Guarantee and products insurance: all our products are covered by a liability insurance against accidents to people or things extended by a major European company, for 516,457 Euro. All our products are guaranteed against manufacturing defects for one year.

Images and specifications included in charts may be subjected to changes without prior notice.
Our company starts in the late '60 with the production of a special tool used to compress and dismount engine valves resorts: this tool, with the necessary modification, is manufactured until present time and forms part of the Govoni Company logo.

In few years, the line was implemented with the production of special tools for automotive business, several times, under specification of the customers, big European buying groups and vehicle manufacturers.

Nowadays our range covers several coil spring compressor workstations, special tools and devices for valves, glow plugs, brakes, repairing and engine setting. Our aim is to reach always new markets, placing our products. We work constantly on R&D field in order to study, realize and improve new items accordingly to market demands.

We all work according to the Quality System UNI EN ISO 9001-2008 with the goal to satisfy our customer needs that represent our primary source and well-being. For that reason all GOVONI production runs follow procedures aimed to guarantee the total control and supervision of the production. This policy allows to monitor the production from the arrival of raw material to the packaging and the delivery of the finished product to our customers.
Nowadays Quality System has become essential and vital for all the companies to compete against competitors. For that reason all GOVONI production runs follow procedures aimed to guarantee the total control and supervision of the production. This policy allows to monitor the production from the arrival of raw material to the packaging and the delivery of the finished product to our customers.

Our aim is to reach always new markets, placing our products. We work constantly on the research and development field in order to study, realize and improve new items accordingly to the market’s demands.

All GOVONI staff works in accordance to the Quality System with the goal to satisfy our customers' needs that represent our primary source and well-being.

The warehouses of raw material, semimanufactured and finished product are constantly replenished by the production department. Thanks to this management and well organized production we can grant brief delivery times satisfying our customer needs.
By restyling the web, Govoni aims to grant a better service to its customers; the new website is attractive and user-friendly to facilitate the search for information, the download of technical documentation and the consultation of our online catalogue.

The section about NEWS is constantly updated in order to keep our customers always updated on new products, informative news and more.

By our website the user can require the study and the realisation of new products that we will be pleased to realize following our customer needs.
ENGINE

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Timing tools

FIAT GROUP

Kit/Tools suitable for timing
25 pieces set for gasoline timing engines.

- 1.4 => 3.0

Kit/Tools suitable for timing

310 008 000

Kit/Tools suitable for timing
Complete set for timing on Alfa Romeo petrol engines 1.4 - 1.6 - 2.0 l.

- 100A-100S (2º & 3º cylinder):
  Alfa 147/156 1600 16v
  Alfa 145/146 1400 & 1600
  Alfa 155 1600 16v - with and without phase variator

- 105A-105S (2º & 3º cylinder):
  Alfa 156 2000 16v
  Spider & Gtv 156 TS 2000
  155 TS 1800

Engine codes
- 162.01, 321.02, 321.03, 321.04, 322.01, 323.01, 323.10, 335.03 341.03, 671.06, 672.04 e 676.01,

Kit/Tools suitable for timing

310 119 000

Kit/Tools suitable for timing
Complete set for timing on Alfa Romeo 1.6 eco 105 Hp petrol engines.

- 130A-130S (2º & 3º cylinder):
  Alfa 147 ECO 105 cv.

Engine codes
- 372.03

Kit/Tools suitable for timing

310 010 000
FIAT GROUP

Kit/Tools suitable for timing

Timing kit for Lancia, 3.0 liters V6 24v gasoline engines.

- 30A-30S (1st aspiration right & 1st exhaust right cylinder)
- 31A-31S (6th aspiration left & 4th exhaust left cylinder)

Alfa 155 3.0 V6 Engine
Alfa 164 3.0 V6 Engine
Alfa 166 3.0 V6 Engine
Alfa GTV 3.0 V6 Engine
Alfa Spider

Engine codes
- 161.05, 343.01, 663.03, 643.05, 064.10, 643.01, 064.12

Kit/Tools suitable for timing 310 012 000

Kit/Tools suitable for timing

Complete set for timing on Alfa Romeo 2.0 JTS 165 hp.

- 150A-150S (2nd & 3rd cylinder)

Alfa GT/156 2.0 JTS

Engine codes
- 937A1.000, 932A2.000

Kit/Tools suitable for timing 310 127 000

Kit/Tools suitable for timing

Timing tools for Fiat 2.4 gasoline engines: Stilo Thesys.

- Fiat: Stilo, Thesys.

Engine
- 2.4 20V 170 cv

Engine codes
- 192A2.000

Kit/Tools suitable for timing 310 027 000
Timing tools

FIAT GROUP

Kit/Tools suitable for timing

Set of tools for crankshaft timing on new 1.9-2.4 JTD MJ 140 Hp - 175 Hp, Alfa, Fiat, Lancia engines. TO BE USED with code 310153001.

- Alfa: 145, 146, 147, 156, 19 JTD 16V, 156 2.4 JTD 20V, 166 2.4 JTD 20V, GT 2.4 JTD 20V.
- Fiat: Punto, Grande Punto, Bravo/Brava Marea, Weekend, Stilo, Doblo/Cargo, Multipla 19 JTD 16V.
- Lancia: Lybra 19 JTD 16V, Lybra 2.4 JTD 20V, Thesys 2.4 JTD 20V.
- Opel: Vectra, Zafira, Astra, Insignia, Signum 1.9 CDI

Engine

- 1.6 Multijet, 1.9 JTD, 1.9 Multijet, 2.4 JTD, 1.9 CDTI, 2.0 Multijet

Engine codes

- 323.02, 371.01, 182B4.000, 182B9.000, 186A6.000, 188A2.000, 188A7.000, 188B2.000, 192A1.000, 192A3.000, 937A2.000, 939A1.000, 192A5.000, 192B1.000, 198A5.000, 937A5.000, 939A2.000, 325.01, 342.02, 362.02, 185A6.000, 841C.000, 841G.000, 939A3.000, 940A3.000, 940A4.000, 940A5.000, 219DT/DTH/DTR/DTL/DTL

Kit/Tools suitable for timing

Set of tools for crankshaft and camshaft timing on new 1.3, 1.6, 1.9, 2.4 MJ 140-175 hp Alfa-Fiat-Lancia, Opel, Suzuki engines.

- Alfa: 145, 146, 147, 156, 159, 166, GT, Crosswagon Q4
- Lancia: Ypsilon, Musa, Lybra, Thesys
- Opel: Corsa, Agila, Meriva, Combo Tour, Astra, Zafira, Vectra
- Suzuki: Ignis, Swift, Wagon R+

Engine

- 1.3 Multijet 16V, 1.3 Multijet CDTI, 1.3 DDiS 16V, 1.9-2.4 JTD Multijet, 1.3 CDTI, 1.9 CDI, 1.9 DDiS, 1.6D MJ, 2.0D MJ.

Engine codes

- 188A9.000, 188A8.000, 188A9.000, 188A9.000, 188A9.000, 199A2.000, 199A3.000, 199A2.000, 219DT/DTH, 219DT, 198A2.000, 198A3.000, 198A6.000, 323.02, 325.01, 342.02, 937A2.000, 192A5.000, 192B1.000, 937A4.000, 937A5.000, 937A4.000, 937A5.000, 182 A7000, 182 B4.000, 188 A2.000, 188 A3.000, 192 A1.000, 192 A3.000, 188 B2.000, 188 B2.000, 160 A 7000, 182 A8.000, 198A5.000
FIAT GROUP

Kit/Tools suitable for timing

Kit (4 pcs) for Fiat Punto 1.2 and 1.4 16V.

- Fiat: Punto, Bravo, Brava, Marea, Palio Weekend, Stilo
- Engine: 1.2 16V, 1.4 16V
- Engine codes: 176B9.000, 182B2.000, 188A5.000, 843A1.000

Kit/Tools suitable for timing  
310 006 000

Kit/Tools suitable for timing

Timing kit for 1.6 16v gasoline engines mounted on Fiat vehicles.

- Fiat: Bravo, Brava, Marea, Palio Weekend, Stilo, Multipla.
- Engine: 1.6 16V, Bipower, Blupower
- Engine codes: 178B3.000, 182A4.000, 182A6.000, 182B6.000, 186A4.000, 186A3.000.

Kit/Tools suitable for timing  
310 015 000

Kit/Tools suitable for timing

Special timing tool for new Fiat Panda 1.2 gasoline engines.

- Fiat: Punto, New Punto, New Panda
- Engine: 1.2 8v.
- Engine codes: 188 A4.000

Kit/Tools suitable for timing  
313 165 000
Timing tools

FIAT GROUP

Kit/Tools suitable for timing

Set of tools for camshaft and crankshaft timing on Fiat Ducato 2.3 JTD diesel engines

- Fiat: Ducato, Iveco, Daily
- Engine: 2.3 JTD, 3.0 JTD
- Engine codes: F1AE0481C, F1CE0481D, F1AE0481A, F1AE0481B, F1CE0481A

Kit/Tools suitable for timing

Timing set for new Fiat 1.2 8v, 1.4 8v Fire Evo 2 petrol engines.

- Lancia: Ypsilon, Musa
- Ford: Ka
- Engine: 1.2 8v, 1.4 Fire Evo 2, 1.4 16v. 95 CV. Starjet, 1.4 16v. 100 CV. Starjet, 1.4 16v. 90 CV. Starjet, 1.4 16v. 120 CV. T-Jet, 1.4 16v. 150 CV. T-Jet
- Engine codes: 350A1.000, 169A4.000, 199A4.000

Kit/Tools suitable for timing

Set of tools for crankshaft and camshaft timing on new 1.3 Multijet 16V. Fiat, Lancia, Opel, Suzuki engines.

- Fiat: Punto, Panda, Idea, Doblo, Doblo Cargo, Stilo
- Lancia: Ypsilon, Musa
- Opel: Corsa, Agila, Meriva, Combo Tour
- Suzuki: Ignis, Swift, Vagon R
- Ford: Ka
- Engine: 1.3 Multijet, 1.3 CDTi, 1.3 DDiS
- Engine codes: 188A8.000, 188A9.000, 199B1.000, 199B2.000, 199A2.000, 199A3.000, 169 A1.000, 199A9.000, 223A9.000, Z13DT/DTJ/DTH
FIAT GROUP

Kit/Tools suitable for timing

Complete timing kit suitable for FIAT Petrol 2.2 16v Twin Cams engines (Chain)

- Fiat: Croma

- Engine
  - 2.2 16v bialbero

- Engine codes
  - 194A1.000, Z22SE, Z22YH

Kit/Tools suitable for timing

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
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<tr>
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<td>310 160 000</td>
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Tools for dismounting

Tools for dismounting timing variator on Fiat, Alfa, Lancia engines.

Tools for dismounting

<table>
<thead>
<tr>
<th>Item</th>
<th>Code</th>
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<tbody>
<tr>
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<td>313 023 000</td>
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Belt tensioner

Universal belt tensioner.

- Ø 5 mm
- Ø 6 mm
- Ø 8 mm

Belt tensioner

<table>
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<th>Item</th>
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<tr>
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<td>313 036 000</td>
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</table>
FIAT GROUP

Kit/Tools suitable for timing

Timing kit for commercial vehicles mounting 2.2-2.3-3.0 MJ engines.

- Fiat: new Ducato, Iveco Daily
- Ford: Transit Van
- Peugeot: Boxer
- Citroën: Jumper

Engine
- 2.2 JTD, 2.3 JTD, 3.0 JTD

Engine codes

Kit/Tools suitable for timing

310 125 000

Kit/Tools suitable for timing

Timing kit for 1.2-1.4-1.6 liters Fiat petrol engines.

- Fiat: Punto, Bravo, Brava, Marea, Palio, Palio Weekend, Stilo, Multipla.

Engine
- 1.2 16v, 1.4 12v, 1.4 16v, 1.6 16v

Engine codes
- 17689.000, 18282.000, 188A5.000, 8 43A1.000, 178B3.000, 182A4.000, 182A6.000, 182B6.000.

Kit/Tools suitable for timing

310 131 000
Kit/Tools suitable for timing

Timing kit suitable for Fiat & Alfa 1.4 MultiAir petrol engines.

- Alfa Romeo MiTo, Alfa Romeo MiTo Quadrifoglio Verde
  - 1.4 Multi Air 16v 105cv, 1.4 Multi Air Turbo 16v 135cv e 170cv
- Alfa Romeo Giulietta
  - 1.4 Multi Air Turbo 16v 170cv.
- Fiat Punto Evo
  - 1.4 Multi Air Start e Stop 16v 105cv, 1.4 Multi Air Turbo 16v Start e Stop 135cv.
- Fiat Bravo
  - 1.4 Multi Air Turbo 16v 140cv.
- Fiat Abarth Punto Evo
  - 1.4 Multi Air Turbo 16v 165cv
- Fiat 500
  - 1.4 Multi Air 16v 102cv

Engine codes:
- 955A6.000, 955A2.000, 955A7.000, 940A2.000, 955A8.000

Kit/Tools suitable for timing

Adaptable timing kit for Fiat 0.9 TwinAir engine.

- Fiat: 500, Panda, Punto (2012)
  - Lancia: Ypsilon
- Engine: 0.9 TwinAir Turbo

Engine codes:
- 312A2.000
## FIAT GROUP

### Kit/Tools suitable for timing

Complete timing kit suitable for Fiat 1.8 16V petrol engines

- **Fiat**: Punto, Punto Classic, Barchetta, Stilo
- **Engine**: 1.8 16V (130 cv), 1.8 16V (133 cv)
- **Engine codes**: 183A6.000, 188A6.000, 192A4.000

<table>
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<tr>
<th>Kit/Tools suitable for timing</th>
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### Belt tensioner

Special belt-stretcher suitable for Fiat Punto petrol engines.

- **Fiat**: Punto

<table>
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<tr>
<th>Belt tensioner</th>
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### Flywheel locking tool

Flywheel locking tool for Fiat D, TD, JTD engines.

- **Fiat**: D, TD, JTD

<table>
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<tr>
<th>Flywheel locking tool</th>
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</table>

### Belt tensioner

Special belt-stretcher suitable for new Fiat: Panda 1.2.

- **Fiat**: Punto, New Punto, New Panda
- **Engine**: 1.2 8v.
- **Engine codes**: 188 A4.000

<table>
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<tr>
<th>Belt tensioner</th>
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</table>
FIAT GROUP

Pressure plate pin extractor
Extractor for drive shaft on bearing stop clutch.

- Fiat: Ducato

Pressure plate pin extractor 318 003 000

Tool for removing axle
Tool for removing axle shaft on Fiat Punto models.

- Fiat: Punto

Tool for removing axle 383 001 000

Flywheel locking tool
Flywheel locking tool for Petrol & Diesel engines TO BE USED with code 310074000.

- Fiat: Punto, New Punto, New Panda

- Benzina 1.8
- Diesel 1.6, 1.9, 2.0, 2.4

Flywheel locking tool 310 153 001

Spring compression tool
Spring compression tool for Multiair electro-hydraulic valve control.

- Its usage is strictly recommended during replacing operations and maintenance of the Uniair system
- Engine
  - 1.4 Multi Air e Multi Air Turbo
- Engine codes
  - 955A6.000, 955A2.000, 955A7000, 940A2.000, 955A8.000

Spring compression tool 315 029 000
FIAT GROUP

Kit/Tools suitable for timing

Complete set of timing tools suitable for diesel and petrol engines.

- Lancia/Fiat: Phedra/Ulisse, Scudo
  - Engine: 2.0 16 V
  - Engine codes: EV10 (RFN)

- Volvo: S40 / V50
  - Engine: 1.6 D
  - Engine codes: D4164T

- Ford: Fiesta, Fusion, Focus, Focus C-Max
  - Engine: 1.4-1.6 Duratorq TDCi
  - Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ), F6cA, F6cB, F6eC, G6DA, G6DB

- Citroen: Xsara, C2, C3, C4, C5, C8 Evasion
  - Engine: 1.4-1.6 Hdi, 1.6 Duratorq TDCi, 1.6 D, 1.8 2.0 EV
  - Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ), F6eA, F6eB, F6eC, G6DA, G6DB, EW7J4(6FZ), EV10J4 (RFN/RFR), EV10J4S(RFK), EW10-Cvi (Rlz), EW12 (3FZ), D4164T.

Kit/Tools suitable for timing

Complete set of timing tools suitable for diesel engines.

- Fiat: Ulysse, Scudo, Ducato (riferimento JTD, MultiJet)
- Citroen: Xsara, Xsara Picasso, C2, C3, C4, C5, C8, Xantia, Evasion, Evasion Synergie, Berlingo, Dispatch, Dispatch Jumpy, Relay, Relay Jumper
- Volvo: S40 / V50
- Ford: Focus, Focus C-Max, Fiesta, Fusion

- Engine
  - 1.4, 1.6, 2.0, 2.0 D, 2.0 TDCi, 2.2 Hdi, 1.4 Hdi, 1.6 Hdi, 1.6 Duratorq TDCi, 1.6 D, 1.9, 1.5, 2.5

- Engine codes
  - DV4TD(8HW/8HX/8HZ), DV4TED4(8HW/8HY), DV6TED4(9HX/9HY/9HZ), DW10TD(RHY), DW10ATED/L3/L4 (RHS/RHW/RHZ), DW10BTED4 LB(RHR/RHX), DW12ATED(4HW/4HX), DW12UTEDA(4HY), D4204T/2, G6DA, G6DB, G6DC (per fase Ford necessario attrezzo 313 143 000).

Kit/Tools suitable for timing

310 115 000

310 185 000
**FIAT GROUP**

**Kit/Tools suitable for timing**

Complete set of timing tools suitable for diesel and petrol engines.

- **Fiat:** Ulisse  
  - Engine: 2.0 JTD  
  - Engine codes: DW10 (RHZ)

- **Ford:** Fiesta, Fusion, Focus, Focus C-Max  
  - Engine: 1.4 - 1.6 Duratorq TDCi  
  - Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY), DW6ATED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, G8DA, G8DB

- **Citroën/Peugeot:** Xsara, C2, C3, C4, C5, C8 Evasion, Berlingo, Xsara, Xsara/Picasso, Xantia, Evasion, C5  
  - Engine: 1.4 - 1.6 Hdi, 1.6 2.0 EW, 1.9 D, 2.0 Hdi, 2.2 Hdi, 1.8 16v., 2.0 16v.  
  - Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY), DW6A TED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, G8DA, G8DB, EVV7J4 (6FZ), EVV10J4 (RFN/RFR) EVV10J4S (RFK), EVV10CVi (RL2), EVV12 (3FZ), DW8 (WJ2), DW10 (8HY/8HZ), DW12 (4H0), EWV7J4 (6FZ), EWV10J4 (RFR), EWV10J4D (RL2), CVi

**Kit/Tools suitable for timing**  
310 123 000
Timing tools

**BMW**

**Kit/Tools suitable for timing**

Complete timing kit suitable for BMW Petrol- Diesel engines.

- **Petrol engines**: M40 and M43
  - Models: 316i, 318i, 518i; M40 Belt Drive; 316i (E36/E46), 316i Compact (E36) - 16 4E 2; 16 4E 3; 318i (E36), 518i (E34) - 18 4E 2; 316i (E46), 318i (E46), Z3 1.9i - 19 4E 1

- **Petrol engines**: M42, M50, M52 belt
  - Models: 318i/S3 (E30), 318i/S Coupe (E36), 318 i/S Comp (E36), Z3 1.9i - 18 4S 1, 19 4S 1; 320i (E36), 325i (E36)/20 6S 1, 25 6S 1, 25 6S 2; 320i (E36), 325i (E36)/20 6S 1, 25 6S 1 (Vanos), 320i (E36), 323i/Compact (E36), 328i (E36) - 20 6S 1, 25 6S 3, 28 6S 1 (Vanos), 320i (E34), 525i (E34) - 20 6S 2, 25 6S 1, 25 6S 2, 520i (E34), 525i (E34) - 20 6S 2, 25 6S 1, 25 6S 2 (Vanos); 520i (E39), 523i (E39), 528i (E39) - 20 6S 3, 25 6S 3, 26 6S 1 (Vanos); 728i (E38), Z3 2.8i - 28 6S 1 (Vanos)

- **Diesel engines**: M47 e M57
  - Models: 318d (E46), 318d Compact (E46), 320d, 320d Compact (E46) - 20 4D 1, 20 4D 4; 330d (E46) - 30 6D 1; 525d (E39), 525d (E60/E61), 530d (E39), 530d (E60/E61) - 30 6D 1, 30 6D 4; 535d (E60/E61) - 35 6D 4; 730d (E38), X5 3.0d (E53) - 30 6D 1

- **Diesel engines**: M41 e M51
  - Models: 318d/s (E36), 318d/s Compact (E36) - 17 4T 1; 325d/s/ds (E36), 525d/ds (E34/E39), 725ds (E38) - 25 6T 1

**Kit/Tools suitable for timing**

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**Petrol Engine Twin Vanos Service Tool Kit** - BMW M52TU, M54 & M56.

TO BE USED with code 310 011 000.

- 3 Series (E46), 5 Series (E39/E61), 7 Series (E38/E65/E66), Z3 (E36), Z4 (E85), X3 (E83), X5 (E53)

- Models: E36 (320i, 320Ci, E36/7 Z3 2.0i); E46 (320i, 320Ci); E39 (520i, E36 3-Serie, E39 5-Serie, E36 323i, 323i, E39 323i); Z3 2.5i; E46 323i/323Ci (M52T1, E39 323i (M52TU), E36/7 Z3 (M52TU), E36 328i, E39 528i (E38 728i/728i1); E36/7 Z3 2.8; E46 328i/328Ci; E36/7/8 Z3 2.8, E39 528i, E38 728i

- Models: 320i, 320Ci (E46, 320i, 320Ci, 320i/60/61, Z3 2.2i); Z4 2.2i, 325i (E60/61, 325i/325xi (E46, 325 Ci E60/61, Z3 2.5i, Z4 2.5i, 325i) E39, 525i/525xi (E60/61), X3 2.5i (E83, 330i/330xi (E46, 330 Ci E46, Z3 3.0i, Z4 3.0i, 530i E39, 530i E60/61, 730i E65/E66, X3 3.0i (E83, X5 3.0i E53

**Engine codes**

- 20 6S 4, 22 6 S1, 25 6 S4, 28 6 S2, 30 6 S3

**Kit/Tools suitable for timing**

| 310 145 000 |
**BMW**

**Kit/Tools suitable for timing**

**BMW diesel and petrol timing kit.**

- Studied to place correctly camshaft and crankshaft during the replacement of belts.

- Engine: M40 (belt), M43 (chain), M42, M44, M50 e M52 (chain)

- Models: 318tds/Compact (E36), 318iS (E30), 318iS Coupé Compact (E36), 318ti Compact (E36), 320i, 323i, 325i, 328i (E36), 520i (E34/E39), 523i (E39), 525i (E34), 528i (E39), 728i (E38) e Z3 1.9/2.8 i (89-98)

- BMW petrol engines: 316i/Compact (E30 1.6/E36/E46), 318i E30 E36 E46 S18i [E34 VANOS], e Z3 1.8/1.9i (88-04)

- BMW petrol SOHC: 316i/Compact (E30 1.6/E36/E46), 318i E30 E36 E46 S18i [E34 VANOS], e Z3 1.8/1.9i (88-04)

- BMW diesel: 325td/tds (E36), 525td/tds (E34/E39), 725tds (E38) [91-03]

- Rover: Diesel 2.5 td/tds

- Range Rover: (94-02), 2.5 td/tds

- Opel - Vauxhall: Omega 2.5 tds

**Kit/Tools suitable for timing**

**310 011 000**

**Kit/Tools suitable for timing**

**Timing set for BMW 320d, 330d, 530d, 730d diesel engines.**

- BMW: 320d, 330d (E46), 520d, 530d (E39) [98-04], 730d (E38)

- Land Rover: Freelander (Td4)

- MG Rover: 75 2.0 CDT/CDTi (99-04-04)

- Engine: M47, M57 (chain), M47R

- Engine codes: 30 6D 2, 30 6D 1, 20 4D 1

**Kit/Tools suitable for timing**

**310 061 000**
BMW

Kit/Tools suitable for timing

- Land Rover: 2.5 Diesel
- Engine
  - M40 [belt], M43 [chain]
- Engine codes
  - 16 4E 2, 16 4E 3, 18 4E 2, 19 4E 1

Kit/Tools suitable for timing 310 121 000

Pulley puller

Puller for injection pump pulley suitable for BMW engines.
- Included: centering bush, M 40x1.5 mm and M 42x1.5 mm.
- M47 (only the puller)
  - M47TU (puller & centering bush)
  - M57 (puller & centering bush)
  - M57TU (puller & centering bush)
- During injection pump removal operations use always the centering bushes combined with the puller.

