
























GOVONI
Specialty Automotive Tools
www.govoni.it

Catalogue 01. **13**



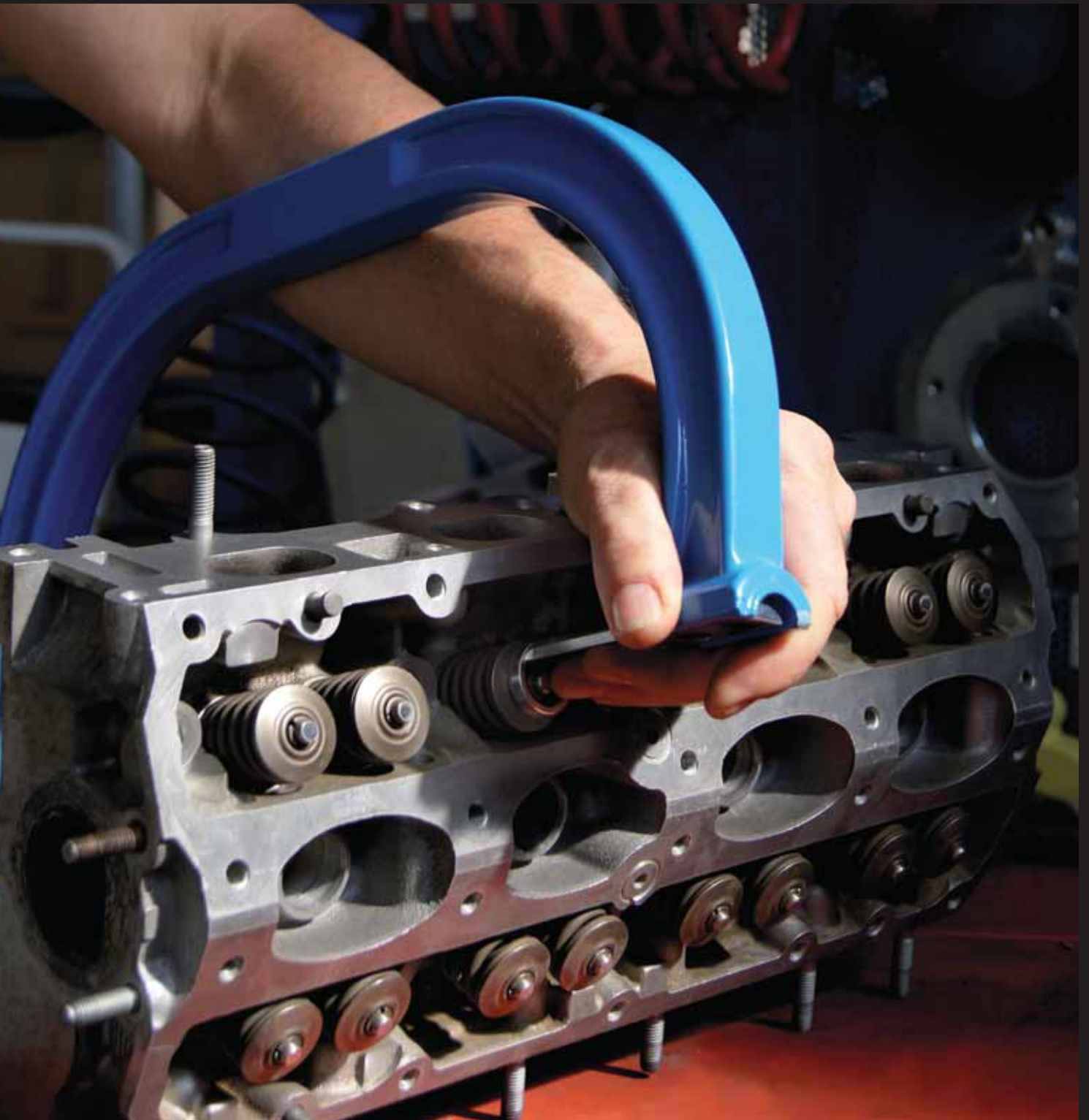
SYMBOLS

	Petrol		Valves		Brakes
	Diesel		Engine		Steering
	Belt		Oil sumps & Filters		Body tools
	Chain		Glow Plugs		Hubs & Bearings
	Tyres		Clutch		Motorbike
	Repairs tools		Timing tools		Headlight
	Injectors		Suspension		Pulley



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.



HISTORY

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



STAFF

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.

PRODUCTION

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.

WAREHOUSES

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.



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Specialty Automotive Tools

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AZIENDA

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PRODUZIONE

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WEBSITE

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.

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



▶ 105A-105S (2° & 3° cylinder):
Alfa 156 2000 16v
Spider & Grv 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 (2° & 3° cylinder):
Alfa 147 1.6 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



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

-  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, Z19DT/DTH/DTR/DTJ/DTL




Kit/Tools suitable for timing

310 074 000


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
- ▶ Fiat: Punto, Grande Punto, Bravo/Brava, Marea, Weekend, Stilo, Doblò/Cargo, Multipla, Idea, Panda.
- ▶ 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 CDTI, 1.9 CDTI, 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, 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 A7.000, 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



Kit/Tools suitable for timing

310 107 000

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



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

310 060 000

Kit/Tools suitable for timing



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



► Fiat: Idea, Punto, Grande Punto, Stilo, Panda, 500, Bravo, New Punto, Punto Evo, New Panda
► 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. TJet, 1.4 16v. 150 CV. TJet-jet, 1.4 Bi-Fuel GPL, 1.4 Natural Power a metano.



Engine codes
► 350A1.000, 169A4.000, 199A4.000



Kit/Tools suitable for timing

310 097 000

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



Kit/Tools suitable for timing

310 075 000

FIAT GROUP

Kit/Tools suitable for timing



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



► Fiat: Croma

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



Engine

► 2.2 16v bialbero



Engine codes

► 194A1.000, Z22SE, Z22YH



Kit/Tools suitable for timing

310 160 000

Tools for dismounting



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



Tools for dismounting

313 023 000

Belt tensioner



Universal belt tensioner.



► Ø 5 mm

► Ø 6 mm

► Ø 8 mm



Belt tensioner

313 036 000



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
- ▶ 4HV, F1AE0481D, F1AE0481N, F1CE0481D, F1CE0481F, F1CE0441F, F1CE0481H, F1AE0481R, F1AE0481G, F1AE0481F, F1AE0481H, P8FA, QVFA, QWFA, P8FB, SRFA, PGFA, PGFB, SRFB, SRFC, SRFD, SRFE, P22DTE (4HV), P22DTE (4HU), 4HV (P22DTE), 4HU (P22DTE).



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
- ▶ 176B9.000, 182B2.000, 188A5.000, 8 43A1.000, 178B3.000, 182A4.000, 182A6.000, 182B6.000.



Kit/Tools suitable for timing


310 131 000


FIAT GROUP

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

310 152 000

Kit/Tools suitable for timing



Adaptable timing kit for Fiat 0.9 Twin Air engines.

-  ▶ Fiat: 500, Panda, Punto (2012)
- ▶ Lancia: Ypsilon
-  ▶ Engine:
- ▶ 0.9 Twinair Turbo
-  ▶ Engine codes:
- ▶ 312A2.000



Kit/Tools suitable for timing

310 183 000



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



Kit/Tools suitable for timing

310 153 000

Belt tensioner



Special belt-stretcher suitable for Fiat Punto petrol engines.



► Fiat: Punto



Belt tensioner

313 029 000

Flywheel locking tool



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



► Fiat



Engine

► D, TD, JTD.



Flywheel locking tool

313 035 000

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



Belt tensioner

313 041 000

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

 Engine
▶ 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, 955A7.000, 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: EW10 (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) F6JA, F6JB, F6JC, G8DA, G8DB
-  ▶ Citroen : Xsara, C2, C3, C4, C5, C8 Evasion
▶ Peugeot: 107, 206, 207, 306, 307, 308, Ranch, Expert, 406, 407, 607, 807
▶ Engine: 1.4 -1.6 Hdi, 1.6 Duratorq TDCi, 1.6 D, 1.8-2.0 EW.
▶ Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ), F6JA, F6JB, F6JC, G8DA, G8DB, EW7J4(6FZ), EW10J4 (RFN/RFR), EW10J4S(RFK), EW10-CVi (RLZ), EW12 (3FZ), D4164T.




Kit/Tools suitable for timing

310 115 000

Kit/Tools suitable for timing



Complete set of timing tools suitable for diesel engines.

-  ▶ Fiat: Ulysse, Scudo, Ducato (riferimento JTD, Multijet)
-  ▶ Citroën: Xsara, Xsara Picasso, C2, C3, C4, C5, C8, Xantia, Evasion, Evasion Synergie, Berlingo, Dispatch, Dispatch Jumpy, Relay, Relay Jumper
-  ▶ Peugeot: 107, 206, 207, 306, 307, 308, 406, 406 Coupe, 407 607, 807, Expert, Partner, Boxer, Ranch
-  ▶ 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(8HV/8HY), DV6TED4(9HX/9HY/9HZ), DW10TD(RHY), DW10ATED/L3/L4, (RHS/RHW/RHZ), DW10BTED4 LB(RHR/RHX), DW10UTD(RHN), DW12ATED(4HW/4HX), DW12UTED(4HY), D4204T/2, G6DA, G6DB, G6DC **(per fase Ford necessario attrezzo 313 143 000)**



Kit/Tools suitable for timing

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 (8HV/8HX/8HZ), DV4TED4(8HV/8HY), DV6ATED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, G8DA, G8DB



- ▶ Citroën-Peugeot: Xsara, C2, C3, C4, C5, C8 Evasion, Berlingo, Xsara, Xsara/Picasso, Xantia, Evasion, C5.
- ▶ Peugeot: 107, 206, 207, 306, 307, 308, Ranch, Expert, 406, 407, 607, 807
- ▶ Engine: 1.4 -1.6 Hdi, 1.8-2.0 EW, 1.9 D, 2.0 Hdi, 2.2 Hdi, 1.8 16v., 2.0 16v.
- ▶ Engine codes: DV4TD (8HV/8HX/8HZ) - DV4TED4 (8HV/8HY) - DV6A TED4 (9HX/9HY/9HZ) F6JA - F6JBF6JC - G8DAG8DB - EW7J4 (6FZ) - EW10J4 (RFN/RFR) EW10J4S (RFK)-EW10-Cvi (RLZ)- EW12 (3FZ), DW8 (WJZ), DW10 (RHY-RHZ), DW12 (4HX), EW7J4 (6FZ), EW10J4 (RFR), EW10J4D (RLZ) - Cvi



Kit/Tools suitable for timing

310 123 000

**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: 318iS(E30), 318iS/Coupe(E36), 318 i/ti Comp(E36), Z3 1.9i - 18 4S 1, 19 4S 1; 320i (E36), 325i (E36) - 20 6S1, 25 6S 1, 25 6S 2; 320i (E36), 325i (E36) - 20 6S1, 25 6S 1 (Vanos); 320i (E36), 323i/Compact (E36), 328i (E36) - 20 6S3, 25 6S 3, 28 6S 1 (Vanos); 520i (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: 318td (E46), 318td Compact (E46), 320d, 320td Compact (E46) - 20 4D 1, 20 4D 4; 330d (E46) - 30 6D1; 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: 318tds (E36), 318tds Compact (E36) - 17 4T 1; 325td/tds (E36), 525td/tds (E34/E39), 725tds (E38) - 25 6T 1

**Kit/Tools suitable for timing****310 148 000**

Kit/Tools suitable for timing



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)
- ▶ Engine: M52B20 - M52TUB20 - M52B24 - M52B25 - M52TUB25 - M52B28 - M52TUB28
- ▶ Models: E36 320i; E39 520i; E36/7 Z3 2.0i; E46 320i/320Ci; E39 520i; E36 3-Series; E39 5-Series; E36 323i/323ti; E39 523i; Z3 2.5i; E46 323i/323Ci/323ti (M52T); E39 523i (M52TU); E36/7 Z3 (M52TU); E36 328i; E39 528i; E38 728i/728il; E36/7 Z3 2.8; E46 328i/328Ci; E36/7/8 Z3 2.8; E39 528i; E38 728i.
- ▶ Engine: M54B22 - M54B25 - M54B30
- ▶ Models: 320i/320 Ci E46; 520i E39; 520i E60/E61; Z3 2.2i; Z4 2.2i; 325ti E46; 325i/325xi E46; 325 Ci E46; Z3 2.5i; Z4 2.5i; 525i E39; 525i/525xi E60/E61; X3 2.5i E83; 330i/330xi E46; 330 Ci E46; Z3 3.0i; Z4 3.0i; 530i E39; 530i E60/E61; 730i E65/E66; X3 3.0i E83; X5 3.0i E53
- ▶ Engine: M56 (Engine 2.5 l)
- ▶ Modells: 325iA/M (E46)



- 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 1.9/2.8i (89-98)
- ▶ BMW petrol engines: 316i/Compact (E30 1.6/E36/E46), 318i E30 E36 E46 518i (E34 VANOS), e Z3 1.8/1.9i(88-04)
- ▶ BMW petrol SOHC: 316i/Compact (E30 1.6/E36/E46), 318i E30 E36 E46 518i (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



BMW petrol Sohc engines setting up tool model 2-M40,M43-E30: 316, 318 - E28: 518 - E36: 318is.



▶ BMW: 316i/Compact (E30 1.6/E36/E46), 318i E30 E36 E46) 518i (E34), e Z3 1.8/1.9i(88-04)

▶ 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

BMW

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

310 146 000

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

310 159 000

Kit/Tools suitable for timing



Complete timing kit suitable for BMW 2.0 Diesel engines.



▶ BMW: 118d. E81/87 (06-09) 120d. E81/82/87 (06-09) 123d. E81/82/87 (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

310 206 000



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
▶ 20 6S4, 22 6S 1, 25 6S 5, 25 6S 4, 28 6S 2, 30 6S 3.




Timing plate

310 110 002

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
▶ Engine codes: N40, N45, N45T, N42, N46, N46T, N51, N52, N52K, N53, N54.

▶ 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

310 159 005

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

313 216 000

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)
- ▶ Citroën: C3, C4, C4 Picasso
- ▶ Peugeot 207, Peugeot 308



Engine
▶ 1.4 - 1.6



Engine codes
▶ Mini: N12 B14AB, N12 B16A, N14 B16A
▶ Citroën: 8FR (EP3), 5FS (EP6)
▶ Peugeot: EP3 (8FS), EP6 (5FVW)



Kit/Tools suitable for timing

310 156 000



FORD

Kit/Tools suitable for timing



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



- ▶ Ford: 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
- ▶ FUJA, FUJB, FXJA, FXJB, FXJB, FYJA, FYJB, F8JA, F8JB, M7JA, M7JB, DHA, DHB, DHC, DHD, DHE, DHF, DHG, FHA, FHE, L1T, L1V, L1E, L1G, L1H, L1K, RDA, RDB, RKC, RQB, RQC, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDH, HWDA

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



Kit/Tools suitable for timing

310 004 000

Kit/Tools suitable for timing



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



- ▶ Ford: Fiesta, Fusion, Courier, Escort, Focus, Puma, Mondeo, Sierra, Transit, Connect e 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



- 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 (88-00), 1.8Di (belt) (98-04), 1.8Tdc belt (01-04), 1.6D, 1.9TDi, 2.5Di/TCi (belt)



- Engine codes
- ▶ FUJA, FUJB, FXJA, FXJB, FXJB, FYJA, FYJB, F8JA, F8JB, M7JA, M7JB, DHA, DHB, DHC, DHD, DHE, DHF, DHG, FHA, FHE, L1T, L1V, L1E, L1G, L1H, L1K, L1W, RDA, RDB, RKC, RQB, RQC, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDH, HWDA, 1Z, AUY, AHU, AVG, AFN, D24, D24T, D24TIC, RFN, RTJ, RTK, RVA, RFK, RKD, B4164S3, 4EB, 4EC, 4ED, 4FB, 4GA, 4HB, EAB, RFN, C9DC, F9DA.



Kit/Tools suitable for timing


310 102 000


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, DHE, DHG, FHA, FHD, FHE, FHF, L1T, L1V, L1E, L1F, MHA, L1G, L1H, L1K, L1V, RDA, RDB, RKC, RQB, RQC, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDH, HWWA, HWWB,



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, D5BA, ABFA, D3FA, D6BA, HJBA/B, F3FA, D2FA, D4FA, F4FA, F1FA, DOFA, QJBA, QJBB, QJBC, QJBD, FXFA, H9FA, N7BA, N7BB.



Kit/Tools suitable for timing

310 114 000





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 (8HV/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, C8 Evasion
- ▶ Peugeot: 107, 206, 207, 306, 307, 308, Ranch, Expert, 406, 407, 607, 807
- ▶ Engine: 1.4 -1.6 Hdi, 1.6 Duratorq TDCi, 1.6 D, 1.8-2.0 EW.
- ▶ Engine codes: DV4TD (8HV/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ), F6JA, F6JB, F6JC, G8DA, G8DB, EW7J4(6FZ), EW10J4 (RFN/RFR), EW10J4S(RFK), EW10-CVi (RLZ), EW12 (3FZ), D4164T.



Kit/Tools suitable for timing


310 115 000


FORD

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) (98-04), 1.8TDCi belt (01-04), 1.6D, 1.9TDi, 2.5D/TCi (belt), 1.9TDi, 2.5D/TCi (belt)

-  Engine codes
- ▶ FUJA, FUJB, FXJA, FXJB, FXJB, FYJA, FYJB, F8JA, F8JB, M7JA, M7JB, DHA, DHB, DHC, DHD, DHE, DHF, DHG, FHA, FHE, LIT, LIV, LIE, LIG, LIH, LII, RDA, RDB, RKC, RQB, RQC, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDH, HWDAlZ, AHU, AVG, AFN, D24, D24T, D24TIC, RFN, RTJ, RTK, RVA, RFK, RKD, B4164S3, DV4TD (8HW/8HX/8HZ), DV4TED4(8HV/8HY), DV6ATED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, G8DA, G8DB.




Kit/Tools suitable for timing


310 134 001

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 Ecobost, 1.6 16V

-  Engine codes
- ▶ F8JA, F8JB, FUJA, M7JA, M7BJ, SNJA, SNJB, STJA, STJB, ASDA, ASDB, FXDA/C, FXDB/D, FXJA, FXJB, FXJC, SPJA, SPJC, FYDA/C, FYDB/D, FYDH, FYJA, FYJB, FYJC, HWDA, HWDB, SHDA, SHDB, SHDC, JQDA, IQDB, JTDA, JTDB, HXDA, HXJA, HXJB, IQDA/B, IQDB, PNBA, PNDA, RHBA, SIDA



Kit/Tools suitable for timing

310 176 000



FORD

Kit/Tools suitable for timing



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



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



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 (4HU), 4HV (P22DTE), 4HU (P22DTE).



Kit/Tools suitable for timing

310 125 000

Kit/Tools suitable for timing



Complete set of tools suitable for diesel engines.



