



the toolmaker  
**GOVONI**



J U N E 2 0 1 5

THE **TOOL** MAKER

ENGLISH  
**2015**



## TIMING TOOLS



## DIESEL TOOLS



## ENGINE



## SUSPENSIONS



## GENERAL REPAIRS



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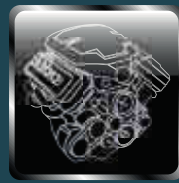
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270 024 000	105	310 153 000	28	310 239 000	68	311 141 000	99
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310 013 001	48	310 174 000	59	311 031 019	125	311 166 010	88
310 015 000	25	310 176 000	44	311 032 000	95	311 167 000	116
310 019 000	48	310 183 000	28	311 043 000	144	311 168 000	112
310 039 000	74	310 184 000	76	311 047 000	108	311 168 004	111
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310 073 000	61	310 191 000	81	311 047 025	107	311 173 001	145
310 074 000	23, 49	310 202 000	84	311 049 000	94	311 173 002	145
310 075 000	26, 69	310 206 000	36, 40	311 050 006	98	311 174 000	147
310 076 000	145	310 207 000	81	311 051 000	199	311 175 000	146
310 078 000	49	310 209 000	30	311 055 015	92	311 176 000	147
310 083 000	61	310 211 000	70	311 056 008	110	311 178 000	122
310 090 000	62	310 212 000	66	311 056 014	96	311 179 000	95
310 091 000	62, 72	310 213 000	52	311 059 000	123	311 179 003	102
310 092 000	62	310 214 000	82	311 062 000	101	311 183 000	93
310 096 000	63	310 215 000	82	311 064 000	98	311 184 000	91
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310 098 000	75	310 216 020	53	311 071 000	96	311 186 000	111
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310 101 000	63	310 218 000	37	311 072 010	101	311 188 000	120
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310 108 000	63	310 220 000	60	311 076 029	106	312 000 000	142
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310 110 002	39	310 222 000	40	311 078 000	109	312 004 000	142
310 113 000	64	310 224 000	83	311 078 015	109	312 039 000	142
310 114 000	42	310 225 000	46	311 079 000	110	312 046 000	143
310 115 000	29, 43, 56	310 226 000	46	311 079 008	110	312 051 000	134
310 116 000	78	310 227 000	37	311 080 000	111	312 052 000	139
310 117 000	77	310 228 000	38, 60	311 082 000	123	312 055 000	140
310 117 002	77	310 229 000	55	311 083 000	92	312 057 000	140
310 119 000	22	310 232 001	20	311 090 000	97	312 059 000	141
310 121 000	35	310 232 002	20	311 091 000	123	312 060 000	141
310 123 000	30, 58	310 232 003	20	311 092 000	122	312 061 000	141
310 124 000	76	310 232 004	20	311 096 000	118	312 063 000	143
310 125 000	27, 44, 59	310 232 005	20	311 098 000	119	312 065 000	143
310 126 000	79	310 232 006	20	311 101 000	118	312 066 000	200
310 126 010	79	310 232 007	21	311 104 000	100	312 068 000	201
310 127 000	23	310 232 008	20	311 105 000	119	312 069 001	134
310 131 000	27	310 232 009	20	311 106 000	119	312 070 001	134
310 132 000	78	310 232 010	21	311 107 000	145	312 071 001	134
310 133 000	80	310 232 011	21	311 107 001	145	312 072 000	134
310 134 001	43, 54, 71	310 232 012	21	311 107 002	145	312 073 000	135
310 138 000	50, 64	310 232 013	21	311 108 000	146	312 074 000	135
310 139 000	51	310 232 014	21	311 108 001	146	312 075 000	135
310 141 000	79	310 232 015	21	311 108 002	146	312 076 000	136
310 142 000	48	310 232 016	21	311 109 000	122	312 077 000	136
310 145 000	33	310 233 000	83	311 110 000	97	312 078 000	136
310 146 000	35	310 234 000	32	311 111 000	120	312 079 000	137