Pulley puller 313 155 000

Pulley puller

Puller for injection pump pulley suitable for BMW engines.
- BMW: M41 (4 cylinders diesel engine), M51 (6 cylinders diesel engine)

Pulley puller 313 202 000
Kit/Tools suitable for timing

Complete set for timing suitable for BMW 1.8 - 2.0 N42 & N46 (chain) petrol engines.

- BMW: 118i - 120i, 316i - 318i, 316Ti - 318 Ti, 320, Z4, X3
- Engine:
  - 1.8, 2.0
- Engine codes:
  - N42 B18, N46 B20, N46 B20B, N46T B20, N46 B18, N42 B18A

Kit/Tools suitable for timing

Kit/Tools suitable for timing

Complete set for timing suitable for BMW 1.6 N40, N45 e N45T.

- BMW: 116i (E81/E87), 316i (E46/E90), 316Ci (E46), 316ti (E46).
- Engine:
  - 1.6
- Engine codes:
  - N40 B16A, N45T B16, N45 B16 A, N45 B16 AC

Kit/Tools suitable for timing

Kit/Tools suitable for timing

Complete timing kit suitable for BMW 2.0 Diesel engines.

- BMW: 118d, E81/B7 (06-09) 120d, E81/B2/B7 (06-09) 123d, E81/B2/B7 (07-09) 318d, E90/91 (07-09) 320d, E90/91/92 (05-09) 520d, E60/61 (06-08) X3 2.0d, E83 (07-09)
- Engine:
  - N47 e N47S
- Engine codes:
  - N47 D20A, N47 D20B, N47S D20A, N47S D20B

Kit/Tools suitable for timing
**BMW**

### Timing plate

Timing plate suitable for BMW 2.0, 2.2, 2.5, 2.8, 3.0, 4.4, 4.8 petrol engines double Vanos.

**TO BE USED with code 310 145 000.**

- **Engine**
  - M 50, M 52 TU, M 54
- **Engine codes**

**Timing plate**

### Damper lock

Vibration damper hub locking tool suitable for BMW petrol engines (chain).

- It is recommended the usage of this tools for fixing crankshaft pulley when releasing / tightening central bolt.
- **Models:**
  - **BMW**
    - Engine: 1.6, 1.8, 2.0, 2.5, 3.0
  - **BMW:**
    - Models: R56 Mini One, R55/R56 MINI Cooper/Cooper S
    - Engine: 1.4, 1.6
    - Engine codes: N12 B14AB, N12 B16A
  - Citroën: C4, C4 Picasso
  - Peugeot: 207, 207 CC, 308

**Damper lock**

### Injection pump puller

Puller for injection pump. **TO BE USED with code 310 206 000.**

- Centering bush for extracting injection pump. To be used alone.
- **BMW:** Serie 1, 3, 5, X1, X3
- **Engine**
  - a chain engine 2.0 D - N47, N47S

**Injection pump puller**
MINI

Kit/Tools suitable for timing

Complete timing kit suitable for MINI - PSA 1.4-1.6 16v N12 & N14.

- Mini One (R56), Mini Cooper (R55/R56), Mini Cooper S (R55/R56)
- Citroen: C3, C4, C4 Picasso
- Peugeot 207, Peugeot 308

Engine
- 1.4 - 1.6

Engine codes
- Mini: N12 B14AB, N12 B16A, N14 B16A
- Citroen: 8FR (EP3), 5FS (EP6)
- Peugeot: EP3 (8FS), EP6 (5FW)

Kit/Tools suitable for timing 310 156 000
Timing tools

**FORD**

**Kit/Tools suitable for timing**

Special petrol and diesel timing set, suitable for Ford Zetec & Duratec, D&T engines.

- Ford: Fiesta, Fusion, Courier, Escort, Focus, Puma, Mondeo, Transit, Connect and Cougar (91-04)
- Mazda: 121 petrol
- Volvo: S40, V50 petrol

**Engine**
- 1.2, 1.4, 1.6, 1.6 16v., 1.7 16v. belt, 1.8 D, 1.8 TD, 1.8 & 2.0 16v. belt and chain

**Petrol engine codes**
- FJJA, FJJB, FJJC, FJJD, FJJE, FJJK, FJJK, FJJD, FYJA, FYJB, FYJC, FYJD, FYJE, FYJK, FJJA, M7JA, M7JB, DHA, DHB, DHC, DHD, DHE, DIF, DIF, FPA, FPA, FPA, ITL, ITL, ITL, ITL, ITL, ITL, LDA, RDA, RDB, RKC, RKB, RKC, FXDA/C, FXDB/D, FXDA/C, FYDB/D, FYDB/D, FYDA/C, FYDA/C, FYDA/C, HWDA

**Diesel engine codes**
- RFN, RTJ, RTK, RVA, RFK, RKD

**Kit/Tools suitable for timing** 310 004 000

**Complete set of timing tools suitable for petrol engines and diesel.**

- Ford: Fiesta, Fusion, Courier, Escort, Focus, Puma, Mondeo, Sierra, Transit, Connect & Cougar, Courier, Courier Kombi, Galaxy
- VW: Sharan
- Seat: Alhambra
- Volvo: S40, V50 petrol, 1.8 D, 1.8 TD, 240D, 740D, 760D, 940D, 960D Turbo
- Mazda: 121

**Engine**
- 1.2, 1.4, 1.6, 1.6 16v., 1.7 16v. belt, 1.8 & 2.0 16v. belt and chain,
- 1.4, 1.6 16v. Focus & Mazda 121

**Petrol engines**
- 1.2, 1.4, 1.6, 1.6 16v., 1.7 16v. belt, 1.8 & 2.0 16v. belt and chain,
- 1.4, 1.6 16v. Focus & Mazda 121

**Diesel engines**
- 1.8D, 1.8TD (BB-00), 1.8Di (belt) (98-04), 1.8Tdi belt (01-04), 1.6D, 1.9TDi, 2.5D/TDC (belt)

**Engine codes**
- FJJA, FJJB, FJJC, FJJD, FJJE, FJJK, FJJK, FJJD, FYJA, FYJB, FYJC, FYJD, FYJE, FYJK, FJJA, M7JA, M7JB, DHA, DHB, DHC, DHD, DHE, DIF, DIF, FPA, FPA, FPA, ITL, ITL, ITL, ITL, ITL, ITL, LDA, RDA, RDB, RKC, RKB, RKC, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDA/C, FYDA/C, HWDA, TZ, AJY, AHU, AVG, AFN, D24, D24, D24T, RFN, RTJ, RTK, RVA, RFK, RKD, B4146S3, 4EB, 4EC, 4ED, 4FB, 4GA, 4HB, EAB, RFN, C9DC, FYDA.
**FORD**

**Kit/Tools suitable for timing**

Complete set of tools suitable for Ford petrol engines (complete with wrench pulley tool code 313 031 000).

- **Ford:** Fiesta, Focus, Puma, Escort, Mondeo
- **Mazda:** 121, 2, 3, 5, 6, MX-5, MPV, Tribute
- **Volvo:** S40, V50 benzina

**Engine**

- 1.2, 1.4, 1.6, 1.7 16v. belt, 1.8 & 2.0 16v. belt and chain, 1.4, 1.6 16v. Focus & Mazda 121

**Engine codes**

- FUJA, FUJB, FXJA, FXJB, FYJA, FYJB, F8JA, F8JB, F8JV, M7JA, M7JB, DHA, DHB, DHC, DHD, DHE, DHEF, DHG, FHA, FHD, FHE, FHEF, LIT, LIV, LIE, LIF, MHA, LIG, LIH, LIK, LIVV, RDA, RDB, RKC, RQB, RQG, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDH, HWDA, HWDB,

**Kit/Tools suitable for timing** 310 109 000

**Kit/Tools suitable for timing**

Complete set for timing suitable on Ford engines diesel: 2.0, 2.2, 2.4 Duratorq TDCI 16v.

- **Ford:** Focus C-Max, S-Max, Mondeo, Transit, New Galaxy.

**Engine**

- 2.0, 2.2, 2.4 Duratorq TDCI 16v

**Engine codes**

- FMBA/B, DSBA, ABFA, D3FA, D6BA, HJBA/B, F3FA, D2FA, D4FA, F4FA, FIFA, DOFA, QBA, QJB, QJC, QJD, FXFA, H9FA, N7BA, N7BB.

**Kit/Tools suitable for timing** 310 114 000
Timing tools

FORD

Kit/Tools suitable for timing

Complete set of tools for camshaft and crankshaft timing on diesel engines.

- Ford: Focus, Focus C/Max
- Engine: 2.0 TDCI
- Engine codes: G6DA, G6DB, G6DC
  (for Ford you will also need code 313 143 000)
- Volvo: S40 / V50.
- Engine: 2.0 D
  Engine codes: D4204T/2

Kit/Tools suitable for timing 310 063 000

Locking tool

Twin camshafts locking tool. TO BE USED with codes 310176000 and 310 109 000.

- Ford

Locking tool 313 190 000

Kit/Tools suitable for timing

Complete set of timing tools suitable for petrol and diesel engines

- Ford: Fiesta, Fusion, Focus, Focus C/Max
  Engine: 1.4-1.6 Duratorq TDCi
  Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY),
  DV6ATED4 (9HX/9HY/9HZ), F6JA, F6JB, F6JC, G8DA, G8DB§
- Lancia/Fiat: Phedra/ULisse, Scudo
  Engine: 2.0 16 V
  Engine codes: EW10 (RFN)
- Volvo: S40 / V50
  Engine: 1.6 D
  Engine codes: D4164T
- Citroen: Xsara, C2, C3, C4, C5, CB Evasion
  Engine: 1.4-1.6 HDi, 1.6 Duratorq TDCi, 1.6 D, 1.8/2.0 HDi
  Engine codes: DV4TD (8HV/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4
  (9HX/9HY/9HZ), F6JA, F6JB, F6JC, G8DA, G8DB, EV7J46F2, EV10J4
  (RFN/RFR), EW10J4S(RFK), EW10-CVi (RFZ), EW12 (3FZ), D4164T.

Kit/Tools suitable for timing 310 115 000
Kit/Tools suitable for timing

Complete set of timing tools suitable for petrol and diesel engines.

- Ford: Fiesta, Fusion, Courier, Escort, Focus, Focus C Max, Puma, Mondeo, Sierra, Transit, Connect e Cougar, Courier, Courier Kombi, Galaxy
- VW: Sharan
- Seat: Alhambra
- Mazda: 121
- Volvo: S40, V50 petrol, 1.8 D, 1.8 TD, 240D, 740D, 760D, 940D, 960D Turbo

Petrol engines:
- 1.2, 1.4, 1.6, 1.6 16v, 1.7 16V belt, 1.8 & .016V belt and chain, 1.4, 1.6 16V Focus & Mazda 121.

Diesel engines:
- 1.6 Duratorq TDCi, 1.8D, 1.8TD (88-00), 1.8Di (belt) (08-04), 1.8TDCi (belt) (01-04), 1.6D,1.9TDi, 2.5D/TCi (belt), 1.9TDi, 2.5D/TCi (belt)

Engine codes

Kit/Tools suitable for timing

Set complete with puller, pulley locker and timing tool.

- Used to lock the flywheel for maintaining the crankshaft in the right timing position.
- Covers a wide range of FORD applications on several petrol engines.

- Ford: Fiesta, Focus, CMax, Mondeo, Fusion

Engine
- 1.25, 1.4, 1.6 Ti-VCT, 1.6 SCTi Ecoboost, 1.6 16V

Engine codes

Kit/Tools suitable for timing
Timing tools

**FORD**

Kit/Tools suitable for timing

Timing kit for commercial vehicles mounting 2.2-2.3-3.0 MJ engines.

- **Engine**: 2.2 JTD, 2.3 JTD, 3.0 JTD

Kit/Tools suitable for timing  
310 125 000

Kit/Tools suitable for timing

Complete set of tools suitable for diesel engines.

- **Engine**: 1.4, 1.6, 2.0, 2.0 D, 2.0 TDCI, 2.2 Hdi, 1.4 Hdi, 1.6 Hdi, 1.6 Duratorq TDCI, 1.6 D, 1.9, 1.5, 2.5

Kit/Tools suitable for timing  
310 185 000
### Ford

#### Belt Tensioner
Ford Mondeo 2.0 TDCi belt tensioner.

<table>
<thead>
<tr>
<th>Belt Tensioner</th>
<th>313 187 000</th>
</tr>
</thead>
</table>

#### Flywheel Locking Tool
Tool for locking flywheel Ford engines.

<table>
<thead>
<tr>
<th>Flywheel Locking Tool</th>
<th>313 143 000</th>
</tr>
</thead>
</table>

#### Locking Tool
Special pulley locking tool specific for FORD engines.

<table>
<thead>
<tr>
<th>Locking Tool</th>
<th>313 031 000</th>
</tr>
</thead>
</table>
Timing tools

**GM - OPEL - CHEVROLET - VAUXHALL**

**Kit/Tools suitable for timing**

Complete kit to place correctly the camshaft during the timing belt replacement.

- **Opel**: Vauxhall, Astra, Astravan, Zafira, Vectra, Omega, Sintra, Frontera, Signum
- **2.0 e 2.2 DTi**
- **Saab**: 9-3, 9-5 (98-04)
- **2.2 DTi**

**Engine codes**
- **Opel**: X20DTL, X20DTH, X22DTH, Y20DTL, Y20DTH, Y22DTH, Y22DTR
- **Saab**: D223L

**Kit/Tools suitable for timing**

| 310 013 001 |

**Kit/Tools suitable for timing**

Timing tools for Opel petrol engines.

- **Opel**: Corsa, Agila, Astra, Meriva
- **Suzuki**: Wagon R+

**Engine**
- 1.0 12v., 1.0 16v., 1.2 16v., 1.4 16v. (chain).

**Engine codes**
- X10XE, Z10XE, Z10XEP, X12XE, Z12XE, Z14XEP, Z12XEP, Z14XEL.

**Kit/Tools suitable for timing**

| 310 019 000 |

**Kit/Tools suitable for timing**

Timing kit suitable for 1.4 to 2.2 16v EcoTec Twin.
Cams petrol engines mounted on Opel/Vauxhall vehicles.

- **Opel**: Corsa B e C, Combo, Tigra, Tigra B, Meriva, Astra F,G e H, Speedster/VX220, Zafira A e B, Vectra B e C, Signum, Omega B, Sintra, Frontera A e B.

**Engine**
- 1.4 16v, 1.6 16v, 1.8 16v, 2.0 16v, 2.2 16v.

**Engine codes**
- X14XE, Z14XE, X16SEJ, X16XE, X16XEL, Y16XE, Z16XE, Z16XNG, C18XEL, X18XE, X18XEL, Z18XE, Z18XEL, C20SEL, C20XE, X20XE, Z20LEH, Z20lei, Z20iER, Z20iET, X22SE, X22XE, Y22SE, Y22XE, Z22XE.
GM - OPEL - CHEVROLET - VAUXHALL

Kit/Tools suitable for timing

Timing kit for petrol and diesel engines.
Used to place correctly the camshaft during the timing belt replacement.

- **Opel:** Corsa, Agila, Meriva, Vauxhall, Astra, Astavan, Zafira, Vectra, Omega, Sintra, Frontera, Signum.
  - 1.0 12v., 1.0 16v., 1.2 16v., 1.4 16v. (chain), 2.0 e 2.2 Di.
- **Saab:** 9-3, 9-5 (98-04)
- **2.2 Di con codice: D223L**

Engine codes
- X10XE, Z10XE, Z10XEP, X12XE, Z12XE, Z14XEP, X20DTI, X20DTH, X22DTH, Y20DTI, Y20DTH, Y22DTH, Y22DTR.

Kit/Tools suitable for timing

Set of tools for crankshaft and camshaft timing on new 1.3, 1.6, 1.9, 2.4 MJ 140-175 hp Alfa-Fiat-Lancia, Opel, Suzuki engines.

- **Opel:** Corsa, Agila, Meriva, Combo Tour, Astra, Zafira, Vectra
- **Alfa:** 145, 146, 147, 156, 159, 166, GF, Crosswagon Q4
- **Fiat:** Punto, Grande Punto, Bravo/Brava, Marea, Weekend, Stilo, Doblo/Cargo, Multipla, Idea, Panda.
- **Lancia:** Ypsilon, Musa, Lybra, Theys
- **Suzuki:** Ignis, Swift, Wagon R+

Engine
- 1.3 MultiJet 16V, 1.3 MultiJet CDTI, 1.3 DDIS 16V, 1.9-2.4 JTD MultiJet, 1.3 CDTI, 1.9 CDTI, 1.9 DDIS, 1.6D MJ, 2.0D MJ.

Engine codes
- 188A9.000, 188A8.000, 188A9.000, 188A0.000, 188A9.000, 199A2.000, 199A3.000, 199A2.000, Z19DTH, Z13DT, 198A2.000, 198A3.000, 198A6.000, 323.02, 325.01, 342.02, 937A2.000, 192A5.000, 192B1.000, 937A4.000, 937A5.000, 182 A7000, 182 A8000, 188 A3.000, 192 A1.000, 192 A3.000, 188 B2.000, 188 B2.000, 160 A7.000, 182 A8.000.

Kit/Tools suitable for timing

310 078 000

Kit/Tools suitable for timing

310 107 000
Timing tools

GM - OPEL - CHEVROLET - VAUXHALL

Kit/Tools suitable for timing

Complete timing kit suitable for diesel engines.

- **Opel:** Vauxhall
  - Engine: 2.0 CDTi (chain)
  - Engine codes: M9R 780, 782, 784
- **Renault:** Megane (07-08), Scenic (08-), Laguna (05-08), Vel Satis (08-), Espace (08-), Koleos (08-), Trafic (07-08)
  - Engine: 2.0 dCi (chain)
  - Engine codes: 700, 722, 724, 740, 742, 446, 760, 761, 780, 802, 803, 805, 830, 832, 833
- **Nissan:** Qashqai (08-), X-Trail (07-08), Primastar (08-)
  - Engine: 2.0 dCi (chain)
  - Engine codes: M9R 780, 830, 832, 833

**Kit/Tools suitable for timing** 310 138 000

Kit/Tools suitable for timing

Complete set of timing tools suitable for crankshaft and camshaft locking on new diesel engines.

- New updated version complete with flywheel and crankshaft locking tools.
- **Opel:** Vivaro, Vauxhall
  - Engine: 2.0 CDTi (chain)
  - Engine codes: M9R 780, 782, 784
- **Renault:** Megane, Scenic, Laguna, Vel Satis, Espace, Koleos, Trafic.
  - Engine: 2.0 dCi (chain)
  - Engine codes: 700, 722, 724, 740, 742, 446, 760, 780, 802, 803, 805, 830, 832, 833
- **Nissan:** Qashqai, X-Trail, Primastar.
  - Engine: 2.0 dCi (chain)
  - Engine codes: M9R 780, 830, 832, 833

**Kit/Tools suitable for timing** 310 157 000

Locking pin

Flywheel locking pin suitable for Opel. TO BE USED with codes 310107000 and 310075000.

- **Engine**
  - 1.3 CDTi

**Locking pin** 313 194 000
Kit/Tools suitable for timing

Complete kit to place correctly the camshaft during the timing belt replacement, suitable for petrol and diesel engines.

- Opel: Corsa, Agila, Meriva, Astra, Astravan, Kadett, Ascona, Zafira, Vectra, Omega, Sintra, Frontera, Monterey, Midi, Signum, Zafira
- SAAB: 9-3, 9-5

- OPEL petrol engine: 1.0 12v, 1.0 16v, 1.2 - 1.4 16v (chain), 1.4 - 1.6 - 1.8 16v (belt), 1.6 - 1.8 - 2.0 Turbo, 2.0 - 2.2 16v
- OPEL diesel engine: 1.5D, 1.5TD, 1.7D, 1.7TD, 2.0-2.2 16v, 2.0-2.2 4TD, 2.0-2.2 Di.
- SAAB diesel engine: 2.2 Di

- Petrol engine codes:
  X10XE, Z10XE, Z10XEP, X12XE, Z12XE, TWIN CAMS, Z14XEP, X14XE, X16XEL, X16SE, X18E1, X18XE1, Y16XE, Z14XE, Z16XE, Z18XE, Z18XEL TWIN CAMS, X16SZR, Z16SE, X18XE, C20SE, X20XE, X22XE, Y22XE, Z22XE, Z20LET TWIN CAMS

- Engine codes diesel:
  4EC1/T, 4EC1, 4EE1/T, 4EE1, X17DT, Y17D1, Y17D1, Y17D1, 16DA, 17D, 17DR/X, 7D1, X17D1, 4X1/4, JG2T,4FC1/T, 4FD1, X20D1, X20DTH, X22DTH, Y20D1, Y20DTH, Y22DTH, Y22DTR.

Kit/Tools suitable for timing

- Engine codes SAAB: D223L

Kit/Tools suitable for timing

Complete set of timing tools suitable for crankshaft and camshaft locking on GM, Opel, Chevrolet 2.0.