- ▶ Ford: Focus, Focus C-Max, Fiesta, Fusion
- ▶ Fiat: Ulysse, Scudo, Ducato (ref.JTD, MJ)
- ▶ Citroën: Xsara, Xsara Picasso, C2, C3, C4, C5, C8, Xantia, Evasion, Evasion Synergie, Berlingo, Dispatch, Dispatch Jumpy, Relay, Relay Jumper
- ▶ Peugeot: 107, 206, 207, 306, 307, 308, 406, 406 Coupe, 407 607, 807, Expert, Partner, Boxer, Ranch
- ▶ 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(8HW/8HX/8HZ), DV4TED4(8HV/8HY), DV6TED4(9HX/9HY/9HZ), DW10TD(RHY), DW10ATED/L3/L4, (RHS/RHW/RHZ), DW10BTED4 LB(RHR/RHX), DW10UTD(RHN), DW12ATED(4HW/4HX), DW12UTED(4HY), D4204T/2, G6DA, G6DB, G6DC **(for Ford you will also need code 313 143 000)**



Kit/Tools suitable for timing

310 185 000

FORD

Belt tensioner



Ford Mondeo 2.0 TDCI belt tensioner.



Belt tensioner

313 187 000

Flywheel locking tool



Tool for locking flywheel Ford engines



Flywheel locking tool

313 143 000

Locking tool



Special pulley locking tool specific for FORD engines.



Locking tool

313 031 000





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, Z16YNG, C18XEL, X18XE, X18XE1, Z18XE, Z18XEL, C20SEL, C20XE, X20XEV, Z20LEH, Z20LEL, Z20LER, Z20LET, X22SE, X22XE, Y22SE, Y22XE, Z22XE.



Kit/Tools suitable for timing

310 142 000

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, Astravan, 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, X20DTL, X20DTH, X22DTH, Y20DTL, Y20DTH, Y22DTH, Y22DTR.



Kit/Tools suitable for timing

310 078 000

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, GT, Crosswagon Q4

▶ Fiat: Punto, Grande Punto, Bravo/Brava, Marea, Weekend, Stilo, Doblò/Cargo, Multipla, Idea, Panda.

▶ Lancia: Ypsilon, Musa, Lybra, Thesys

▶ 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 CDTI, 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, 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 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



Kit/Tools suitable for timing

310 107 000



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

GM - OPEL - CHEVROLET - VAUXHALL

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, 1.6-1.7D, 3.0TD, 3.1TD, 2.0- 2.2-2.4TD, 2.0-2.2Di.
- ▶ SAAB diesel engine: 2.2 Di
-  ▶ Petrol engine codes:
X10XE, Z10XE, Z10XEP, X12XE, Z12XE, TWIN CAMS, Z14XEP, X14XE, X16XEL, X16SEJ, X18E1, X18XE1, Y16XE, Z14XE, Z16XE, Z18XE, Z18XEL TWIN CAMS, X16SZR, Z16SE, X18XE, C20SEL, X20XEV, X22XE, Y22XE, Z22XE, Z20LET TWIN CAMS
- ▶ Engine codes diesel:
4EC1/T, 4EC1, 4EE1/T, 4EE1, X17DT, Y17DT, Y17DTi, Y17DTL, 16DA, 17D, 17DR/X, 7DTL, X17DTL, 4JX1/4, JG2T, 4FC1/T, 4FD1, X20DTL, X20DTH, X22DTH, Y20DTL, Y20DTH, Y22DTH, Y22DTR.
- ▶ Engine codes SAAB: D223L




Kit/Tools suitable for timing

310 149 000

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
 - ▶ Z20DMH, Z20DM, RA420, Z20S1



Kit/Tools suitable for timing

310 139 000



GM - OPEL - CHEVROLET - VAUXHALL

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
▶ 194A1.000, Z22SE, Z22YH



Kit/Tools suitable for timing

310 160 000

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 e 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

310 158 000

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, Insigna

▶ Fiat: Croma

▶ Alfa Romeo: 159



Engine
▶ 1.6 16v, 1.8 16v.



Engine codes
▶ Z 16 XEP, Z 16 XE1, Z 16 LET, Z 16 LER, Z 16 IEL, Z 18 XER, A 18 XER/2HO
▶ Fiat/Alfa Romeo: 939A4.000



Kit/Tools suitable for timing


310 151 000


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, 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, DHF, DHG, FHA, FHD, FHE, FHF, LIT, LIV, LIE, LIF, MHA, LIG, LIH, LIK, LIW, RDA, RDB, RKC, RGB, RQC, 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 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, 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) (98-04), 1.8TDCi belt (01-04), 1.6D, 1.9TDi, 2.5D/TCi (belt), 1.9TDi, 2.5D/TCi (belt)

-  Engine codes
- ▶ FUJA, FUJB, FXJA, FXJB, FXJB, FYJA, FYJB, F8JA, F8JB, M7JA, M7JB, DHA, DHB, DHC, DHD, DHE, DHF, DHG, FHA, FHE, LIT, LIV, LIE, LIG, LIH, LIK, RDA, RDB, RKC, RQB, RQC, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDH, HWDA1Z, AHU, AVG, AFN, D24, D24T, D24TIC, RFN, RTJ, RTK, RVA, RFK, RKD, B4164S3, DV4TD (8HV/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, G8DA, G8DB.



Kit/Tools suitable for timing

310 134 001

**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
- ▶ Peugeot: 107, 206, 207, 306, 307, 308, 406, 406 Coupe, 407 607, 807, Expert, Partner, Boxer, Ranch
- ▶ 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(8HW/8HX/8HZ), DV4TED4(8HV/8HY), DV6TED4(9HX/9HY/9HZ), DW10TD(RHY), DW10ATED/L3/L4, (RHS/RHW/RHZ), DW10BTED4 LB(RHR/RHX), DW10UTD(RHN), DW12ATED(4HW/4HX), DW12UTED(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 tools suitable for Peugeot petrol engines.

-  ▶ Citroën: C5, AX, AX, Saxo, C15, BX, ZX, Berlingo, Xsara/ Picasso, Visa, Xantia, XM, Synergie, Relay/ Jumper, Evasion/ Synergie, Dispatch/Jumpy, C8
- ▶ Peugeot: 106, 205, 206, 305, 306, 307, 309, Partner, 405, 406/Coupe, 605, 607, 806, 807, Boxer, Expert

-  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, 2.0T, 2.0 HPI, 2.2 16v

-  Engine codes
- ▶ TU9-1.0, TU1-1.1, TU3-1.4, TU5JP-1.6(CDY/CDZ/ HDY/KDX/KDY/KFW/KFX/KFZ/NFZ), TU5J4/L3(NFX/NFU), XU5(B1E/B6D), XU9(D6A/D6B), XU5(BDY/BDZ/ BFZ), XU7(L6A/LFX/LFZ), XU9(D6A/D6B/D6D/DDZ/DKZ/DFZ), XU1QJ2(RFU/RGX/RGY/RFZ/RFX/RFV/RDZ), XU7JP4(LFY), XU9J4(D6C), XU1QJ4(RFY/RFV/R6E/RFS/RFT)


**Kit/Tools suitable for timing****310 186 000**


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
- ▶ Peugeot: 206, 306, 307, 406, 406 Coupé, 607, 807, Expert, Partner, Boxer
- ▶ Fiat: Ulysse, Scudo, Ducato (JTD)

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

-  Engine codes
 - ▶ EW7J4(6FZ), EW10J4(RFR), EW10J4D (RLZ), EW10J4 (RFR), EW7J4 (6FZ), EW10J4 (RFR), EW10J4D (RLZ), DV4TD(8HV/8HX/8HZ), DV4TED4(8HV/8HY), DV6TED4(9HX/9HY/9HZ), DW10TD(RHY), DW10ATED/L3/L4, (RHS/RHW/RHZ), DW10BTED4/LB(RHR/RHX), DW10UTD(RHN), DW12ATED(4HV/4HX), DW12UTED(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, C8 Evasion
- ▶ Peugeot: 107, 206, 207, 306, 307, 308, Ranch, Expert, 406, 407, 607, 807
- ▶ Engine: 1.4 -1.6 Hdi, 1.6 Duratorq TDCi, 1.6 D, 1.8-2.0 EW.
- ▶ Engine codes: DV4TD (8HV/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ), F6JA, F6JB, F6JC, G8DA, G8DB, EW7J4(6FZ), EW10J4 (RFN/RFR), EW10J4S(RFK), EW10-CVi (RLZ), EW12 (3FZ), D4164T.

-  ▶ Lancia/Fiat: Phedra/Ulisse, Scudo
- ▶ Engine: 2.0 16 V
- ▶ Engine codes: EW10 (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 (8HV/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, G8DA, G8DB



Kit/Tools suitable for timing

310 115 000






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.
- ▶ Peugeot: 107, 206, 207, 306, 307, 308, Ranch, Expert, 406, 407, 607, 807
- ▶ Engine: 1.4 -1.6 Hdi, 1.8-2.0 EW, 1.9 D, 2.0 Hdi, 2,2 Hdi, 1.8 16v., 2.0 16v.
- ▶ Engine codes: DV4TD (8HV/8HX/8HZ) - DV4TED4 (8HV/8HY) - DV6A TED4 (9HX/9HY/9HZ) F6JA - F6JBF6JC - G8DAG8DB - EW7J4 (6FZ) - EW10J4 (RFN/RFR) EW10J4S (RFK)-EW10-CVi (RLZ)- EW12 (3FZ), DW8 (VJZ), DW10 (RHY-RHZ), DW12 (4HX), EW7J4 (6FZ), EW10J4 (RFR), EW10J4D (RLZ) - Cvi
-  ▶ 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 (8HV/8HX/8HZ), DV4TED4(8HV/8HY), DV6ATED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, 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
- ▶ Citroën: 8FR (EP3), 5FS (EP6)
- ▶ Peugeot: EP3 (8FS), EP6 (5FVW)



Kit/Tools suitable for timing




310 156 000

PEUGEOT - CITROËN

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 coupè
 - ▶ 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

310 174 000

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, QWFA, P8FB, SRFA, PGFA, PGFB, SRFB, SRFC, SRFD, SRFE, P22DTE (4HV), P22DTE (4HU), 4HV (P22DTE), 4HU (P22DTE).



Kit/Tools suitable for timing

310 125 000



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

▶ Engine codes: N40, N45, N45T, N42, N46, N46T, N51, N52, N52K, N53, N54.

▶ Models: R56 Mini One, R55/R56 MINI Cooper/Cooper S

▶ Engine: 1.4, 1.6

▶ Engine codes: N12 B14AB, N12 B16A



Damper lock

310 159 005

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
▶ K4J 712/713/750, K4M 700/701/720/724/748, F4P760, F4R 700/701/730/740/741/744/780



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
▶ G9T710/720, G9U ,K9K dal 2001, G9U 730, G9T722/750, G9U 720/724/726/750/754



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
 - ▶ 2.2dCi, 2.5dCi.
-  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 camshaft and crankshaft 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,
 - ▶ D7F700/701/703/710/730 (1995-06) D4F, 702/704/706/708/712/714/
 - ▶ 716/730 (2000-06), D7F726, D4F 712, F9Q, 772/774, D4192T3/4






Kit/Tools suitable for timing

310 091 000

Kit/Tools suitable for timing



Set for crankshaft and camshaft timing on Renault diesel engines.

-  ▶ Renault: Clio, Kangoo.
- ▶ Nissan: Kubistar, Micra, Note, Qashqai
-  Engine
 - ▶ 1.5 dCi.
-  Engine codes
 - ▶ K9K dal 2001, K9K 702/704/710.



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
 - ▶ K4J/K4M, F4P/F4R, K9K dal 2001.






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, Mégane/Scénic, Trafic
- ▶ Nissan: Kubistar, Interstar, Qashqai.
- ▶ Opel: Vivaro, Movano
- ▶ Suzuki: Gran Vitara
-  Engine
 - ▶ 1.5 dCi, 1.9 TD, 1.9, 1.9 dCi, 2.2dCi, 2.5dCi.
-  Engine codes
 - ▶ K9K dal 2001, F9Q 732, F9Q 718, F9Q 760, F9Q 732, F9Q 718, F9Q 760, F9Q 750, F9Q 754, G9T 710/720, F9Q B2






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, Mégane Scenic, Vel Satis, Avantime, Kangoo, Laguna, Espace, Trafic.
-  Engine
 - ▶ 1.2, 1.4, 1.5 dCi, 1.6, 16v, 1.6D, 1.7, 1.8, 1.816v, 1.9 TD, 1.9, 1.9 dCi, 2.0 16v, 2.1TD, 2.2 dCi, 2.2TD, 2.5 dCi, 2.5 TD, 2.8 D.
-  Engine codes
 - ▶ D7F, E5F, E6J, E7F e E7J, K4J/K4M, K7M, F4P/F4R, K4J 712/713/750, K4M 700/701/720/724/748, F1N, F2N, F3N, F2R, F3P, F4P, F3R, 760, F4R700/701/730/740/741/744/780, G9T710/720, G9U, K9K dal 2001, F9Q 732, F9Q 718, F9Q 760, F9Q 732, F9Q 718, F9Q 760, F9Q 750, F9Q 754, J5T, J6R, J7R, J7, F7PT, N7Q, N7U, F8M, F8Q, F9Q, J8S, G8TG8, S8U, S9U, S9WT.



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, E6J, E7F e E7J), 1.6 (K7M), 1.7-1.8 (F1N, F2N, F3N, F2R, F3P), 2.0 (F3R), 2.0-2.2 (J5T, J6R, J7R, J7T)



Twin Cams and Engine codes

▶ 1.4-1.6, 1.8-2.0 (F7P, F7R), 2.0-2.5 (N7Q, N7U)



Diesel and Engine codes

▶ 1.6D-1.9D/TD (F8M, F8Q, F9Q), 2.1TD (J8S), 2.2D/TD (G8T), 2.5D/TD-2.8D (S8U, S9U, S9V)



Kit/Tools suitable for timing

310 113 000

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

310 135 000

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: 850, 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, B5202FS, B5204FT, B5204T2, B5204T3, B5204T4, B5204T5, B5234FS, B5234FT, B5234T3, B5234T4, B5234T5, B5234T6, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244SG, B5244SG2, B5244T, B5244T3, B5244T4, B5244T5, B5244T7, B5252FS, B5254T, B5254T2, B5254T4



Kit/Tools suitable for timing




310 154 000

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

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.
-  ▶ 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

310 157 000

Locking plate



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

-  ▶ Renault: Clio II, Megane, Megane II, Megane/Scenic, Scenic/RX4, Scenic/Grand Scenic II, Laguna, Laguna II, Espace/Grand Espace, Espace/Grand Espace IV, Trafic II.
-  Engine
▶ 1.8 16v e 2.0 T 16v.
-  Engine codes
▶ F4P 720/722/760 - F4R 700/ 701/ 712/ 713/ 714/ 715/ 720/ 722/ 730/ 732/ 740/ 741/ 744/746/ 770/ 771/ 776/ 780/ 784/ 786/ 787/ 790/ 791/ 792/ 794/ 795/796/ 797/ 820/ 830






Locking plate

313 208 000

**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, 16v, 1.6D, 1.7, 1.8, 1.816v, 1.9 TD, 1.9, 1.9 dCi, 2.0 16v., 2.1TD, 2.2 dCi, 2.2TD, 2.5dCi, 2.5 TD, 2.8 D
- ▶ Engine codes: D7F, E5F, E6J, E7F e E7J, K4J/K4M, K7M, F4P/F4R, K4J712/713/750, K4M700/701/720/724/748, F1N, F2N, F3N, F2R, F3P, F4P, F3R, 760, F4R700/701/730/740/741/744/780, G9T710/720, G9U, K9K dal 2001, F9Q 732, F9Q 718, F9Q 760, F9Q 732, F9Q718, F9Q 760, F9Q 732, F9Q 718, F9Q 760, F9Q750, F9Q 754, J5T, J6R, J7R, J7, F7PT, N7Q, N7U, F8M, F8Q, F9Q, J8S, G8TG8, S8U, S9U, S9WT
-  ▶ Renault: Megane, Scenic, Laguna, Vel Satis, Espace, Koleos, Trafic
- ▶ Engine: 2.0 dCi (chain)
- ▶ Engine codes: 700, 722, 724, 740, 742, 446, 760, 761, 780, 802, 803, 805, 830, 832, 833

**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****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****313 188 004**

RENAULT - NISSAN

Belt extractor



Belt extractor of air-conditioning and auxiliary system.



► Renault



Belt extractor

316 007 000





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, Doblò/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 CDTI, 1.9 CDTI, 1.9 CDTI, 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, 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 A7.000, 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




Kit/Tools suitable for timing

310 107 000


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, Vagon 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 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



Kit/Tools suitable for timing

310 075 000

VOLVO

Kit/Tools suitable for timing



Timing kit suitable for Petrol Twin Cams engines.



- ▶ Volvo: 850, 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, B5202FS, B5204FT, B5204T2, B5204T3, B5204T4, B5204T5, B5234FS, B5234FT, B5234T3, B5234T4, B5234T5, B5234T6, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244SG, B5244SG2, B5244T, B5244T3, B5244T4, B5244T5, B5244T7, B5252FS, 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

310 154 000

Kit/Tools suitable for timing



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



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



- 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, D7F700/701/703/710/730 (1995-06) D4F, 702/704/706/708/712/714/716/730 (2000-06), D7F726, D4F 712, F9Q, 772/774, D4192T3/4



Kit/Tools suitable for timing

310 091 000



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, C8, Xantia, Evasion, Evasion Synergie, Berlingo, Dispatch, Dispatch Jumpy, Relay, Relay Jumper
- ▶ Peugeot: 107, 206, 207, 306, 307, 308, 406, 406 Coupe, 407 607, 807, Expert, Partner, Boxer, Ranch
- ▶ Ford: Focus, Focus C-Max, Fiesta, Fusion
- ▶ Fiat: Ulysse, Scudo, Ducato (ref. JTD, MJ)



- 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(8HV/8HY), DV6TED4(9HX/9HY/9HZ), DW10TD(RHY), DW10ATED/L3/L4, (RHS/RHV/RHZ), DW10BTED4 LB(RHR/RHX), DW10UTD(RHN), DW12ATED(4HW/4HX), DW12UTED(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), 1.6D, 1.9TDi, 2.5D/TCi (belt), 1.9TDi, 2.5D/TCi (belt)



- Engine codes
- ▶ FUJA, FUJB, FXJA, FXJB, FXJB, FYJA, FYJB, F8JA, F8JB, M7JA, M7JB, DHA, DHB, DHC, DHD, DHE, DHF, DHG, FHA, FHE, LIT, LIV, LIE, LIG, LIH, LIK, RDA, RDB, RKC, RQB, RQC, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDH, HWDA1Z, AHU, AVG, AFN, D24, D24T, D24TIC, RFN, RTJ, RTK, RVA, RFK, RKD, B4164S3, DV4TD (8HW/8HX/8HZ), DV4TED4(8HV/8HY), DV6ATED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, G8DA, G8DB.



Kit/Tools suitable for timing

310 134 001

VW - AUDI - SEAT - SKODA

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
- ▶ Skoda: 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, AHV, AJV, AKQ, APE, AQQ, ARC, ARR, ATN, AUA, AUB, AUS, AVY, AXP, AZD, BAD, BBY, BBZ, BCA, BCB, BKY.