312 080 000	137	315 021 000	128, 199	343 002 000	182	523 019 000	188
312 081 000	138	315 024 000	130	343 003 000	181	523 020 000	188
312 082 000	138	315 024 016	130	344 003 000	183	523 021 000	189
312 083 000	138	315 029 000	31	344 004 000	183	523 022 000	196
312 084 000	142	315 032 000	130	344 005 000	183	523 023 000	194
312 085 000	137	315 033 000	130	360 000 000	184	523 024 000	192
312 086 000	139	316 010 000	67	360 002 000	184	710 018 000	181
312 087 000	139	317 001 000	154	360 003 001	185	710 020 000	17
312 088 000	140	317 006 000	154	360 003 002	185	710 021 000	21
312 089 000	134	318 003 000	32	360 003 003	185	720 029 000	99
313 032 000	84	318 007 000	176	360 003 004	185	720 030 000	99
313 033 000	84	318 008 000	176	360 003 005	185	720 031 000	99
313 034 000	144	318 008 002	178	360 003 006	185	720 032 000	100
313 041 000	32	318 010 000	177	360 003 007	185	720 033 000	100
313 143 000	47	318 014 000	178	360 003 008	185	734 001 000	125
313 155 000	38	318 015 000	177	360 003 009	185	734 002 000	125
313 165 000	25	320 003 000	169	360 003 010	185	734 003 000	125
313 176 000	149	320 008 000	169	360 003 011	185	734 004 000	125
313 182 000	149	320 010 000	166	360 003 012	185	734 005 000	125
313 186 021	151	320 011 000	171	360 003 013	185	734 006 000	125
313 186 024	150	320 014 000	163	360 003 014	185	772 001 000	154
313 188 004	66	320 015 000	171	360 003 015	185	772 003 000	124
313 191 000	148	321 005 000	164	360 005 001	185	772 004 000	124
313 194 000	53	321 028 000	165	360 005 002	185	772 005 000	124
313 198 000	148	321 030 000	164	360 005 003	185	772 010 000	124
313 202 000	39	321 035 000	164	360 006 000	185	772 011 000	124
313 208 000	66	321 036 000	165	360 007 000	185	772 012 000	124
313 209 000	150	321 037 099	161	360 008 000	185	772 014 000	154
313 216 000	39	321 046 000	165	383 001 000	32	772 015 000	154
313 219 000	148	321 051 000	162	383 006 000	166	951 001 000	16
313 223 000	30	321 053 000	163	384 004 000	153		
313 224 000	31	321 055 000	159	385 001 000	179		
313 225 000	84	321 056 000	160	385 004 000	179		
313 226 000	47	321 061 000	158	390 003 000	152		
313 227 000	31	321 077 002	159, 160, 161	414 000 000	153		
313 228 000	31	321 078 002	163	414 001 000	153		
313 229 000	85	321 079 002	159, 160, 161	490 000 000	153		
313 230 000	85	321 083 000	166	513 001 000	197		
313 231 000	85	321 087 000	163	513 002 000	198		
313 232 000	151	321 088 000	159, 160, 162, 164	513 003 000	196		
313 233 000	150	321 094 000	161	513 004 000	198		
313 234 000	150	321 097 000	163	514 005 000	197		
313 235 000	151	322 003 000	170	514 006 000	198		
313 236 000	151	322 004 000	170	514 007 000	197		
313 237 000	46	322 012 000	171	514 008 000	196		
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314 005 000	152	323 026 000	168	523 004 000	193		
314 006 000	152	323 028 000	168	523 005 000	191		
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314 010 000	180	323 029 023	167	523 007 000	190		
314 012 000	133	323 030 000	170	523 008 000	195		
314 012 015	133	323 031 000	172	523 009 000	191		
314 023 000	132	323 032 000	112	523 010 000	192		
315 007 000	131	330 003 000	178	523 011 000	193		
315 019 000	129	332 007 000	179	523 012 000	189		
315 020 000	128	340 001 000	180	523 013 000	194		
315 020 002	128	340 004 000	180	523 014 000	194		
315 020 003	128, 129, 199	340 006 000	181	523 015 000	195		
315 020 007	130	342 001 000	181	523 016 000	190		
315 020 031	129	343 000 000	182	523 017 000	189		
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478  
products