- Opel: Antara
- Chevrolet e Daewoo: Epica, Captiva, Nubira, Lacetti, Evanda

- Engine
  2.0 TDCI
  2.0 D VCDI

- Engine codes
  Z20DTH, Z20DM, RA420, Z20SI

Kit/Tools suitable for timing
### GM - OPEL - CHEVROLET - VAUXHALL

#### Kit/Tools suitable for timing

**Complete set of timing tools suitable for crankshaft and camshaft locking on GM, Opel, Chevrolet 2.0.**

- New updated version that includes flywheel and crankshaft locking tools.
- **Opel:** Antara
- **Chevrolet and Daewoo:** Epica, Captiva, Nubira, Lacetti, Evanda

**Engine:**
- 2.0 TDci
- 2.0 D VCDI

**Engine codes:**
- Z20DMH, Z20DM, RA420, Z22SE, Z22YH

**Kit/Tools suitable for timing**

<table>
<thead>
<tr>
<th>Code</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>310 158 000</td>
<td></td>
<td>Complete set of timing tools suitable for crankshaft and camshaft locking on GM, Opel, Chevrolet 2.0.</td>
</tr>
</tbody>
</table>

#### Kit/Tools suitable for timing

**Timing kit suitable for Opel 1.6, 1.8 Petrol Twinport 16v. (Belt) engines.**

- **Opel:** Corsa-D, Agila, Astra-G/H, Meriva, Zafira-B, Vectra-C, Signum, Insignia
  - Fiat: Croma
  - Alfa Romeo: 159

**Engine:**
- 1.6 16v, 1.8 16v.

**Engine codes:**
- Z16XEP, Z16XE1, Z16LET, Z16LER, Z18XER, A18XER/2H0
- Fiat/Alfa Romeo: 939A4.000

**Kit/Tools suitable for timing**

<table>
<thead>
<tr>
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<tr>
<td>310 150 000</td>
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<td>Timing kit suitable for Opel 1.6, 1.8 Petrol Twinport 16v. (Belt) engines.</td>
</tr>
</tbody>
</table>

#### Kit/Tools suitable for timing

**Complete timing kit suitable for FIAT Petrol 2.2 16v. Twin Cams engines (Chain).**

- **Opel:** Astra-G, Astra-H, Speedster/VX220, Vectra-B+C, Signum, Zafira-A+B
- **Fiat:** Croma

**Engine:**
- 2.2 16v bialbero

**Engine codes:**
- 94A1.000, Z22SE, Z22YH

**Kit/Tools suitable for timing**

<table>
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<td>Complete timing kit suitable for FIAT Petrol 2.2 16v. Twin Cams engines (Chain).</td>
</tr>
</tbody>
</table>

#### Kit/Tools suitable for timing

**Complete timing kit suitable for FIAT Petrol 2.2 16v. Twin Cams engines (Chain).**

- **Opel:** Astra-G, Astra-H, Speedster/VX220, Vectra-B+C, Signum, Zafira-A+B
- **Fiat:** Croma

**Engine:**
- 2.2 16v bialbero

**Engine codes:**
- 94A1.000, Z22SE, Z22YH

**Kit/Tools suitable for timing**

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<td>Complete timing kit suitable for FIAT Petrol 2.2 16v. Twin Cams engines (Chain).</td>
</tr>
</tbody>
</table>

#### Kit/Tools suitable for timing

**Complete set of timing tools suitable for crankshaft and camshaft locking on GM, Opel, Chevrolet 2.0.**

- New updated version that includes flywheel and crankshaft locking tools.
- **Opel:** Antara
- **Chevrolet and Daewoo:** Epica, Captiva, Nubira, Lacetti, Evanda

**Engine:**
- 2.0 TDci
- 2.0 D VCDI

**Engine codes:**
- Z20DMH, Z20DM, RA420, Z20S1

**Kit/Tools suitable for timing**

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#### Kit/Tools suitable for timing

**Timing kit suitable for Opel 1.6, 1.8 Petrol Twinport 16v. (Belt) engines.**

- **Opel:** Corsa-D, Agila, Astra-G/H, Meriva, Zafira-B, Vectra-C, Signum, Insignia
  - Fiat: Croma
  - Alfa Romeo: 159

**Engine:**
- 1.6 16v, 1.8 16v.

**Engine codes:**
- Z16XEP, Z16XE1, Z16LET, Z16LER, Z18XER, A18XER/2H0
- Fiat/Alfa Romeo: 939A4.000

**Kit/Tools suitable for timing**

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</tbody>
</table>
MAZDA

Kit/Tools suitable for timing

Complete set of tools suitable for Ford petrol engines (complete with wrench pulley tool code 313 031 000).

- Ford: Fiesta, Focus, Puma, Escort, Mondeo
- Mazda: 121, 2, 3, 5, 6, MX-5, MPV, Tribute
- Volvo: S40, VS0 benzina

Engine
- 1.2, 1.4, 1.6, 1.7 16v. belt, 1.8 & 2.0 16v. belt and chain, 1.4, 1.6 16v. Focus & Mazda 121

Engine codes

Kit/Tools suitable for timing 310 109 000

Kit/Tools suitable for timing

Complete set of timing tools suitable for petrol and diesel engines.

- Mazda: 121
- Ford: Fiesta, Fusion, Courier, Escort, Focus, Focus C Max, Puma, Mondeo, Sierra, Transit, Connect e Cougar, Courier, Courier Kombi, Galaxy
- VW: Sharan
- Seat: Alhambra
- Volvo: S40, VS0 petrol, 1.8 D, 1.8 TD, 240D, 740D, 760D, 940D, 960D Turbo

Petrol engines
- 1.2, 1.4, 1.6, 1.6 16v., 1.7 16v. belt, 1.8 & 0.16v. belt and chain, 1.4, 1.6 16v. Focus & Mazda 121.

Diesel engines:
- 1.6 Duratorq TDCi, 1.8D, 1.8TD [8B-00], 1.8D (belt) [98-04], 1.8TDi belt [01-04], 1.6D, 1.9TDi, 2.5D/TCi (belt), 1.9TDi, 2.5D/TCi (belt)

Engine codes

Kit/Tools suitable for timing 310 134 001
Timing tools

**PEUGEOT - CITROËN**

**Kit/Tools suitable for timing**

Complete set of tools suitable for diesel engines.

- Citroën: Xsara, Xsara Picasso, C2, C3, C4, C5, C8, Xantia, Evasion, Evasion Synergie, Berlingo, Dispatch, Dispatch Jumpy, Relay, Relay Jumper
- Ford: Focus, Focus C-Max, Fiesta, Fusion
- Fiat: Ulysse, Scudo, Ducato [ref. JTD, MJ]
- Volvo: S40 / V50

**Engine**

- 1.4, 1.6, 2.0, 2.0 D, 2.0 TDCi, 2.2 Hdi, 1.4 Hdi, 1.6 Hdi, 1.6 Duratorq TDCi, 1.6 D, 1.9, 1.5, 2.5

**Engine codes**

- DV4TD(RH/HW/RHK/RHZ), DV4TED4(HHY/RHY), DV6TED4(9HY/9HZ), DV10TD(RHY), DV10ATED/L3/L4, (RHS/RHW/RHZ), DW10ATED4 1B(RHR/RHZ), DW10UTD(RHN), DW12ATED4(HHY), D4204T/1, G6DA, G6DB, G6DC (for Ford you will also need code 313 143 000)

Kit/Tools suitable for timing  310 185 000

**Kit/Tools suitable for timing**

Complete set of tools suitable for Peugeot petrol engines.

- Citroën: C5, AX, AX, Saxo, C15, BX, ZX, Berlingo, Xsara Picasso, Visa, Xantia, XM, Synergie, Relay, Relay Jumper, Evasion, Synergie, Dispatch, Jumpy, C8

**Engine**

- 1.0, 1.1, 1.4, 1.6, 1.6 16v, 1.6 GTi, 1.6 18v, 1.8, 1.8 16v, 1.9, 2.0, 2.0 16v, 2.0 T, 2.0 HPR, 2.2 16v

**Engine codes**


Kit/Tools suitable for timing  310 186 000
Specialty Automotive Tools

PEUGEOT - CITROËN

Kit/Tools suitable for timing

Complete set of tools suitable for PSA petrol and diesel engines.

- Citroen: Xsara, Xsara Picasso, C2, C3, C4, C5, Xantia, Evasion, Evasion Synergie, Berlingo, Dispatch, Dispatch Jumpy, Relay, Relay Jumper
- Fiat: Ulysse, Scudo, Ducato (JTD)

Motore benzina
- 1.4, 1.6, 1.8 16v, 2.0, 2.0 16v
- 2.0 D, 2.2 HDi

Engine codes
- EV7J4(FZ), EW10J4(FFR), EW10J4D(RLZ), EW10J4(RFR), EV7J4(6FZ), EW10J4(RFR), EW10J4D(RLZ), DW4T(8HW/8HX/8HZ), DW4TED4(8HV/8HY), DW6TED6(9HX/9HY/9HZ), DW10TED6(9HY/9HZ), DW10TED6(3L4, JRS, RHV/8HZ), DW10TED6/B/RH/H/8X, DW10UTD(3L, RH, DW12ATED)(4HV/4HY), DW12UTD(4HY, D4204T/2

Kit/Tools suitable for timing

310 099 000

Kit/Tools suitable for timing

Complete set of tools suitable for petrol and diesel engines.

- Citroen: Xsara, C2, C3, C4, C5, CB Evasion
- Engine: 1.4-1.6 Hdi, 1.6 Duratorq TDCi, 1.6 D, 1.62 0. EV
- Engine codes: DW4TED(8HW/8HX/8HZ), DW4TED4(8HV/8HY), DW6ATED4(9HX/9HY/9HZ), F6J4, F6J6, F6J8, F6JC, G8DA, G8DB, EV7J4(6FZ), EV10J4(5FR, EW10J4D(5RFR), EW10J4/D(5RFR), EW10J4D(5RFR), EV10J4(5FR), EV10J4D(5RFR), EW10J4D(5RFR), EW10J4D(5RFR), EW12(3FZ), D4164T.

- Lancia/Fiat: Phedra/Ulisse, Scudo
- Engine: 2.0 16 V
- Engine codes: EV10(5FR)

- Volvo: S40 / V50
- Engine: 1.6 D
- Engine codes: D4164T

- Ford: Fiesta, Fusion, Focus, Focus C/Max
- Engine: 1.4-1.6 Duratorq TDCi
- Engine codes: DW4TED(8HW/8HX/8HZ), DW4TED4(8HV/8HY), DW6ATED4(9HX/9HY/9HZ), F6J4, F6J6, F6J8, F6JC, G8DA, G8DB

Kit/Tools suitable for timing

310 115 000

Kit/Tools suitable for timing

310 099 000
**PEUGEOT - CITROËN**

Kit/Tools suitable for timing

Complete set of tools suitable for petrol and diesel engines.

- Citroën-Peugeot: Xsara, C2, C3, C4, C5, C8 Evasion, Berlingo, Xsara, Xsara/Picasso, Xantia, Evasion, C5.
- Engine: 1.4 - 1.6 Hdi, 1.8 - 2.0 EV, 1.9 D, 2.0 Hdi, 2.2 HDI, 1.8 - 1.6v, 2.0 16v.
- Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY), DV6A TDE4 (9HX/9HY/9HZ), F6J-A, F6J-B/F6J-C, G8DA/G8DB, EV7J4 (6FZ), EW10J4 (8FN/8FR), EW10J4S (8FR), EV10J4D (R1Z), EV12 (3FZ), DW10 (8JZ), DW10 (8HY/8HZ), DW12 (4JH), EW7J4 (6FZ), EW10J4 (8FR), EW10J4D (R1Z), EV10J4D (R1Z) - CVi
- Fiat: Ulysse
- Engine: 2.0 JTD
- Engine codes: DW10 (8HZ)
- Ford: Fiesta, Fusion, Focus, C-Max
- Engine: 1.4 - 1.6 Duratorq TDCi
- Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4(8HV/8HY), DV6ATED4 (9HX/9HY/9HZ), F6J-A, F6J-B, F6J-C, G8DA, G8DB

**Kit/Tools suitable for timing** 310 123 000

Kit/Tools suitable for timing

Complete timing kit suitable for MINI - PSA 1.4 - 1.6 16v N12 e N14.

- Citroën: C3, C4, C4 Picasso
- Peugeot 207, Peugeot 308
- Mini One (R56), Mini Cooper (R55/R56), Mini Cooper S (R55/R56)
- Engine: 1.4 - 1.6
- Engine codes:
  - Mini: N12 B14AB, N12 B16A, N14 B16A
  - Peugeot: EP3 (8FS), EP6 (5FW)

**Kit/Tools suitable for timing** 310 156 000
Kit/Tools suitable for timing

Kit adaptable for timing the latest PSA models, including 2.7 diesel engines. Adaptable to PSA, Land Rover and Jaguar engines.

- **Citroën:** C6, C5
- **Peugeot:** 407, 607, 407 coupé
- **Land Rover:** Range Rover Sport, Discovery 3, Discovery 4
- **Jaguar:** S-Type, XJ Series

**Engine**
- 2.7 TDV6, 2.7 D, 2.7 HDI

**Engine codes**
- 276DT, 276DT (7B/TG), DT17TED4 (UHZ)

Kit/Tools suitable for timing

Kit/Tools suitable for timing

Timing kit for commercial vehicles mounting 2.2/2.3/3.0 multijet engines.

- **Peugeot:** Boxer
- **Citroën:** Jumper
- **Fiat:** nuovo Ducato, Iveco Daily
- **Ford:** Transit Van

**Engine**
- 2.2 JTD, 2.3 JTD, 3.0 JTD

**Engine codes**
- 4HV, F1AE0481D, F1AE0481N, F1CE0481D, F1CE0481F, F1CE0441F, F1CE0481H, F1AE0481R, F1AE0481G, F1AE0481F, F1AE0481H, P8FA, QVFA, QVFA, P8FB, SRFA, PGFA, PGFB, SRFB, SRFC, SRFD, SRFE, P22DTE (4HV), P22DTE (4HJ), 4HV (P22DTE), 4HJ (P22DTE)

Kit/Tools suitable for timing

Kit/Tools suitable for timing
**Timing tools**

**PEUGEOT - CITROËN**

**Damper lock**

Vibration damper hub locking tool suitable for BMW petrol engines (chain).

- It is recommended the usage of this tools for fixing crankshaft pulley when releasing / tightening central bolt.
- **Citroën:** C4, C4 Picasso
  - **Peugeot:** 207, 207 CC, 308
  - **Models:** BMW
    - **Engine:** 1.6, 1.8, 2.0, 2.5, 3.0
  - **Models:** R56 Mini One, R55/R56 MINI Cooper/Cooper S
    - **Engine:** 1.4, 1.6
    - **Engine codes:** N12 B14AB, N12 B16A
**RENAULT - NISSAN**

### Kit/Tools suitable for timing

**Complete timing set for Renault 16v.**

- **INCLUDED:** Locking plate for the new Renault petrol engines.
- **Renault:** Clio, Clio Sport, Megane, Megane Scenic, Vel Satis, Avantime, Kangoo, Laguna, Espace.
  - **Nissan:** Note, Qashqai.
- **Engine**
  - 1.4, 1.6, 1.8, 2.0 16V.
- **Engine codes**
  - K4J/K4M, F4P/F4R

**Kit/Tools suitable for timing** 310 003 000

### Kit/Tools suitable for timing

**Set of tools for crankshaft timing on Renault 16v gasoline engines + locker for distribution pulleys on 1.4 - 1.6 16v.**

- **INCLUDED:** Locking plate for the new Renault petrol engines.
- **Renault:** Clio, Clio sport, Megane, Scénic, Laguna, Espace.
  - **Nissan:** Note, Qashqai
- **Engine**
  - 1.4 - 1.6 16v, 1.8 16v, 2.0 16v.
- **Engine codes**

**Kit/Tools suitable for timing** 310 073 000

### Kit/Tools suitable for timing

**Complete set for camshaft and crankshaft timing on Renault diesel engines.**

- **Renault:** Laguna, Espace, Master, Clio, Kangoo.
  - **Nissan:** Micra, Interstar, Primastar, Qashqai.
  - **Opel:** Vauxhall
- **Engine**
  - 1.5 dCi, 2.2 dCi, 2.2/2.5 dCi
- **Engine codes**

**Kit/Tools suitable for timing** 310 083 000
**RENAULT - NISSAN**

**Kit/Tools suitable for timing**

Set for crankshaft and camshaft timing on Renault diesel engines.

- Renault: Laguna, Espace, Master.
- Nissan: Interstar, Primastar.
- Opel: Vauxhall

**Engine**

- 2.2 dCi, 2.5 dCi.

**Engine codes**

- G9T710/720, G9U, G9T710/720, G9U, G9U 730, G9T722/750,
- Opel: G9U 720/724/726/750/754.

**Kit/Tools suitable for timing** 310 090 000

**Kit/Tools suitable for timing**

Complete set for crankshaft and camshaft timing on Renault diesel engines.

- Renault: Mégane/Scénic, Laguna, Trafic, Twingo, Clio, Kangoo.
- Nissan: Qashqai, Kubistar, Interstar.
- Volvo: S40 / V40.

**Engine**

- 1.9 TD, 1.9, 1.9 DCi, 1.2, 1.2 16V.

**Engine codes**

- F9Q 732, F9Q 718, F9Q 760, F9Q 732, F9Q 750, F9Q 754,4192T3/4,

**Kit/Tools suitable for timing** 310 091 000

**Kit/Tools suitable for timing**

Set for crankshaft and camshaft timing on Renault diesel engines.

- Renault: Laguna, Espace, Master.
- Nissan: Interstar, Primastar.
- Opel: Vauxhall

**Engine**

- 1.5 dCi.

**Engine codes**


**Kit/Tools suitable for timing** 310 092 000
RENAULT - NISSAN

Kit/Tools suitable for timing

Set for camshaft and crankshaft timing on 1.5 timing on 1.5 diesel and petrol Renault engines

- INCLUDED: Locking plate for the new Renault petrol engines.
- Renault: Clio, Clio Sport, Megane, Megane Scenic, Vel Satis, Avantime, Kangoo, Laguna, Espace.
- Nissan: Micra, Note, Qashqai.
- Engine
  - 1.4, 1.5 dCi, 1.6, 1.8, 2.0 16v.
- Engine codes

Kit/Tools suitable for timing 310 096 000

Kit/Tools suitable for timing

Complete set of tools suitable for timing, crankshaft locking, camshaft and pulleys locking on diesel engines.

- Renault: Clio, Kangoo, Laguna, Espace, Master, Megane/Scénic, Trafic
- Nissan: Kubistar, Interstar, Qashqai.
- Opel: Vivaro, Movano
- Suzuki: Gran Vitara
- Engine
  - 1.5 dCi, 1.9 TD, 1.9, 19 dCi, 2.2dCi, 2.5dCi.
- Engine codes

Kit/Tools suitable for timing 310 101 000

Kit/Tools suitable for timing

Complete set of tools suitable for timing, crankshaft locking, camshaft and pulleys locking on diesel and petrol engines.

- INCLUDED: Locking plate for the new Renault petrol engines.
- Renault: Clio, Clio Sport, Megane, Master, Megane Scenic, Vel Satis, Avantime, Kangoo, Laguna, Espace, Trafic.
- Engine
  - 1.2, 1.4, 1.5 dCi, 1.6, 1.6D, 1.7, 1.8, 1.8 16v, 1.9 TD, 1.9, 19 dCi, 2.0 16v, 2.1TD, 2.2 dCi, 2.2TD, 2.5 dCi, 2.5 TD, 2.8 D.
- Engine codes

Kit/Tools suitable for timing 310 108 000
**RENAULT - NISSAN**

**Kit/Tools suitable for timing**

Complete set for Renault petrol and diesel engines.

- **INCLUDED:** Locking plate for the new Renault petrol engines.
- **Renault:** Clio, Clio Sport, Megane, Master, Mégane Scenic, Vel Satis, Avantime, Kangoo, Laguna, Espace, Trafic.
- **Petrol and Engine codes**
  1.2 (D7F), 1.4 (E5F, E6F, E7F e E7J), 1.6 (K7M), 1.7-1.8 (F1N, F2N, F3N, F2R, F3R), 2.0 (F3R), 2.0-2.2 (J5T, J6R, J7R, J7T)
- **Twin Cams and Engine codes**
  1.4 16V, 1.8 2.0 (F7P, F7R), 2.0-2.5 (N7Q, N7U)
- **Diesel and Engine codes**
  1.6 19 TD/ TD (F8M, F8Q, F9Q), 2.1 TD (J8S), 2.2 TD/ TD (G8T), 2.5 TD/ TD (S8U, S9U, S9W)

**Kit/Tools suitable for timing**

Complete set of tools suitable for timing: crankshaft and camshaft locking on new Renault 1.8, 2.0 petrol engines.

- **Renault:** Megane (99-03), Laguna 2 (01-05).
- **Engine**
  1.8, 2.0 16V, IDE - 5FR (belt).
- **Engine codes**
  F5R, 700, 701, 740.

**Kit/Tools suitable for timing**

Timing kit suitable for petrol engines (Twin Cams).

- **Renault:** Laguna, Safrane.
  Engine: 2.0 16V, 2.5 20V.
  Engine codes: N7Q 704/710/711, N7U 700/701.
- **Volvo:** B50, C70, S40, V40, S60, S70, S80.
  Engine: 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5 Twin Cams.
  Engine codes: B4164S, B4164S2, B4184S, B4184S2, B4184S3, B4184S9, B4184S10, B4194T, B4194T2, B4204S, B4204S2, B4204T, B4204T2, B4204T3, B4204T5, B5204F, B5204F7, B5204F12, B5204F14, B5204F5, B5234FS, B5234FT, B5243FT, B5243FT4, B5243FT5, B5243FT6, B5243FT7, B5243FT8, B5243FT9, B5244S, B5244S2, B5244S5, B5244S5G, B5244S5C2, B5244S1, B5244S4, B5244S4, B5244S5, B5244S7, B5252FS, B5252FT, B5254T2, B5254T4.

**Kit/Tools suitable for timing**

- **Volvo:** B50, C70, S40, V40, S60, S70, S80.
  Engine: 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5 Twin Cams.
  Engine codes: B4164S, B4164S2, B4184S, B4184S2, B4184S3, B4184S9, B4184S10, B4194T, B4194T2, B4204S, B4204S2, B4204T, B4204T2, B4204T3, B4204T5, B5204F, B5204F7, B5204F12, B5204F14, B5204F5, B5234FS, B5234FT, B5243FT, B5243FT4, B5243FT5, B5243FT6, B5243FT7, B5243FT8, B5243FT9, B5244S, B5244S2, B5244S5, B5244S5G, B5244S5C2, B5244S1, B5244S4, B5244S4, B5244S5, B5244S7, B5252FS, B5252FT, B5254T2, B5254T4.
RENAULT - NISSAN

Kit/Tools suitable for timing

Complete timing kit suitable for diesel engines.

- Renault: Megane (07-08), Scenic (08-), Laguna (05-08), Vel Satis (08-), Espace (08-), Koleos (08-), Trafic (07-08).
  - Engine: 2.0 dCi (chain).
  - Engine codes: 700, 722, 724, 740, 742, 446, 760, 761, 780, 802, 803, 805, 830, 832, 833.
- Opel: Vauxhall
  - Engine: 2.0 CDTi (chain).
  - Engine codes: M9R 780, 782, 784
- Nissan: Qashqai (08-), X-Trail (07-08), Primastar (08-)
  - Engine: 2.0 dCi (chain)
  - Engine codes: M9R 780, 830, 832, 833

Kit/Tools suitable for timing

Complete set of timing tools suitable for crankshaft and camshaft locking on new diesel engines.

- New updated version complete with flywheel and crankshaft locking tools.
- Renault: Megane, Scenic, Laguna, Vel Satis, Espace, Koleos, Trafic.
  - Engine: 2.0 dCi (chain).
  - Engine codes: 700, 722, 724, 740, 742, 446, 760, 780, 802, 803, 805, 830, 832, 833.
- Nissan: Qashqai, X-Trail, Primastar.
  - Engine: 2.0 dCi (chain)
  - Engine codes: M9R 780, 830, 832, 833
- Opel: Vivaro, Vauxhall
  - Engine: 2.0 CDTi (chain)
  - Engine codes: M9R 780, 782, 784

Kit/Tools suitable for timing 310 138 000

Locking plate

Camshaft sprocket locking plate for Renault 1.8 & 2.0 T 16v. engines

  - Engine: 1.8 16v & 2.0 T 16v.

Locking plate 313 208 000
**Timing tools**

**RENAULT - NISSAN**

**Kit/Tools suitable for timing**

Complete set of tools suitable for timing: crankshaft and camshaft locking on new Renault 2.0 petrol engines.

- New updated version that includes the flywheel locking tool & crank pulley holding tool for 1.8 & 2.0 T 16 v engines
- Renault Clio, Clio Sport, Megane, Master, Mégane Scenic, Vel Satis, Avantime, Kangoo, Laguna, Espace, Trafic
- Engine: 1.2, 1.4, 1.5 dCi, 1.6, 1.6d, 1.6T, 1.7, 1.8, 1.816v, 1.9 TD, 1.9, 1.9 dCi, 2.0 16v, 2.1 TD, 2.2 dCi, 2.2TD, 2.5dCi, 2.5 TD, 2.8 D

**Kit/Tools suitable for timing**

| Kit/Tools suitable for timing | 310 161 000 |

**Locking plate**

Locking plate for petrol engines.

- Renault
- Engine: 1.4, 1.6, 1.8, 2.0 16v.
- Engine codes: K4M 716/760, 761, 764, 766, 782, 790, 791, 792, 800, 801, 802, 804, 812, 813, K4J 770/780/780

**Locking plate**

| Locking plate | 313 193 000 |

**Kit/Tools suitable for timing**

Kit/Tools suitable for timing della puleggia alberi a camme dei motori.