Kit/Tools suitable for timing

310 039 000

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
- ▶ Skoda: 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, ANU, ANY, ARI, ASZ, ATD, ATJ, ATL, AUJ, AVB, AVF, AVQ, AVX, AXB, AXC, AXR, AYZ, BAY, BDK, BGW, BHC, BHV, BJB, BKC, BKD, BKE, BKP, BLS, BIT, BMR, BMS, BMT, BNM, BNV, BPX, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BUK, BVK, BWB, BWV, BXE, BXF, BDJ, BLB, BMM, BMN, BMP, BMR, BNA, BPV, BRC, BRE, BRF, BRT, BSS, BVH, BVV, AHB, AHG, AKU, AKW, 1X, 1Y, AAZ, ABL, AEF, AEY, AGD, AGP, AQM, ASX, ASY, AYQ, 1Z, AFF, AFN, AGR, AHF, AHH, AHU, ALE, ALH, ASV, AVG



Kit/Tools suitable for timing

310 187 000



VW - AUDI - SEAT - SKODA

Kit/Tools suitable for timing



Timing kit suitable for VAG petrol engines.



- ▶ Audi: 80, A2, A3, S3, A4, A6, TT
- ▶ Seat: Altea/XL, Arosa, Ibiza, Cordoba, Inca, Leon, Toledo, Alhambra
- ▶ Skoda: Fabia, Octavia, Octavia II, Superb
- ▶ VW: Polo, Polo/Classic, Beetle, Caddy, Lupo, Golf/Golf Estate, Golf Plus, Bora, Passat, Vento, Jetta, Eos, 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, AFK, AHWW, AJV, AKQ, APE, AQQ, ARC, ARR, ATN, AUA, AUB, AUS, AVY, AXP, AZD, BAD, BBY,BBZ, BCA, BCB, BKY, APR, ADR, AEB, AFY, AGN, AGU, AJH, AJL, AJP, AJQ,AMK, AMU, ANB, APG, APH, APP, APT, APU, APX, APY,AQA, AGX, ARG, ARX, ARY, ARZ, ATC, ATW, AUM, AUQ,AVC, AWC, AWP, AWU, AVV, AYP, BAM, BEA, BFV, BKF, BNU, BVP, BVR, 1F, ABM, ADA, ADP, AEH, AEK, AFT, AHL, AKL, AKS, ALZ, ANA, APF, ARM, AUR, AVU, AYD, BFQ, BFS, BFQ, BGU, BSE, BSF, ABS, ADR, ADZ, AGN, AJP, AMU, APG, APT, APX, ARG, AVV, BFV, BVP, BVR, AGU, AJH, AJL, AJQ, AMK, ANB, APP, APU, APY, AQA, AQX, ARX, ARY, ARZ, AUM, AUQ, AVC, AWC, AVT, AWU, AYP, BAM, ADL, 2E, AAC, AAE, ABK, ABT, ACE, ADY, AEG, AGG, AKT, APK, AQY, ATM, ATU, AVF, AWG, AXA, AZG, AZH, AZJ, AZL, AZM, BEH, ABF, AXW, BGB, BHD, BMB, BPJ, BPY, AXW, BLY, BLR, BVX, BZY, BVZ, AXX, BWA



Kit/Tools suitable for timing

310 188 000

Kit/Tools suitable for timing



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



- ▶ VW: Fox, Lupo, Polo
- ▶ Skoda: Fabia, Roomster
- ▶ Seat: Ibiza, Cordoba



- Engine
- ▶ 1.2 6v, 1.2 12v



- Engine codes
- ▶ AWY, AZQ, BME, BBM, BMD, BXV, BZG



Kit/Tools suitable for timing

310 098 000

VW - AUDI - SEAT - SKODA

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, BJJ, 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 Td engines.



▶ Audi: Allroad, A2, A3, A3 Cabrio, A4, A4 4WD, A5 Coupe/Cabriolet, A6, A6 4WD, A8, Q5, TT

▶ Seat: Alhambra, Altea, Altea XL, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo,

▶ Skoda: 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, LT, 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 PD, 2.0 TDi CR, 2.0 TDi PDF, 2.5 TDi V6.



Engine codes
▶ ARC, ATN, AUS, AVY, AZD, AFH, BCA, AFK, AHW, AJV, AKQ, APE, AQQ, AUA, AUB, AXP, AFH, AFK, AHW, APE, AQQ, AUA, AUB, AUS, AXP, AZD, BBY, BBZ, BCB. AJM, AMF, ANU, ANY, ARL, ASZ, ATD, ATJ, ATL, AUY, AVB, AVF, AVQ, AVWX, AXB, AXC, AXR, AYZ, AZV, BAY, BDK, BGW, BHC, BHP, BHV, BJB, BKC, BKD, BKE, BKP, BLS, BLT, BMA, BMN, BMR, BMS, BMT, BNM, BNV, BPX, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BUK, BUY, BUZ, BVA, BVE, BVF, BVG, BVK, BVV, BVW, BXE, BXF, CAGA, CAGB, CAGC, CAHA, CAYA, CAYB. CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBD, CBEA, CEGA. AZV, BDJ, BHP, BKD, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPV, BRC, BRE, BRF, BRT, BSS, BUY, BUZ, BVA, BVE, BVF, BVG, BVH, BVV, ACV, ACV, AFB, AGX, AHD, AHY, AHY, AJT, AJT, AKE, ANJ, APA, AUF, AUF, AXG, AXG, AXL, AYL, AYC, AYM, AYY, BAU, BBE, BBF, BCZ, BDG, BDH, BFC, BJJ, BJK, BJL, BJM



Kit/Tools suitable for timing

310 124 000

**VW - AUDI - SEAT - SKODA****Pulley locker**

Special crankshaft **round** pulley locker for TD engines.



- ▶ Audi: A2, A3, A3 Cabrio, A4, A4 4WD, A5 Coupe/Cabriolet, A6, A6 quattro, Q5, TT
- ▶ Seat: Alhambra, Altea, Altea XL, Arosa, Cordoba, Ibiza, Leon, Toledo,
- ▶ Skoda: 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, ARL, ASZ, ATD, ATJ, ATL, AUY, AVB, AVF, AVQ, AVX, AXB, AXC, AXR, AYZ, AZV, AHU, AFN, ANU, AUY, BAY, BDK, BGW, BHC, BHP, BHV, BJB, BKC, BKD, BKE, BKP, BLS, BIT, BMA, BMN, BMR, BMS, BMT, BNM, BNV, BRE, BRF, BPX, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSVV, BTB, BUK, BUY, BUZ, BVA, BVE, BVF, BVG, BVK, BVVB, BVVV, BXE, BXF, CAGA, CAGB, CAGC, CAHA, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CBEA, CEGA, 1Z.

**Pulley locker****310 117 000****Pulley locker**

Special crankshaft **oval** pulley locker for TD engines.



- ▶ Audi: A3, A4, A4 Cabrio, A4 4WD, A6
- ▶ Seat: Alhambra, Altea/Altea XL, Leon, Toledo,
- ▶ Skoda: 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, BDJ, BHP, BKD, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPW, BRC, BRE, BRF, BRT, BSS, BUY, BUZ, BVA, BVE, BVF, BVG, BVH, BVVV, BST, BRS, BRR, BJB, BKC, BRU, BLS, BXE, BXF, BKD, BKQ, BUY

**Pulley locker****310 117 002**

VW - AUDI - SEAT - SKODA

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,
- ▶ Skoda: 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
▶ AJM, AMF, ANU, ANY, AFN, ARL, ASZ, ATD, ATJ, ATL, AUJ, AVB, AVF, AVQ, AVX, AXB, AXC, AXR, AYZ, AZV, AHU, BAY, BDK, BGW, BHC, BHP, BHV, BJB, BKC, BKD, BKE, BKP, BLS, BLT, BMA, BMN, BMR, BMS, BMT, BNM, BNV, BPX, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BUK, BUY, BUZ, BVA, BVE, BVF, BVG, BVK, BWB, BVV, BXE, BXF, AZV, BDJ, BHP, BKD, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPV, BRC, BRE, BRF, BRT, BSS, BUY, BUZ, BVA, BVE, BVF, BVG, BVH, BWV, 1Z.



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.
- ▶ Skoda: Octavia, Fabia, Roomster



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



Engine codes
▶ AXU, BAG, BKG, BLF, BLN, BLP, BLG, BMY, BTS, BWK, CAXA



Kit/Tools suitable for timing

310 126 000



VW - AUDI - SEAT - SKODA

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: Special 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, 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, AFN, ARL, ASZ, ATD, ATJ, ATL, AUJ, AVB, AVF, AVQ, AWW, AXB, AXC, AXR, AYZ, AHU, AZV, BAY, BDK, BGW, BHC, BHP, BHW, BJB, BKC, BKD, BKE, BKP, BLS, BLT, BMA, BMM, BMN, BMR, BMS, BMT, BNM, BNV, BPX, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSW, BTB, BUK, BUY, BUZ, BVA, BVE, BVF, BVG, BVK, BVVB, BWV, 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, BMY, BTS, BWK, CAXA



Kit/Tools suitable for timing

310 126 011

VW - AUDI - SEAT - SKODA

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.
- ▶ Skoda: Octavia, Fabia, Roomster
-  Engine
 - ▶ 1.4 e 1.6 FSi (chain), 1.4 TSi
-  Engine codes
 - ▶ AXU, BAG, BKG, BLF, BLN, BLP, BLG, 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, 1.8T petrol engines.

-  ▶ Audi: A3,S3, A4, A6, TT
- ▶ Seat: Ibiza/Cordoba, Leon, Toledo, Alhambra
- ▶ Skoda: 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, APP, APT, APU, APX, APY, AQA, AQX, ARG, ARX, ARY, ARZ, ATC, ATW, AUM, AUQ, AVC, AVC, AVP, AWU, AWW, AYP, BAM, BEA, BFV, BKF, BNU, BVP, BVR.



Locking tool

310 133 000



VW - AUDI - SEAT - SKODA

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)

▶ Skoda: 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

▶ 1.2TDi PD, 1.4TDi 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, AJA, AUB, AXP, AFH, AFN, AFK, AHV, AHU, APE, AQQ, AUS, AXP, AZD, BBY, BBZ, BCB, ANY, AYZ, AMF, ATL, BAY, BHC, BMS, BNM, BNV, BWB, AJM, AMG, ANU, ARL, ASZ, ATD, ATJ, AUY, AVB, AVF, AVQ, AVWX, AXB, AXC, AXR, BEVV, BJB, BKC, BKE, BLS, BIT, BMT, BPX, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BTB, BUK, BVK, BXE, BXF, AZV, BDJ, BDK, BGVV, BHVV, BKD, BKP, BLB, BMA, BMM, BMN, BMP, BMR, BNA, BPVV, BRC, BRE, BRF, BRT, BUZ, BE, BVF, BVG, BVH, BVVV, AZV, BKD, AVVY, AZQ (55 - 64 PF), AXU, BAG, BKG, BLF, BLN, BLP, BFV, BKF, BNU, BVP, BVR, 1Z.



Kit/Tools suitable for timing

310 155 000

Kit/Tools suitable for timing



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



▶ Skoda Roomster, Fabia, Praktik, 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, CFFB, CGLA, CGLB, CJCA, CJCB, CFJA, CAAA, CAVA, CBAC, CBBA, CBDA, CBDDB, CBDC, CCHA, CJAA, CAAB, CAAC



Kit/Tools suitable for timing

310 191 000

VW - AUDI - SEAT - SKODA

Kit/Tools suitable for timing

NEW



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, Caddt 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
- ▶ Skoda
- ▶ 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



VW - AUDI - SEAT - SKODA

Belt tensioner



Short Belt tensioner for VAG petrol and diesel engines.



- ▶ VW
- ▶ Audi
- ▶ Skoda
- ▶ Seat



Belt tensioner

313 039 000

Belt tensioner



Belt tensioner for VAG petrol and diesel engines.



- ▶ VW
- ▶ Audi
- ▶ Skoda
- ▶ Seat



Belt tensioner

313 126 000

Belt tensioner



Long Belt tensioner for VAG petrol and diesel engines.



- ▶ VW
- ▶ Audi
- ▶ Skoda
- ▶ Seat



Belt tensioner

313 038 000



VALVES



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.



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



- 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

315 020 000

Pressure foot Ø 25,5 with 5 adaptors: 24,5 - 25 - 27 - 29 - 32 mm (A)

315 020 002

Pressure foot Ø 34 with 3 adaptors: 34 - 41 - 50 mm (B)

315 020 003

Pressure foot Ø 19,8 mm (C)

315 020 006

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.



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



- 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

315 021 000

Pressure foot Ø 25,5 with 5 adaptors: 24,5 - 25 - 27 - 29 - 32 mm (A)

315 020 002

Pressure foot Ø 34 with 3 adaptors: 34 - 41 - 50 mm (B)

315 020 003

Pressure foot Ø 19,8 mm (C)

315 020 006

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 apposite 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.



Manual bench useful to assembly and disassembly engine valves	315 019 000
Pressure foot Ø 25,5 with 5 adaptors: 24,5 - 25 - 27 - 29 - 32 mm (A)	315 020 002
Pressure foot Ø 34 with 3 adaptors: 34 - 41 - 50 mm (B)	315 020 003
Pressure foot Ø 19,8 mm (C)	315 020 006

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.



Complete valve keepers kit	315 020 031
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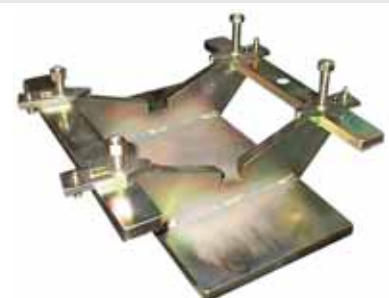
Cylinder head support



Special head support useful to resurface cylinder head.



- ▶ Fiat 1.6 16v



Cylinder head support	314 011 000
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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. (3" 1/2) 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. (1.102 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.



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



▶ Machine Dimensions: 630x300x95 mm.

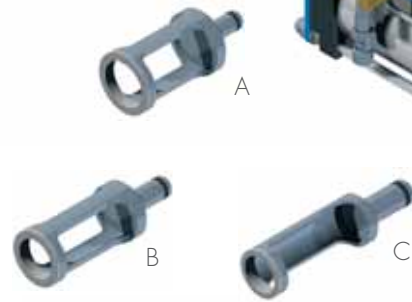
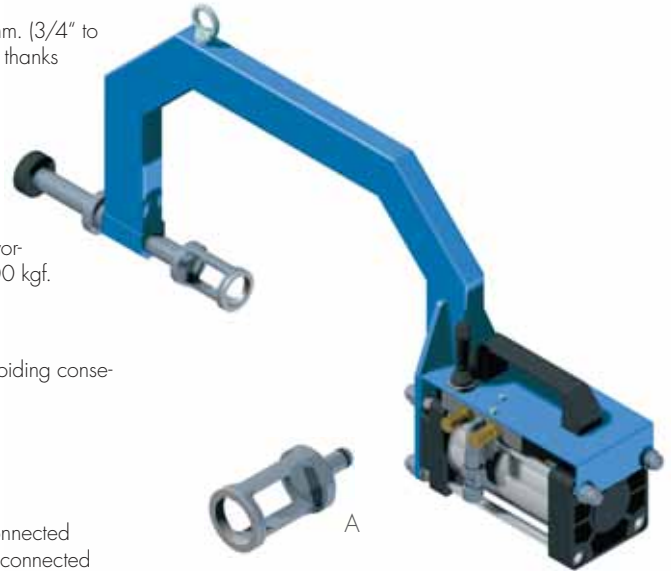
▶ Pack dimensions: 485x375x185 mm.

▶ 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

315 024 000

Pressure foot Ø 40 mm (A)

315 024 014

Pressure foot Ø 32 mm (B)

315 024 015

Pressure foot Ø 23,5 mm (C)

315 024 016

Magnet - Length = 165 mm (D)

315 020 007

Valve keeper magnet.

Valve keeper magnet.



▶ Handy tool in plastic material with magnets on both ends.

Used to pick up loose keepers easily, especially in narrow and difficult areas.



▶ Length: 165 mm.



Valve keeper magnet.

315 020 007

Cylinder head support



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°.



Cylinder head support

315 007 000



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.



Brackets

319 001 000

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.



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



- ▶ 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.



Air operated engine support

314 002 000



Manual support for engine

Manual engine support.



▶ 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.



STANDARD MODEL

- ▶ Extended width: min. 700 mm. - max. 1480 mm.
- ▶ Capacity: 330 Kg.



LONG VERSION

- ▶ Extended width: min. 700 mm. - max. 1720 mm.
- ▶ Capacity: 330 Kg.



Manual support for engine

314 012 000

Manual support for engine - long version

314 012 015



Engine support device

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.

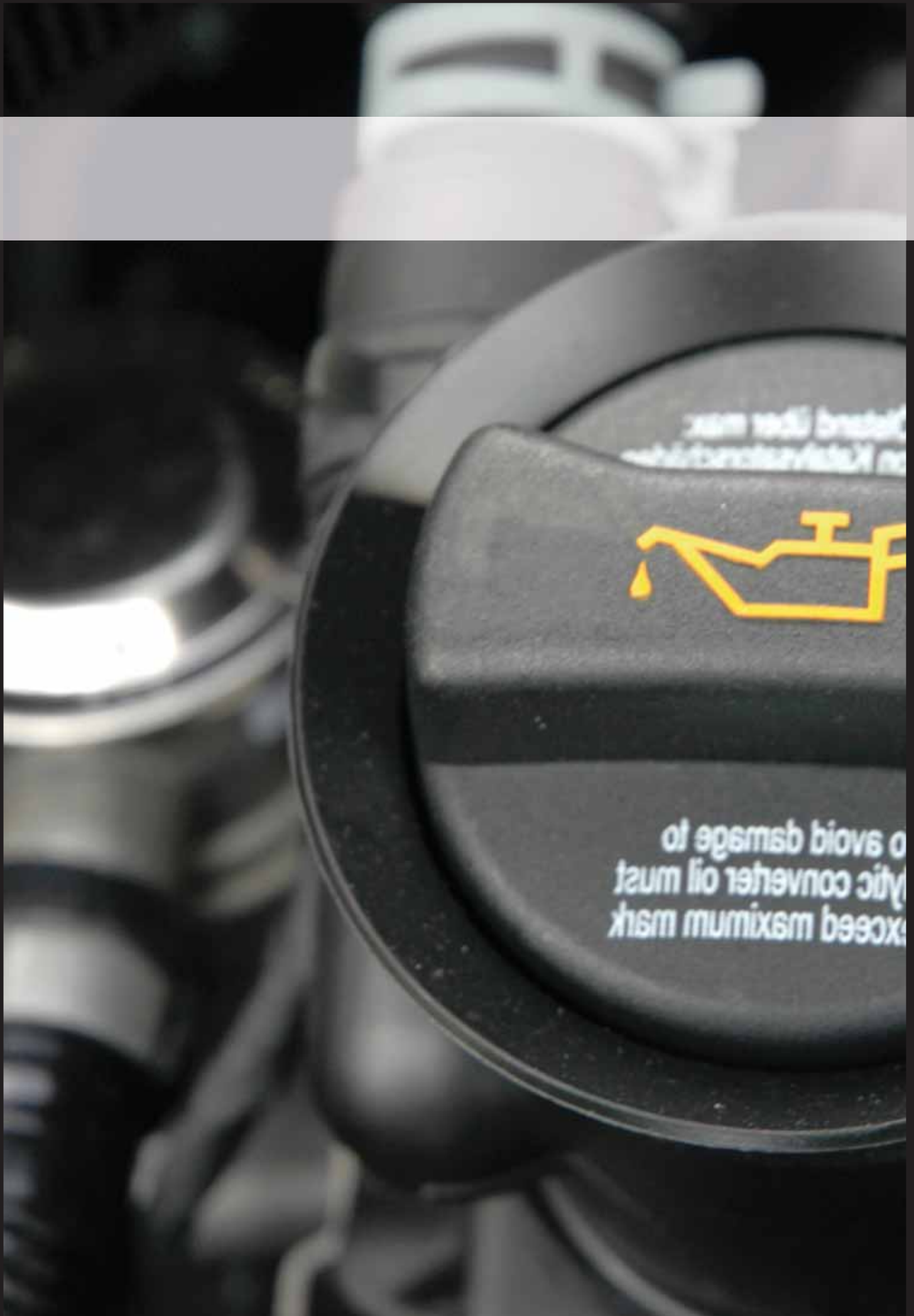


- ▶ Body extension: min. 630 mm - max. 960 mm.
- ▶ Supporting Plate stroke: 190 mm.
- ▶ Weight: 7,2 Kg.