# THE **TOOL** MAKER



## IN&OUT items

IN ITEMS	
<b>270 026 000</b>	Mechadraulic screw - 16 Tons, 20 mm stroke.
<b>310 224 000</b>	Timing tool set suitable for VW Group 1.0 petrol engines.
<b>310 233 000</b>	Kit for the timing of the balance shafts of VW 1.2-1.6-2.0 TDI CR engines.
<b>310 236 000</b>	Timing tool set suitable for volvo 1.6 - 2.0, FORD, PSA Group, LAND ROVER and MAZDA diesel engines.
<b>310 237 000</b>	Timing tool set suitable for VOLVO, FORD 1.6 - 1.8 - 2.0 16V petrol engines.
<b>310 238 000</b>	Crankshaft pulley holding tool suitable for VOLVO and FORD.
<b>310 239 000</b>	Timing tool set suitable for SAAB 1.8i and OPEL 1.4 - 1.6 - 1.8 - 2.0 - 2.2 petrol engines.
<b>310 240 000</b>	Timing tool set suitable for SAAB 1.6T and OPEL 1.6 petrol engines.
<b>310 241 000</b>	Timing tool set suitable for SAAB 1.9 - 2.0 - 2.2 TID and OPEL 1.9 - 2.0 CDTI diesel engines.
<b>310 246 000</b>	Timing tool set suitable for VW Group 1.6 - 2.0 Tdi CR (from 2012).
<b>312 069 001</b>	Oil filter wrench N.23.
<b>312 070 001</b>	Oil filter wrench N.24.
<b>312 071 001</b>	Oil filter wrench N.25.
<b>312 089 000</b>	Set of wrenches for dismantling oil filters KIA/HYUNDAI.
<b>322 012 000</b>	Silentblock tool.
<b>323 032 000</b>	Slide hammer with powerfull 9 Kg stroke-force.
<b>772 014 000</b>	Spare part kit M7.
<b>772 015 000</b>	Spare part kit M8.



OUT ITEMS	
<b>310 001 000</b>	Set of wrenches for dismantling oil filters (8 pc).
<b>772 001 002</b>	Spare part kit including n.10 threaded inserts.


























## NEW&OLD references

NEW REFERENCE	DESCRIPTION	OLD REFERENCE
<b>310 234 000</b>	Flywheel locking tool.	<b>310 153 001</b>
<b>311 193 000</b>	Wrenches for alternators.	<b>311 005 000</b>
<b>312 072 000</b>	Oil filter wrench N.1.	<b>310 001 001</b>
<b>312 073 000</b>	Oil filter wrench N.2.	<b>310 001 002</b>
<b>312 074 000</b>	Oil filter wrench N.3.	<b>310 001 003</b>
<b>312 075 000</b>	Oil filter wrench N.4.	<b>310 001 004</b>
<b>312 076 000</b>	Oil filter wrench N.5.	<b>310 001 005</b>
<b>312 077 000</b>	Oil filter wrench N.6.	<b>310 001 006</b>
<b>312 078 000</b>	Oil filter wrench N.7.	<b>310 001 007</b>
<b>312 079 000</b>	Oil filter wrench N.8.	<b>310 001 008</b>
<b>312 080 000</b>	Oil filter wrench N.10.	<b>310 001 010</b>
<b>312 081 000</b>	Oil filter wrench N.11.	<b>310 001 011</b>
<b>312 082 000</b>	Oil filter wrench N.12.	<b>310 001 012</b>
<b>312 083 000</b>	Oil filter wrench N.13.	<b>310 001 013</b>
<b>312 084 000</b>	Wrench with „T“ shape.	<b>312 005 000</b>