- Renault: Clio III, Modus, Scenic II, Grand Scenic II, Laguna II, Kangoo
- Engine: 1.4 e 1.6 16 V.
- Engine codes: K4M - 708, 716, 730, 732, 750, 752, 753, 760, 761, 766, 782, 800, 801, 812, 813

**Kit/Tools suitable for timing**

| Kit/Tools suitable for timing | 313 188 004 |
RENAULT - NISSAN

Belt extractor

Belt extractor of airconditioning and auxiliary system.

 Renault
Timing tools

**SUZUKI**

**Kit/Tools suitable for timing**

Set of tools for crankshaft and camshaft timing on new 1.3, 1.6, 1.9, 2.4 MJ 140-175 hp Alfa-Fiat-Lancia, Opel, Suzuki engines.

- **Suzuki**: Ignis, Swift, Wagon R+
- **Alfa**: 145, 146, 147, 156, 159, 166, GT, Crosswagon Q4
- **Fiat**: Punto, Grande Punto, Bravo/Brava, Marea, Weekend, Stilo, Doblo/Cargo, Multipla, Idea, Panda,
- **Lancia**: Ypsilon, Musa, Lybra, Thesys
- **Opel**: Corsa, Agila, Meriva, Combo Tour, Astra, Zafira, Vectra

**Engine**

- 1.3 Multijet 16V, 1.3 Multijet CDTI, 1.3 DDiS 16V, 1.9-2.4 JTD Multijet, 1.3 CDI, 1.9 CDI, 1.9 DDiS, 1.6D MJ, 2.0D MJ.

**Engine codes**

- 188A0.000, 188A8.000, 188A9.000, 188A9.000, 199A2.000, 199A3.000, 199A2.000, Z19DTH, Z13DT, 198A2.000, 198A3.000, 198A4.000, 323.02, 325.01, 342.02, 937A2.000, 192A5.000, 192B1.000, 937A4.000, 937A5.000, 182 A7000, 182 B4.000, 188 A2.000, 188 A3.000, 192 A1.000, 192 A3.000, 188 B2.000, 188 B2.000, 160 A7000, 182 A8.000

**Kit/Tools suitable for timing**

Set of tools for crankshaft and camshaft timing on new 1.3 Multijet 16V Fiat, Lancia, Opel, Suzuki engines

- **Suzuki**: Ignis, Swift, Wagon R+
- **Fiat**: Punto, Panda, Idea, Doblo, Doblo Cargo, Stilo
- **Lancia**: Ypsilon, Musa
- **Opel**: Corsa, Agila, Meriva, Combo Tour
- **Ford**: Ka

**Engine**

- 1.3 Multijet, 1.3 CDI, 1.3 DDiS

**Engine codes**

- 188A8.000, 188A9.000, 199A1.000, 199B2.000, 199A2.000, 199A3.000, 169 A1.000, 199A9.000, 223A9.000, Z13DT/DTH
**VOLVO**

### Kit/Tools suitable for timing

**Timing kit suitable for Petrol Twin Cams engines.**

- **Volvo:** B50, C70, S40, V40, S60, S70, S80
- **Engine:** 1.6, 1.8, 1.9, 2.0, 2.3, 2.4, 2.5 Twin Cams
- **Engine codes:** B4164S, B416452, B4184S, B418452, B4184S3, B418459, B4184510, B4194T, B4194T2, B4204S, B4204S2, B4204T, B4204T2, B4204T3, B4204T5, B5202FS, B5204FT, B5204T2, B5204T3, B5204T4, B5204T5, B5204FS, B5234FT, B5234FT3, B5234T4, B5234T5, B5234T6, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244S5G, B5244S92, B5244T3, B5244T4, B5244T5, B5244T7, B5254S2, B5254T, B5254T2, B5254T4

- **Renault:** Laguna, Safrane
- **Engine:** 2.0 16v., 2.5 20v.
- **Engine codes:** N7Q 704/710/711, N7U 700/701

### Kit/Tools suitable for timing

**Complete set for camshaft and crankshaft timing on Renault diesel engines.**

- **Volvo:** S40 / V40.
- **Renault:** Mégane/Sénic, Laguna, Trafic, Twingo, Clio, Kangoo.
- **Nissan:** Qashqai, Kubistar, Interstar.

- **Engine:** 1.9 TD, 1.9 DCI, 1.2, 1.2 16v.
- **Engine codes:**
**Timing tools**

### VOLVO

**Kit/Tools suitable for timing**

Complete set of tools suitable for diesel engines.

- **Volvo:** S40 / V50
- **Citroën:** Xsara, Xsara Picasso, C2, C3, C4, C5, CB, Xantia, Evasion, Evasion Synergie, Berlingo, Dispatch, Dispatch Jumpy, Relay, Relay Jumper
- **Ford:** Focus, Focus C-Max, Fiesta, Fusion
- **Fiat:** Ulysse, Scudo, Ducato [ref. JTD, MJ]

#### Engine codes

- DV4TD(8HV/8HX/8HZ), DV4TED4(8HV/8HY), DV6TED4(9HX/9HY/9HZ), DV10TD(RHY), DV10ATED/L3/L4, (RHS/RHW/RHZ), DV10T4TD 4L(RHR/RH), DV10T4TD(RHR), DV12ATED4(8HV/4HX), DV12UDR(4HY), D4204T/2, G6DA, G6DB, G6DC [for Ford you will also need code 313 143 000]

#### Kit/Tools suitable for timing

310 185 000

### Kit/Tools suitable for timing

Complete set of timing tools suitable for petrol and diesel engines.

- **Volvo:** S40, V50 petrol, 1.8 D, 1.8 TD, 240D, 740D, 760D, 940D, 960D Turbo
- **Ford:** Fiesta, Fusion, Courier, Escort, Focus, Focus C-Max, Puma, Mondeo, Sierra, Transit, Connect e Cougar, Courier, Courier Kombi, Galaxy
- **VW:** Sharan
- **Seat:** Alhambra
- **Mazda:** 121

#### Petrol engines

- 1.2, 1.4, 1.6, 1.6 16v., 1.7 16V belt, 1.8 & .016V belt and chain, 1.4, 1.6 16V Focus & Mazda 121.

#### Diesel engines:

- 1.6 Duratorq TDCi, 1.8D, 1.8TD (88-00), 1.8Di (belt) (98-04), 1.8TDCi belt (01-04), 1.6 D, 1.9, 1.5, 2.5

#### Engine codes

- DW10TD(RHY), DW10ATED/L3/L4, (RHS/RHW/RHZ), DW10T4TD 4L(RHR/RH), DW10T4TD(RHR), DW12ATED4(8HV/4HX), DV12UDED(4HY), D4204T/2, G6DA, G6DB, G6DC [for Ford you will also need code 313 143 000]

#### Kit/Tools suitable for timing

310 134 001

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**VW - AUDI - SEAT - SKÔDA**

### Kit/Tools suitable for timing

**Timing set for VAG 1.4 & 1.6 16v. petrol engines.**

- **Audi:** A2
- **Seat:** Arosa, Ibiza, Cordoba, Inca, Leon, Toledo
- **Škoda:** Fabia, Octavia
- **VW:** Lupo, Polo, Beetle, Golf, Bora, Caddy

**Engine**
- 1.4 e 1.6 16v. Twin Cams, 1.4 & 1.6 FSI

**Engine codes**
- AFH, AFK, AHW, AJV, AKQ, APE, AQQ, ARC, ARR, ATN, ALUA, AUB, ALUS, AVY, AXP, AZD, BAD, BBY, BBZ, BCA, BCB, BKY.

### Kit/Tools suitable for timing

**Complete set of tools suitable for VAG diesel engines.**

- **Audi:** 80, A2, A3, A3 Cabrio, A4, A4 4WD, A5, A5 Coupe/Cabriolet, A6, A6 4WD, TT, Q5
- **Seat:** Ibiza, Altea, Altea XL, Arosa, Ibiza/Cordoba, Inca, Leon, Toledo, Alhambra
- **Škoda:** Exeo, Fabia, Fabia II, Felicia, Roomster, Octavia, Octavia Tour, Octavia II, Superb, Superb II
- **VW:** Lupo, Polo, Polo/Classic, Fox, Golf/Bora, Golf/Plus, Jetta, Jetta III, Eos, Beetle, New Beetle, Scirocco, Tiguan, Passat, Passat CC, Touran, Sharan, Caddy, Vento, Caddy Maxi, Golf Estate, Sharan, Transporter

**Engine**
- 1.2TDi PD, 1.4TDi PD, 1.7SDi, 1.9D/Turbo, 1.9SDi, 1.9TDi, 1.9TDi PD, 2.0TDi PD

**Engine codes**
- AJM, AMF, ANJU, ANY, ARI, ASZ, ATD, ATJ, ATL, ALUY, AYB, AVF, AVQ, AVVX, AXB, AXC, AYR, AYZ, BAY, BDK, BGW, BHC, BHV, BB, BKC, BKE, BKP, BLS, BMT, BM, BM, BNM, BN, BNP, BPX, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BUK, BV, BWV, BXM, BXF, BDJ, BJB, BM, BNN, BV, BMR, BNA, BFW, BRC, BRF, BTR, BSS, BTV, AHB, AHG, AKU, AKW, 1X, 1Y, AZZ, ALT, AES, GYD, AEP, AQM, ASX, ASY, AYQ, IZ, AFA, AFN, AGR, AHT, AHU, AEI, AL, AS, AVG
Timing tools

**VW - AUDI - SEAT - SKÔDA**

**Kit/Tools suitable for timing**

Timing kit suitable for VAG petrol engines.

- **Audi:** B6, A2, A3, S3, A4, A6, TT
- **Seat:** Altea/XL, Arosa, Ibiza, Cordoba, Inca, Leon, Toledo, Alhambra
- **Škoda:** Fabia, Octavia, Octavia II, Superb
- **VW:** Polo, Polo/Classic, Beetle, Caddy, Lupo, Golf/Golf Estate, Golf
  Plus, Bora, Passat, Vento, Jetta, Esos, Touran, Sharan, Transporter

**Engine**

- 1.4 e 1.6 16v. Twin Cams, 1.4 FSI, 1.6, 1.6 FSI, 1.8, 1.8 16v, 1.8 T, 2.0 16v, 2.0 FSI/TFSi (belt)

**Engine codes**

- AFH, AKQ, AHW, AJV, AKQ, APE, AQQ, ARQ, ARR, ATN, ALA, AUB, AUS, AVY, AXX, AIZ, AJP, AJP, AKQ, AMK, ALU, AEU, APG, APQ, APT, APU, APX, AQQ, AQQ, AQQ, ARQ, AXX, AXX, AXX, AXX

**Kit/Tools suitable for timing**

Complete timing set for 1.2 L, 3 cylinders 9v and 12v petrol VW engines.

- **VW:** Fox, Lupo, Polo
- **Škoda:** Fabia, Roomster
- **Seat:** Ibiza, Cordoba

**Engine**

- 1.2 6v, 1.2 12v

**Engine codes**

- AVY, AZQ, BNE, BBM, BMD, BXV, BZG
VW - AUDI - SEAT - SKÔDA

Kit/Tools suitable for timing

Timing tools suitable for 2.5 TDi PD diesel (Pump Düse) engines.

- VW: Touareg, Transporter
- Engine: 2.5 TDi PD
- Engine codes: AXD, AXE, BAC, BJ, BLK, BNZ, BPC, BPD, BPE

Kit/Tools suitable for timing 310 184 000

Kit/Tools suitable for timing

Complete set of timing tools suitable for petrol and diesel engines.

- SUPPLIED: special crankshaft oval and round pulley lockers suitable for 1.2, 1.4, 1.6, 1.9, 2.0 Tdi engines.
- Audi: Allroad , A2, A3, A3 Cabrio, A4, A4 4WD, A5 Coupe/Cabriolet, A6, A6 4WD, A8, Q5, TT
- Skôda: Exeo, Fabia, Fabia II, Octavia, Octavia Tour, Octavia II, Roomster, Superb, Superb II
- VW: Beetle, Bora, Caddy, Caddy Maxi, Crafter Eos, Fox, Golf, Golf Plus, Golf Estate, Jetta, Jetta III, IT, Lupo, Passat, Passat CC, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter
- Ford: Galaxy.
- Engine: 1.4 e 1.6 16v. Twin Cams 1.2 TDi PD, 1.4 TDi PD, 1.6 TDi CR, 1.9 SDi, 1.9 TDi PD, 2.0 TDi CR, 2.0 TDi PD, 2.5 TDi V6.
- Engine codes: ARC, ATN, AUS, AVY, AZD, AFH, BCA, AKF, AHW, AJV, AKQ, APE, AQQ, ALJ, AUJ, AUJ, AUP, AFH, AKF, AHW, APL, AQQ, ALU, AUB, AUS, AXF, AZD, BBZ, BCB, AJM, AMF, ANJ, ANY, ARL, ASZ, ATD, ATJ, AJL, ALY, AVB, AVF, AVQ, AVY, AXB, AYC, AXY, AYZ, A2V, BAY, BDK, BGW, BHC, BHP, BHV, BJB, BKC, BMD, BNP, BRR, BSB, BSV, BST, BUL, BUX, BVZ, BVA, BVE, BVT, BVG, BKV, BVW, BXX, BXP, CAGA, CAGB, CAGC, CAHA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CBEA, CEGA, AZY, BDJ, BHP, BKL, BJB, BMA, BMM, BMN, BMP, BMR, BNA, BNP, BRC, BRE, BRF, BRI, BSS, BUL, BUZ, BVA, BVE, BVT, BVG, BWH, BWW, ACV, AFB, AGX, AHD, AHH, AJT, AJT, AKE, ANJ, APA, AUF, AUF, AXG, AXG, AXI, AXI, AYC, AYC, AYM, AYY, BAU, BBE, BBE, BCF, BDE, BDH, BJ, BJK, BLM, BMM
Timing tools

VW - AUDI - SEAT - SKÔDA

Pulley locker

Special crankshaft round pulley locker for TD engines.

- Audi: A2, A3, A4, A4 4WD, A5 Coupe/Cabriolet, A6, A6 quattro, Q5, TT
- Seat: Alhambra, Altea, Altea XL, Arosa, Cordoba, Ibiza, Leon, Toledo,
- Skôda: Exeo, Fabia, Fabia II, Octavia, Octavia Tour, Octavia II, Roomster, Superb, Superb II
- VW: Beetle, Bora, Caddy, Caddy Maxi, Eos, Fox, Golf, Golf Plus, Golf Estate, Jetta, Jetta III, Lupo, Passat, Passat CC, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter
- Ford: Galaxy

Engine

- 1.2 TDi PD, 1.4 TDi PD, 1.6 TDi CR, 1.9 TDi PD, 2.0 TDi PD, 2.0 TDi CR

Engine codes

- AJM, AMF, ANU, ANY, AR1, ASZ, ATD, AT1, ATI, AUY, AVB, AVF, AVQ, AXV, AXB, AXC, AXR, AYZ, AZV, AHU, AHIJ, ANU, AUY, BAY, BKD, BGW, BHC, BHP, BHY, BIM, BJB, BKC, BKE, BMR, BMS, BNT, BN1, BN2, BNR, BPP, BPS, BTV, BUK, BUL, BUV, BVA, BVE, BVF, BVG, BVR, BSV, BSW, BTB, BUK, BUV, BUL, BUV, BVA, BVE, BVF, BVG, BVR, BSV, BSW, BTB, BUK

Pulley locker 310 117 000

Pulley locker

Special crankshaft oval pulley locker for TD engines.

- Audi: A3, A4, A4 4WD, A6
- Seat: Alhambra, Altea/Altea XL, Leon, Toledo,
- Skôda: Octavia, Octavia II, Superb, Superb II
- VW: Bora, Caddy, Caddy Maxi, Eos, Golf, Golf Estate, Golf Plus, Jetta, Passat, New Beetle, Sharan, Touran, Transporter

Engine

- 1.9 - 2.0 TDi PD

Engine codes

- AZV, BDI, BHP, BID, BIM, BMA, BMN, BMA, BMP, BMR, BNA, BPW, BRC, BRE, BRF, BRT, BSS, BUY, BLJ, BVA, BVE, BVF, BVG, BVM, BST, BRS, BRR, BJR, BKC, BRI, BLS, BXM, BKF, BKO, BUY

Pulley locker 310 117 002
**VW - AUDI - SEAT - SKÔDA**

**Kit/Tools suitable for timing**

Complete set of tools suitable for VAG 1.2, 1.4, 1.6, 1.9, 2.0 diesel engines and 1.9 D Ford.

- **SUPPLIED**: Special crankshaft round and oval pulley locker for 1.2, 1.4, 1.6, 1.9, 2.0 TD engines.

- **Audi**: A2, A3, A3 Cabrio, A4, A4 4WD, A5 Coupe/Cabriolet, A6, A6 4WD, Q5, TT
  - **Seat**: Alhambra, Altea, Altea XL, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo.
  - **Skôda**: Exeo, Fabia, Fabia II, Octavia, Octavia Tour, Octavia II, Roomster, Superb, Superb II
  - **VW**: Beetle, New Beetle, Bora, Caddy, Caddy Maxi, Eos, Fox, Golf, Golf Plus, Golf Estate, Jetta, Jetta III, Lupo, Passat, Passat CC, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter
  - **Ford**: Galaxy.

**Engine**

- 1.2 TDi PD, 1.4 TDi PD, 1.9 SDi, 1.9 TDi PD, 2.0 TDi PD

**Engine codes**

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**Kit/Tools suitable for timing**

| 310 116 000 |

**Kit/Tools suitable for timing**

Complete set of tools suitable for VAG petrol engines.

- Complete with water pump pulley extractor and crankshaft pulley extractor.

- **VW**: Polo, Golf, Golf Plus, Touran, Passat, Jetta, Eos, Tiguan
  - **Audi**: A3.
  - **Skôda**: Octavia, Fabia, Roomster

**Engine**

- 1.4 e 1.6 FSi (chain), 1.4 TSi

**Engine codes**

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**Kit/Tools suitable for timing**

| 310 126 000 |
Kit/Tools suitable for timing

Complete set of tools suitable for VAG 1.2, 1.4, 1.6, 1.9, 2.0 diesel engines

- SUPPLIED: Specia crankshaft round pulley locker for TD engines.
- Audi: A2, A3, A3 Cabrio, A4, A4 4WD, A5 Coupe/Cabriolet, A6, A6 4WD, Q5, TT
- Skoda: Exeo, Fabia, Fabia II, Octavia, Octavia Tour, Octavia II, Roomster, Superb, Superb II
- VW, Beetle, Bora, Caddy, Caddy Maxi, Eos, Fox, Golf Plus, Golf Estate, Jetta, Jetta III, Lupo, Passat, Passat CC, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter
- Ford: Galaxy

Engine
- 1.2 TDI PD, 1.4 TDI PD, 1.9 TDI PD, 2.0 TDI PD

Engine codes
- AJM, AMF, ANU, ANY, AKN, ARL, ASZ, ATD, ATI, ATJ, AVB, AVF, AVQ, AVX, AXB, AXC, AYR, AYU, AZV, BAY, BDK, BGW, BHC, BHP, BMW, BB, BKE, BKM, BKP, BLS, BLT, BMA, BMN, BMV, BMS, BMT, BNV, BPX, BRB, BRI, BRS, BRU, BU, BSV, BSW, BTB, BUK, BUY, BUZ, BWA, BVE, BVF, BVG, BK, BVM, VW, BME, BXE, BXF, 1Z

Kit/Tools suitable for timing 310 132 000

Kit/Tools suitable for timing

Complete set of tools suitable for VAG petrol engines.

- Complete with water pump pulley extractor and crankshaft pulley extractor, WITHOUT DIAL GAUGE.
- VW: Polo, Golf, Golf Plus, Touran, Passat, Jetta, Eos, Tiguan
- Audi: A3
- Skoda: Octavia, Fabia, Roomster

Engine
- 1.4 e 1.6 FSi (chain), 1.4 TSi

Engine codes
- AXU, BAG, BKG, BLF, BLN, BLP, BLG, BM, BMS, BMT, BW, CAXA

Kit/Tools suitable for timing 310 126 011
VW - AUDI - SEAT - SKÔDA

Kit/Tools suitable for timing

Complete set of tools suitable for VAG petrol engines.

- VW: Polo, Golf, Golf Plus, Touran, Passat, Jetta, Eos, Tiguan
- Audi: A3
- Skôda: Octavia, Fabia, Roomster

Engine
- 1.4 e 1.6 FSi (chain), 1.4 TSi

Engine codes
- AXU, BAG, BKG, BIF, BLN, BLP, BIL, BMY, BTS, BWK, CAXA

Kit/Tools suitable for timing  310 126 010

Kit/Tools suitable for timing

Timing kit suitable for camshaft locking on Audi 3.0 petrol engines.

- Audi: A4 (01-08), A6 (01-08), A8 (03-08), Cabrio (03-08)

Engine
- 3.0 V6 petrol

Engine codes
- ASN, AVK, BBJ

Kit/Tools suitable for timing  310 141 000

Locking tool

Locking tool for the positioning device of camshaft/tensioner on Audi-Seat-VW-Skoda 1.8, 1.8 T petrol engines.

- Audi: A3, S3, A4, A6, TT
- Seat: Ibiza/Cordoba, Leon, Toledo, Alhambra
- Skôda: Octavia
- VW: Golf/Bora, Beetle, Passat

Engine
- 1.8, 1.8 T petrol

Engine codes
- ADR, AEB, AFY, AGN, AGU, AJH, AJL, AJP, AJQ, AMK, AMU, ANB, APG, APH, AP, APT, APL, APY, AQY, AZX, ARG, ARG, ARX, AR, ARZ, ATP, ATW, AUM, AVG, AWC, AWP, AXU, AXV, AYP, BAN, BAA, BEA, BFV, BF, BNL, BVP, BVR

Locking tool  310 133 000
Timing tools

**VW - AUDI - SEAT - SKÔDA**

**Kit/Tools suitable for timing**

Complete timing kit suitable for diesel and petrol engines.

- **Seat**: Arosa, Ibiza, Cordoba, Leon, Toledo, Alhambra, Altea, Inca (99-04)
- **Skôda**: Fabia, Octavia, Superb
- **VW**: Lupo, Polo, Fox, Golf, Bora, Jetta, Golf Plus, Passat, Beetle, Touran, Sharan, Caddy, Transporter
- **Ford**: Galaxy

**Petrol engine**

- 1.4 e 1.6 16v Twin Cams, 1.2 cc 9v-12v 3, 1.4 and 1.6 FSi (chain)

**Diesel engine**

- 1.2 TDi PD, 1.4 TDi PD, 1.9 TDI 75-90-110 PF, 1.9 SDi 75-90-110 PF, 1.9 TDI 105-130-150 PF, 2.0 TDi PD, 2.0 TDI DPF 140-170 PF, 2.5 TDi V6.

**Engine codes**

- ARC, ATN, AUS, AVY, AZD, AFH, BCA, AJV, AKQ, AUA, AUB, AXP, AFH, AFN, AFK, AHV, AHU, APE, AQQ, AUS, AXP, AZD, BBY, BBZ, BCB, ANY, AYZ, AMF, ATL, BAY, BHC, BMS, BNW, BNV, BWB, AJM, AMG, ANU, ARI, ASZ, ATD, ATJ, AUY, AVB, AVF, AVQ, AVX, AXB, AXC, AXR, BEV, BJF, BKC, BKE, BLS, BLT, BMT, BPG, BBR, BMS, BRS, BRU, BSU, BSW, BVB, BUK, BVE, BKF, AZV, BDJ, BDK, BSV, BVW, BWD, BKD, BKB, BLB, BMA, BMM, BNV, BWP, BWR, BWA, BPP, BRC, BRT, BRT, BUR, BE, BTF, BVG, BVH, BWV, AZV, BKO, AVV, AZQ (55 - 64 PF), AKU, BAG, BKG, BLF, BLS, BLP, BFV, BKF, BNU, BVP, BVR, 1Z.

**Kit/Tools suitable for timing**  
310 155 000

Adaptable timing kit for engines VAG 1.6 - 2.0 TDI CR.