Engine support device

314 023 000



Exceed maximum mark
to avoid damage to
catalytic converter oil must

Exceed maximum mark
to avoid damage to
catalytic converter oil must

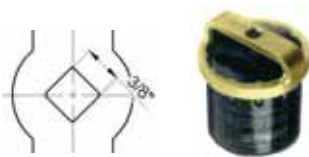
OIL SUMPS & FILTERS



Set of wrenches

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

Wrench N.1.	Ø 66,5 - Flutes 45
Wrench N.2.	Ø 87 - Flutes 18
Wrench N.3.	Ø 66,5 - Flutes 6
Wrench N.4.	Ø 74,4 - Flutes 14
Wrench N.5.	Ø 74 - Flutes 15
Wrench N.6.	Ø 92 - Flutes 10
Wrench N.7.	Ø 76,5 - Flutes 8
Wrench N.8.	Ø 64 - Flutes 14



Set of wrenches

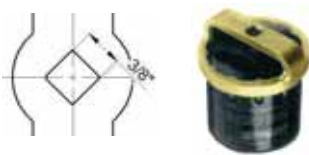
310 001 000



Set of wrenches

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

Wrench N.1.	Ø 66,5 - Flutes 45	Wrench N.8.	Ø 64 - Flutes 14
Wrench N.2.	Ø 87 - Flutes 18	Wrench N.9.	Ø 91 - Flutes 12
Wrench N.3.	Ø 66,5 - Flutes 6	Wrench N.10.	Ø 92,3 - Flutes 6
Wrench N.4.	Ø 74,4 - Flutes 14	Wrench N.11.	Ø 96,4 - Flutes 6
Wrench N.5.	Ø 74 - Flutes 15	Wrench N.12.	Ø 107,7 - Flutes 18
Wrench N.6.	Ø 92 - Flutes 10	Wrench N.13.	Ø 66 - Flutes 14
Wrench N.7.	Ø 76,5 - Flutes 8	Wrench N.14.	Ø 84,6 - Flutes 14



Set of wrenches

312 051 000



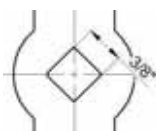
Oil filter wrench N.1

Oil filter wrench.

- ! ▶ Type: Ø 66,5 mm
- ▶ Flutes 45

- ▶ VW
- ▶ Audi
- ▶ Nissan

- ! Engine
- ▶ TDi



Oil filter wrench N.1

310 001 001

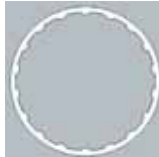
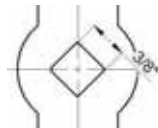
Oil filter wrench N.2



Oil filter wrench.

- ! ▶ Type: Ø 87 mm
- ▶ Flutes 18

- ▶ Renault



Oil filter wrench N.2

310 001 002

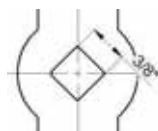
Oil filter wrench N.3



Oil filter wrench.

- ! ▶ Type: Ø 66,5 mm
- ▶ Flutes 6

- ▶ Fiat: Punto 1.2
- ▶ Renault: 1.2 dal '98 in poi



Oil filter wrench N.3

310 001 003

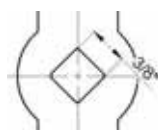
Oil filter wrench N.4



Oil filter wrench a cartuccia.

- ! ▶ Type: Ø 74,4 mm
- ▶ Flutes 14

- ▶ Renault



Oil filter wrench N.4

310 001 004



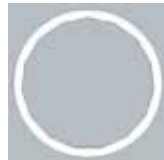
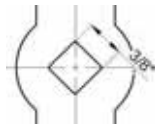
Oil filter wrench N.5



Oil filter wrench.

- ! ▶ Type: Ø 74 mm
- ▶ Flutes 15

- ▶ Renault



Oil filter wrench N.5

310 001 005

Oil filter wrench N.6



Oil filter wrench.

- ! ▶ Type: Ø 92 mm
- ▶ Flutes 10

- ▶ Fiat

- ! Engine
- ▶ Common Rail 125 Cv



Oil filter wrench N.6

310 001 006

Oil filter wrench N.7



Oil filter wrench.

- ! ▶ Type: Ø 76,5 mm
- ▶ Flutes 8

- ▶ Fiat

- ! Engine
- ▶ Common Railv 1.9-2.4 JTD (old models)



Oil filter wrench N.7

310 001 007

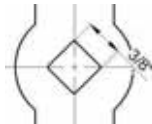
Oil filter wrench N.8



Oil filter wrench.

- ! ▶ Type: Ø 64 mm
- ▶ Flutes 14

- ▶ Fiat: Punto



Oil filter wrench N.8

310 001 008

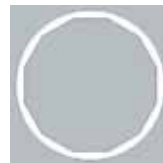
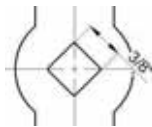
Oil filter wrench N.9



Oil filter wrench.

- ! ▶ Type: Ø 91 mm
- ▶ Flutes 12

- ▶ Fiat: Ducato



Oil filter wrench N.9

312 021 000

Oil filter wrench N.10



Oil filter wrench.

- ! ▶ 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, Ulisse, Stilo, Multipla, all Doblò JTD models



Oil filter wrench N.10

310 001 010



Oil filter wrench N.11

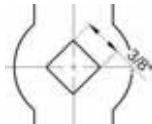


Oil filter wrench.

- ! ▶ Type: Ø 92,3 mm
- ▶ Flutes 6

- ▶ Renault: Twingo, Clio, Kangoo, Modus, Mègane, Scenic, etc..

- ! Engine
- ▶ 1.2 & 1.4 petrol



Oil filter wrench N.11

310 001 011

Oil filter wrench N.12

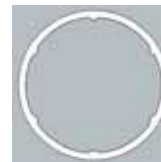
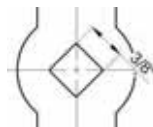


Oil filter wrench.

- ! ▶ Type: Ø 96,4 mm
- ▶ Flutes 6

- ▶ Renault: Clio, Kangoo, Modus, Mègane, 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

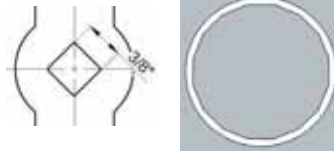
Oil filter wrench N.14



Oil filter wrench.

- ! ▶ Type: Ø 107,7 mm
- ▶ Flutes 18

- ▶ Renault: Trafic, Master



Oil filter wrench N.14

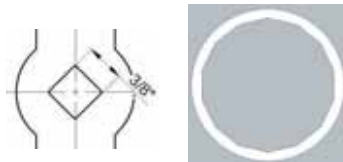
312 047 000

Oil filter wrench N.15



Oil filter wrench.

- ! ▶ Type: Ø 66 mm
- ▶ Flutes 14



Oil filter wrench N.15

312 050 000

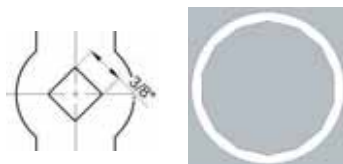
Oil filter wrench N.16



Oil filter wrench.

- ! ▶ Type: Ø 84,6 mm
- ▶ Flutes 14

- ▶ Mercedes Purflux and filters d.84,6 mm



Oil filter wrench N.16

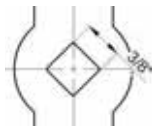
312 052 000



Oil filter wrench N.17

Oil filter wrench.

- ! ▶ Type: Ø 73 mm
- ▶ Flutes 10



Oil filter wrench N.17

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

312 055 000



Oil filter wrench N.19

Oil filter wrench.

- ! ▶ Type: Ø 87 mm
- ▶ Flutes 16

- ! ▶ BMW



Oil filter wrench N.19

312 057 000

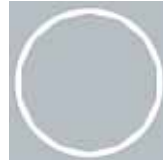
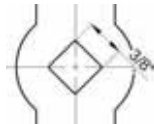
Oil filter wrench N.20



Oil filter wrench.

- ▶ Type: Ø 102 mm
- ▶ Flutes 14

- ▶ Renault



Oil filter wrench N.20

312 059 000

Oil filter wrench N.21



Oil filter wrench.

- ▶ Type: Ø 66 mm
- ▶ Flutes 18

- ▶ Renault



Oil filter wrench N.21

312 060 000

Oil filter wrench N.22



Oil filter wrench.

- ▶ Type: Ø 96 mm
- ▶ Flutes 18

- ▶ Renault



Oil filter wrench N.22

312 061 000



Chain oil filter wrench



Universal pressed steel jointed chain tools for oil filters with extendable handle.



Chain oil filter wrench

312 000 000

Oil filter wrench



Universal chain tool of printed steel for oil filters.

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



Oil filter wrench Ø 70/110 mm

312 003 000

Oil filter wrench Ø 110/145 mm

312 004 000

Wrench with „T” shape



Universal casehardened steel T tool for engine plugs.

- ▶ Square: 8-10 mm
- ▶ Hexagonal: 12 mm



Wrench with „T” shape

312 005 000

Wrench with „T” shape



Universal casehardened steel T tool.

- ▶ Hexagonal: 8, 10, 12 mm



Wrench with „T” shape

312 006 000

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

312 056 000

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 sump plugs

312 056 002



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

312 039 000



Tool for dismounting filters

Wrench cup for dismounting diesel MJ filters.



► Opel



Engine

► Diesel CR 1.3 & 1.9



Tool for dismounting filters

312 046 000

Milling kit

NEW



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

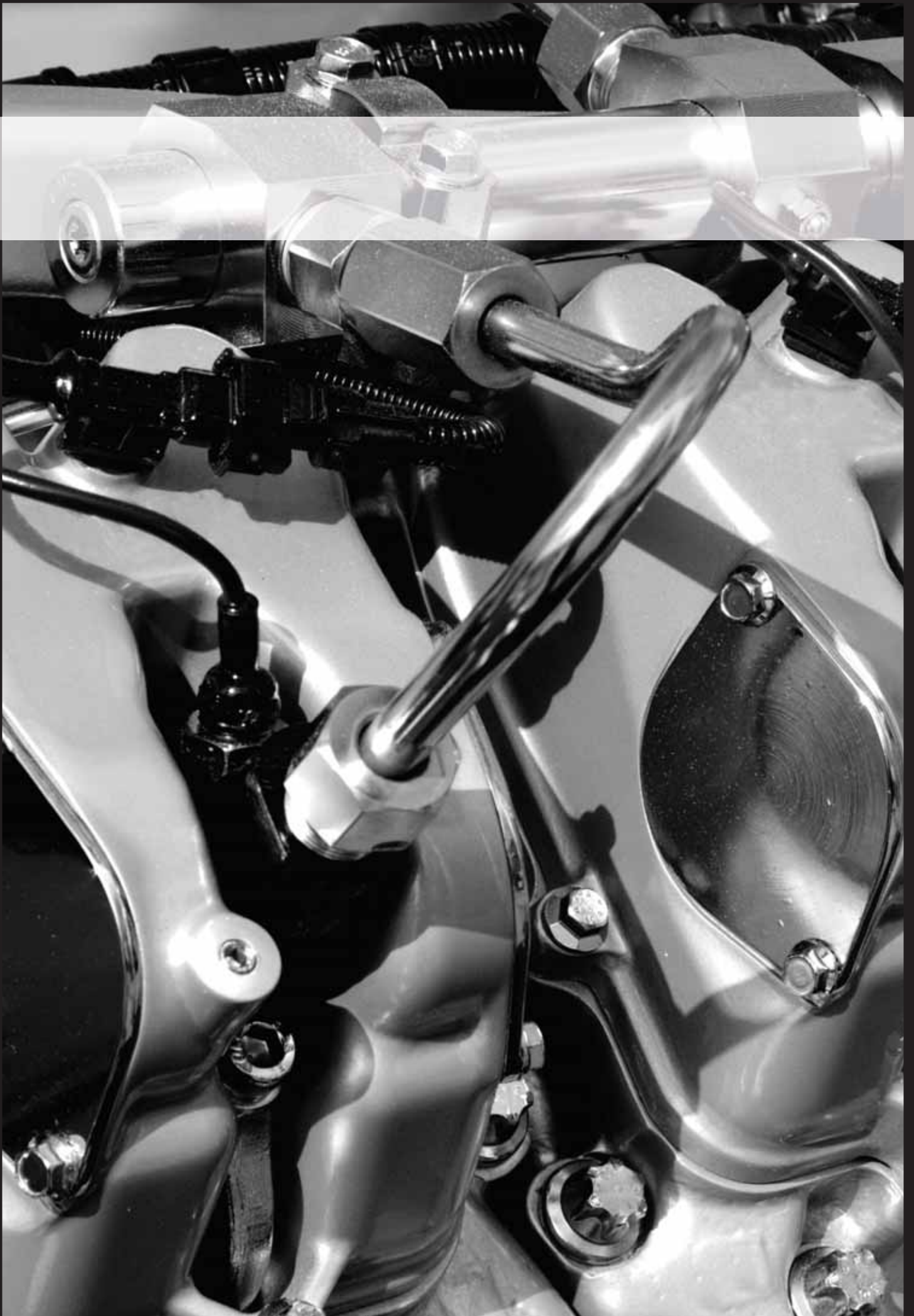
► Locking pin: Ø 10 - Ø 6 mm

► Milling cutter: Ø 21 mm



Milling kit

312 065 000



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)

311 157 000

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

311 166 000

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

311 064 000

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.



▶ MB: Vito, Vario, CLK, Sprinter, Viano, Classe M, GL, C, GLK, E, CLS, S, R, G
▶ Chrysler: 300 C



Engine
▶ MB: 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



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 dismantling 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
- ▶ Opel
- ▶ Engine: 1.3 CDTI
- ▶ Engine codes: Z13DTH, Z13DTJ, Z13DT
- ▶ Suzuki
- ▶ Engine: 1.3 DDiS 16v
- ▶ 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 EEV



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 CDTI, 1.9 CDTI, 2.0 CDTI,
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



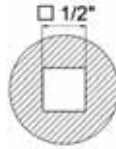
Injector removal socket



Special socket for removing injector electrical connector.

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

- ▶ Bosch



Bussola

720 019 000

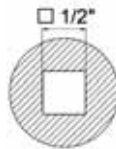
Injector removal socket



Special socket for removing injector electrical connector.

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

- ▶ Bosch



Injector removal socket

720 020 000

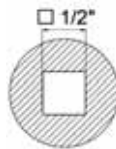
Injector removal socket



Special socket for removing injector electrical connector.

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

- ▶ Siemens



Injector removal socket

720 021 000

Injector 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

Injector removal socket



Special socket for removing injector electrical connector..

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



- ▶ Bosch



Injector removal socket

720 023 000

Tool for injector spindle - BOSCH



Special tool suitable for removing the injector spindle.

- ▶ Injectors: Bosch

- ! ▶ CH. 10 mm



Tool for injector spindle

311 026 040

Injector pipe removal socket



Special socket for mounting and dismounting fuel injection pipe on diesel engines.

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

- ! Engine
- ▶ Diesel



Injector pipe removal socket

311 104 000

Injectors extractor kit - PSA



Complete set for removing PSA HDI 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, Siemens
- ▶ Peugeot
- ▶ Citroen
- ▶ Fiat e Lancia

- ! Engine
- ▶ 2.0 HDI, 2.2 HDI

- ! Engine codes
- ▶ **DW10:** RTH, RHW, 4HW, RHT, RHM, RHR, RHK
- ▶ **DW12:** 4HX, 4HZ, 4HW, 4HY, 4HT, 4HS, 4HP, 4HR, 4HN



Injectors extractor kit

311 072 000



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-PD



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

311 071 000

Injector puller - RENAULT



Complete set for removing Renault dCi injection nozzles.



- ▶ This kit allows the removal of the tightly fixed injectors nozzles without dismantling 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

311 070 000

Injector puller - RENAULT



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 dismantling 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

311 090 000



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

Injector 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



Injector seat cleaning kit

311 047 000

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 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
- ▶ Citroën
- ▶ 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.



Joint

311 026 039

Socket M18



M18 socket TO BE USED with the code 311026000.



► Opel



Engine

► 2.2 Diesel



Socket M18

311 026 031

Injector puller - DENSO

NEW



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, 11L 12182



Injector puller

311 169 000



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 puller

311 051 000

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

311 047 014

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

311 047 017



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

311 047 025

Injector edge cleaning tool - UNIVERSAL



Special tool for injector edge resurfacing.

-  ▶ Injectors: Universal



Injector edge cleaning tool

311 047 023

Injector seat cleaning tool - DENSO



Special tool for injector seat resurfacing.

-  ▶ Injectors: Denso
 - ▶ Toyota
 - ▶ Mazda
 - ▶ Mitsubishi

-  ▶ Ø 17 - 19 mm



Injector seat cleaning tool

311 112 000

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

311 056 008



Injector seat cleaning tool - BOSCH



Special tool for injector seat resurgacing.

 ▶ Injectors: Bosch

 ▶ Ø 15,5 mm



Injector seat cleaning tool

311 047 016

Injector seat cleaning tool - DELPHI



Special tool for injector seat resurgacing.

 ▶ Injectors: Delphi

 ▶ Ø 17 mm



Injector seat cleaning tool

311 079 008

Injector seat cleaning tool - BOSCH



Special tool for injector seat resurgacing.

 ▶ Injectors: Bosch

 ▶ Ø 17-19 mm



Injector seat cleaning tool

311 078 015

Injector seat cleaning kit - BOSCH



Injector seat resurgacing kit.

 ▶ Injectors: Bosch

 ▶ Ø 15,5-17-19 mm



Injector seat cleaning kit

311 078 000

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



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 311 1076000 (Copper sealing ring extractor).

- ▶ For washers with holes \varnothing 10 mm



Ring extractor

311 076 024

Hydraulic cylinder



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: \varnothing 80x55 mm
- ▶ Pressure: 700 Bar
- ▶ Weight: 2,02 Kg
- ▶ Hole: \varnothing 21,5



Hydraulic cylinder

270 019 000

Hydraulic cylinder



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: \varnothing 90x155 mm
- ▶ Pressure: 700 Bar
- ▶ Weight: 5,12 Kg
- ▶ Hole: \varnothing 20,4 mm



Hydraulic cylinder

270 017 000

Hydraulic cylinder

NEW



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 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



Hydraulic cylinder

270 020 000



GLOW PLUGS



Glow plug removal kit



Complete set for removing glow plugs.



▶ Mercedes



Engine
▶ CDI



▶ Thread size M10x1



Glow plug removal kit

311 031 000

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 $\varnothing 7 - \varnothing 5,5$ mm.



▶ Mercedes



Engine
▶ CDI



▶ Thread size M10x1
▶ Thread size M8x1



Glow plug removal kit

311 031 017

Blowing tool - BOSCH



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



▶ Size: $\varnothing 19$ mm



Blowing tool

311 031 019



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

311 096 000



Glow plug removal kit

Complete set for removing glow plugs.