NEW REFERENCE	DESCRIPTION	OLD REFERENCE
<b>312 085 000</b>	Oil filter wrench N.9.	<b>312 021 000</b>
<b>312 086 000</b>	Oil filter wrench N.14.	<b>312 047 000</b>
<b>312 087 000</b>	Oil filter wrench N.15.	<b>312 050 000</b>
<b>312 088 000</b>	Oil filter wrench N.17.	<b>312 054 000</b>
<b>313 223 000</b>	Tools for dismantling.	<b>313 023 000</b>
<b>313 224 000</b>	Belt tensioner.	<b>313 029 000</b>
<b>313 225 000</b>	Belt tensioner.	<b>313 030 000</b>
<b>313 226 000</b>	Locking tool.	<b>313 031 000</b>
<b>313 227 000</b>	Flywheel locking tool.	<b>313 035 000</b>
<b>313 228 000</b>	Belt tensioner.	<b>313 036 000</b>
<b>313 229 000</b>	Belt tensioner.	<b>313 038 000</b>
<b>313 230 000</b>	Belt tensioner.	<b>313 039 000</b>
<b>313 231 000</b>	Belt tensioner.	<b>313 126 000</b>
<b>313 232 000</b>	Polygonal wrench 11 mm.	<b>313 182 014</b>
<b>313 233 000</b>	Polygonal wrench 18 mm.	<b>313 186 019</b>
<b>313 234 000</b>	Polygonal wrench 14 mm.	<b>313 186 020</b>
<b>313 235 000</b>	Polygonal wrench 15 mm.	<b>313 186 022</b>
<b>313 236 000</b>	Polygonal wrench 10 mm.	<b>313 186 023</b>
<b>313 237 000</b>	Locking tool.	<b>313 190 000</b>
<b>315 020 034</b>	Pressure foot Ø 19,8 mm.	<b>315 020 006</b>
<b>315 032 000</b>	Pressure foot Ø 40 mm.	<b>315 024 014</b>
<b>315 033 000</b>	Pressure foot Ø 32 mm.	<b>315 024 015</b>
<b>316 010 000</b>	Belt extractor.	<b>316 007 000</b>
<b>317 006 000</b>	Socket.	<b>317 002 000</b>
<b>321 088 000</b>	Strut vice.	<b>321 001 000</b>
<b>321 077 002</b>	Bracket Ø 78 - Ø 130.	<b>321 084 000</b>
<b>321 079 002</b>	Bracket Ø 125 - Ø 205 mm.	<b>321 086 000</b>
<b>321 078 002</b>	Bracket - Rightwards.	<b>321 085 000</b>
<b>321 087 000</b>	Bracket - Leftwards.	<b>321 049 000</b>
<b>323 031 000</b>	Special small size clip.	<b>323 016 014</b>
<b>384 004 000</b>	Locking wrench.	<b>384 000 000</b>
<b>710 021 000</b>	Roller cabinet (6 drawers)	<b>323 032 000</b>
<b>720 029 000</b>	Socket for removing injector electrical connector.	<b>720 019 000</b>
<b>720 030 000</b>	Socket for removing injector electrical connector.	<b>720 020 000</b>
<b>720 031 000</b>	Socket for removing injector electrical connector.	<b>720 021 000</b>
<b>720 032 000</b>	Socket for removing injector electrical connector.	<b>720 022 000</b>
<b>720 033 000</b>	Socket for removing injector electrical connector.	<b>720 023 000</b>



## SYMBOLS

	Petrol		Engine		Hubs and Bearings
	Diesel		Oil sumps and Filters		Motorbike
	CNG		Glow Plugs		Pulley
	Belt		Clutch		Bus
	Chain		Timing tools		Car
	Tyres		Suspension		Caterpillar
	Repairs tools		Brakes		Commercial Vehicle
	Injectors		Steering		Trailers
	Valves		Body tools		Truck

## PRODUCT - MARKET POSITION

**KIT**  
**X-VALUE**

**THIS IDENTIFIES A PRODUCT WITH AN OPTIMAL QUALITY-PRICE RATIO**  
with the target to be Cost-Saving for the final user.

Practical use, easy and intuitive application, the ideal product for the operators in this field, which for the first time or occasionally have to carry out a professional intervention, without high costs.

**KIT**  
**ADVANCED**

**THIS IDENTIFIES A HIGHER QUALITY PRODUCT,**  
its features satisfy the necessity to have a professional kit, which guarantees to carry out each operation and the need to have a low price which differentiates it from the top of the range.

This denomination identifies also the equipment which can be updated with some components sellable separately (ex. 323029020) to become MASTER KIT.

**Master** **KIT**

**THIS IDENTIFIES VERY PROFESSIONAL EQUIPMENT,**  
the most complete answer for the experts of this sector.

The products belonging to this category represent the top research and the most specialized approach to every type of activity which, in most cases, coincides with a universal application in the main cases in the automotive market.

