | 911 410 10 | 911 410 00 911 430 00 | T20044 | 911 029 20 | 911 029 00 911 980 00 |
| KM-800-2 | 904 010 03 | 904 010 00 904 016 00 | T10052 | 911 410 20 | 911 410 00 911 430 00 | T20046 | 906 200 70 | 911 029 00 911 980 00 |
| KM-800-10 | 904 016 20 | 904 016 00 | T10060(A) | 911 400 25 | 911 027 00 904 010 34 911 430 00 | | | |
| KM-800-20 | 904 016 10 | 904 016 00 | T10068 | 911 013 00 | 911 013 00 | | | |
| KM-800-30 | 904 016 08 | 904 016 00 | | | | | | |



SUBSTITUTION OF TOOL FACTORY DEFAULT

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Factory No. No. HP No. Set HP

| | | |
|----------|------------|--|
| T20102 | 911 400 10 | 904 010 34 911 300 00 911 400 00 911 990 00 |
| T20167 | 911 400 25 | 904 010 34 911 027 00 911 990 00 911 980 00 |
| T30004 | 911 780 00 | 911 780 00 |
| T30052 | 911 023 20 | 911 023 00 911 990 00 911 009 00 911 310 00 |
| T30065 | 911 019 00 | 911 019 00 |
| T30094 | 911 023 10 | 911 023 00 911 990 00 |
| T40001 | 911 600 00 | 911 600 00 |
| T40011 | 906 200 70 | 911 008 00 911 025 00 911 029 00 911 970 00 911 980 00 |
| T40005 | 911 017 00 | 911 017 00 |
| T40026 | 911 012 70 | 911 012 00 |
| T40028 | 911 012 50 | 911 012 50 |
| T40030 | 911 012 30 | 911 023 00 |
| T40046 | 911 009 20 | 911 009 00 |
| T40047 | 911 009 10 | 911 009 00 |
| T40049 | 911 310 30 | 911 310 00 |
| T40058 | 911 310 40 | 911 310 00 911 980 00 |
| T40060 | 911 310 50 | 911 310 00 |
| T40061 | 911 310 10 | 911 310 00 |
| T40062 | 911 310 20 | 911 310 00 |
| T40069 | 911 010 15 | 911 010 00 911 980 00 |
| T40070 | 911 010 00 | 911 010 00 911 980 00 |
| T40094 | 911 394 00 | 911 390 00 |
| T40095 | 911 395 00 | 911 390 00 |
| T40096 | 911 396 00 | 911 390 00 911 397 00 |
| T40096/1 | 911 396 00 | 911 390 00 |
| T40196 | 911 008 40 | 911 007 00 911 006 00 911 980 00 |
| T40243 | 911 008 50 | 911 007 00 911 006 00 911 980 00 |
| T40271 | 911 008 30 | 911 007 00 911 006 00 911 980 00 |
| T50009 | 911 470 10 | 911 470 00 |
| U-20003 | 911 030 01 | 911 000 00 911 990 00 |
| U-20006 | 911 022 00 | 911 022 00 911 000 00 911 990 00 911 470 00 |
| U-30009 | 915 500 00 | 915 500 00 911 990 00 |
| U-30009A | 915 500 00 | 915 500 00 911 990 00 |
| U-40021 | 911 022 00 | 911 022 00 911 000 00 911 990 00 911 470 00 |
| U-40074 | 911 400 10 | 904 010 34 911 400 00 911 990 00 |
| V159 | 915 500 00 | 915 500 00 911 990 00 |
| VAG2064 | 911 030 01 | 911 000 00 911 990 00 911 470 00 |
| VAG2065A | 911 022 00 | 911 000 00 911 990 00 |
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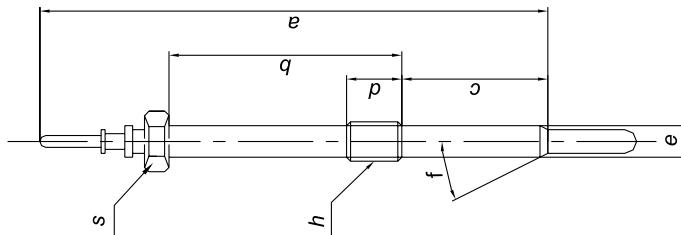
Factory No. No. HP No. Set HP