- **Skôda**: Roomster, Fabia, Praktic, Octavia, Yeti, Superb
- **Audi**: A1, A3, A4, A5, Q5, A6, TT
- **VW**: Jetta, Touran, Golf, Golf Plus, Polo, Passat, Tiguan, Scirocco
- **Seat**: Exeo, Leon, Altea, Toledo

**Engine**

- 1.6 TDi CR, 2.0 TDi CR

**Engine codes**

- CAYA, CAYB, CAYC, CBBB, CDBD, CEGA, CFHC, CAGA, CAGB, CAGC, CAHA, CAHB, CBAA, CBAB, CBB, CCHA, CGL, CGB, CJCA, CJCB, CJF, CAAA, CAVA, CBAC, CBBA, CBDA, CBD, CBD, CBDC, CCHA, CJAA, CAA, CAAC

**Kit/Tools suitable for timing**  
310 191 000
**VW - AUDI - SEAT - SKÔDA**

### Kit/Tools suitable for timing

Camshafts locking tools suitable for VW 1.2 TSi.

- **VW**: Polo, Caddy, Caddy Maxi, Golf, Golf plus, Golf estate
- **Audi**: A1
  - Engine: 1.2 TSi
  - Engine codes: CBZA
- **VW**: Touran, Caddy, Caddy maxi, Golf, Golf plus, Golf estate, Jetta, Golf VI cabrio
  - **Audi**: A3, A3 cabrio
  - Engine: 1.2 TSi
  - Engine codes: CBZB

**Camshafts locking tools** 310 202 000

### Belt tensioner

Belt tensioner for VAG engines.

- **VW**
  - **Audi**
  - **Skôda**
  - **Seat**

**Belt tensioner** 313 030 000

### Damper lock

Water pump locking tool.

- **VW Polo, Golf, Passat**
  - **Audi 80/A4**

**Damper lock** 313 032 000

### Damper lock

Water pump locking wrench for Volkswagen, Audi engines with air-conditioning system.

- **VW**
- **Audi**

**Damper lock** 313 033 000
Timing tools

VW - AUDI - SEAT - SKÔDA

### Belt tensioner

Short Belt tensioner for VAG petrol and diesel engines.

- **VW**
- **Audi**
- **Skôda**
- **Seat**

Belt tensioner 313 039 000

### Belt tensioner

Belt tensioner for VAG petrol and diesel engines.

- **VW**
- **Audi**
- **Skôda**
- **Seat**

Belt tensioner 313 126 000

### Belt tensioner

Long Belt tensioner for VAG petrol and diesel engines.

- **VW**
- **Audi**
- **Skôda**
- **Seat**

Belt tensioner 313 038 000
Valve spring compressor

Air operated valve spring compressor.

- Universal pneumatic tool for assembling and disassembling engine valves, suitable for all types of valves on petrol and diesel engines.
- Practical and easy to use, it permits time saving up to 60-70%, especially during valve assembly.
- APPositely made for engines with 4/5 valves for cylinder.
- Case Dimensions: 485x375x135 mm
- Machine weight: 5 Kg
- Working pressure: min 6 bar, max 10 bar
- Power: 6 bar=75 Kg, 10 bar=100 Kg

Valve spring compressor

Pressure foot Ø 25,5 with 5 adaptors: 24,5 - 25 - 27 - 29 - 32 mm (A)
Pressure foot Ø 34 with 3 adaptors: 34 - 41 - 50 mm (B)
Pressure foot Ø 19,8 mm (C)

Valve spring compressor HEAVY DUTY - commercial vehicles, trucks, caterpillar, special engines

Air operated Heavy Duty valve spring compressor.

- Universal pneumatic tool for assembling and disassembling engine valves, suitable for all types of valves on petrol and diesel engines.
- Practical and easy to use, it permits time saving up to 60-70%, especially during valve assembly.
- APPositely made for engines with 4/5 valves for cylinder.
- Case Dimensions: 485x375x135 mm
- Machine weight: 6 Kg
- Working pressure: min 6 bar, max 10 bar
- Power: 6 bar=118 Kg, 10 bar=136 Kg

Valve spring compressor HEAVY DUTY

Pressure foot Ø 25,5 with 5 adaptors: 24,5 - 25 - 27 - 29 - 32 mm (A)
Pressure foot Ø 34 with 3 adaptors: 34 - 41 - 50 mm (B)
Pressure foot Ø 19,8 mm (C)
Manual bench useful to assembly and disassembly engine valves

Manual bench complete with 3 pressure feet with adaptors.

- The two head supports are implemented with non-scratch plastic material and are adjustable from 0 to 30°.
- There are two handles for locking when the right inclination is set.
- It is also possible to regulate the horizontal position of the head moving the pins to the opposite holes up and down. There is a long regulation also for the push rod in case of deep valve chambers. The frame can be rotated 30° on both sides.
- Moreover can be regulated also forward and backwards. In case of valves locked hard into the seat, hit on the slide hammer on the top with a plastic mallet. The bench is also provided with a Travel limit device that guarantees the same stroke for each valve.
- Meanwhile the valve spring is compressed, the operator can block the position using the opposite pin. Consequently he can work on the valves having both hands free.

- Dimensions: 785x500x625 mm.
- Stroke: 265 mm.
- Cylinder head: 750 mm max. - Length: 185 mm. min. - Inclination angle = 0°-30°
- Total weight: 25.5 Kg.

Complete valve keepers kit

Complete valve keepers kit.

- The Valve keeper installation tool is especially designed for multi groove keepers.
- The valve keeper tool is available in five sizes: 5 mm, 6 mm, 7-8 mm.

Cylinder head support

Special head support useful to resurface cylinder head.

- Fiat 1.6 16v
Valve spring compressor EXTRA HEAVY DUTY

Extra Heavy Duty pneumatic Valve Spring compressor.

- Full pressure feet supplied jaws handle springs from 19 mm. to 50 mm. (3/4" to 2") diameter. Quick and precise adjustment in millimeters increments thanks to its locking handle.
- Cylinder: Stroke
  Cylinder stroke is 90 mm. (3½") that allows to compress any kind of springs and at same time guarantees safety;
- Cylinder: High Power
  It needs only 6 bar (90 psi) of compressed air to operate. With a working pressure of 10 bar (145 psi) the Spring Compressor force is 500 kgf (1102 lbf);;
- Aluminium Technology
  The cylinder is made in light alloy and nylon resin with fiberglass avoiding consequently the corrosion and the oxidation of the parts of the machine.
- Strong C-Frame system
  Heavy-duty frame is CNC-machined and made of quality steel
- Safety Valve
  The drive valve can function only when the Spring Compressor is connected to the compressed air system. Consequently the machine can be disconnected while the spring is compressed without dangers assuring the maximum safety.
- Machine Dimensions: 630x300x95 mm.
  - Pack dimensions: 485x375x185 mm.
  - Machine weight: 7.2 Kg.
  - Packaging weight: 9 Kg.
  - Working pressure: min 6 bar, max 10 bar
  - Power: 10 bar=500 Kgf;

Valve spring compressor EXTRA HEAVY DUTY

| Pressure foot Ø 40 mm (A) | 315 024 000 |
| Pressure foot Ø 32 mm (B) | 315 024 014 |
| Pressure foot Ø 23,5 mm (C) | 315 024 015 |
| Magnet - Length = 165 mm (D) | 315 020 007 |

Valve keeper magnet.

Handy tool in plastic material with magnets on both ends.

- Length: 165 mm.
Cylinder head support

Cylinder head support facilitates a wide range of operations on any type of cylinder head (valve assembling/disassembling, valve-seat grinding, conduits cleaning, tappets adjustment, etc.).

- It can be held in a vice or, using the holes provided, fixed to an engine stand.

- Dimensions: 6 - 90 cm.
- Support plate rotation: 360°.
ENGINE & GEARBOX SUPPORTS
Engine & Gearbox supports

**Brackets**

Brackets essential when using a pneumatic engine support on plastic wheel arches (e.g. Fiat, Kia, etc.).

- Place the brackets between the shock absorber cap and the chassis.
- TO BE USED with codes 314002000 - 314012000 - 314012015.

**Air operated engine support**

Air operated engine support.

- It is the first pneumatic engine and gearbox support. It is so simple to use that the operator with the vehicle raised may position the engine without effort and with the maximum precision, using the special remote control. It is designed to fit on the wheel arch of any type of vehicle. Designed for servicing: gearbox, clutch, valve timing, replacement of engine mountings, engine oil seals, and bodywork.

- Packaging dimensions: 110x300x1520 mm.
- Machine weight: 20 Kg.
- Working pressure: min 6 bar, max 8 bar.
- Capacity: 6 bar = 301 Kgf., 8 bar = 400 Kgf.
- Extended width: min. 850 mm - max. 1460 mm.
Manual support for engine

- It should be positioned on the wheel arches, adjusting the length by means of the appropriate side arms. It is designed to fit on the wheel arch of any type of vehicle thanks to the possibility of inclination of the side supports.
- Designed for servicing: gearbox, clutch, valve timing, replacement of engine mountings, engine oil seals, and bodywork.

<table>
<thead>
<tr>
<th>Standard Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended width: min. 700 mm. - max. 1480 mm.</td>
</tr>
<tr>
<td>Capacity: 330 Kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Long Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended width: min. 700 mm. - max. 1720 mm</td>
</tr>
<tr>
<td>Capacity: 330 Kg</td>
</tr>
</tbody>
</table>

Engine support device

- This special device allows to support the engine when the side engine bracket is removed, e.g. during replacing timing belts or water pumps. Thanks to this device, it is possible to work at the engine control (belt drive) without using engine cranes or transmission lifts.
- Body extension: min. 630 mm - max. 960 mm.
- Supporting Plate stroke: 190 mm.
- Weight: 7.2 Kg.
### Set of wrenches

**Set of wrenches for dismounting oil filters (8 pc.)**

<table>
<thead>
<tr>
<th>Wrench N.</th>
<th>Size</th>
<th>Flutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ø 66,5 mm</td>
<td>45</td>
</tr>
<tr>
<td>2</td>
<td>Ø 87 mm</td>
<td>18</td>
</tr>
<tr>
<td>3</td>
<td>Ø 66,5 mm</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>Ø 74,4 mm</td>
<td>14</td>
</tr>
<tr>
<td>5</td>
<td>Ø 74 mm</td>
<td>15</td>
</tr>
<tr>
<td>6</td>
<td>Ø 92 mm</td>
<td>10</td>
</tr>
<tr>
<td>7</td>
<td>Ø 76,5 mm</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>Ø 64 mm</td>
<td>14</td>
</tr>
</tbody>
</table>

### Set of wrenches

**Set of wrenches for dismounting oil filters (14 pc.)**

<table>
<thead>
<tr>
<th>Wrench N.</th>
<th>Size</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>15</td>
</tr>
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<td>10</td>
</tr>
<tr>
<td>7</td>
<td>Ø 76,5 mm</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>Ø 64 mm</td>
<td>14</td>
</tr>
<tr>
<td>9</td>
<td>Ø 91 mm</td>
<td>12</td>
</tr>
<tr>
<td>10</td>
<td>Ø 92,3 mm</td>
<td>6</td>
</tr>
<tr>
<td>11</td>
<td>Ø 96,4 mm</td>
<td>6</td>
</tr>
<tr>
<td>12</td>
<td>Ø 107,7 mm</td>
<td>18</td>
</tr>
<tr>
<td>13</td>
<td>Ø 66 mm</td>
<td>14</td>
</tr>
<tr>
<td>14</td>
<td>Ø 84,6 mm</td>
<td>14</td>
</tr>
</tbody>
</table>

### Oil filter wrench N.1

**Oil filter wrench N.1**

- Type: Ø 66,5 mm
- Flutes 45

- **VW**
- **Audi**
- **Nissan**

**Engine**

- TDi

**Oil filter wrench N.1**

<table>
<thead>
<tr>
<th>Size</th>
<th>Flutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 66,5 mm</td>
<td>45</td>
</tr>
</tbody>
</table>

**Set of wrenches**

<table>
<thead>
<tr>
<th>310 001 000</th>
</tr>
</thead>
</table>

**Set of wrenches**

<table>
<thead>
<tr>
<th>312 051 000</th>
</tr>
</thead>
</table>

**Set of wrenches**

<table>
<thead>
<tr>
<th>310 001 001</th>
</tr>
</thead>
</table>
**Oil filter wrench N.2**

Oil filter wrench.

- Type: Ø 87 mm
- Flutes 18
- Renault

---

**Oil filter wrench N.3**

Oil filter wrench.

- Type: Ø 66,5 mm
- Flutes 6
- Fiat: Punto 1.2
- Renault: 1.2 dal '98 in poi

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**Oil filter wrench N.4**

Oil filter wrench a cartuccia.

- Type: Ø 74,4 mm
- Flutes 14
- Renault

---
Oil filter wrench N.5

- Type: Ø 74 mm
- Flutes 15
- Renault

Oil filter wrench N.5

Oil filter wrench N.6

- Type: Ø 92 mm
- Flutes 10
- Fiat
- Engine
  - Common Rail 125 Cv

Oil filter wrench N.6

Oil filter wrench N.7

- Type: Ø 76,5 mm
- Flutes 8
- Fiat
- Engine
  - Common Rail 1.9-2.4 JTD (old models)

Oil filter wrench N.7
### Oil filter wrench N.8
- **Type:** Ø 64 mm
- **Flutes:** 14
- **Fiat:** Punto

<table>
<thead>
<tr>
<th>Oil filter wrench N.8</th>
<th>310 001 008</th>
</tr>
</thead>
</table>

### Oil filter wrench N.9
- **Type:** Ø 91 mm
- **Flutes:** 12
- **Fiat:** Ducato

<table>
<thead>
<tr>
<th>Oil filter wrench N.9</th>
<th>312 021 000</th>
</tr>
</thead>
</table>

### Oil filter wrench N.10
- **Type:** Ø 76.8 mm
- **Flutes:** 12
- **Mercedes:** all models with Purflux LS 918 filters
- **Renault:** Megane, Laguna, Espace I+II+III, Twingo, Clio, Kangoo, R5
- **Ford:** 1.8 diesel and with Motorcraft filter
- **Peugeot:** all Purflux filter models
- **Fiat:** Ducato, Scudo, Ulysse, Stilo, Multipla, all Doblo JTD models

| Oil filter wrench N.10 | 310 001 010 |
Oil filter wrench N.11

Oil filter wrench.

- Type: Ø 92.3 mm
- Flutes 6
- Renault: Twingo, Clio, Kangoo, Modus, Mégane, Scenic, etc.
- Engine
  - 1.2 & 1.4 petrol

Oil filter wrench N.11 310 001 011

Oil filter wrench N.12

Oil filter wrench.

- Type: Ø 96.4 mm
- Flutes 6
- Renault: Clio, Kangoo, Modus, Mégane, Scenic
- Engine
  - 1.5, 1.9 e 2.2 DCI

Oil filter wrench N.12 310 001 012

Oil filter wrench N.13

Oil filter wrench.

- Type: Ø 75.3 mm
- Flutes 16
- Alfa Romeo: Mj

Oil filter wrench N.13 310 001 013
Oil filter wrench N.14

Oil filter wrench.

- Type: Ø 107,7 mm
- Flutes 18
- Renault: Trafic, Master

Oil filter wrench N.14 312 047 000

Oil filter wrench N.15

Oil filter wrench.

- Type: Ø 66 mm
- Flutes 14

Oil filter wrench N.15 312 050 000

Oil filter wrench N.16

Oil filter wrench.

- Type: Ø 84,6 mm
- Flutes 14
- Mercedes Purflux and filters d.84,6 mm

Oil filter wrench N.16 312 052 000
### Oil filter wrench N.17

Oil filter wrench

- Type: Ø 73 mm
- Flutes 10

![Oil filter wrench N.17](image)

| Oil filter wrench N.17 | 312 054 000 |

### Oil filter wrench N.18

Oil filter wrench

- Type: Ø 76.8 mm
- Flutes 12
- VW
- Engine 2.0 TDI

![Oil filter wrench N.18](image)

| Oil filter wrench N.18 | 312 055 000 |

### Oil filter wrench N.19

Oil filter wrench

- Type: Ø 87 mm
- Flutes 16
- BMW

![Oil filter wrench N.19](image)

| Oil filter wrench N.19 | 312 057 000 |
### Oil filter wrench N.20

**Oil filter wrench.**

- **Type:** Ø 102 mm
- **Flutes:** 14
- **Renault**

<table>
<thead>
<tr>
<th>Oil filter wrench N.20</th>
<th>312 059 000</th>
</tr>
</thead>
</table>

### Oil filter wrench N.21

**Oil filter wrench.**

- **Type:** Ø 66 mm
- **Flutes:** 18
- **Renault**

<table>
<thead>
<tr>
<th>Oil filter wrench N.21</th>
<th>312 060 000</th>
</tr>
</thead>
</table>

### Oil filter wrench N.22

**Oil filter wrench.**

- **Type:** Ø 96 mm
- **Flutes:** 18
- **Renault**

<table>
<thead>
<tr>
<th>Oil filter wrench N.22</th>
<th>312 061 000</th>
</tr>
</thead>
</table>
**Chain oil filter wrench**
Universal pressed steel jointed chain tools for oil filters with extendable handle.

**Oil filter wrench**
Universal chain tool of printed steel for oil filters.

- Filters diameter: Ø 70/110 mm
- Filters diameter: Ø 110/145 mm

**Wrench with „T“ shape**
Universal casehardened steel T tool for engine plugs.

- Square: 8-10 mm
- Hexagonal: 12 mm
Wrench with "T" shape

Universal casehardened steel T tool.

- Hexagonal: 8, 10, 12 mm

Oil sump plugs

Set of oil sump plugs.

- These plugs eliminate messy oil changes, stripped threads and loose plugs, taking the place of the factory oil plugs. Threads measure is the same but with an increased tolerance. Using this plugs, holes and threads remaking is not required; the plugs have to be mounted directly. Each plug is made up of 2 parts. After mounting operations, the external plug remain fixed to the oil sump while the internal one is used for oil changes.

- n. 15 oil sump plugs:
  - n.1 M10x1,25; n.1 M12x1,5; n.2 M14x1,25; n.4 M14x1,5; n.4 M16x1,5; n.1 M18x1,5; n.1 M20x1,5; n.1 M22x1,5

- n. 25 copper gaskets:
  - Ø 10 mm, 16x1,5

Oil sump plugs

Set of oil sump plugs.

- These plugs eliminate messy oil changes, stripped threads and loose plugs, taking the place of the factory oil plugs. Threads measure is the same but with an increased tolerance. Using this plugs, holes and threads remaking is not required; the plugs have to be mounted directly. Each plug is made up of 2 parts. After mounting operations, the external plug remain fixed to the oil sump while the internal one is used for oil changes.

- n. 8 oil sump plugs:
  - M10x1,25; M12x1,5; M14x1,25; M14x1,5; M16x1,5; M18x1,5; M20x1,5; M22x1,5

- n. 10 copper gaskets:
  - Ø 10 mm, 16x1,5

- Fiat: Ducato 2.3 D MJ
**Oil sumps & Filters**

**Tool for dismounting filters**

Special tool for dismounting diesel MJ filters.

- **Fiat:** Punto, Panda, Idea, Stilo, Doblo
- **Engine:** 1.3 MJ 16v
- **Lancia:** Ypsilon, Musa
- **Engine:** 1.3 MJ 16v
- **Opel:** Corsa, Agila
- **Engine:** 1.3 CDTI
- **Suzuki:** Ignis, Vagon R+
- **Engine:** 1.3 DDiS 16v

**Tool for dismounting filters**

Wrench cup for dismounting diesel MJ filters.

- **Opel**
- **Engine:** Diesel CR 1.3 & 1.9

**Milling kit**

Milling kit and restoring oil cup plug washers seat.

- The kit is equipped with a centering pin for the clamp, and a milling cutter with handle and 12 cutters. The kit is completed by 2 keys for tightening and locking the clamps and the pin.
- **Expansion clamp:** M14x1.5
- **Expansion clamp:** M15x1.5
- **Centering pin:** Ø 10 mm
- **Locking pin:** Ø 10 - Ø 6 mm
- **Milling cutter:** Ø 21 mm
Injectors

**Mechanical kit**

Universal injector kit.

- This system provides to lock the bridge-bar to the engine heads.
- Mercedes
- Renault
- Fiat
- Peugeot
- Injectors: Bosch, Siemens, Delphi
- Mechanical working

**Mechanical kit (cylinder NOT supplied)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>311 157 000</td>
<td>Injectors mechanical kit</td>
</tr>
</tbody>
</table>

**Injectors extractor kit - UNIVERSAL**

Complete set for injectors removal.

- Hydraulic cylinder: 12 Ton, 700 bar, 3/8" NPT F connection.
- Hydraulic & Mechanical working

THE PUMP TO BE USED WITH THE HYDRAULIC CYLINDER IS NOT SUPPLIED.

**Injectors extractor kit**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>311 166 000</td>
<td>Injectors extractor kit</td>
</tr>
</tbody>
</table>

**Injectors extractor kit - SSANGYONG**

Complete set for removing Delphi injectors.

- Models: Ssangyong & MB
- Engine: CDI
- Models: Kia & Mazda
- Engine: Common Rail
- Socket: 21 mm - L = 90 mm

**Injectors extractor kit**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>311 064 000</td>
<td>Injectors extractor kit</td>
</tr>
</tbody>
</table>
Injectors extractor kit - MERCEDES

Complete set for injectors removal.

- This kit enables to remove two injectors simultaneously without dismounting valves cover.
- Mercedes: A-Class (old models till 2004), 169 (245 B), A-Class (new models up to 2004), Mercedes B-Class.
- Engine: 668, 640

Injectors extractor kit

| 311 049 000 |

Injectors extractor kit

Complete set for injectors removal. ENGINE REMOVAL NOT REQUIRED.

- This kit allows the removal of the tightly fixed injectors nozzles and the removal of all the injectors mounted on MB 2.1 l, 2.2 l, 3.0 V6 without dismounting the cylinder head.
- Chrysler: 300 C
- Engine: 2.1 l, 2.2 l, 3.0 V6
- Chrysler: 3.0 V6
- Injectors: Bosch (2.1 l, 2.2 l), Delphi (3.0)
- Main body with extractor: M18x1.5 CH30
- Socket CH29: L=78; 1/2” connection
- Hex. wrench 10 mm for electrode removal

Injectors extractor kit

| 311 171 000 |

Injector puller - MERCEDES

Special injector extractor suitable for Mercedes and Bosch models, complete with a Socket for dismounting electrical connection.

- Mercedes: Sprinter, Vito, Viano, Vario.
- Engine: CDI

Injector puller

| 311 032 000 |
Injectors

**Injector puller - FIAT**

Fiat injector puller.

- Fiat
- Alfa
- Opel
- Saab
- Suzuki
- Engine
- Diesel JTD

**Injector puller**  311 002 000

**Injector puller - FIAT**

Complete set for removing injection nozzles.

- This kit allows the removal of the tightly fixed injectors nozzles, without dismounting the cylinder head. It is equipped with a “bridge system” and sliding bearing on it that grant a quick and easy injector’s removal. The special screw has a double connection to fix inside and outside the injector.

- Injectors: Bosch
- Groupe Fiat
- Engine: 1.3 MJ 16v
- Engine codes: 169A1.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 223A9.000
- Alfa Romeo
- Engine: 1.3 MJ 16v
- Engine codes: Z13DTH, Z13DT, Z13DT

- Engine codes Z13DT

**Injector puller**  311 083 000

**Complementary kit - FIAT**

Complementary kit for removing injectors. TO BE USED with code 311083000.

- Fiat
- Engine
- 1.6 MJ, 1.9 MJ, 2.0 MJ, 2.3 MJ, 3.0 MJ

**Complementary kit - Fiat**  311 083 010
Injectors extractor kit - FIAT

Kit TO BE USED with code 311093000.