**Guarantee and products insurance:** All GOVONI products are covered by a liability insurance against accident to people or things extended by a major European company, for 2.000.000 €. 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.

# GOVONI - THE TOOLMAKER

## Company Profile

Made in Italy 



**GOVONI was founded in 1977  
in his first production  
plant in Modena:**

 **1977**



 **1985**



 **2005**



**2006**



 **2013**  
**2015**

### COMPANY PROFILE

When you trace it all the way back, it comes down to one individual: *Fausto Govoni*

One passionate man who built a unique Special Tool company that he was so proud of, he put his name on it.

Nowadays **GOVONI**, after 37 years, is a leading manufacturer and designer of specialist automotive tools.

**GOVONI** was founded in Modena

a new production plant is built, still in Modena only few kilometers away, wider and more modern, where all production processes, warehouses and sales offices were moved

thanks to continuous production growing and developing of sales distribution channels to overseas, **GOVONI** moved all production processes in a new Production Plant more than 2000 square meter in Crevalcore, Bologna area. Machinery CNC parc was doubled

new sales offices together with R&D offices are build up in Crevalcore plant

is opened an additional Distribution Center for huge stocking and fast delivering of final products





# R&D and INNOVATION



Research and developments, quality, precision and finishing care, brave hood, style, coherence, innovation behaviour.

The mission is ideas creating, make it growing and deeply care till final product release, finally for improviimplore the result.

**GOVONI** commits itself on daily basis, sharing all information with internal staff and final customers, so end users as well, in sourcing the best raw material available, creating and developing its own products.

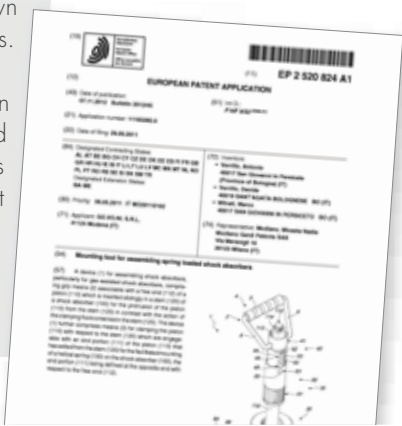
Very strict validation quality control at the end of production process guarantee a constant quality level.

## R&D and INNOVATION

With many Patents and Utility Models at home and abroad, **GOVONI** is one of the world's leading manufacturers of specialist automotive tools. When it comes to facilitating and optimizing professional vehicle repair, **GOVONI's** specialist tools are the tools of choice, worldwide.

It is our primary objective to make repairs safer, easier, faster, and thus, more economical.

To achieve this goal, we continuously design and develop innovative professional tools for all types of vehicles in our fully equipped experimental workshop.



# PRODUCTION

How **GOVONI** products are made



## DETAILS MAKE THE DIFFERENCE

**Innovation**, quality of materials, choice of the right surface and heat treatments

**Care of the design**, attention to easy use, strength and product life cycle

**Search for a packaging up to the expectations**, to give value to the product, resistant and compliant with the environmental standards

### 1. CONCEPT ORIGIN

- **GOVONI** new ideas and projects starts the planning and innovation process from the analysis of automotive market problems, needs and requirement;
- Ideas selection, only the best, i.e. the most innovative ideas are pursued;
- Definition of targets, constraints, methodologies and operative tools.

### 2. FEASIBILITY STUDY

- Starting from the idea and basic constraints, **GOVONI** defines the general performance of the new product and the technical solutions, which are considered appropriate to achieve the target;
- Creation of the preliminary project with a deep analysis of the operation of the new machine or equipment and its performance.

### 3. FROM THE IDEA TO THE PROTOTYPE

- Detailed project that develops the complete systematic analysis of individual **GOVONI** products components;
- Definition of shapes, dimensions, materials and processes aimed to realize the product;
- Definition of the material suppliers, subsets or services essential for the production;
- Scheduling of the production activity and identification of the resources on the field:
  - detailed calculation reports
  - reports and test certificates
  - working drawings for each individual components and for each production phase
  - processing lists
  - Instructions for assembly and testing







#### 4. PROTOTYPING

**GOVONI** is fully equipped to carry out in the company the creation of the prototypes:

- Construction of the prototypes
- Prototype testing, validation and compliance of the product
- Control of target achievement and performance
- Control of the constraints enforced by legal requirements, safety and environment during the use and during the entire product life cycle.