► Fiat



Engine
► 1.3 MJ



► Thread size M8x1



Glow plug removal kit

311 101 000



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

311 098 000



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: RADIUS, 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

NEW



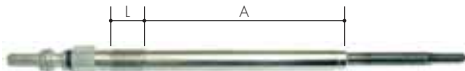
Set for removing glow plugs M10X1 - M10X1,25.



▶ Use the spiral drill $\varnothing 5,5$ supplied to remove glow plugs



▶ Usage specifications: $A \geq 14$ mm
 $L \leq 13$ mm



Glow plug removal kit

311 162 000

Glow plug removal kit

NEW



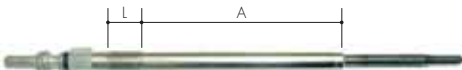
Set for removing glow plugs M9X1.



▶ Use the spiral drill $\varnothing 4,5$ supplied to remove glow plugs



▶ Usage specifications: $A \geq 20$ mm
 $L \leq 13$ mm



Glow plug removal kit

311 163 000

Glow plug removal kit

NEW



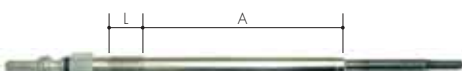
Set for removing glow plugs M8X1.



▶ Use the spiral drill $\varnothing 4,5$ supplied to remove glow plugs



▶ Usage specifications: $A \geq 20$ mm
 $L \leq 13$ mm



Glow plug removal kit

311 164 000



Glow plug removal kit



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 plug removal kit

311 160 000

Glow plug removal kit



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



Glow plug removal kit

311 161 000

Socket for injection pump



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




Socket for injection pump


311 168 000



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




Glow plug reamer

311 059 000



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




Glow plug reamer

311 082 000



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




Glow plug reamer


311 092 000



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



Glow plug reamer

311 091 000



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

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
- M10x1set
- M10x1.25 set
- M12x1.25 set

▶ **Application SPARK PLUGS:**

- M12x1.25 set
- M14X1.25 set



Glow plugs repair kit

772 004 000

Glow plug extractor

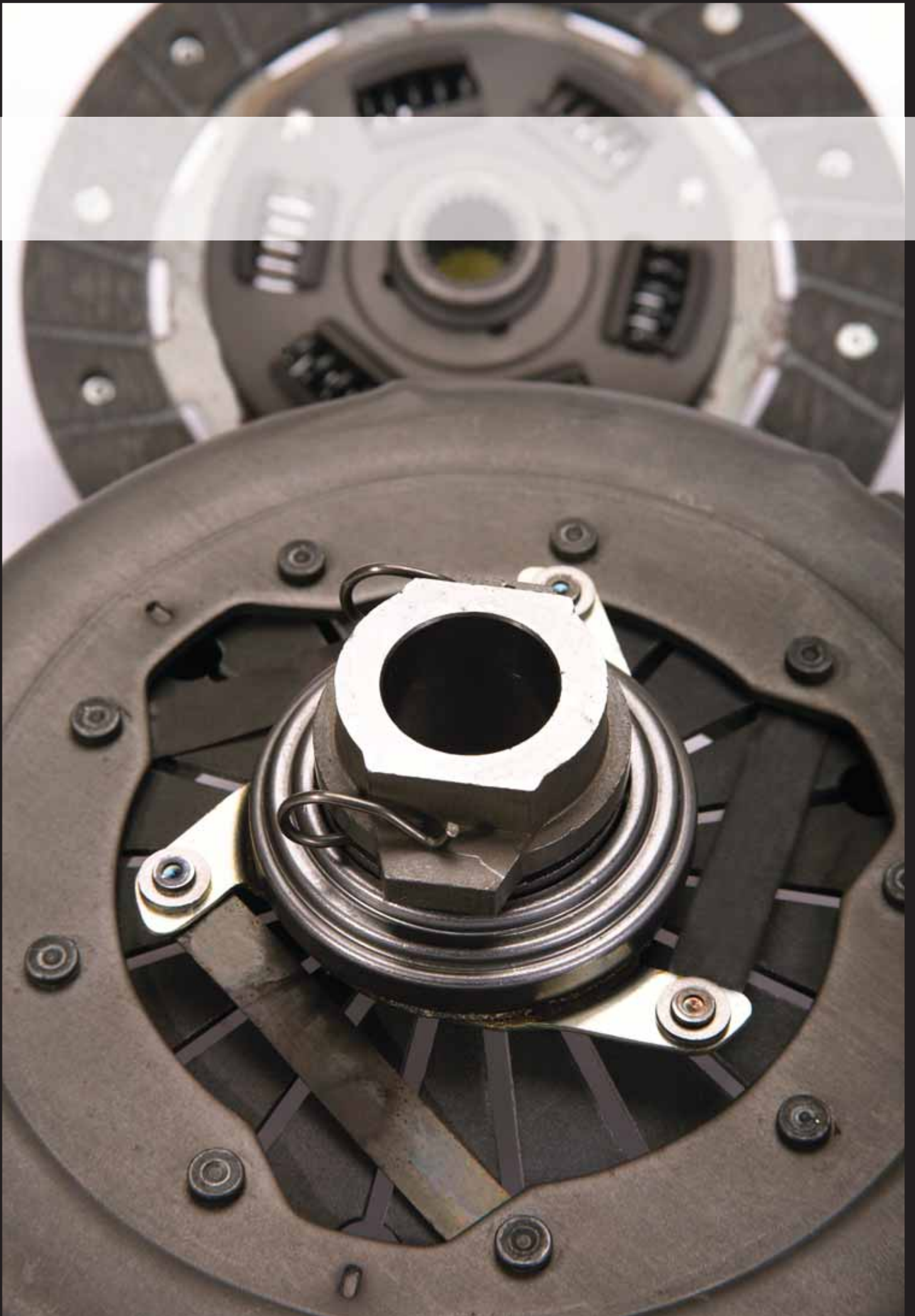


Roller extractor for removing glow plugs electrode.

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



Glow plug extractor	Ø 2,5 mm	734 001 000
Glow plug extractor	Ø 3,5 mm	734 002 000
Glow plug extractor	Ø 4 mm	734 003 000
Glow plug extractor	Ø 5 mm	734 004 000
Glow plug extractor	Ø 7 mm	734 005 000
Glow plug extractor	Ø 2 mm	734 006 000



CLUTCH



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



Clutch aligner set SAC

318 010 000

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



Clutch aligner set SAC

318 008 000

Clutch aligner set SAC



Clutch aligner set.

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

318 008 002

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

318 007 000

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

318 014 000

Clutch aligner set SAC



SAC clutches set.

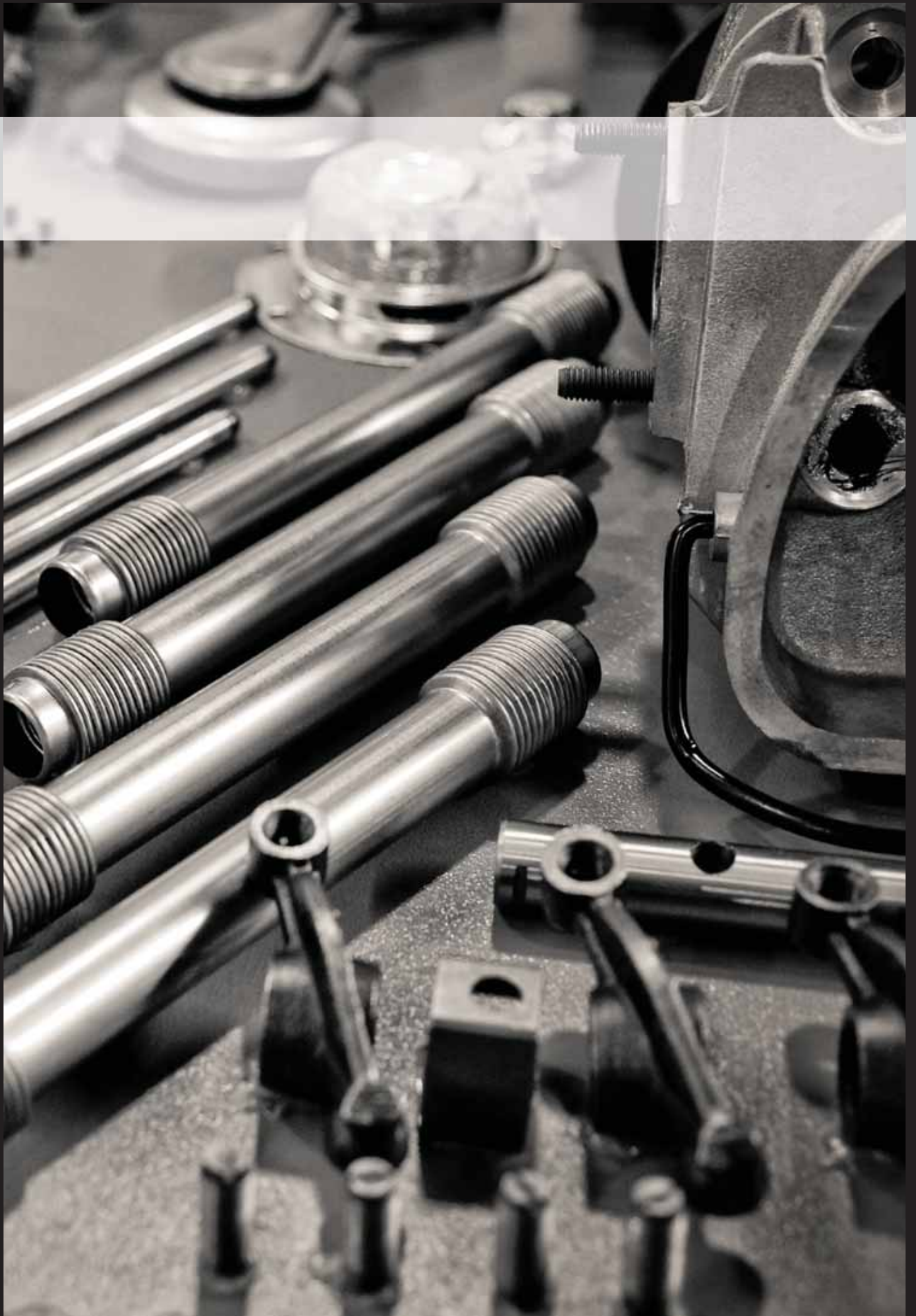


- ▶ **Complete Set** to be used with all SAC clutches **with** or **without** pressure plate bearings.



Clutch aligner set SAC

318 015 000



GENERAL REPAIRS



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.)



Spare part kit	772 001 000
Spare part kit including n.10 threaded inserts	772 001 002

CNG filling valve



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

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



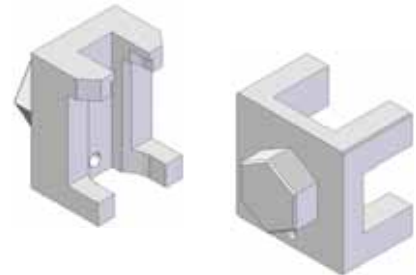
CNG filling valve	311 107 000
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CNG filling valve



Kit of wrenches 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
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CNG filling valve



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

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



CNG filling valve	311 170 000
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Socket



Special tool for replacing oxygen sensor.

 ▶ 22 mm



Socket

317 001 000

Socket



Special tool for replacing oxygen sensor.

 ▶ 20 mm



Socket

317 002 000

Plier



Special plier with specific grip for dismounting automatic fuel connection



Plier

311 001 000

Locking wrench



Locking wrench for metallic clamps between rubber caps and cardan joints.



Locking wrench

384 000 000



Pulley extractor

Adjustable extracting tool for Poli-V pulleys.

- ▶ Puller diameter: Min 50 mm. Max 180 mm.
- ▶ Cog depth: 3,5 mm.



Pulley extractor

313 176 000



Polygonal wrenches

Set of polygonal wrenches for dismantling 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 wrenches

313 182 000



ON DEMAND Polygonal wrench

Polygonal wrench 18 mm.



Polygonal wrench

313 186 019



ON DEMAND Polygonal wrench

Polygonal wrench 14 mm.



Polygonal wrench

313 186 020

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



Torx Wrenches



Socket spanners Set - E-Profiles 9 pcs.

Application: mounting and dismantling Torx screws.

! ▶ WRENCHES INCLUDED:

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



Torx Wrenches

313 209 000

ON DEMAND Torx Wrench



Wrench E8.



Torx Wrench

313 206 002

ON DEMAND Torx Wrench



Wrench E10.



Torx Wrench

313 206 003

ON DEMAND Torx Wrench



Wrench E12.



Torx Wrench

313 206 004

ON DEMAND Torx Wrench



Wrench E14.



Torx Wrench

313 206 005

ON DEMAND Torx Wrench



Wrench E16.



Torx Wrench

313 206 006

ON DEMAND Torx Wrench



Wrench E18.



Torx Wrench

313 206 007

ON DEMAND Torx Wrench



Wrench E20.



Torx Wrench

313 206 008

ON DEMAND Torx Wrench



Wrench E22.



Torx Wrench

313 206 009



Stretch belts kit



Special kit suitable for mounting the new stretch belts.

! Components:

- ▶ Belt fitting tool: \varnothing 50, \varnothing 32
- ▶ Viti: M8x25 \varnothing 5,9 mm, M8x40 \varnothing 5,7 mm, M8x65 \varnothing 5,6 mm



Stretch belts kit

313 191 000

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

- ### ▶ Alfa Romeo 159 2.4, Multijet; ▶ Fiat Multipla, Bravo, Croma 1,6 petrol and 2,4 MJ; ▶ Lancia Lybra: 1.6 petrol ▶ BMW Serie 1, Serie 3 ▶ Citroën C Picasso, C4, C4 Picasso, C5, Jumpy, Berlingo: 1.6 HDI ▶ Peugeot 207, 308, 407, Partner, 5008, 3008: 1.6 HDI ▶ Ford Focus, C-Max: 1.6 TDCI ▶ Mazda 3: 1.6 DE



Stretch belts kit

313 219 000

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 \varnothing 5,6 - L=32,5
- ▶ Screw: M8x65 \varnothing 5,6 mm - L=11,5



Stretch belts kit

313 196 000

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: $\varnothing 50$, $\varnothing 32$
- ▶ Screws: M8x65 $\varnothing 5,6$ mm - L=32,5, M8x65 $\varnothing 5,6$ mm - L=11,5, M8x25 $\varnothing 5,9$ mm, M8x40 $\varnothing 5,7$ 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



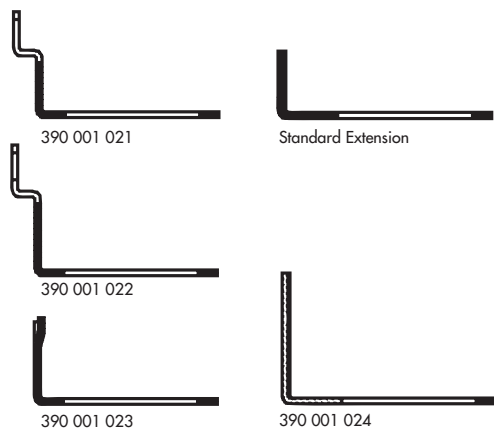
Carburetor float remover equipped with 5 series of extensions, that include also PSA and Renault models.



- ▶ PSA
- ▶ Renault



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



Carburetor float removal

390 003 000

Pulley wrench - UNIVERSAL



Adjustable wrench for locking and rotating pulleys.



Pulley wrench

313 034 000

Honing tool



Adjustable honing at full expansion for cars.



- ▶ Cylinders \varnothing 50 - 160 mm
- ▶ Stones Length 100 mm



Honing tool

314 005 000




Spare parts: Serie 3 stones with support g. 220 - Length mm 100

314 006 000



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






Honing tool	414 000 000
Spare parts: Serie 3 stones with support - Length 100 mm	414 001 000



Air operated motorcycle clamp

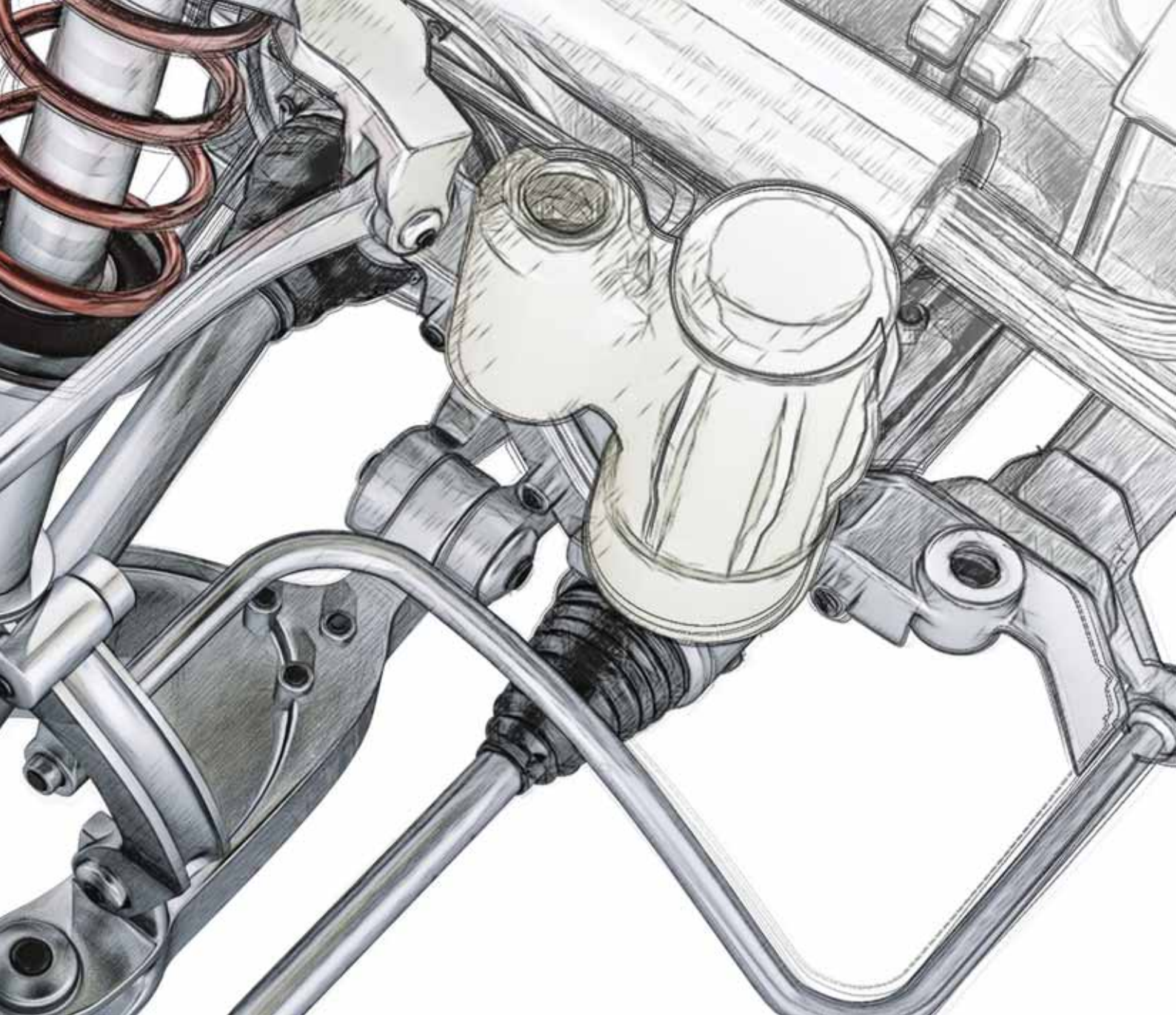
Air operated motorcycle clamp.