- Complete with main bridge-bar, hex. wrench 10 mm and sockets CH.29 & CH.30.
- Iveco: Daily
- Engine
  - 2.3 L Common Rail, 3.0 L Common Rail EEC

Injectors extractor kit

311 143 000

Injectors extractor kit - FIAT

Complete set for removing Injectors.

- Fiat
- Lancia
- Alfa Romeo
- Opel
- Suzuki
- Engine
  - 1.3 MJ 16v, 1.6 MJ 16v, 1.9 MJ 16v, 2.0 MJ 16v, 2.3 MJ, 3.0 MJ, 1.3 CDI, 1.9 CDI, 2.0 CDI, 1.3 DDiS 16v, 1.9 DDiS 16v

Injectors extractor kit

311 093 000

Injectors extractor kit - BMW

Complete set for removing injectors.

- This kit allows the removal of tightly fit injectors nozzles without removing the cylinder head and the injectors seat cleaning thanks to the supplied blower.
- BMW
- Engine
  - Common-Rail
- Engine codes
  - M47TU, M57 e M57TU

Injectors extractor kit

311 055 015
Injectors

Injectors removal socket

Special socket for removing injector electrical connector.

- Size: CH 29
- Length: 78 mm
- Connection: 1/2"

Bosch

Injector removal socket | 720 019 000

Injectors removal socket

Special socket for removing injector electrical connector.

- Size: CH 30
- Length: 78 mm
- Connection: 1/2"

Bosch

Injector removal socket | 720 020 000

Injectors removal socket

Special socket for removing injector electrical connector.

- Size: CH 25
- Length: 78 mm
- Connection: 1/2"

Siemens

Injector removal socket | 720 021 000

Injectors removal socket

Special socket for removing injector electrical connector.

- Size: CH 27
- Length: 78 mm
- Connection: 1/2"

Siemens

Injector removal socket | 720 022 000
Specialty Automotive Tools

Injector removal socket

- Size: CH 28
- Length: 78 mm
- Connection: 1/2"

Injector removal socket

Tool for injector spindle - BOSCH

- Injectors: Bosch
- CH: 10 mm

Tool for injector spindle

Injector pipe removal socket

- Size: 17 mm
- Length: 80 mm
- Connection: 3/8"

Injector pipe removal socket

Injectors extractor kit - PSA

- This kit allows the removal of the tightly fixed injectors nozzles without dismounting the cylinder head. It is equipped with a bracket and 6 special screws that grant a quick and easy injectors removal. With this device injectors can be removed simultaneously.

- Injectors: Bosch, Siemens Peugeot Citroen Fiat e Lancia

- Engine codes
  - 2.0 HDI, 2.2 HDI
  - DW10: RTH, RHV, 4HW, RHT, RHV, RHR, RHK
  - DW12: 4HX, 4HZ, 4HW, 4HY, 4HT, 4HS, 4HP, 4HR, 4HN

Injectors extractor kit
Injectors extractor kit - PSA

Complete set for removing PSA HDI injection nozzles.

- This kit allows the removal of tightly fit injectors nozzles without removing the cylinder head.
- Injectors: Bosch, Siemens

Engine:
- PSA 2.0 (110, 135 PS) HDI DW10 e DW12

- Bridge bar that fits perfectly PSA cylinder heads.
- Special screw system, that allows a fast and easy nozzles removal
- Blower to clean injectors seats

Injectors extractor kit 311 056 014

Injector puller - VAG

Special injectors puller.

- Complete with handle, slide hammer and a special vice clip.
- Specially designed for Injector Pump system.

- VW injector Pump System and traditional injectors

Engine:
- TDI/FPD

Injectors extractor kit 311 050 006

Injector puller - VAG

Injector puller.

- Complete set for removing high pressure petrol injectors mounted on the cylinder head, equipped with tools for the installation of the injectors seals.

- Injectors: Bosch
- VAG

Engine:
- FSI

Injectors extractor kit 311 141 000
Injector puller - RENAULT

Complete puller suitable for Delphi injectors mounted on Renault.

- Injectors: Delphi
- Renault
- Nissan

- Engine
  - 1.5 dCi, less than 105 hp

Injector puller

Injector puller extractor kit

Complete set for removing Renault dCi injection nozzles.

- This kit allows the removal of the tightly fixed injectors nozzles without dismounting the cylinder head. It is equipped with a bracket and 6 special screws that grant a quick and easy injectors removal. With this device injectors can be removed simultaneously.

- Injectors: Bosch
- Renault/Nissan
- Opel

- Engine
  - 2.0 (solo Renault), 2.2, 2.5 dCi

- Engine codes
  - G9T, G9U

Injectors extractor kit

Injector puller extractor kit

Complete set for removing Renault dCi and Master injection nozzles.

Updated with special supports for 2.0 Dci M9R engines

- This kit allows the removal of the tightly fixed injectors nozzles without dismounting the cylinder head. It is equipped with a bracket, 2 special screws that grant a quick and easy injectors’ removal and a special support to use on Renault Master engines. With this device the two injectors can be removed simultaneously.

- Injectors: Bosch CR, Bosch Piezo
- Renault
- Nissan
- Opel

- Engine
  - 2.0 (solo Renault), 2.2, 2.5 dCi

- Engine codes
  - G9T, G9U

Injectors extractor kit
Injectors

**Support for injectors - RENAULT**

Special body support for injectors removal on Renault Master. TO BE USED with code 311070000

- Renault: Master

**Support for injectors** 311 090 001

---

**Injector puller - RENAULT**

Complete set for removing injectors. ENGINE REMOVAL NOT REQUIRED.

- Injector removal with a mechanical screw system, to reduce the overall dimension of the tool.
- Injectors: Bosch
  - Renault
  - Nissan
  - Opel
  - Engine
    - 1.9 dCi
  - Engine codes
    - F9Q

**Injectors extractor kit** 311 140 000

---

**Support for injectors - RENAULT**

Special engine supports. TO BE USED with code 311070000, 311166000, 311157000

- Renault Bosch Piezo
  - Engine
    - 2.0 dCi
  - Engine codes
    - M9R

**Support for injectors** 311 110 000
Injectors extractor kit - BOSCH, DELPHI

Hydraulic kit for removing injectors.

- This kit can be used with all GOVONI injectors extractors equipped with supporting cross piece.
- After having carried out the procedure for mounting the cross piece/bridge connect the cylinder to the hydraulic pump and proceed to extraction of the injectors by acting on the pump controls. Ascertain that the cylinder does not encounter too much resistance in ascent; if this should occur, unload the cylinder, loosen the nut and repeat the procedure. Once the injector is extracted, remove screw and ring nut and dismount the other injectors by following the same procedure.

- Injectors: Bosch, Delphi
- Renault
- Nissan

- Connection: 3/8" NPT
- Power: 12 ton
- Stroke: 42 mm
- Dimensions: H 120, Ø 69 mm
- Pressure: 700 bar
- Weight: 2.8 Kg
- Hole: 20.2 mm

Injectors extractor kit 311 116 000

Injectors seat cleaning kit - BOSCH

Set of tools suitable for injectors seat cleaning.

- Injectors: Bosch
- Mercedes
- Volvo
- Ford
- Renault
- Kia
- Fiat
- Alfa
- Lancia
- Opel
- Suzuki
- VW
- Engine
- CDI

Injectors seat cleaning kit 311 047 000
**Injectors extractor kit - BOSCH, DELPHI**

Universal complete set suitable for removing injectors.

- Injectors: Bosch e Delphi in genere
- Mercedes
- Volvo
- Ford
- Renault
- Kia
- Camion

- Body-tamper
- Long handle M18 - L = 450 mm.
- Short handle M18 - L = 350 mm.
- Upper handle
- Adapter M18-M22
- M18 “Fork” extractor
- Threaded insert
- M18 socket for Delphi
- M22 socket for Bosch

| Injectors extractor kit | 311 026 000 |

**Injectors extractor kit - SIEMENS**

Special kit suitable for removing Siemens injectors on diesel engines [to apply to slide hammer code 311 026 000].

- Injectors: Siemens
- Peugeot
- Citroen
- Ford
- Toyota

- Engine
  - 1.4 - 2.0 - 2.2 Diesel

| Injectors extractor kit | 311 062 000 |

**Injectors socket - SIEMENS**

Socket for Siemens Piezo, to use together with 311 026 000.

- Injectors: Siemens Piezo

- M27x1 - M18x1.5

| Injectors socket | 311 072 010 |
**Joint**

Universal joint TO BE USED with code 311026000.

- Ideal for working also in case of narrow places.

**Socket M18**

M18 socket TO BE USED with the code 311026000.

- Opel

**Engine**
- 2.2 Diesel

**Injector puller - DENSO**

Injectors removal kit complete with hammer.

- System studied to remove injectors independently from the engines, where they are mounted, without removing the electrical connector. Carry out the removal operations by connecting the extractors to injector edges.

- Injectors Denso: 23670 - 30080, MB416600 - MB40A, 5870 - 13H50, 11L12182

**Joint**

311 026 031

**Socket M18**

311 026 031

**Injector puller**

311 169 000
Injectors

**Injector puller - BOSCH, DELPHI**

Special injector extractor suitable for new generation Trucks that mount Injector-Pump system, and for traditional truck injectors.

- Injectors: Bosch, Delphi
- Volvo
- Scania
- Mercedes
- Man
- Renault
- Iveco

**Injector seat cleaning kit - BOSCH, SIEMENS**

Set of tools suitable for injectors seat cleaning.

- Injectors: Bosch
  - Mercedes, Volvo, Ford, Renault, Kia, Fiat, Alfa, Lancia, Opel, Suzuki, VW
  - Engine: CDI

- Injectors: Siemens
  - Peugeot, Citroën, Ford, Toyota
  - Engine: 1.4, 2.0, 2.2 Diesel

**Injector seat cleaning kit - BOSCH, SIEMENS**

Set of tools suitable for injectors seat cleaning.

- Injectors: Bosch
  - Mercedes, Volvo, Ford, Renault, Kia, Fiat, Alfa, Lancia, Opel, Suzuki, VW
  - Engine: CDI

- Injectors: Siemens
  - Peugeot, Citroën, Ford, Toyota
  - Engine: 1.4, 2.0, 2.2 Diesel
Injector seat cleaning kit - BOSCH, SIMENS, DELPHI

Set of tools suitable for injectors seat cleaning.

- Injectors: Bosch
- Mercedes, Volvo, Ford, Renault, Kia, Fiat, Alfa, Lancia, Opel, Suzuki, VW
- Engine: CDI

- Injectors: Siemens
- Peugeot, Citroën, Ford, Toyota
- Engine: 1.4, 2.0, 2.2 Diesel

- Injectors: Delphi
- Renault, Mercedes, Kia

Injector seat cleaning kit

Injector edge cleaning tool - UNIVERSAL

Special tool for injector edge resurfacing.

- Injectors: Universal

Injector edge cleaning tool

Injector seat cleaning tool - DENSO

Special tool for injector seat resurfacing.

- Injectors: Denso
- Toyota
- Mazda
- Mitsubishi
- Ø 17 - 19 mm

Injector seat cleaning tool

Injector seat cleaning tool - SIEMENS

Special tool for injector seat resurfacing.

- Injectors: Siemens
- Engine
- 1.4, 1.6, 2.0, 2.2 HDI

Injector seat cleaning tool
Injectors

**Injector seat cleaning tool - BOSCH**

Special tool for injector seat resurfacing.

- Injectors: Bosch
- Ø 15,5 mm

**Injector seat cleaning tool - DELPHI**

Special tool for injector seat resurfacing.

- Injectors: Delphi
- Ø 17 mm

**Injector seat cleaning tool - BOSCH**

Special tool for injector seat resurfacing.

- Injectors: Bosch
- Ø 17-19 mm

**Injector seat cleaning kit - BOSCH**

Injector seat resurfacing kit.

- Injectors: Bosch
- Ø 15,5-17-19 mm
Injector seat cleaning kit - SIEMENS, DELPHI

Injector seat resurgacing kit.

- Injectors: Siemens, Delphi
- Ø 17 mm

Injector seat cleaning kit 311 079 000

Blowing tool

Special blowing tool for injector seat. TO BE USED with codes 311078000 & 311079000.

- Filetto: M10, M8

Blowing tool 311 080 000

Ring extractor

Copper sealing ring extractor.

- With this extractor is possible to remove copper sealing without damaging the cylinder head. Equipped with a performing slide hammer.
- For washers with holes Ø 7 mm

Ring extractor 311 076 000

Ring extractor specific for TRUCKS

- With this extractor is possible to remove copper sealing without damaging the cylinder head. Equipped with a performing slide hammer.
- Injectors: Bosch
- Scania
- Iveco
- Renault
- For washers with holes Ø 10 mm

Ring extractor 311 144 000
**Ring extractor**

Special plier for removing copper sealing rings **specific for TRUCKS**. TO BE USED with code 311076000 (Copper sealing ring extractor).

- For washers with holes Ø 10 mm

**Hydraulic cylinder**

- Device to be used for removing injectors, hubs, bearings and for all the other applications where it can be used, such as mechanical parts very tighten. Version with cylinder 12 ton, stroke 8 mm.
- Connection: 3/8”-18 NPT
- Power: 117’679,8 N
- Stroke: 8 mm
- Dimensions: Ø 80x55 mm
- Pressure: 700 Bar
- Weight: 2,02 Kg
- Hole: Ø 21,5

**Hydraulic cylinder**

- Device to be used for removing injectors, hubs, bearings and for all the other applications where it can be used, such as mechanical parts very tighten. Version with cylinder 17 ton, stroke 70 mm.
- Connection: 3/8”-18 NPT
- Power: 166’713,05 N
- Stroke: 70 mm
- Dimensions: Ø 90x155 mm
- Pressure: 700 Bar
- Weight: 5,12 Kg
- Hole: Ø 20,4 mm
Hydraulic cylinder

- Device to be used for removing injectors, hubs, bearings and for all the other applications where it can be used, such as mechanical parts very tight. Version with cylinder 20 ton, stroke 8 mm.

- Connection: 3/8”-18 NPT
- Power: 196'133 N
- Stroke: 8 mm
- Dimensions: Ø 100x60 mm
- Pressure: 700 Bar
- Weight: 3.04 Kg
- Hole: Ø 33 mm
GLOW PLUGS
**Glow plug removal kit**

Complete set for removing glow plugs.

- Mercedes
- Engine
  - CDI
- Thread size M10x1

**Glow plug removal kit**

Complete set for removing glow plugs.

- The components supplied are the same as the ones included in code 311031000 plus:
  - M8x1 threaded male
  - Double diameters bit Ø 7 - Ø 5,5 mm.
- Mercedes
- Engine
  - CDI
- Thread size M10x1
- Thread size M8x1

**Blowing tool - BOSCH**

Dummy injector, suitable for blowing air into injector seat during broken glow plugs replacement operations.

- Size: Ø 19 mm
Glow plug removal kit

Complete set for removing glow plugs.

- Fiat

- Engine
  - 2.3 MJ, 3.0 MJ
  - Thread size M8x1

Glow plug removal kit

Complete set for removing glow plugs.

- Fiat

- Engine
  - 1.3 MJ
  - Thread size M8x1

Glow plug removal kit

Complete set for removing glow plugs.

- Renault

- Engine
  - 1.5, 1.9, 2.2, 2.5 dCi
  - Thread size M10x1
### Glow plug removal kit

Complete set for removing glow plugs.

- **Renault**
  - Engine: 2.0 dCi
  - Engine codes: M9R
  - Thread size M10x1

**Glow plug removal kit** 311 106 000

### Glow plug removal kit

Glow plug removal kit.

- **Ssangyong: Rodius, Actyon, Kyron, Rexton, Rexton II**
  - Engine: 2.0, 2.7 Diesel
  - Engine codes: D27DT, D20DT/664.951, D20DT, D20DT/664 950, D27DT/665 950, D27DTP
  - Thread size M10x1

**Glow plug removal kit** 311 111 000

### Glow plug removal kit

Set for removing glow plugs.

- **Peugeot, Citroën**
  - Engine: 2.0 HDi
  - Engine codes: DW10
  - Thread size M10x1

**Glow plug removal kit** 311 105 000
Glow plug removal kit

Set for removing glow plugs M10X1 - M10X1,25.

- Use the spiral drill Ø 5,5 supplied to remove glow plugs.
- Usage specifications: 
  \[ A \geq 14 \text{ mm} \]
  \[ L \leq 13 \text{ mm} \]

Glow plug removal kit

Set for removing glow plugs M9X1.

- Use the spiral drill Ø 4,5 supplied to remove glow plugs.
- Usage specifications: 
  \[ A \geq 20 \text{ mm} \]
  \[ L \leq 13 \text{ mm} \]

Glow plug removal kit

Set for removing glow plugs M8X1.

- Use the spiral drill Ø 4,5 supplied to remove glow plugs.
- Usage specifications: 
  \[ A \geq 20 \text{ mm} \]
  \[ L \leq 13 \text{ mm} \]
Glow plugs electrode removal kit.

- Kit suitable for removing the final part of the electrode in case of breakage or seizure of the glow plug M10 inside its seat, otherwise impossible to remove.
- Cost savings
- Reduced working times
- User-friendly

- Thread size M10

Glow plugs electrode removal kit.

- Kit suitable for removing the final part of the electrode in case of breakage or seizure of the glow plug M8 inside its seat, otherwise impossible to remove.
- Cost savings
- Reduced working times
- User-friendly

- Thread size M8

Sockets for special screws removal mounted on the Bosch CR & Bosch TDI injection pump.

- The sockets are required to loosen and remove the triangular headed anti-tamper screw on the quantity adjuster’s top cover

- Bosch CR
- Bosch TDI

Sockets for special screws removal mounted on the Bosch CR & Bosch TDI injection pump.

- The sockets are required to loosen and remove the triangular headed anti-tamper screw on the quantity adjuster’s top cover

- Bosch CR
- Bosch TDI
### Glow plug reamer

**Glow plugs reaming kit.**

- Special set suitable for cleaning the glow plug shaft and the sealing seat in the cylinder head. It is recommended the usage of code 311031019 for blowing out aluminium cuttings.

- Thread size M10x1

- Thread size M10x1,25

<table>
<thead>
<tr>
<th>Glow plug reamer</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>311 059 000</td>
<td></td>
</tr>
</tbody>
</table>

### Glow plug reamer

**Glow plugs reaming kit.**

- Special set suitable for cleaning the glow plug shaft and the sealing seat in the cylinder head. It is recommended the usage of code 311031019 for blowing out aluminium cuttings.

- Thread size M8x1

<table>
<thead>
<tr>
<th>Glow plug reamer</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>311 082 000</td>
<td></td>
</tr>
</tbody>
</table>

### Glow plug reamer

**Glow plugs reaming kit.**

- Special set suitable for cleaning the glow plug shaft and the sealing seat in the cylinder head. It is recommended the usage of code 311031019 for blowing out aluminium cuttings.

- Thread size M9x1

<table>
<thead>
<tr>
<th>Glow plug reamer</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>311 092 000</td>
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</tbody>
</table>

### Glow plug reamer

**Glow plugs reaming kit.**

- Special set suitable for cleaning the glow plug shaft and the sealing seat in the cylinder head. It is recommended the usage of code 311031019 for blowing out aluminium cuttings.

- Thread size M10x1

- Thread size M10x1,25

- Thread size M8x1

<table>
<thead>
<tr>
<th>Glow plug reamer</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>311 091 000</td>
<td></td>
</tr>
</tbody>
</table>
**Glow plugs**

---

**Glow plug reamer**

Glow plugs M10x1 and M10x1,25 reaming kit. It is recommended the usage of code 311031019 for blowing out aluminium cuttings.

- Special set suitable for cleaning the glow plug shaft and the sealing seat in the cylinder head. It includes a tool for manual use, fixed to a knob for rotation and a guide to insert into the threaded seat of the glow plug.
- Renault M9R: M10x1
- Toyota: M10x1,25
- To use for the M10 glow plug seat with electrode Ø 4.1

Glow plug reamer 311 149 000

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**Glow plug reamer**

Glow plugs reaming kit.

- Special set suitable for cleaning the glow plug shaft and the sealing seat in the cylinder head. It is recommended the usage of code 311031019 for blowing out aluminium cuttings.
- Thread size M8x1
- Thread size M9x1
- Thread size M10x1
- Thread size M10x1,25

Glow plug reamer 311 109 000

---

**Glow plugs repair kit**

Glow plugs thread repair set.

- Thread size M8x1
- Thread size M9x1
- Thread size M10x1

Glow plugs repair kit 772 003 000
Glow plugs repair kit

Glow plugs & spark plugs complete Thread Repair Set.

- **Application - GLOW PLUGS**
  - M8x1 set
  - M9x1 set
  - M10x1 set
  - M10x1.25 set
  - M12x1.25 set

- **Application SPARK PLUGS**
  - M12x1.25 set
  - M14x1.25 set

Glow plug extractor

Roller extractor for removing glow plugs electrode.

- Thanks to the extracting bushes the extractors fit perfectly to the glow plug seats granted a perfect removal.

<table>
<thead>
<tr>
<th>Glow plug extractor</th>
<th>ø</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2,5 mm</td>
<td>734 001 000</td>
</tr>
<tr>
<td></td>
<td>3,5 mm</td>
<td>734 002 000</td>
</tr>
<tr>
<td></td>
<td>4 mm</td>
<td>734 003 000</td>
</tr>
<tr>
<td></td>
<td>5 mm</td>
<td>734 004 000</td>
</tr>
<tr>
<td></td>
<td>7 mm</td>
<td>734 005 000</td>
</tr>
<tr>
<td></td>
<td>2 mm</td>
<td>734 006 000</td>
</tr>
</tbody>
</table>
Clutch aligner set SAC

SAC clutches set.

- This special kit of tools suitable for SAC and traditional clutches allows easy dismounting and mounting clutch operations avoiding any problems.
  - Longer life clutch
  - Reduction of vibrations
  - Saving time

This special kit of tools suitable for SAC and traditional clutches allows easy dismounting and mounting clutch operations avoiding any problems.

- Supplied with two plates: 3-arms & 4-arms (specific for MB)
- Longer life clutch
- Reduction of vibrations
- Saving time

Clutch aligner set SAC

This kit allows the centering of the clutch plate in relation to the guide bearing or to the pre-tensioning device. TO BE USED with codes 318008000 & 318007000.
**Clutch aligner set SAC**

This special kit of tools suitable for SAC and traditional clutches allows easy dismounting and mounting clutch operations avoiding any problems.

- Supplied with a 3-arms plate
- Longer life clutch
- Reduction of vibrations
- Saving time

---

**Clutch aligner set SAC**

Updated kit for SAC clutch set. TO BE USED with code 318 010 000.

- To be used in case of clutches WITHOUT pressure plate bearings.

---

**Clutch aligner set SAC**

SAC clutches set.

- Complete Set to be used with all SAC clutches with or without pressure plate bearings.
Spare part kit
Special kit to restore threads on aluminum engine heads.

- Suitable for restoring fixing threads for injector support on diesel engines (Mercedes models, etc.)

<table>
<thead>
<tr>
<th>Spare part kit</th>
<th>772 001 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spare part kit including n. 10 threaded inserts</td>
<td>772 001 002</td>
</tr>
</tbody>
</table>

CNG filling valve
Kit of wenches specific for the removal of CNG filling charging valve.

- Fiat: Multipla (new and old models)
- CNG
- Connection 1"

| CNG filling valve | 311 107 000 |

CNG filling valve
Kit of wenches specific for the removal of CNG filling charging valve.

- Opel: Zafira (new and old models)
- CNG
- Connection 3/4"

| CNG filling valve | 311 108 000 |

CNG filling valve
Kit of wenches specific for the removal of CNG filling charging valve.