| | | |
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| VAG3242 | 911 023 20 | 911 023 00 911 990 00 911 310 00 |
| VAG3243 | 911 018 00 | 911 018 00 |
| VAG3248 (A) | 911 450 00 | 911 450 00 |
| VAG3268 | 911 014 00 | 911 014 00 |
| VAG3313 | 911 000 00 | 911 000 00 |
| VAG3341 | 911 015 00 | 911 015 00 |
| VAG3355 | 911 460 00 | 911 460 00 |
| VAG3359 | 911 400 10 | 904 010 34 911 400 00 911 990 00 911 310 00 |
| VAG3366 | 911 029 20 | 911 029 00 911 027 00 911 980 00 |
| VAG3369 | 911 023 30 | 911 023 00 911 990 00 |
| VAG3387 | 911 015 00 | 911 015 00 |
| VAG3391 | 911 019 00 | 911 019 00 |
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| VAG3418 | 911 022 00 | 911 022 00 911 000 00 911 990 00 911 470 00 |
| VAG3445 | 911 380 20 | 911 380 00 |
| VAG3447 | 911 380 10 | 911 380 00 |
| VAG3458 | 911 023 10 | 911 023 00 911 990 00 |
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| 303-1054 | 911 027 35 | 911 027 00 911 980 00 |

VOLVO

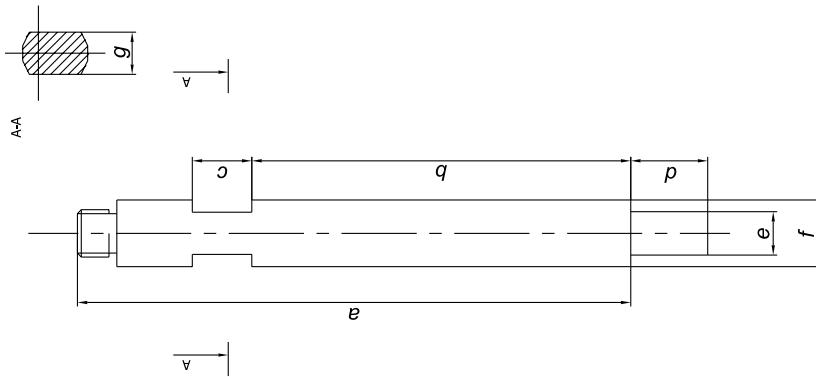
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| 999-5194-9 | 911 000 00 | 911 000 00 |
| 999-5199 | 911 750 00 | 911 750 00 |
| 999-5433 | 905 600 15 | 906 500 15 906 500 00 |
| 999-5451 | 905 200 20 | 905 200 00 |
| 999-5452 | 905 200 10 | 905 200 00 |
| 999-5555 | 905 500 10 | 905 500 00 |
| 999-5611 | 905 300 20 | 905 300 00 |
| 999-5612 | 905 300 10 | 905 300 00 |
| 999-5648 | 911 000 00 | 911 000 00 |
| 999-5649 | 911 460 00 | 911 460 00 |
| 999-7119 | 906 180 01 + +999-7120 | 906 201 00 906 180 06 |
| 999-7121 | 906 200 10 F6 | 906 201 00 906 601 00 905 800 00 905 951 00 |
| 999-7122 | 906 200 20 F7 | 906 201 00 906 601 00 905 800 00 905 951 00 |
| 999-7169 | 906 200 30 F8 | 906 201 00 906 601 00 905 800 00 905 951 00 |
| 999-7151 | 906 120 00 | 906 300 00 906 601 00 |
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| 999-7201 | 906 300 30 FN | 906 300 00 906 601 00 |
| 999-7233 | 906 200 10 | 906 201 00 906 601 00 |
| 9997257 | 906 700 10 | 906 700 00 |
| 9997261 | 906 700 20 | 906 700 00 |
| 9997263 | 906 700 30 | 906 700 00 |
| 9997264 | 906 700 40 | 906 700 00 |
| 9997266 | 906 700 50 | 906 700 00 |
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| 9997272 | 906 700 70 | 906 700 00 |

Świeca żarowa



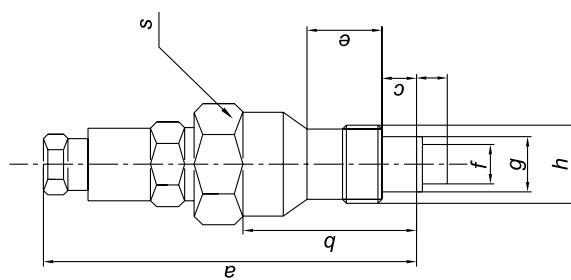
a - *b* - *c* - *d* - *e* - Ø *f* - *h* - *gwinth* *s* - *6-kat*

Wtryskiwacz mocowany na jarzmo



..... - e
..... - q
..... - c
..... - P
..... Ø - e
..... Ø - Ø
..... - G

Wtryskiwacz mocowany na gwint



a - *b* - *c* - *d* - *e* - *f* - Ø *g* - Ø *h* - *gwin* *s* - 6-*kaf*