-  ▶ 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 smaller: (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 Kgf, 10 bar=500 Kgf



Air operated motorcycle clamp	490 000 000
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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**



Universal pneumatic coil spring compressor

321 055 000

Strut vice (ref. 1)

321 001 000

Bracket **A**: Ø 78 - Ø 130 mm (ref. 2)

321 002 000

Bracket **B**: Ø 125 - Ø 205 mm (ref. 3)

321 003 000



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: 65 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

321 056 000

Strut vice (ref. 1)

321 001 000

Bracket **A**: Ø 78 - Ø 130 mm (ref. 2)

321 002 000

Bracket **B**: Ø 125 - Ø 205 mm (ref. 3)

321 003 000



Pneumatic coil spring compressor - Passengers cars, SUV, armour-plated e commercial vehicles



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**



Pneumatic coil spring compressor

321 058 000

Strut vice (ref. 1)

321 001 000

Bracket **A:** Ø 78 - Ø 130 mm (ref. 2)

321 002 000

Bracket **B:** Ø 125 - Ø 205 mm (ref. 3)

321 003 000



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.



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



▶ 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



Mechanical coil spring compressor

321 051 000

Strut vice

321 001 000



ON DEMAND Special bracket for Mercedes



Bracket suitable for MB. TO BE USED with code 321029000.



► New Mercedes C-Class starting from 2010



Bracket

321 053 000

ON DEMAND Mercedes Bracket Set



Mercedes Bracket Set.



► Mercedes A, C & E Class



Brackets Set

320 014 000

Bracket "C" model from Ø 105 mm. to Ø 182 mm (1)

321 029 000

Upper bracket for Mercedes A, B, C, E Class (2)

321 031 000

Mercedes E-Class bracket (3)

321 034 000

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

321 049 000

ON DEMAND Strut support



Adjustable support for upholding the strut



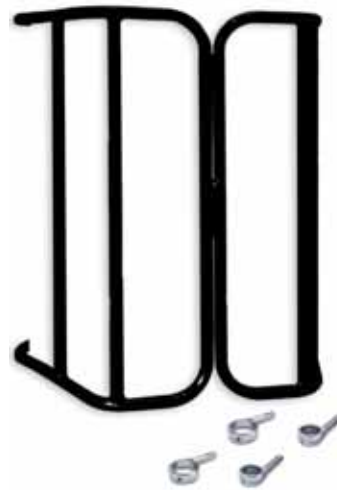
Strut support

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 Bi-Power



Bracket „C“ model

321 029 000



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



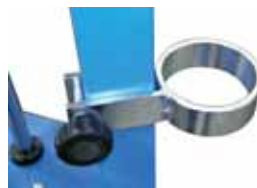
Special vice for Chrysler

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

321 001 000

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



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.



Set of long and short screws + jaws

320 010 000



Control system and testing device for shock absorbers

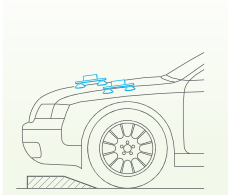
Control system and testing device for shock absorbers on auto vehicles .



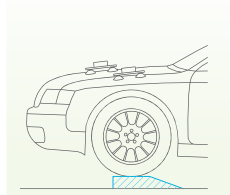
- ▶ This device allows to realize the diagnosis a part from the geometry of the vehicle, the place where the test takes place, as well as the knowledge and the experience of the user.
- ▶ It also realizes a reproducible diagnosis that can guarantee a wide reliability.
- ▶ In an advantageous way, the 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.



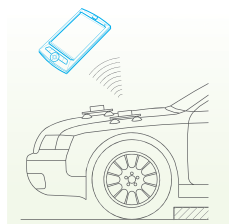
- ▶ **Usage:**
 - Application of sensors on the chassis
 - Advancement of the automobile on the platform.
 - Data transmission and diagnosis surveying.



Application of sensors on the chassis



Advancement of the automobile on the platform.



Data transmission and diagnosis surveying.



Study, design and prototype realized in collaboration with the Engineering Department of the University of Modena

Control system and testing device for shock absorbers

CheckMate

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.



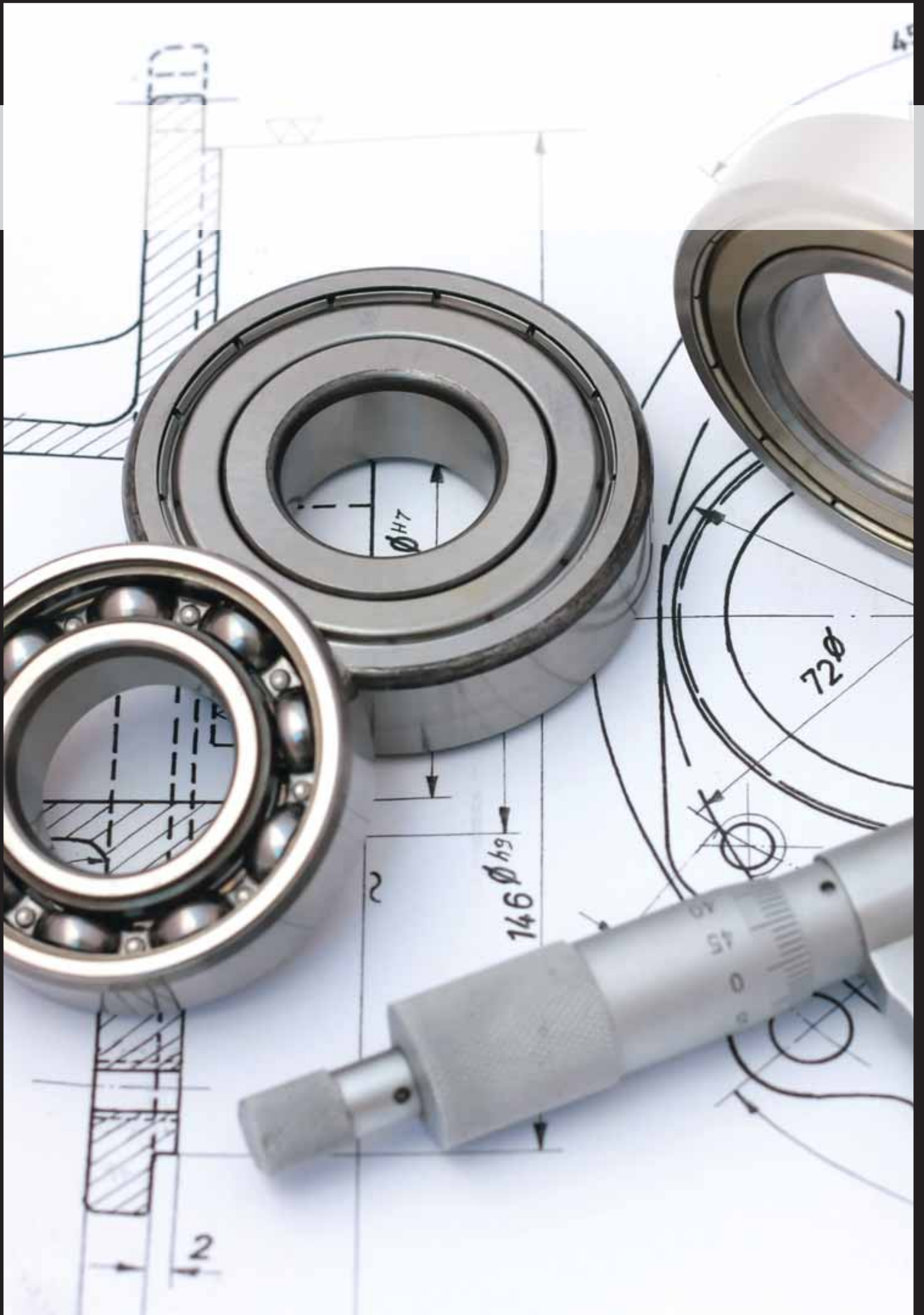
The complete extended stem is the result of the proper use of the device.

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



Special kit for mounting shock absorbers

321 061 000



\varnothing_{H7}

146 \varnothing_{h9}

72 \varnothing

2

0
15
30

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
- ▶ Off-Road.



Set for hubs and bearings	320 002 000
Spacer to extract-insert Renault bearings	323 000 000
Spacer to extract-insert Peugeot 106 bearings	323 001 000
Spacer to extract-insert Fiat , VW Golf, Opel Corsa and Astra bearings	323 002 000
Spacer to extract-insert Citroen bearings	323 003 000
Spacer to extract-insert Peugeot 205 bearings	323 004 000
Spacer to extract-insert Renault, Fiat, VW , Peugeot, Alfa, Lancia, Opel hubs	323 005 000
Spacer to extract insert Ford Mondeo, Escort, Fiesta, Peugeot e off roads hubs	323 006 000



Sets for hubs and bearings

Set of 3 spacers for bearings removal.



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



Set for bearings	320 004 000
Spacer to extract-insert Renault Laguna bearings	323 009 000
Spacer to extract-insert Peugeot 206 bearings	323 010 000
Spacer to extract-insert VW Golf IV-Audi A3 bearings	323 013 000



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
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Sets for hubs and bearings

Set of tools for removing and inserting hubs and bearings.



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



Set for hubs and bearings	320 015 000
Bearings: Renault	323 000 000
Bearings: Fiat, VW	323 002 000
Bearings: Citroën	323 003 000
Hubs: Renault, Peugeot, Fiat, Alfa, Lancia	323 005 000
Hubs: Peugeot, Ford and Off-Road	323 006 000
Hubs: Renault Laguna con ABS	323 009 000
Bearings: Peugeot 206	323 010 000
Bearings: VW, Audi	323 013 000



Sets for hubs and bearings

Set of tools for removing and inserting hubs and bearings.



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



Set for hubs and bearings	320 016 000
Bearings: Renault	323 000 000
Bearings: Citroën	323 003 000
Hubs: Renault, Peugeot, Fiat, Alfa, Lancia	323 005 000
Hubs: Peugeot, Ford and Off-Road	323 006 000
Hubs: Renault Laguna con ABS	323 009 000
Bearings: Peugeot 206	323 010 000



Kit for ring bearings



Set of tools for the replacement of inner ring bearings.



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



Kit for ring bearings

320 003 000

ON DEMAND Clip



Special small size clip TO BE USED with code 320003000.



- ▶ Extractor tool Ø 35/40



Clip

323 016 014

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

320 008 000

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



Shaft and CV joint kit

311 026 025

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



Kit for bearings

323 007 000

Plate



Plate for disassembling ball bearings and gears.



Plate

323 008 000



Extractor



Hubs extractor.



► Renault: Trafic



Extractor

323 011 000

Extractor



Bearing extractor.



► Renault: Trafic



Extractor

323 012 000

Wrench



Special XZN 18mm. wrench suitable for hubs removing.



► VW: Golf, V serie



Wrench

323 019 000

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..



Set for Silent-Blocks

322 004 000

Bearings and hubs extractor kit

NEW



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 $\varnothing 62 +66$ mm bearings via a modular system

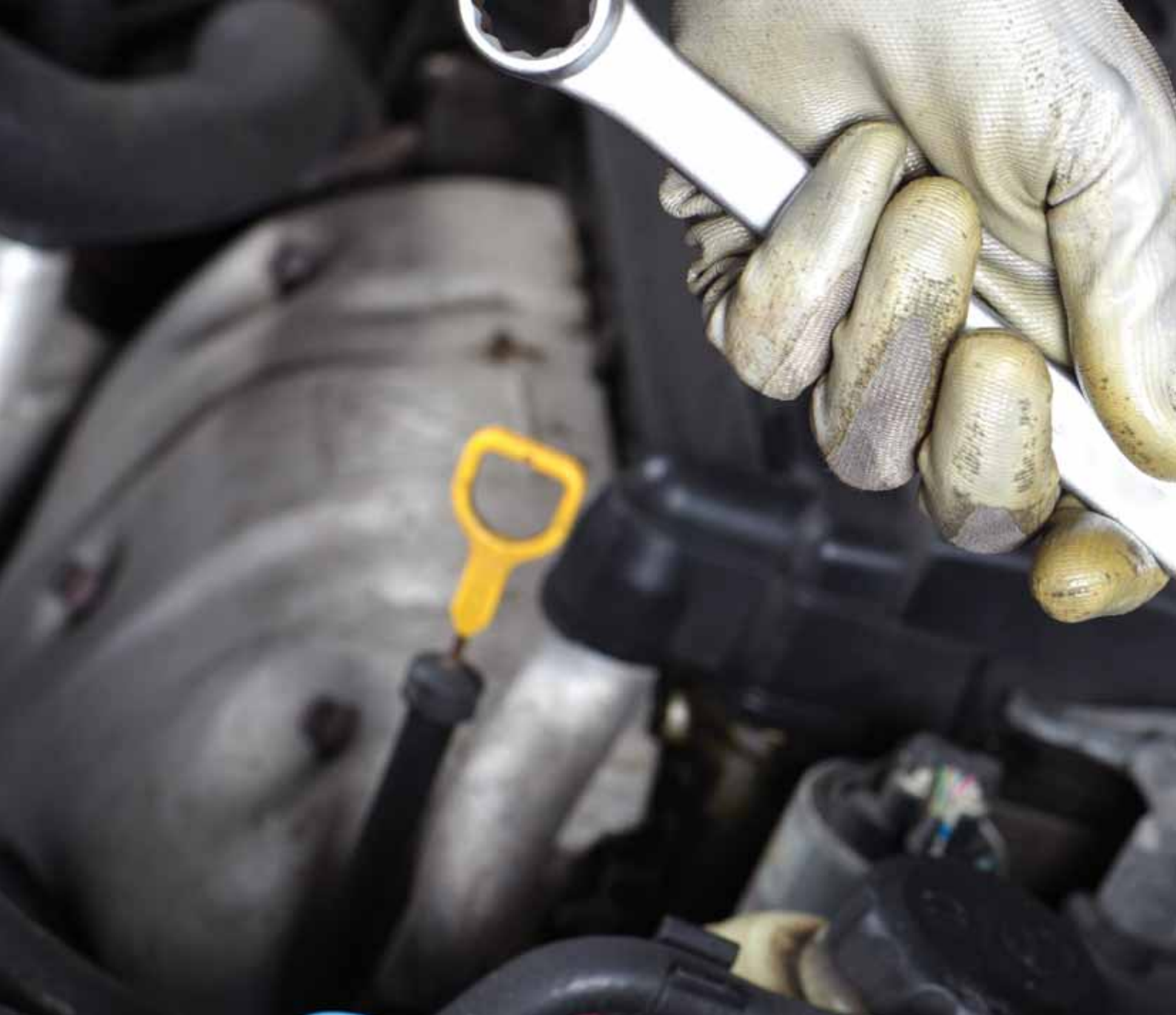


- ▶ Audi: A2 dal 2000
- ▶ Skoda: Fabia dal 2000
- ▶ VW: Polo dal 2002, Fox dal 2005
- ▶ Seat: Ibiza dal 2002



Bearings and hubs extractor kit

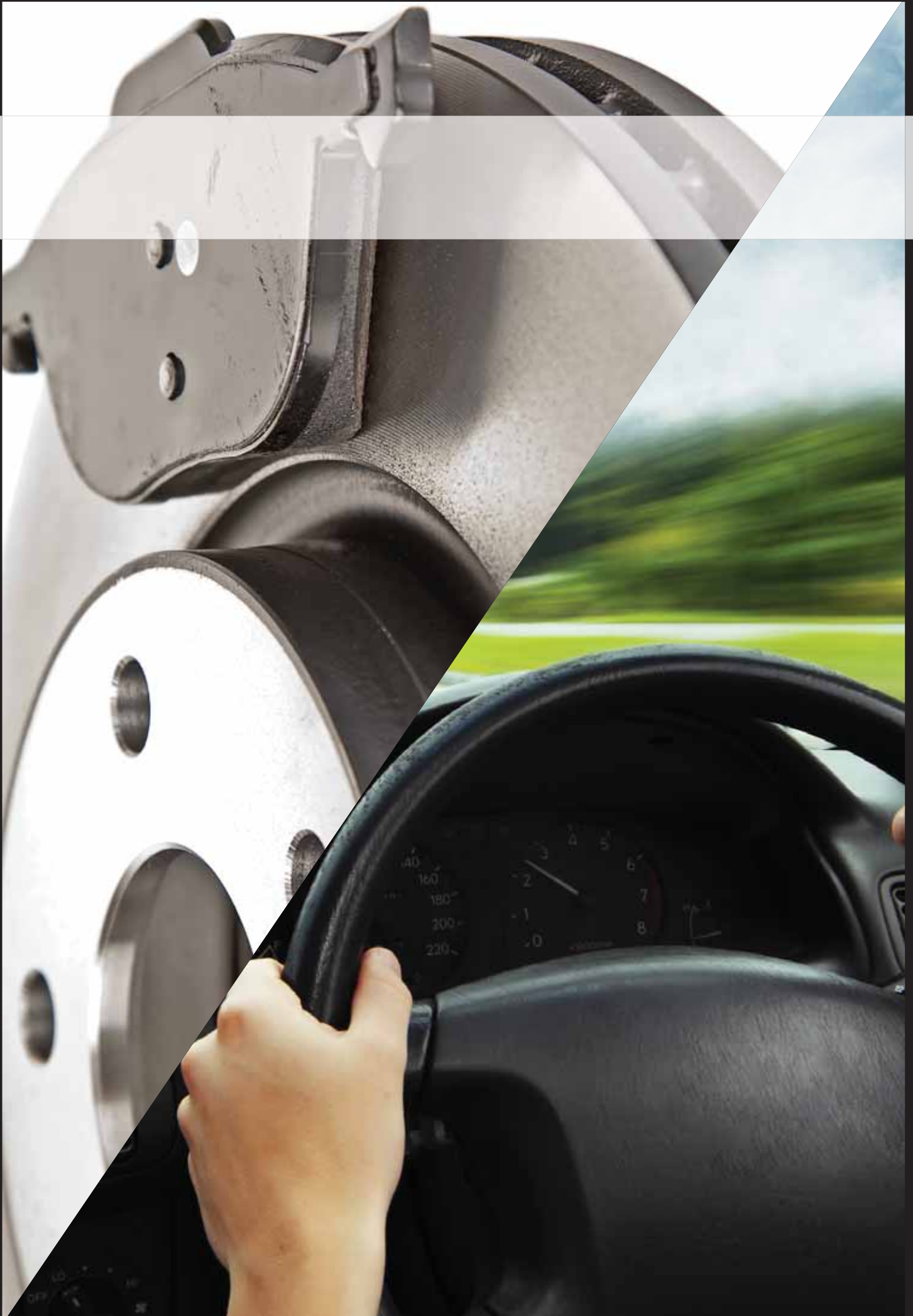
323 026 000





GENERAL REPAIRS

BRAKES - STEERING	169
BODY TOOLS	169
TYRES	175
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BRAKES - STEERING



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.



- ▶ VW
- ▶ Audi
- ▶ Ford
- ▶ Honda
- ▶ Jaguar
- ▶ Mazda
- ▶ Mitsubishi
- ▶ Nissan
- ▶ Peugeot
- ▶ Rover
- ▶ Seat
- ▶ Skoda
- ▶ Toyota



Pressure and wind back tool

330 003 000



Pressure and wind back tool

Special wind back tool for pressing back brake caliper pistons.