- Fiat: Panda
- CNG
- Connection 3/4"

<p>| CNG filling valve | 311 170 000 |</p>
<table>
<thead>
<tr>
<th><strong>Socket</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Special tool for replacing oxygen sensor.</td>
<td></td>
</tr>
<tr>
<td><img src="image1.jpg" alt="Image" /> 22 mm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Socket</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Special tool for replacing oxygen sensor.</td>
<td></td>
</tr>
<tr>
<td><img src="image2.jpg" alt="Image" /> 20 mm</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Plier</strong></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Special plier with specific grip for dismounting automatic fuel connection.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Locking wrench</strong></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Locking wrench for metallic clamps between rubber caps and cardan joints.</td>
<td></td>
</tr>
</tbody>
</table>
**Pulley extractor**

Adjustable extracting tool for Poli/V pulleys.

- Pulley diameter: Min 50 mm. Max 180 mm.
- Cog depth: 3.5 mm.

**Polygonal wrenches**

Set of polygonal wrenches for dismounting the bolts of timing, auxiliary and tensioner pulleys equipped with n.5 wrenches.

- WRENCHES INCLUDED:
  - Polygonal wrench 13 mm.
  - Polygonal wrench 15 mm.
  - Polygonal wrench 16 mm.
  - Polygonal wrench 17 mm.
  - Polygonal wrench 19 mm
  - Polygonal wrench 18 mm.
  - Polygonal wrench 14 mm.
ON DEMAND Polygonal wrench
Polygonal wrench 12 mm.

Polygonal wrench 313 186 021

ON DEMAND Polygonal wrench
Polygonal wrench 15 mm.

Polygonal wrench 313 186 022

ON DEMAND Polygonal wrench
Polygonal wrench 11 mm.

Polygonal wrench 313 182 014

ON DEMAND Polygonal wrench
Polygonal wrench 10 mm.

Polygonal wrench 313 186 023

ON DEMAND Handle for polygonal wrenches
Handle for polygonal wrenches

Handle for wrenches 313 186 024
**General repairs**

**Torx Wrenches**

Socket spanners Set - E-Profiles 9 pcs.

**Application:** mounting and dismounting Torx screws.

- **WRENCHES INCLUDED:**
  - Wrench E8
  - Wrench E10
  - Wrench E12
  - Wrench E14
  - Wrench E16
  - Wrench E18
  - Wrench E20
  - Wrench E22

**ON DEMAND Torx Wrench**

- **Wrench E8.**

**ON DEMAND Torx Wrench**

- **Wrench E10.**

**ON DEMAND Torx Wrench**

- **Wrench E12.**

**ON DEMAND Torx Wrench**

- **Wrench E14.**

**WRENCHES INCLUDED:**

- Wrench E8
- Wrench E10
- Wrench E12
- Wrench E14
- Wrench E16
- Wrench E18
- Wrench E20
- Wrench E22

**Socket spanners Set - E-Profiles 9 pcs.**

**Application:** mounting and dismounting Torx screws.

- **WRENCHES INCLUDED:**
  - Wrench E8
  - Wrench E10
  - Wrench E12
  - Wrench E14
  - Wrench E16
  - Wrench E18
  - Wrench E20
  - Wrench E22
<table>
<thead>
<tr>
<th>ON DEMAND Torx Wrench</th>
<th>Torx Wrench</th>
<th>313 206 005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrench E14</td>
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<td></td>
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</table>

<table>
<thead>
<tr>
<th>ON DEMAND Torx Wrench</th>
<th>Torx Wrench</th>
<th>313 206 006</th>
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</thead>
<tbody>
<tr>
<td>Wrench E16</td>
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</table>

<table>
<thead>
<tr>
<th>ON DEMAND Torx Wrench</th>
<th>Torx Wrench</th>
<th>313 206 007</th>
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</thead>
<tbody>
<tr>
<td>Wrench E18</td>
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</table>

<table>
<thead>
<tr>
<th>ON DEMAND Torx Wrench</th>
<th>Torx Wrench</th>
<th>313 206 008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrench E20</td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ON DEMAND Torx Wrench</th>
<th>Torx Wrench</th>
<th>313 206 009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrench E22</td>
<td></td>
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</tr>
</tbody>
</table>
General repairs

**Stretch belts kit**

Special kit suitable for mounting the new stretch belts.

**Components**
- Belt fitting tool: Ø 50, Ø 32
- Vit: M8x25 Ø 5,9 mm, M8x40 Ø 5,7 mm, M8x65 Ø 5,6 mm

<table>
<thead>
<tr>
<th>Stretch belts kit</th>
<th>313 191 000</th>
</tr>
</thead>
</table>

**Stretch belts kit double pulleys**

Special kit suitable for mounting UNI-Flex stretch belt, specific for double pulleys.

- Easy and fast belt replacement also when there is any belt tensioner.
- Any damage to pulleys and belts granted
- Ford Focus, C-Max: 1.6 TDCI
- Peugeot 207, 308, 407, Partner, 5008, 3008: 1.6 HDI
- Mazda 3, 1.6 DE

<table>
<thead>
<tr>
<th>Stretch belts kit</th>
<th>313 219 000</th>
</tr>
</thead>
</table>

**Stretch belts kit**

Special stretch belt tool for a safety removal without damaging pulleys and belts.

- High time saving
- High cost saving
- Easy and fast belt replacement
- Universally applicable due to the long slot

**Components**
- Screw: M8x65 Ø 5,6 · L=32,5
- Screw: M8x65 Ø 5,6 mm · L=11,5

<table>
<thead>
<tr>
<th>Stretch belts kit</th>
<th>313 196 000</th>
</tr>
</thead>
</table>
Stretch belts kit

Kit for mounting and dismounting the new stretch timing belts without damaging pulleys and belts.

- High time saving
- High cost saving
- Easy and fast belt replacement
- Universally applicable due to the long slot

**Components**
- Belt fitting tool: Ø 50, Ø 32
- Screws: M8x65 Ø 5,6 mm - L=32,5, M8x65 Ø 5,6 mm - L=11,5, M8x25 Ø 5,9 mm, M8x40 Ø 5,7 mm

Stretch belts kit 313 198 000

Wrench - BOSCH

Wrench for dismounting phase alternator.

- Bosch

Wrench 311 005 000

Wrench - DELPHI

Wrench for dismounting phase alternator.

- Delphi

Wrench 311 043 000

Wrenches for alternators - BOSCH, MAGNETI MARELLI, DELPHI

Set of wrenches for dismounting phase alternators.

- Bosch
- Magneti Marelli
- Delphi

Wrenches for alternators 310 076 000
Carburetor float removal

Carburetor float remover equipped with 5 series of extensions, that include also PSA and Renault models.

- PSA
- Renault

- It covers different diameters: from min. 70 to max. 170 mm

![Carburetor float removal](image)

Pulley wrench - UNIVERSAL

Adjustable wrench for locking and rotating pulleys.

- Cylinders Ø 50 - 160 mm
- Stones Length 100 mm

![Pulley wrench - UNIVERSAL](image)

Honing tool

Adjustable honing at full expansion for cars.

- Cylinders Ø 50 - 160 mm
- Stones Length 100 mm

![Honing tool](image)
**Honing tool**

Adjustable honing at full expansion for motorbike.

- Easy working: apply the device to a common hand or column drill at the speed of 1500-2000 rpm.
- Insert the arms into the hole, adjusting pressure according to your necessity. During the work the arms inside the cylinder compress the sectors against the side of the cylinder, centering themselves automatically. A flexible bar inserted in the support gives a working possibility to all the surface even if it is conic. The durability of the operation must be related to the speed of the drill. It is recommended to lubricate always the honing stone and surface.
- Motorbike
- Cylinders Ø 30 - 90 mm
- Stones Length 100 mm

<table>
<thead>
<tr>
<th>Honing tool</th>
<th>414 000 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spare parts: Serie 3 stones with support - Length 100 mm</td>
<td>414 001 000</td>
</tr>
</tbody>
</table>

**Air operated motorcycle clamp**

Air operated motorcycle clamp.

- This machine allows a fast and safe motorcycles repair. The pneumatic cylinder and the special vice shape make possible to lock all types of wheels, from the smallest (scooter) to the biggest (maxi-motorcycles), without damaging the rim. The safety-valves allow to lock and to repair the motorcycles without using any other supports. This machine is equipped also with a drive-valve to adjust the opening and closing speed of the wheel. Applicable to all the types of lifting bridges for motorcycle, it is predisposed for the fixing. With simplicity and safety blocks all the types of motorcycles-wheels.
- Motorbike
- CE approved machine in compliance with 2006/42/CE (Machine Directive)
- Packaging Dimensions: 530x610x550 mm
- Machine weight: 24 Kg
- Working pressure: min 6 bar, max 10 bar
- Power: 8 bar= 300 Kg, 10 bar=500 Kg

| Air operated motorcycle clamp         | 490 000 000 |
SUSPENSIONS

SHOCK ABSORBERS .......................... 143
HUBS & BEARINGS .......................... 155
SHOCK ABSORBERS
### Universal pneumatic coil spring compressor - Passengers cars

Universal pneumatic machine for assembling and disassembling strut and coils springs.

**SAFETY VALVES LOCKING SYSTEM.**

- **ALS - Auto Leveling System**
  The two auto leveling upper arms simplify working on conical and misaligned springs.
- **Aluminium Cylinder**
  Manufactured from light alloy and resin to eliminate risk of corrosion and internal parts failure.
- **Brackets system**
  Front and side spring clamps designed for fast changeover using unique Brackets System.
- **Foot-pedal and safety guard with safety valves**
  The foot-pedal works only when the safety valve is closed; if it is open the foot-pedal is blocked. Consequently the machine can be disconnected without dangers granting the maximum safety. If the safety guard remains open, the machine is equipped with a safety valve that does not allow working operations.
- **Tools Rack**
  The machine is equipped with a practical and steady tools rack.

- **CE approved machine in compliance with 2006/42/CE (Machine Directive).**
- **Machine dimensions:** 650x400x1400 mm.
- **Packaging dimensions:** 520x300x1400 mm.
- **Machine weight:** 65 Kg.
- **Working pressure:** pressione di esercizio min 6 bar., max 10 bar.
- **Cylinder stroke:** 330 mm.

**Compression force:** 10 bar = 1.226 Kg

---

### Spare Parts

<table>
<thead>
<tr>
<th>Part</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strut vice (ref. 1)</td>
<td>321 088 000</td>
</tr>
<tr>
<td>Bracket A: Ø 78 - Ø 130 mm (ref. 2)</td>
<td>321 084 000</td>
</tr>
<tr>
<td>Bracket B: Ø 125 - Ø 205 mm (ref. 3)</td>
<td>321 086 000</td>
</tr>
</tbody>
</table>
Pneumatic coil spring compressor - **Passengers cars, suv & commercial vehicles**

Pneumatic machine for assembling and disassembling strut and coils springs.

**SPECIAL VERSION: NEW CYLINDER + MORE POWER + SAFETY VALVES LOCKING SYSTEM.**

- **ALS - Auto Leveling System**
  The two auto leveling upper arms simplify working on conical and misaligned springs.

- **Aluminium Cylinder**
  Manufactured from light alloy and resin to eliminate risk of corrosion and internal parts failure.

- **Brackets system**
  Front and side spring clamps designed for fast changeover using unique Brackets System.

- **Foot-pedal and safety guard with safety valves**
  The foot-pedal works only when the safety valve is closed; if it is open the foot-pedal is blocked. Consequently the machine can be disconnected without dangers granting the maximum safety. If the safety guard remains open, the machine is equipped with a safety valve that does not allow working operations.

- **Tools Rack**
  The machine is equipped with a practical and steady tools rack.

- **CE approved machine in compliance with 2006/42/CE (Machine Directive).**

- **Machine dimensions: 650x400x1400 mm.**
- **Packaging dimensions: 520x300x1400 mm.**
- **Machine weight: 6.5 Kg.**
- **Working pressure: pressione d’esercizio min 6 bar., max 10 bar**
- **Cylinder stroke: 330 mm.**

- **Compression force: 10 bar=1.960 Kg**

---

**Pneumatic coil spring compressor**

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strut vice (ref. 1)</td>
<td>321 088 000</td>
</tr>
<tr>
<td>Bracket A: Ø 78 - Ø 130 mm (ref. 2)</td>
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</tr>
<tr>
<td>Bracket B: Ø 125 - Ø 205 mm (ref. 3)</td>
<td>321 086 000</td>
</tr>
</tbody>
</table>
Universal pneumatic machine for assembling and disassembling shock absorbers. EXTRA HEAVY DUTY - SAFETY VALVES LOCKING SYSTEM.

- **ALS - Auto Leveling System**
  - The two auto leveling upper arms simplify working on conical and misaligned springs.

- **Aluminium Cylinder**
  - Manufactured from light alloy and resin to eliminate risk of corrosion and internal parts failure.

- **Brackets system**
  - Front and side spring clamps designed for fast changeover using unique Brackets System.

- **Foot-pedal and safety guard with safety valves**
  - The foot-pedal works only when the safety valve is closed; if it is open the foot-pedal is blocked. Consequently the machine can be disconnected without dangers granting the maximum safety. If the safety guard remains open, the machine is equipped with a safety valve that does not allow working operations.

- **Tools Rack**
  - The machine is equipped with a practical and steady tools rack.

- **CE approved machine in compliance with 2006/42/CE (Machine Directive).**

- **Machine dimensions:** 650x400x1600 mm.
- **Packaging dimensions:** 520x300x1600 mm.
- **Machine weight:** 74 Kg.
- **Working pressure:** min 6 bar, max 10 bar
- **Cylinder stroke:** 330 mm.

- **Compression force:** 10 bar = 2.452 Kg
Mechanical coil spring compressor

Mechanical Coil Spring Compressor Workstation.

IMPACT WRENCH OPERATION

› Working system
  Use with Air Impact Wrench or 19mm socket /wrench.

› ALS - Auto Leveling System
  The two auto leveling upper arms allow to work easily both on conical and misaligned springs.

› Working Stroke
  It is possible to use this auto levelling machine also in case of long shock absorbers thanks to its 330 mm stroke.

› Safety fastening system
  Supplied with Vice Clamp for holding strut assemblies.

› Safety Guard
  Fitted Safety Guard for operator safety.

› Tools Rack
  The machine is equipped with a practical and steady tools rack.


› Machine dimensions: 560x540x1300 mm.

› Packaging dimensions: 540x310x1400 mm.

› Machine weight: 50,4 Kg.

› Drive connection: Hex 19 mm

› Working stroke: 330 mm.

Compression force: max 1.600 Kg

Use the machine with Air Impact Wrench or 19mm socket /wrench

<table>
<thead>
<tr>
<th>Mechanical coil spring compressor</th>
<th>321 051 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strut vice</td>
<td>321 088 000</td>
</tr>
</tbody>
</table>
ON DEMAND Special bracket for Mercedes
Bracket suitable for MB. TO BE USED with code 321 085 000.

- New Mercedes C-Class starting from 2010

| Bracket | 321 053 000 |

ON DEMAND Mercedes Bracket Set
Mercedes Bracket Set.

- Mercedes A, C & E Class

<table>
<thead>
<tr>
<th>Brackets Set</th>
<th>320 014 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket “C” model from Ø 105 mm. to Ø 182 mm (1)</td>
<td>321 085 000</td>
</tr>
<tr>
<td>Upper bracket for Mercedes A, B, C, E Class (2)</td>
<td>321 031 000</td>
</tr>
<tr>
<td>Mercedes E-Class bracket (3)</td>
<td>321 034 000</td>
</tr>
</tbody>
</table>

ON DEMAND Upper jaw set
Upper jaw set.

- Japanese cars: Toyota, Honda, etc...

| Morsetti superiori | 321 030 000 |

ON DEMAND Bracket
Bracket Ø 105–187 mm.

- Renault: Koleos
- Nissan: Qashqai

| Bracket | 321 087 000 |
ON DEMAND Strut support

Adjustable support for upholding the strut

Strut support

321 028 000

ON DEMAND Safety guard

Safety guards for Workstations codes 321 000 000, 321 033 025 & 321 055 000

Safety guard for 321 000 000

321 038 009

Safety guard for 321 033 025 & 321 055 000

321 033 023

ON DEMAND Bracket “C” model

Bracket “C” model from Ø 105 mm. to Ø 182 mm.

- Renault: Megane, new Clio
- Citroën: C3, C2
- Peugeot: 207, 307
- Mercedes: B-C-E-Class
- Fiat: Multipla BiPower

Bracket “C” model

321 085 000
ON DEMAND Bracket
Bracket.
- Porsche: Cayenne
- VW: Tuareg.

Bracket 321 035 000

ON DEMAND Special bracket for FERRARI
Special brackets suitable for Ferrari models (old and new ones)
- This special kit allows to adjust the position of the ring nut on Ferrari shock-absorbers.

Special bracket for FERRARI 321 006 000

ON DEMAND Special vice for Chrysler
Special vice suitable for Chrysler.
- Vice for holding the strut during assembling and disassembling shock-absorber operation.
- Chrysler: Voyager

Special vice for Chrysler 321 005 000

ON DEMAND Adjustable screwer-stand.
Adjustable screwer-stand.

Adjustable screwer-stand. 321 045 000
### ON DEMAND Pedestal

Pedestal equipped with wheels for 321 000 000, 321 055 000 and 321 033 025.

- This component allows to move the machine easily.

| Pedestal for models 321 000 000, 321 055 000 and 321 033 025 | 321 046 000 |

### ON DEMAND Additional air connection for screwer

Additional air connection for screwer.

- M-Bayonet joint
- F-1/4” joint with milled nut
- F-1/4” joint

| Additional air connection | 321 047 000 |

### ON DEMAND Vice

Strut vice.

| Strut vice | 321 088 000 |

### HEAVY DUTY Coil spring compressor - screw type - for Truck, SUV & Commercial Vehicles

Set of 2 threaded screws + 2 jaws.

- Universal spring compressor heavy duty version, for vans, commercial vehicles and heavy duty springs.

| Set of screws + jaws | 321 036 000 |
Suspensions & Shock absorbers

Coil spring compressor - screw type

Set of 2 long and short screws + 4 jaws.
- Designed to compress manually all MacPherson springs working directly on cars.
- The strut can be removed without dismounting the bearing housing.

Control system and testing device for shock absorbers

Control system and testing device for shock absorbers on auto vehicles.

- This device allows to realize the diagnosis a part from the geometry of the vehicle, the place where the test takes place, as well as the knowledge and the experience of the user.
- It also realizes a reproducible diagnosis that can guarantee a wide reliability.
- In an advantageous way, the wear state, other than being defined numerically, can be represented through a user interface with referential values which may be interpreted quickly also by a normal user not expert in the sector, as for example a red coloured indication for shock-absorbers to replace, green for non worn shock-absorbers and yellow for an intermediate state in which shock-absorbers replacement is advised.
- The output foresees an RF connection with a remote USB device which acts as interface with a PC, and one on a TFT display directly applied to the sensor on the hood of the car.
- The diagnosis method for suspensions foresees the use of a hosting base and sensors for the detection of oscillations, placed firmly to the vehicle’s frame in correspondence of the shock absorbers.

Usage:
- Application of sensors on the chassis
- Advancement of the autovehicle on the platform.
- Data transmission and diagnosis surveying.

Study, design and prototype realized in collaboration with the Engineering Department of the University of Modena.
Special kit for mounting shock absorbers

Special kit for mounting shock absorbers with stop buffers.
Situated inside the shock absorber, the buffer absorbs the bump, ensuring the integrity of the shock absorber in the moment it reaches the end of its stroke.

- Thanks to the universal vice the cylinder stem remains in extension during compression of the spring.

- BMW
- Nissan
- Fiat
- Peugeot
- Ford
- Toyota

Disassembling:
- Remove the shock absorber completely.
- Move upwards the dust cover or the buffer.
- Degrease the cylinder stem
- Mount and fix the clamp

Assembling:
- Install the clamp with the fixing screws.
- Screw the stem puller in the support by positioning the unit on the shock absorber and fix the stem of the cylinder with the locking nut.
- Extract the stem puller and lock it with a light rotation towards right or left.
- In case the buffer has not come out completely after this first step, it is possible to extract the stem by another 20 mm by keeping the handle still and rotating the stem puller.
- When the extraction is complete, lock the clamp with the appropriate screws.
- The complete extended stem is the result of the proper use of the device.

Install the clamp with the fixing screws.
Screw the stem puller in the support by positioning the unit on the shock absorber and fix the stem of the cylinder with the locking nut.
Extract the stem puller and lock it with a light rotation towards right or left.
In case the buffer has not come out completely after this first step, it is possible to extract the stem by another 20 mm by keeping the handle still and rotating the stem puller.
When the extraction is complete, lock the clamp with the appropriate screws.
The complete extended stem is the result of the proper use of the device.

After having assembled the shock absorber, unscrew the two screws to remove the vice.

Special kit for mounting shock absorbers 321 061 000
Hubs & Bearings

Sets for hubs and bearings

Set of 7 spacers for hubs and bearings removal.

- Renault
- Peugeot 106, 205
- Fiat
- Alfa
- Lancia
- VW Golf
- Opel Corsa, Astra
- Citroën
- Ford: Mondeo, Escort, Fiesta
- OffRoad.

<table>
<thead>
<tr>
<th>Set for hubs and bearings</th>
<th>320 002 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spacer to extract-insert Renault bearings</td>
<td>323 000 000</td>
</tr>
<tr>
<td>Spacer to extract-insert Peugeot 106 bearings</td>
<td>323 001 000</td>
</tr>
<tr>
<td>Spacer to extract-insert Fiat , VW Golf, Opel Corsa and Astra bearings</td>
<td>323 002 000</td>
</tr>
<tr>
<td>Spacer to extract-insert Citroën bearings</td>
<td>323 003 000</td>
</tr>
<tr>
<td>Spacer to extract-insert Peugeot 205 bearings</td>
<td>323 004 000</td>
</tr>
<tr>
<td>Spacer to extract-insert Renault, Fiat, VW , Peugeot, Alfa, Lancia, Opel hubs</td>
<td>323 005 000</td>
</tr>
<tr>
<td>Spacer to extract insert Ford Mondeo, Escort, Fiesta,Peugeot e off roads hubs</td>
<td>323 006 000</td>
</tr>
</tbody>
</table>

Sets for hubs and bearings

Set of 3 spacers for bearings removals.

- Renault: Laguna
- Peugeot: 206
- VW: Golf IV
- Audi: A3

<table>
<thead>
<tr>
<th>Set for bearings</th>
<th>320 004 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spacer to extract-insert Renault Laguna bearings</td>
<td>323 009 000</td>
</tr>
<tr>
<td>Spacer to extract-insert Peugeot 206 bearings</td>
<td>323 010 000</td>
</tr>
<tr>
<td>Spacer to extract-insert VW Golf IV-Audi A3 bearings</td>
<td>323 013 000</td>
</tr>
</tbody>
</table>

Sets for hubs and bearings

Complete set for mounting and dismounting suspension bearings and hubs.

- Fiat: Ducato
- Citroën: Jumper
- Peugeot: Boxter

| Sets for hubs and bearings | 320 011 000 |
Sets for hubs and bearings

Set of tools for removing and inserting hubs and bearings.

- Renault: Laguna with ABS
- Fiat
- Alfa
- Lancia
- Citroen
- VW
- Peugeot: 206
- Ford
- Audi
- Off-Road

<table>
<thead>
<tr>
<th>Set for hubs and bearings</th>
<th>320 015 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearings: Renault</td>
<td>323 000 000</td>
</tr>
<tr>
<td>Bearings: Fiat, VW</td>
<td>323 002 000</td>
</tr>
<tr>
<td>Bearings: Citroen</td>
<td>323 003 000</td>
</tr>
<tr>
<td>Hubs: Renault, Peugeot, Fiat, Alfa, Lancia</td>
<td>323 005 000</td>
</tr>
<tr>
<td>Hubs: Peugeot, Ford and Off-Road</td>
<td>323 006 000</td>
</tr>
<tr>
<td>Hubs: Renault Laguna con ABS</td>
<td>323 009 000</td>
</tr>
<tr>
<td>Bearings: Peugeot 206</td>
<td>323 010 000</td>
</tr>
<tr>
<td>Bearings: VW, Audi</td>
<td>323 013 000</td>
</tr>
</tbody>
</table>

Sets for hubs and bearings

Set of tools for removing and inserting hubs and bearings.

- Renault: Laguna con ABS
- Fiat
- Lancia
- Alfa
- Peugeot: 206
- Citroen
- Ford
- Off-Road

<table>
<thead>
<tr>
<th>Set for hubs and bearings</th>
<th>320 016 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearings: Renault</td>
<td>323 000 000</td>
</tr>
<tr>
<td>Bearings: Citroen</td>
<td>323 003 000</td>
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<tr>
<td>Hubs: Renault Laguna con ABS</td>
<td>323 009 000</td>
</tr>
<tr>
<td>Bearings: Peugeot 206</td>
<td>323 010 000</td>
</tr>
</tbody>
</table>
Kit for ring bearings

Set of tools for the replacement of inner ring bearings.

- BMW
- VW
- Audi
- Ford
- Fiat
- Mercedes
- Opel
- Renault
- Peugeot
- Volvo

ON DEMAND Clip

Special small size clip TO BE USED with code 320003000.

- Extractor tool Ø 35/40

Shaft and CV joint kit

Universal complete set for replacing synchronizing shaft and CV joint.

- Centre distance: min.: 98 mm.
- Centre distance: max.: 130 mm.
- Holes: N. 3 => 6
- Screws: M12 => M14
Shaft and CV joint kit

Universal kit suitable for replacing synchronizing shafts and CV joints, with slide hammer.

- Centre distance min.: 98 mm.
- Centre distance max.: 130 mm.
- Holes: N. 3 => 6
- Screws: M12 => M14

Kit for bearings

Kit for dismounting bearings.

- This tool facilitates to insert bearing race and seals without damages to race and axle housing.
- Set of three rounded plates and one hammer to fit most standard wheel bearings.

Plate

Plate for disassembling ball bearings and gears.
## Hubs & Bearings

### Extractor

**Hubs extractor.**

- Renault: Trafic

<table>
<thead>
<tr>
<th>Extractor</th>
<th>323 011 000</th>
</tr>
</thead>
</table>

### Extractor

**Bearing extractor.**

- Renault: Trafic

<table>
<thead>
<tr>
<th>Extractor</th>
<th>323 012 000</th>
</tr>
</thead>
</table>

### Wrench

**Special XZN 18mm. wrench suitable for hubs removing.**

- VW: Golf, V serie

<table>
<thead>
<tr>
<th>Wrench</th>
<th>323 019 000</th>
</tr>
</thead>
</table>

### Set for Silent-Blocks

**Silent-block tool.**

- Use this tool for a correct Silent-block mounting, specific for Fiat Stilo

| Introduttore Silentblock | 322 003 000 |
Set for Silent-Blocks

Silent-block tool.

- Use this tool for a correct Silent-block mounting, specific for Golf IV.

Bearings and hubs extractor kit

Bearings and hubs extractor kit.

- Professional application for direct use on the vehicle (dismantling via the available hub extractor or universal percussion extractor)
  - Minimum effort
  - Great time savings
  - Easy and safe application
  - It can also be used in combination with the workshop press
  - It can also be used on Ø 62 +66 mm bearings via a modular system

- Audi: A2 dal 2000
- Skoda: Fabia dal 2000
- VW: Polo dal 2002, Fox dal 2005
- Seat: Ibiza dal 2002
GENERAL REPAIRS

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**Pressure and wind back tool**

Pressure and wind back tool.

- Fitted to wind-back the piston in floating calipers with integrated parking brake adjustment (right and left-handed rotation).
- The set is equipped with: 2 Screw Tools, 22 Adaptors, 1 support plate.

![Pressure and wind back tool](image1)

<table>
<thead>
<tr>
<th>2 Screw Tools</th>
<th>22 Adaptors</th>
<th>1 support plate</th>
</tr>
</thead>
</table>

**Pressure and wind back tool**

Special wind back tool for pressing back brake caliper pistons.

- Fiat

![Pressure and wind back tool](image2)

<table>
<thead>
<tr>
<th>Fiat</th>
<th>330 003 000</th>
</tr>
</thead>
</table>

**Extractor for steering system**

Special universal extractor for steering system.

- Ø 43,2 mm - 20,25 mm

![Extractor for steering system](image3)

<table>
<thead>
<tr>
<th>Ø 43,2 mm - 20,25 mm</th>
<th>385 001 000</th>
</tr>
</thead>
</table>
**Extractor for steering system**

Special universal extractor for steering system.

- Van
- Commercial vehicles
- Autovehicles

Ø 45,2 mm - 32.25 mm

**Honing tools for brakes cylinders**

"Mini" honing tool for brakes cylinders 3 stones.

- Cylinders Ø 20 - 80 mm
- Stones length 35 mm

**Spare parts**: Series 3 stones with support - Length 35 mm
Pin puller set

Special pin puller set for repair of dents by means of bonding techniques on bright or painted steel surfaces avoiding painting damages.

- Compact
- User-friendly
- Very versatile
- Damages on painting avoided

Pin puller set 340 004 000

Pin puller set

Special pin puller set for repair of dents by means of bonding techniques on bright or painted steel surfaces avoiding painting damages.

- Compact
- User-friendly
- Very versatile
- Damages on painting avoided

Pin puller set 340 001 000

Hammer

Slide hammer for body repair with suction pads connection.

Hammer 340 006 000
**Toe dolly**

Toe dolly

---

**Trolley**

3-shelved trolley.

- Height (H): 790 mm
- Width (A): 810 mm
- Depth (B): 410 mm
- Weight: 20 Kg

---

**Paper dispenser trolley with wheels**

Heavy duty paper dispenser trolley.

- Supplied with 6-station masking paper dispenser, spring loaded cutter bar and masking tape dispenser on all stations. Automatically applies adhesive tape to edges of masking paper
- Rolls accepted: 17 cm, 34 cm, 48 cm, 66 cm, 93 cm, 125 cm

---

**Wall-mounted paper dispenser**

Wall-mounted masking paper dispenser.

- Supplied with masking paper dispenser, spring loaded cutter bar and masking tape dispenser on all stations. Automatically applies adhesive tape to edges of masking paper
- Rolls accepted: 33 cm, 64 cm, 105 cm
Wall-mounted paper dispenser

Wall-mounted paper dispenser made of galvanized and enamelled metal tubes.

Floor-standing paper dispenser

Floor-standing paper dispenser made of galvanized and enamelled metal tubes

Floor-standing paper dispenser with wheels

Floor-standing paper dispenser with wheels and bagholder. Made of galvanized and enamelled metal tubes.
**Punch plier**

Punch pliers.

- Facilitate and make similar the welding of the sheets thanks to the holes realized on the new parts before assembling operations (e.g. mudguards etc.).

<table>
<thead>
<tr>
<th>Punch plier</th>
<th>hole Ø</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8 mm</td>
<td>344 005 000</td>
</tr>
<tr>
<td></td>
<td>6 mm</td>
<td>344 004 000</td>
</tr>
<tr>
<td></td>
<td>5 mm</td>
<td>344 003 000</td>
</tr>
<tr>
<td></td>
<td>4 mm</td>
<td>344 002 000</td>
</tr>
<tr>
<td></td>
<td>3 mm</td>
<td>344 000 000</td>
</tr>
</tbody>
</table>

**Sheet bending plier**

Sheet bending plier.

- Realizes an edge that allows to achieve the planarity between two superimposed steel sheets.

<table>
<thead>
<tr>
<th>Sheet bending plier</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>344 007 000</td>
</tr>
</tbody>
</table>

**Door skin folding tool**

Door skin or panels folding tool.

- Fitted with nylon pad to prevent panel deformation.

<table>
<thead>
<tr>
<th>Door skin folding tool</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>345 001 000</td>
</tr>
</tbody>
</table>
Tyre spreader

Air operated tyre spreader for cars and commercial vehicles.

- Supplied with a wall-mounted kit, it can rotate up to 360° in order to facilitate working operations.
  - In no-working condition the machine can be closed to the wall saving space.
- Auto vehicles
- Commercial vehicles
- CE approved machine in compliance with 2006/42/CE (Machine Directive)
  - Cylinder size: 40 mm
  - Max. tyre opening: max. 300 mm
  - Stroke: 170 mm.
  - Power: 75 Kgf (6 bar), 100 Kgf (8 bar)
  - Weight: 15 Kg

Portable tyre spreader

Portable pneumatic tyre spreader suitable for cars and commercial vehicles.

- This new tyre spreader is portable and weights only 6.2 kg. It is equipped with a strong handle, that allows an easy and practical handling.
  - The spreader opens out the tyre with a maximum width of 400 mm, consequently checking and working operations inside the tyre become really very easy and handy.
  - The working power is granted by the pneumatic cylinder, that can reach an opening force of over 300 kg and it is adjustable using the 2 valves that control the opening and the closure of the stem. This tyre spreader is suitable for auto and commercial vehicles tyres.
- Auto vehicles
- Commercial vehicles
- CE approved machine in compliance with 2006/42/CE (Machine Directive)
  - Cylinder size: 80 mm.
  - Max. tyre opening: max. 400 mm.
  - Stroke: 290 mm.
  - Power: 301 Kgf (6 bar)
  - Power: 401 Kgf (8 bar)
  - Weight: 6.2 Kg
Tyre regroover

- User-friendly. Any kind of blade can be used.
  - The converter is equipped with a light indicator, a safety fuse, 11 heating positions that enable to adjust working intensity
- Cars and commercial vehicles
- "CE" approved with electromagnetic compatibility
- Power supply: 220V. or 110V. 50-60 Hz, single phase
- Max. power absorbed: 400 W
- Handle working tension: 1,5 - 2 Volt
- Machine weight: 6,3 Kg
- Power cable length: 220 cm - Handle cable length: 150 cm
- Cutting width: from 2 mm. to 38 mm - Cutting depth: from 7 mm. to 30 mm

<table>
<thead>
<tr>
<th>Tyre regroover</th>
<th>110 V</th>
<th>360 001 000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tyre regroover</td>
<td>230 V</td>
<td>360 002 000</td>
</tr>
</tbody>
</table>

ON DEMAND Blades

Blades (NOT INCLUDED with the machine)

- All cleaning and maintenance operations must be effected with machine disconnected from the net. It is recommended to switch off the machine when stop working.
Headlight Testers
**Mechanical headlight tester**

Mechanical headlight beam tester with analogic graduated luxmeter, optical visor and single photodiode.

- Optical visor
- Analogic graduated luxmeter
- Lens of polycarbonate resin
- Inclination setting
- Sliding mechanism granted by precision self-lubricated Nylon skates

---

**Mechanical headlight tester**

Mechanical headlight beam tester with digital luxmeter, LASER visor and LASER positioning.

- Visore LASER
- Sliding mechanism granted by precision self-lubricated Nylon skates
- Inclination setting
- Lens of polycarbonate resin
- Luxometro digitale
- LASER pointing system

---

**Mechanical headlight tester**

351 000 000

---

**Mechanical headlight tester**

351 001 000
### Mechanical headlight tester

Mechanical headlight beam tester with optical visor and analogic graduated luxmeter.

- Optical visor
- Analogic graduated luxmeter
- Lens of polycarbonate resin

### Electronic headlight tester

Electronic headlight beam tester with mirror visor, digital luxmeter and PC connection.

- Mirror visor
- Digital luxmeter
- PC connection
- Inclination setting
- Sliding mechanism granted by precision self-lubricated Nylon skates
TRUCK

HUBS .................................................. 184
FLYWHEELS ........................................ 192
GENERAL REPAIRS ............................. 195
Wrench for hubs - ideal for BUS

Wrenches for hub cover and trailer nuts.

- Axle nut disassembly
- Axle models KASSBOHRER/SETRA: front axle 6.5 and 7.5t in types S 210 and 215, SG 219-221 and dead axle types S 216 HDS and S 228 DT types 0303, 0305-G and 0307
- Axle models DAF, Mercedes:
- Axle models Mercedes - Autobus:
  VO 3/10, 4/11, 4/13 e 4/19 in tipi 0303, 0305-G e 0307

- 56x71 mm - 1"

Wrench for hubs - ideal for BUS

Wrench for stud nut.

- Front axle models:
  SK VL5/1 D9-2629 in 6x4
  2635 in 6x4
  3535K 8x4
- Specific for MERCEDES, MAN

- 60x76 mm - 1"

Wrench for hubs - ideal for TRAILERS

Wrenches for hub cover.

- Loosen the outer cap of the axle
- Specific for BPW 9TN

- inner Ø 90 mm - 1"
Wrench for hubs - ideal for TRAILERS

Wrench for hub covers.

- Loosen the outer cap of the axle
- Specific for BPW 12TN
- inner Ø 74 mm - 1"

Wrench for hubs
523 021 000

Wrench for hubs - ideal for TRAILERS

Dual use wrenches for hub covers and trailer nuts.

- Trailer axle cover and nut disassembly
- Specific for FRUEHAUF
- Ø 123 mm
- hexagon 110 mm

Wrench for hubs
523 017 000

Wrench for hubs - ideal for TRAILERS

Octagonal wrench for trainer nut.

- Trailer axle nut disassembly
- Specific for R.O.R.
- octagon 127 mm
- Ø 126 mm

Wrench for hubs
523 012 000
**Hubs**

**Wrench for hubs - ideal for TRAILERS**

*Octagonal wrench for trainer nut.*

- Loosen the inner nut of the trailer axle
- Specific for R.O.R.
- Octagon 84 mm
- Ø 83 mm

![Octagonal wrench for trainer nut.](image)

**Wrench for hubs**  523 016 000

**Wrench for hubs - ideal for TRAILERS**

*Hexagonal wrench for trailer hub covers.*

- Trailer axle nut disassembly
- Specific for FONTENAC RENAULT
- Hexagon 160 mm - 1"

![Hexagonal wrench for trailer hub covers.](image)

**Wrench for hubs**  523 006 000

**Wrench for hubs - ideal for TRAILERS**

*Hexagonal wrench for trailer hub covers.*

- Trailer axle nut disassembly
- Specific for S.A.F.
- Hexagon 140 mm - 1"

![Hexagonal wrench for trailer hub covers.](image)

**Wrench for hubs**  523 007 000
Wrench for hubs - ideal for TRUCK

Toothed wrench for front axle.

- Front reduction hypoid axle nut disassembly
- Front axle models:
  - VW2 - VW4 - VW6.1 - 6.8
  - Specific for MAN
- 6 teeth - tooth width 10 mm
- inner Ø 77 mm - 1"

Wrench for hubs

6-teeth wrench for front axle.

- Axle nut disassembly
- Front axle models:
  - M3 - ME - MI
  - Rear axle models with outer planetary unit:
    - 3MR - 5MR
  - Specific for MAN
- 6 teeth - tooth width 13 mm
- inner Ø 76,5 mm - 3/4"

Wrench for hubs

6-teeth wrench.

- Loosen the nut of the rear axle
- Rear axle models:
  - TGA
  - Specific for MERCEDES, MAN
- 6 teeth - tooth width 11,5 mm
- inner Ø 117 mm - 1"

Wrench for hubs
Wrench for hubs - ideal for TRUCK

6 teeth wrench.

- Loosen the nut of the front axle with disc brakes and ABS
- Front axle models: TGA V9 - 82L - 01
- Specific for MAN
- 6 teeth - tooth width 8 mm
- Inner Ø 92,5 mm - 1"

**Wrench for hubs** 523 010 000

Wrench for hubs - ideal for BUS

6 teeth wrench for front axle.

- Front reduction hypoid axle nut disassembly
- Low-platform bus with gantry axle HDNP1300
- Specific for MAN AUTOBUS
- 6 teeth - tooth width 10 mm
- Inner Ø 110 mm - 1"

**Wrench for hubs** 523 024 000

Wrench for hubs - ideal for TRUCK

Dual use toothed wrench for nuts.

- Front axle models: 7TN AL7/1
- 12 teeth - tooth width 10 mm - inner Ø 102 mm
- 6 teeth - tooth width 10 mm - inner Ø 99 mm

**Wrench for hubs** 523 001 000
**Wrench for hubs - ideal for TRUCK**

6 teeth wrench for rear axle.

- **Rear reduction hypoid axle nut disassembly**
- **Rear axle models:**
  - HL2/2 - HL2/7 - HL2/13
- **6 teeth - tooth width 10,9 mm**
  - Inner Ø 71,5 mm - □ 3/4"

**Wrench for hubs**

523 002 000

---

**Wrench for hubs - ideal for TRUCK**

6 teeth wrench.

- **Wrench for dismounting the nut of the trailer balancing axle and the pinion**
- **Axle models:**
  - NS4/2 - NS4/10
  - Sprocket axle models:
    - HL6/1 - HL6/2 - HL6/3 - HD6/3
- **6 teeth - tooth width 9,8 mm**
  - Inner Ø 113 mm - □ 1"

**Wrench for hubs**

523 004 000

---

**Wrench for hubs - ideal for TRUCK**

6 teeth wrench.

- **Loosen the toothed nut**
- **Specific for MERCEDES ATEGO**
- **6 teeth - tooth width 7,5 mm**
  - Inner Ø 101 mm - □ 1"

**Wrench for hubs**

523 011 000
Wrench for hubs - ideal for TRUCK

12-teeth wrench for rear axle.

- Loosen the nut of the rear axle
- BRG year 2001
- Specifica per MERCEDES ACTROS 1840
- 12 teeth - tooth width 8 mm
- Inner Ø 90 mm - □ 1"

Wrench for hubs

523 013 000

Wrench for hubs - ideal for TRUCK

6-teeth wrench.

- Chiave smontaggio dado assi a riduzione ipoidale
- Rear axle models:
- Front axle models:
- 6 teeth - tooth width 10 mm
- Inner Ø 75 mm - □ 3/4"

Wrench for hubs

523 014 000

Wrench for hubs - ideal for TRUCK

Wrench for hexagonal nut.

- Rear axle
- Trailer axle
- Axle with compact bearings
- Hexagonal nut 95 mm - □ 1"

Wrench for hubs

523 023 000
**Wrench for hubs - ideal for TRUCK**

Toothed wrench for locknut.

- Rear axle
- Specific for SCANIA

- 4 teeth - tooth width 7.6 mm
- Inner Ø 91 mm - 1"

**Wrench for hubs**

523 015 000

---

**Wrench for hubs - ideal for COMMERCIAL VEHICLES**

Polygonal wrench for hubs.

- Axle nut disassembly
- Specific for IVECO

- Polygon 85 mm
- Inner Ø 83 mm - 1"

**Wrench for hubs**

523 008 000

---

**Wrench for hubs - ideal for COMMERCIAL VEHICLES**

6-teeth wrench for rear axle.

- Sprocket nut disassembly
- Rear axle models:
  VARIO 814 - SPRINTER 616 - ATEGO
  HL2/43 DG 6.2

- 6 teeth - tooth width 11 mm
- Inner Ø 88 mm - 1"

**Wrench for hubs**

521 001 000
Wrench for hubs - ideal for COMMERCIAL VEHICLES

6-teeth wrench.

- Loosen the nut of the rear reduction hypoid axle
- Rear axle models:
  - HL0/3 - HL0/6 - HL0/7 - HL1/2 - HL1/3 - HL1/8 - HL2/2 - HL2/3 - HL2/5 - HL2/9 - HL2/11 - HL2/12 - HL2/15
- Specific for MERCEDES SPRINTER - 412T - VW - LT

- 6 teeth • tooth width 7.5 mm
- Inner Ø 63 mm □ 1/2”

Wrench for hubs 523 022 000

Wrench for flywheel - ideal for TRUCK

System for dual gear engine flywheel rotation for MERCEDES timing search.

- Specific for MERCEDES:
  - 6, 8, 10 cylinders
- Models:

- 2 gears

Wrench for flywheel 513 003 000

Wrench for flywheel - ideal for TRUCK

Tool for engine flywheel rotation during the tappets adjustment.

- Specific for MAGNUM

- □ 1/2”

Wrench for flywheel 514 008 000
Wrench for flywheel - ideal for TRUCK

Tool for engine flywheel rotation during the tappets adjustment.

- Specific for RENAULT
- □ 1/2"

Wrench for flywheel
514 005 000

Wrench for flywheel - ideal for TRUCK

Gear for engine flywheel rotation during the timing search.

- Specific for VOLVO

Wrench for flywheel
513 001 000

Wrench for flywheel - ideal for TRUCK

Gear for engine flywheel rotation during the timing search.

- Specific for VOLVO

Wrench for flywheel
514 007 000
Flywheel / General repair

Wrench for flywheel - ideal for COMMERCIAL VEHICLES
System for dual gear engine flywheel rotation for IVECO timing search.

- Specific for IVECO
- Engine models:
  8040.25-45 / 8060.25-45 / 8460 / 8260 / 8280 / 8210.42 / 190.38 / 190.42
- Specific for Euro Cargo / Cargo
  Eurotech / Heavyon / Off Road / Bus

- 2 gears

Wrench for flywheel

513 004 000

Wrench for flywheel - ideal for COMMERCIAL VEHICLES
System for dual gear engine flywheel rotation for IVECO timing search.

- Specific for IVECO
- Engine models:
  8360.46 / F3A / F3B
- Specific for Euro Cargo / Cargo
  150E27R PR / DPR 320E27T / PT Eurotech / Eurostar

- 2 gears

Wrench for flywheel

514 006 000

Wrench for flywheel - ideal for TRUCK
System for triple gear engine flywheel rotation for MERCEDES timing search.

- Specific for MERCEDES ACTROS ATEGO

- 3 gears

Wrench for flywheel

513 002 000
**Heavy Duty valve spring compressor - FOR COMMERCIAL VEHICLES, TRUCKS, CATERPILLARS, SPECIAL ENGINES**

Air operated Heavy Duty valve spring compressor.

- Universal pneumatic tool for assembling and disassembling engine valves, suitable for all types of valves on petrol and diesel engines. Practical and easy to use, it permits time savings of up to 60/70%, especially during valve assembly. APPOSITE-LY MADE FOR ENGINES WITH 4/5 VALVES FOR CYLINDER.


- Case dimensions: 485x375x135 mm
- Machine weight: 6 Kg
- Working pressure: min 6 bar, max 10 bar
- Power: 6 bar=118 Kg, 10 bar=136 Kg.

<table>
<thead>
<tr>
<th>Heavy duty valve spring compressor</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure foot Ø 25.5 with 5 adaptors: 24,5 - 25 - 27 - 29 - 32 mm (A)</td>
<td>315 020 002</td>
</tr>
<tr>
<td>Pressure foot Ø 34 with 3 adaptors: 34 - 41 - 50 mm (B)</td>
<td>315 020 003</td>
</tr>
<tr>
<td>Pressure foot Ø 19,8 mm (C)</td>
<td>315 020 006</td>
</tr>
</tbody>
</table>

**Set for injectors removal - BOSCH, DELPHI**

Special injector extractor suitable for new generation Trucks that mount Injector-Pump system, and for traditional truck injectors.

- Injectors: Bosch, Delphi
- Volvo
- Scania
- Mercedes
- Man
- Renault
- Iveco

<table>
<thead>
<tr>
<th>Set for injectors removal</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>311 051 000</td>
</tr>
</tbody>
</table>
Ring extractor

Copper sealing ring extractor **specific for TRUCKS**

- With this extractor is possible to remove copper sealing without damaging the cylinder head. Equipped with a performing slide hammer.
- Injectors: Bosch
- Scania
- Iveco
- Renault
- For washers with holes Ø 10 mm

Ring extractor 311 144 000

Ring extractor

Special plier for removing copper sealing rings **specific for TRUCKS**

TO BE USED with code 311076000 (Copper sealing ring extractor).

- For washers with holes Ø 10 mm

Ring extractor 311 076 024

Honing tool TURCKS

Adjustable honing at full expansion for trucks.

- Cylinders Ø 60 - 260 mm
- Stones length 127 mm

Honing tool for trucks 314 003 000

Spare parts: Serie 3 stones g. 220 - Length mm 127 314 004 000