- ▶ Fiat



Pressure and wind back tool

332 007 000



Extractor for steering system

Special universal extractor for steering system.



- ▶ Ø 43,2 mm. - 20,25 mm



Extractor for steering system

385 001 000

Extractor for steering system



Special universal extractor for steering system.



- ▶ Van
- ▶ Commercial vehicles
- ▶ Autovehicles



- ▶ Ø 45,2 mm. - 32,25 mm



Extractor for steering system

385 004 000

Honing tools for brakes cylinders



"Mini" honing tool for brakes cylindrrs 3 stones.



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

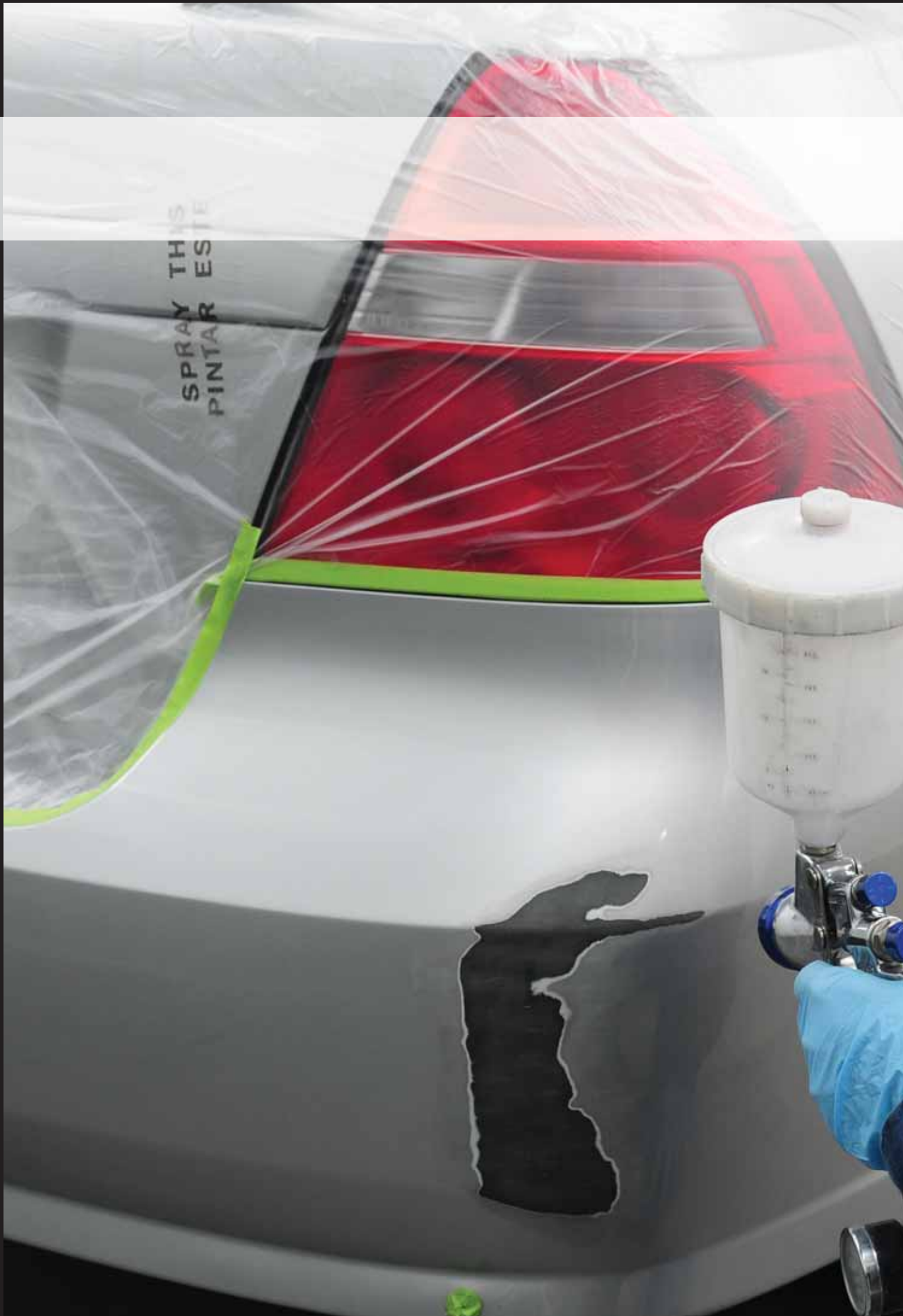


Honing tools for brakes cylinders

314 009 000

Spare parts: Series 3 stones with support - Length 35 mm

314 010 000



SPRAY THIS
PINTAR ESTE

BODY TOOLS



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



Toe dolly

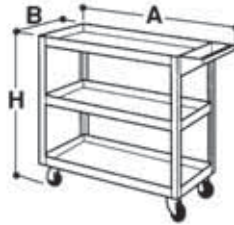
342 001 000

Trolley



3-shelved trolley..

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



Trolley

710 018 000

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



Paper dispenser

343 003 000

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



Paper dispenser

343 004 000



Wall-mounted paper dispenser

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



Paper dispenser

343 002 000



Floor-standing paper dispenser

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



Paper dispenser

343 000 000



Floor-standing paper dispenser with wheels

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



Paper dispenser

343 001 000

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..)



Punch plier	hole Ø 8 mm	344 005 000
Punch plier	hole Ø 6 mm	344 004 000
Punch plier	hole Ø 5 mm	344 003 000
Punch plier	hole Ø 4 mm	344 002 000
Punch plier	hole Ø 3 mm	344 000 000

Sheet bending plier



Sheet bending plier.



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



Sheet bending plier	344 007 000
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Door skin folding tool



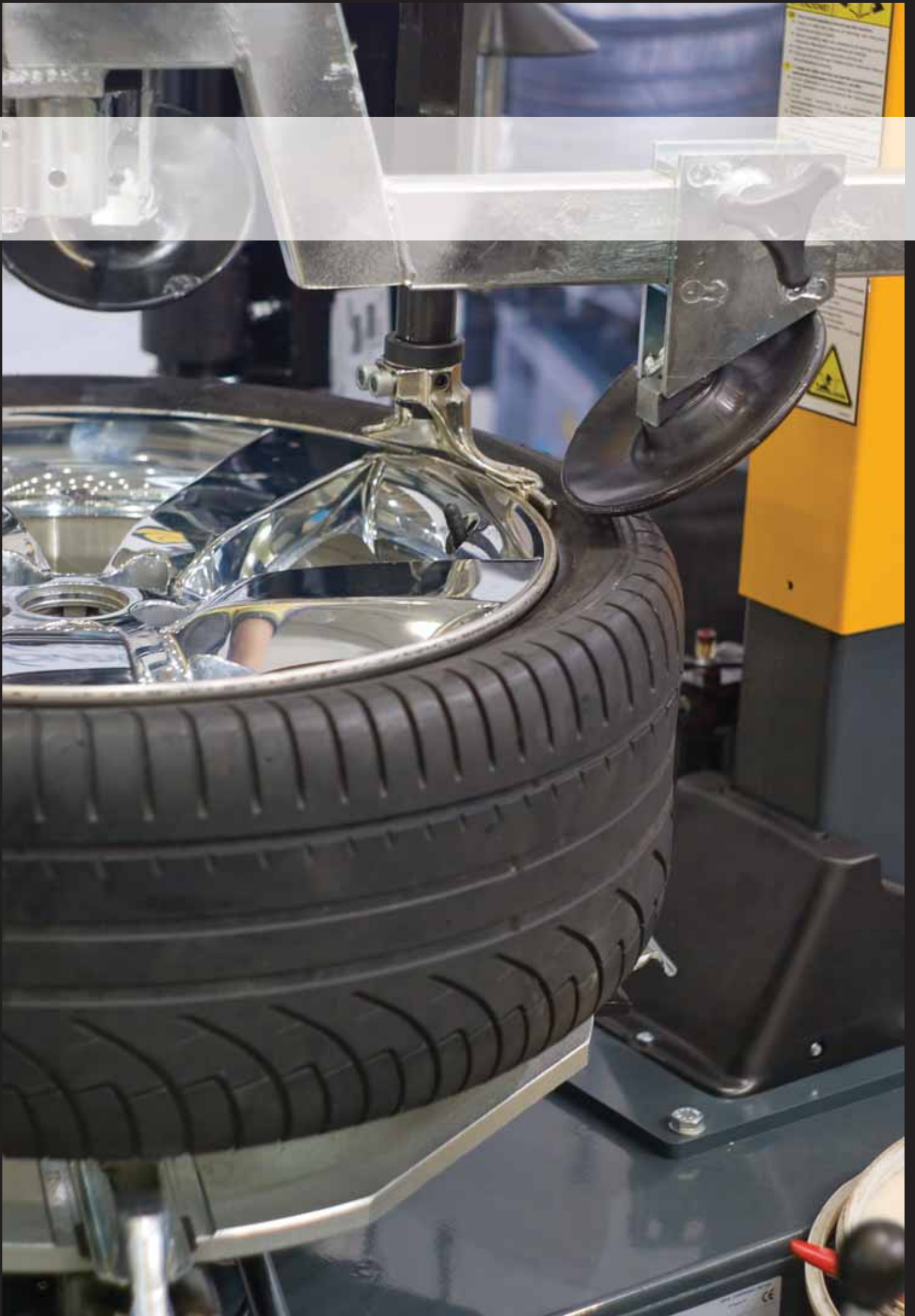
Door skin or panels folding tool.



► Fitted with nylon pad to prevent panel deformation.



Door skin folding tool	345 001 000
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TYRES



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



Tyre spreader

360 000 000



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



Portable tyre spreader

360 012 000



Tyre regroover

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



Tyre regroover	110 V	360 001 000
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Tyre regroover	230 V	360 002 000
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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..

Blade W1	360 003 001
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Blade W2	360 003 002
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Blade W3	360 003 003
-----------------	--------------------

Blade W4	360 003 004
-----------------	--------------------

Blade W5	360 003 005
-----------------	--------------------

Blade R1	360 003 006
-----------------	--------------------

Blade R2	360 003 007
-----------------	--------------------

Blade R3	360 003 008
-----------------	--------------------

Blade R4	360 003 009
-----------------	--------------------

Blade R5	360 003 010
-----------------	--------------------

Blade C1	360 003 011
-----------------	--------------------

Blade C2	360 003 012
-----------------	--------------------

Blade C3	360 003 013
-----------------	--------------------

Blade C4	360 003 014
-----------------	--------------------

Blade C5	360 003 015
-----------------	--------------------

Blade S1	360 004 001
-----------------	--------------------

Blade S2	360 004 002
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Blade W6	360 005 001
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Blade R6	360 005 002
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Blade C6	360 005 003
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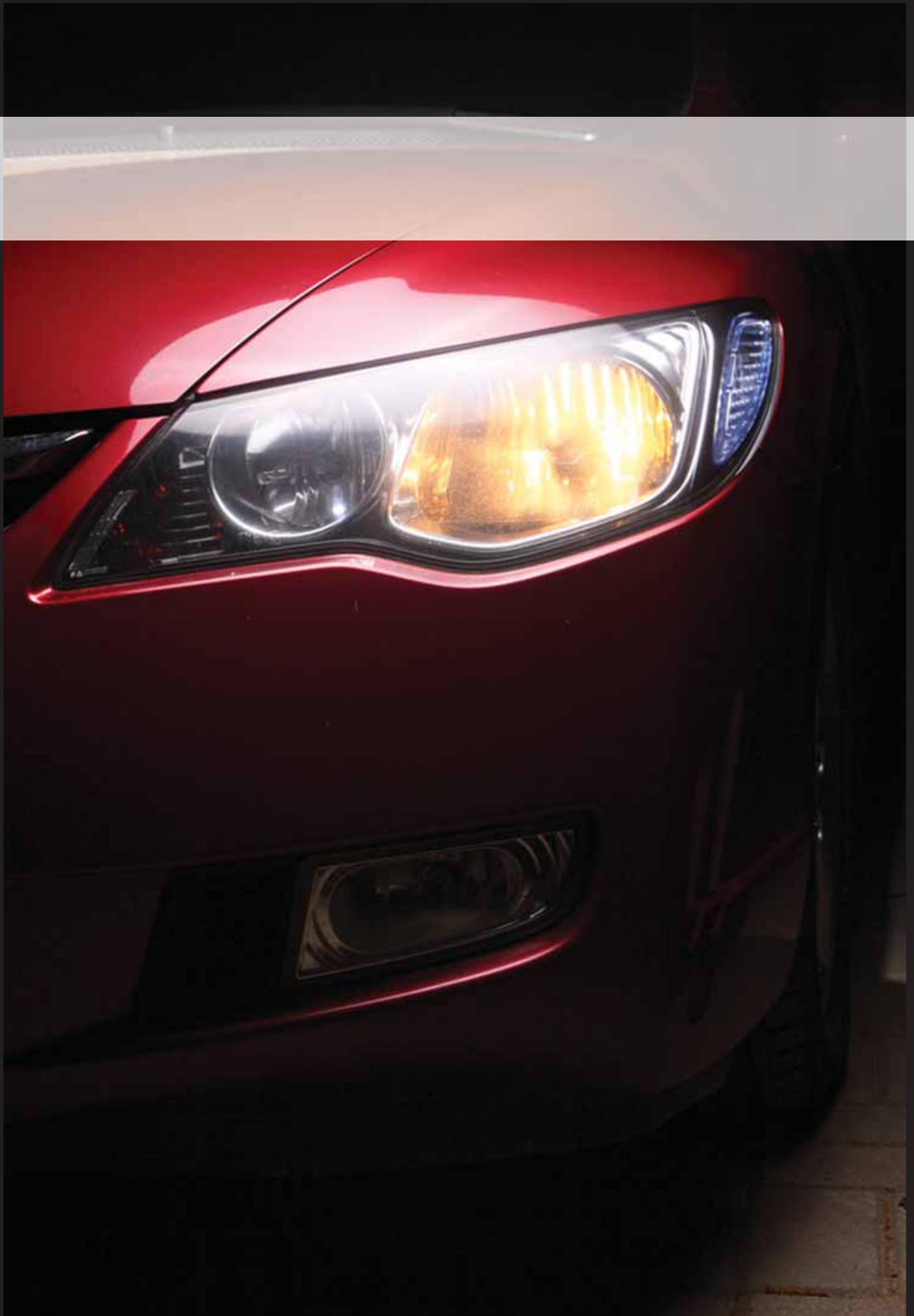
Blade C7	360 006 000
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Blade C8	360 007 000
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Blade C9	360 008 000
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BLADES TECHNICAL DATA							
SHAPE							
Roundhead	Angular	Combined	Width	Depth	Thickness	Pieces in each box	
W1	W1	C1	24	7	0.4x1.5	20	
R2	W2	C2	48	8		20	
W3	W3	C3	64	10		20	
W4	W4	C4	8-12	14	0.8x1.5	20	
W5	W5	C5	10-14	16		20	
W6	W6	C6	16-22	18	0.6x4	20	
		C7	20-26	20		10	
		C8	22-28	24		10	
		C9	22-28	30		10	
Special blades		S1	1	4	0.4x1.5	20	
		S2	1	8		20	



Headlight Testers

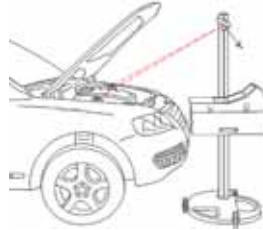


Mechanical headlight tester

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



Optical visor



Analogic graduated luxmeter



Lens of polycarbonate resin



Inclination setting



Sliding mechanism granted by precision self-lubricated Nylon skates



Mechanical headlight tester

351 000 000

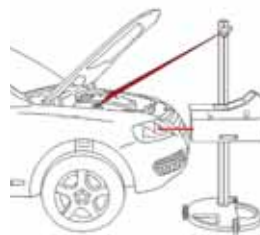
Mechanical headlight tester



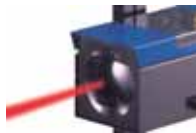
Mechanical headlight beam tester with digital luxmeter, LASER visor and LASER positioning.



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



LASER visor



LASER pointing system



Digital luxmeter



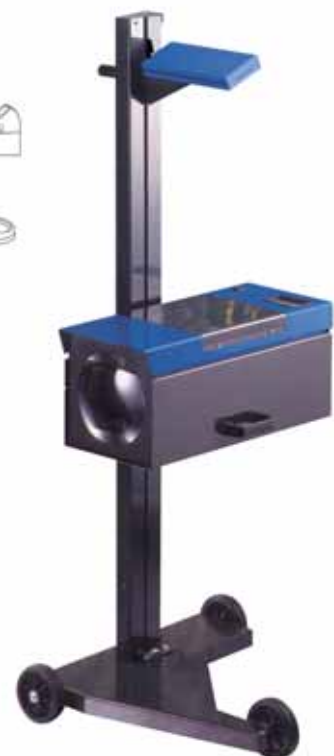
Lens of polycarbonate resin



Inclination setting



Sliding mechanism granted by precision self-lubricated Nylon skates



Mechanical headlight tester

351 001 000

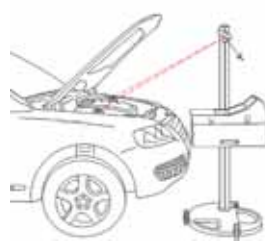


Mechanical headlight tester

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



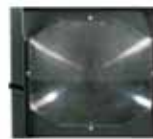
- ▶ Optical visor
- ▶ Analogic graduated luxmeter
- ▶ Lens of polycarbonate resin



Optical visor



Analogic graduated luxmeter



Lens of polycarbonate resin



Mechanical headlight tester

351 003 000

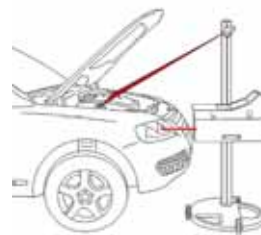
Electronic headlight tester



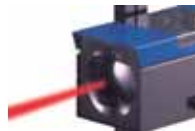
Electronic headlight beam tester with mirror visor, digital luxmeter and PC connection.



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



LASER visor



LASER pointing system



Digital luxmeter



PC connection



Inclination setting

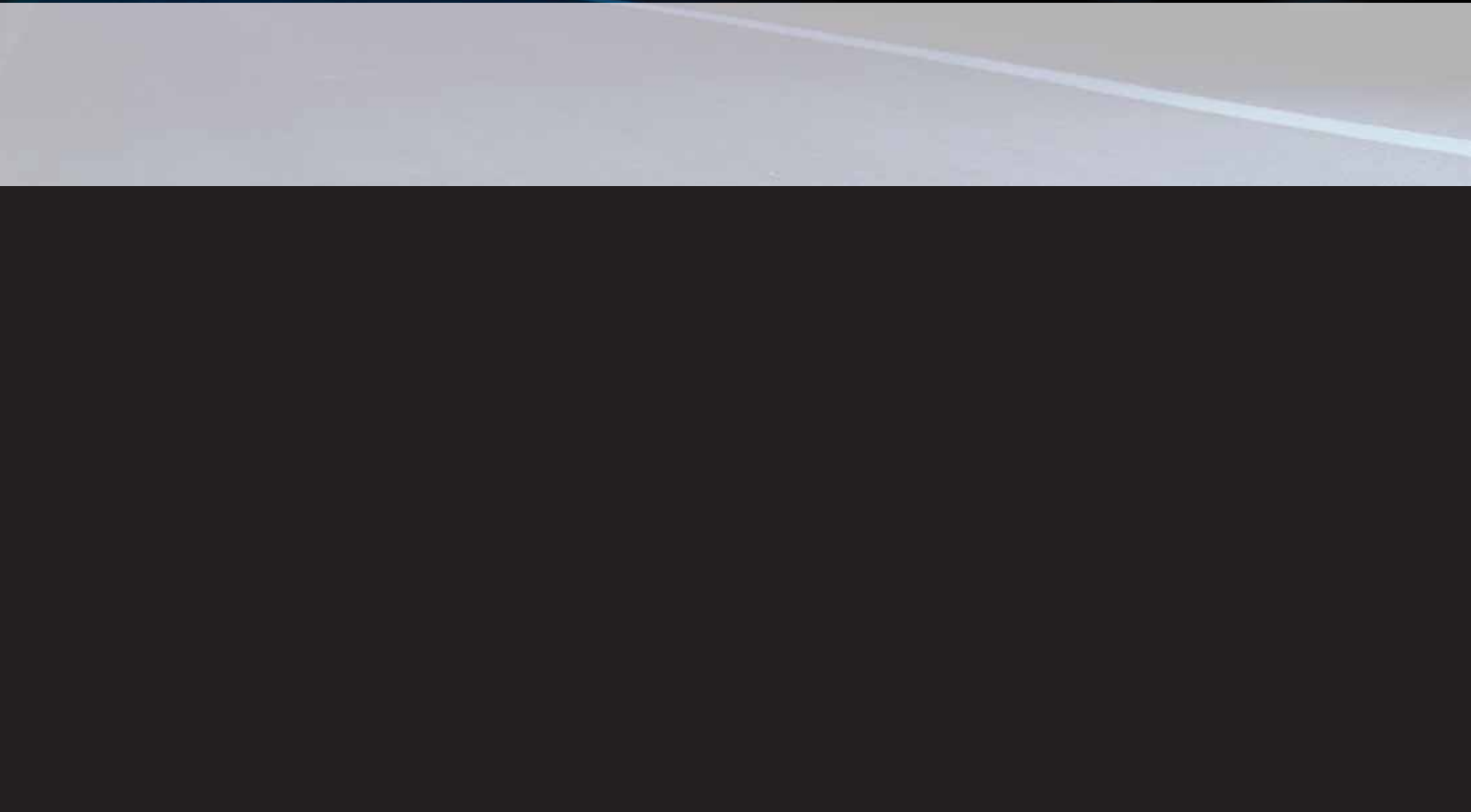


Sliding mechanism granted by precision self-lubricated Nylon skates



Electronic headlight tester

351 004 000





TRUCK

HUBS.....	184
FLYWHEELS	192
GENERAL REPAIRS	195



Wrench for hubs - ideal for BUS

NEW



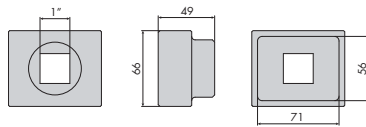
Wrenches for hub cover and trailer nuts.



- ▶ Axle nut disassembly
- ▶ Axle models KÄSSBOHRER/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: VL 3/8, 4/7, 4/9, 4/15, VD 4/14, of type 363, 385, 387, 389, 391, 393, 395, 617, 620, 621, 622, 623, 625, 649
- ▶ 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

523 018 000

Wrench for hubs - ideal for BUS

NEW



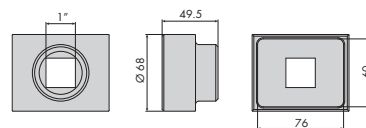
Wrench for stud nut.



- ▶ 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

523 019 000

Wrench for hubs - ideal for TRAILERS

NEW



Wrenches for hub cover.



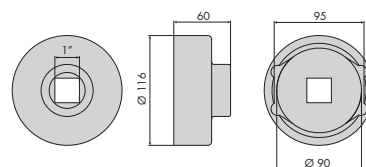
- ▶ Loosen the outer cap of the axle



- ▶ Specific for BPW 9TN



- ▶ inner Ø 90 mm - □ 1"



Wrench for hubs




523 020 000

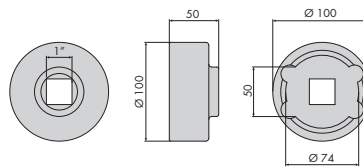
Wrench for hubs - ideal for TRAILERS

NEW



Wrench for hub covers.

-  ▶ Loosen the outer cap of the axle
-  ▶ Specific for BPW 12TN
-  ▶ inner $\varnothing 74$ mm - $\square 1"$



Wrench for hubs




523 021 000

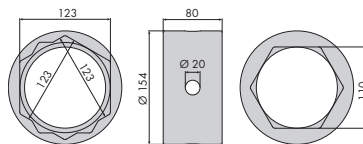
Wrench for hubs - ideal for TRAILERS

NEW



Dual use wrenches for hub covers and trailer nuts.

-  ▶ Trailer axle cover and nut disassembly
-  ▶ Specific for FRUEHAUF
-  ▶ $\varnothing 123$ mm
- ▶ hexagon 110 mm



Wrench for hubs




523 017 000

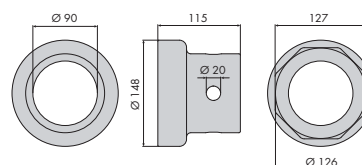
Wrench for hubs - ideal for TRAILERS

NEW



Octagonal wrench for trainer nut.

-  ▶ Trailer axle nut disassembly
-  ▶ Specific for R.O.R.
-  ▶ octagon 127 mm
- ▶ $\varnothing 126$ mm



Wrench for hubs

523 012 000

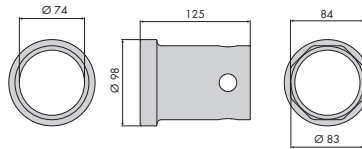


Wrench for hubs - ideal for TRAILERS



Octagonal wrench for trainer nut.

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



Wrench for hubs

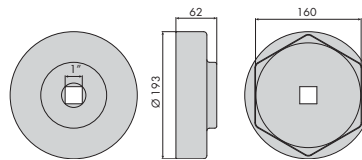
523 016 000

Wrench for hubs - ideal for TRAILERS



Hexagonal wrench for trailer hub covers.

- ▶ Trailer axle nut disassembly
- ▶ Specific for FONTENAC RENAULT
- ▶ hexagon 160 mm - □ 1"



Wrench for hubs

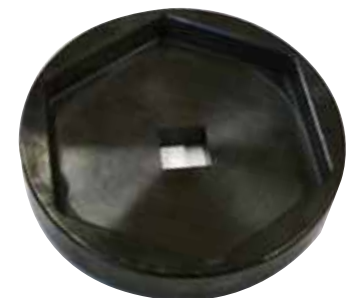
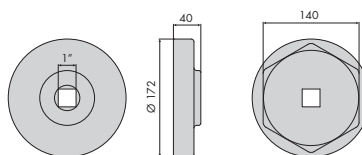
523 006 000

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"



Wrench for hubs




523 007 000

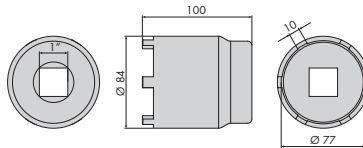
Wrench for hubs - ideal for TRUCK

NEW



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 \varnothing 77 mm - \square 1"



Wrench for hubs




523 003 000

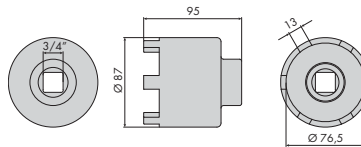
Wrench for hubs - ideal for TRUCK

NEW



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 \varnothing 76,5 mm - \square 3/4"



Wrench for hubs




523 005 000

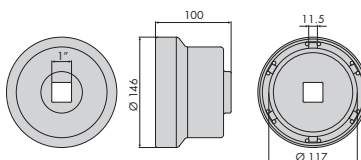
Wrench for hubs - ideal for TRUCK

NEW



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 \varnothing 117 mm - \square 1"



Wrench for hubs

523 009 000



Wrench for hubs - ideal for TRUCK

NEW



6-teeth wrench.



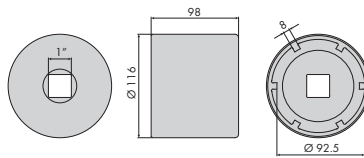
▶ Loosen the nut of the front axle with disc brakes and ABS



▶ Front axle models:
TGA V9 - 82L - 01
▶ Specific for MAN



▶ 6 teeth - tooth width 8 mm
▶ inner \varnothing 92,5 mm - \square 1"



Wrench for hubs

523 010 000

Wrench for hubs - ideal for BUS

NEW



6-teeth wrench for front axle.



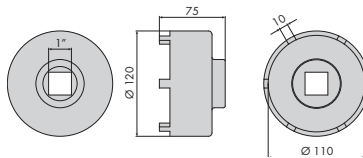
▶ Front reduction hypoid axle nut disassembly



▶ Low-platform bus with gantry axle HDNP-1300
▶ Specific for MAN AUTOBUS



▶ 6 teeth - tooth width 10 mm
▶ Inner \varnothing 110 mm - \square 1"



Wrench for hubs

523 024 000

Wrench for hubs - ideal for TRUCK

NEW



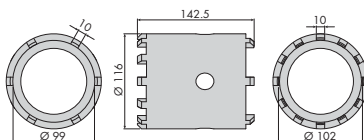
Dual use toothed wrench for nuts.



▶ Rear axle models:
10TN/13TN - HL7/1 - HL7/2 - HL7/18 - HO7/8 - HO7/9 - HL7/0 - HL7/015 -
HL/021 - HL7/3 - HD7/2 - HD7/19DG - HD7/016DG
▶ Front axle models:
7TN AL7/1



▶ 12 teeth - tooth width 10 mm - inner \varnothing 102 mm
▶ 6 teeth - tooth width 10 mm - inner \varnothing 99 mm



Wrench for hubs

523 001 000

Wrench for hubs - ideal for TRUCK

NEW



6-teeth wrench for rear axle.



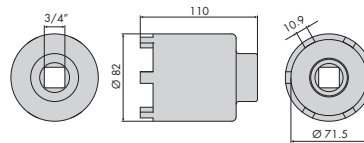
▶ Rear reduction hypoid axle nut disassembly



▶ 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

NEW



6-teeth wrench.



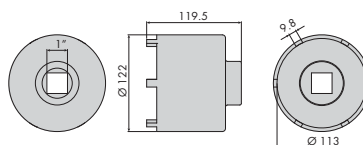
▶ Wrench for dismounting the nut of the trailer balancing axle and the pinion



▶ 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

NEW



6-teeth wrench.



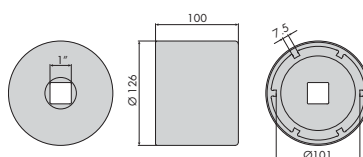
▶ Loosen the toothed nut



▶ 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

NEW



12-teeth wrench for rear axle.



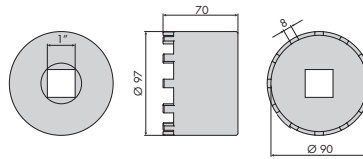
▶ Loosen the nut of the rear axle



▶ BRG year 2001
▶ Specifica per MERCEDES ACTROS 1840



▶ 12 teeth - tooth width 8 mm
▶ Inner \varnothing 90 mm - \square 1"



Wrench for hubs

523 013 000

Wrench for hubs - ideal for TRUCK

NEW



6-teeth wrench.



▶ Chiave smontaggio dado assi a riduzione ipoidale

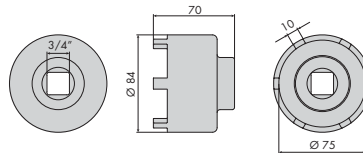


▶ Rear axle models:
HL2/14 - HL2/30 - KL2/16 - KL4/1 - KL4/16 - KL4/17 - KL4/23 -
KL4/28 - KL4/29 - KL4/4 - KL4/8 - KD4/6G - HO4/2 - HO4/18 -
NR4/4

▶ Front axle models:
AL3/1 - AL3/2 - AL3/3 - AL3/4 - AL3/7 - AL3/8



▶ 6 teeth - tooth width 10 mm
▶ Inner \varnothing 75 mm - \square 3/4"



Wrench for hubs

523 014 000

Wrench for hubs - ideal for TRUCK

NEW



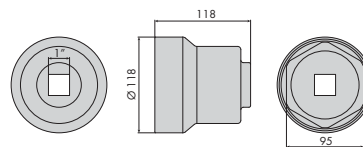
Wrench for hexagonal nut.



▶ Rear axle
▶ Trailer axle
▶ Axle with compact bearings



▶ Hexagonal nut 95 mm - \square 1"



Wrench for hubs


523 023 000


Wrench for hubs - ideal for TRUCK

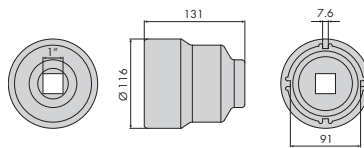
NEW



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


NEW

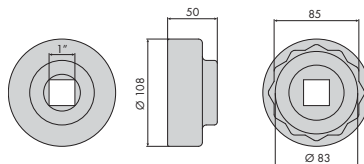


Polygonal wrench for hubs.

-  ▶ 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


NEW

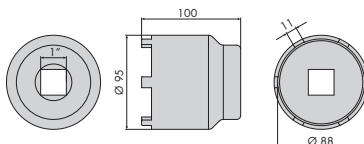


6-teeth wrench for rear axle.

-  ▶ 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

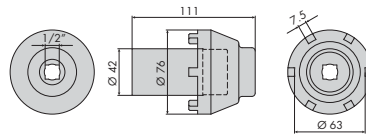


▶ Rear axle models:
 H10/3 - H10/6 - H10/7 - H11/2 - H11/3 - H11/8 - H11/9 - H12/2 -
 H12/3 - H12/5 - H12/9 - H12/11 - H12/12 - H12/15

▶ 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.

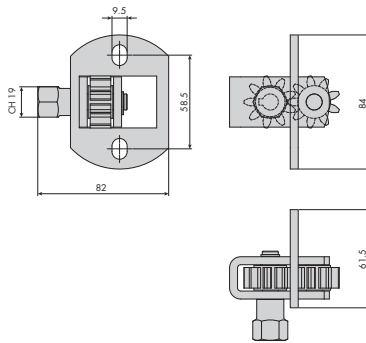


▶ Specific for MERCEDES:
 6, 8, 10 cylinders

▶ Models:
 401 - 404 - 407 - 409 h/ha - 421 - 424 - 441 - 444 A/LA - 427 -
 429 - 4289 - 447 h/ha



▶ 2 gears



Wrench for flywheel

513 003 000

Wrench for flywheel- ideal for TRUCK



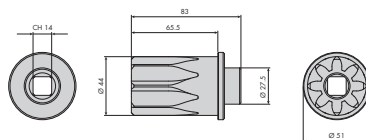
Tool for engine flywheel rotation during the tappets adjustment.



▶ Specific for MAGNUM



▶ □ 1/2"



Wrench for flywheel

514 008 000

Wrench for flywheel- ideal for TRUCK

NEW



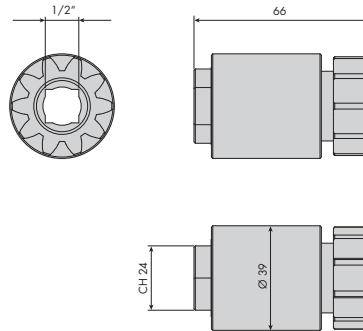
Tool for engine flywheel rotation during the tappets adjustment.



► Specific for RENAULT



► □ 1/2"



Wrench for flywheel

514 005 000

Wrench for flywheel- ideal for TRUCK

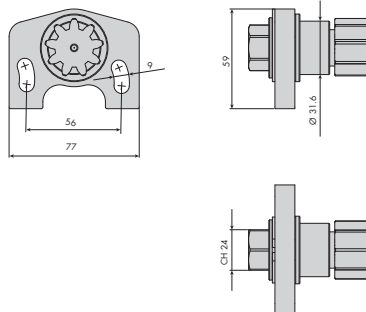
NEW



Gear for engine flywheel rotation during the timing search.



► Specific for VOLVO



Wrench for flywheel

513 001 000

Wrench for flywheel- ideal for TRUCK

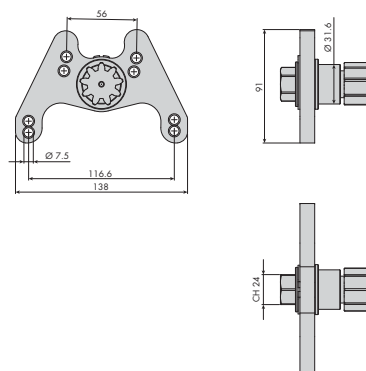
NEW



Gear for engine flywheel rotation during the timing search.



► Specific for VOLVO



Wrench for flywheel

514 007 000



Wrench for flywheel- ideal for COMMERCIAL VEHICLES

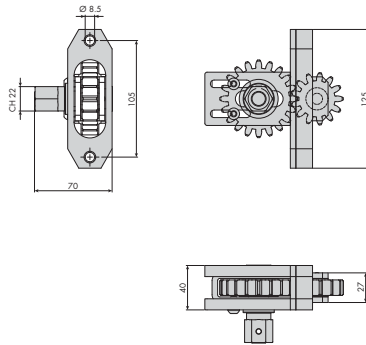
System for dual gear engine flywheel rotation for IVECO timing search.



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



- ▶ 2 gears



Wrench for flywheel

513 004 000



Wrench for flywheel- ideal for COMMERCIAL VEHICLES

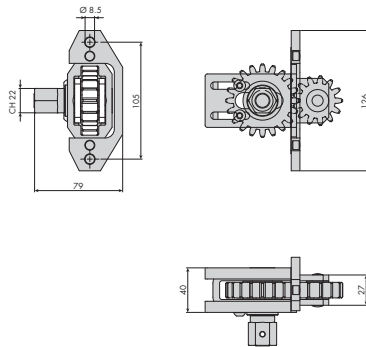
System for dual gear engine flywheel rotation for IVECO timing search.



- ▶ Specific for IVECO
- ▶ Engine models:
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

514 006 000



Wrench for flywheel- ideal for TRUCK

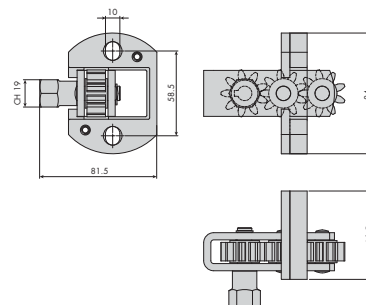
System for triple gear engine flywheel rotation for MERCEDES timing search.



- ▶ 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. APPOSITELY MADE FOR ENGINES WITH 4/5 VALVES FOR CYLINDER.



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



- ▶ 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.



Heavy duty valve spring compressor

315 021 000

Pressure foot Ø 25,5 with 5 adaptors: 24,5 - 25 - 27 - 29 - 32 mm (A)

315 020 002

Pressure foot Ø 34 with 3 adaptors: 34 - 41 - 50 mm (B)

315 020 003

Pressure foot Ø 19,8 mm (C)

315 020 006

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



Set for injectors removal

311 051 000



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 TRUCKS



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



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