#### 5. INDUSTRIALIZATION

**GOVONI** realises in the company the whole production cycle, from the raw material to the end product for the final delivery to the customer.

The production processes are controlled and defined:

- Definition of the production specifications.
- Definition of the on-line control plans
- Definition of the test specifications and final release of the product



## WEB SITE

Product finder now online



### TIMING TOOL FINDER

GOVONI Timing Tool Finder is a Web service Tool made for a fast and precise Timing Tool search, OE tool search, Engine code, Model, etc...

follow us on  
**YouTube**



**TWO KIND OF QUERY ARE PROVIDED:**

#### » Brand/Car model/Engine Code query:

Is evolving by further choices using drop-down menus (see pic. 1), following the below sequence:

- Brand list
- Model list
- Version/MY list
- Engine code list

**End Result: Product List**

#### » Engine code/OEM Tool code query:

Free fields with auto-complete system (see pic. 1) which will activate after the first character digits:

- Engine Code
- OEM Tool code

**Query result**

#### 1. Pictures gallery:

Is possible to display several pictures in gallery format by thumbnail list, then enlarging by clicking with slideshow surfing button control

#### 2. PDF documents (p.e. instruction manual, etc)

#### 3. Part code list (Part number included inside each kit):

- GOVONI part number
- Multiple OEM codes
- Part Description
- Part Pictures





# CERTIFICATION

## Quality policy

### GOVONI QUALITY POLICY IS BASED ON:

An effective and efficient quality management system, which meets the requirements of UNI EN ISO 9001.

Prevention of defects and continuous improvement of quality to obtain the Quality each time "the First Time".

Significant knowledge, experience and awareness of the product in the company.

Full knowledge and involvement of all staff according to the targets of improvement and development established by the Management of **GOVONI** srl.

Ensure that all employees operate in a secure way, in full compliance with applicable laws and company standards, assessing the risks and preventing accidents.

Promote the cultural growth of the personnel for an individual contribution to the continuous improvement in terms of quality and safety.

Consider our Suppliers as partners, rather than simple providers of work and materials, to share with them (instead of imposing) our needs and expectations, or better the expectations of our Customers, as these are the targets in our enlarged team.



### GOVONI QUALITY POLICY

**GOVONI** srl, for over twenty years and even more today, has been increasingly engaged on international markets, constantly in competition with the most qualified and structured European companies in the Automotive sector.

Consequently, **the qualitative aspects are fundamental for the success**. For this purpose **GOVONI** srl POLITICS is based on the following points:

- Supply products and services, which meet all national and international standards, technical specifications and customer's requirements in terms of performance, quality, reliability and safety.
- Constant and continuous planning and design of innovative products, useful for the market, therefore defined as successful by the end-users, who will use these products, giving to our business partners effective tools to build with us a solid and well-established future.
- Maintain and improve the company image towards all customers and Stakeholders minimising, at the same time, quality costs.
- Manage its activities in full compliance with the laws in force, operating in such a way to promote health and safety of employees and persons directly and/or indirectly involved in the task.



# MARKETING COMMUNICATION

Newsletter, Leaflet, Advertising

Presentation of the natural gas range



Presentation of the top range product



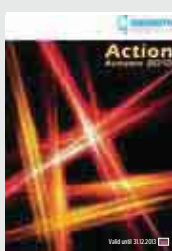
Valve lifter, the origin of Govoni



Catalogues



Promotions and offers for the end user



Focus, in-depth analysis on trade magazines



Advertising





## TECHNICAL SUPPORT AND COMPETITIVENESS ON GLOBAL MARKETS



Autopromotec Bologna - Italy 2013

**GOVONI** pursues a culture of competitive orientation to the market, for a continuous development on the global markets.

This competitiveness culture integrates with the dynamics of **GOVONI** company communications and marketing activities, which aim at developing new consumers, customers and markets.



For these reasons, in fact **GOVONI** has been always present and has participated in the most important shows and world fair events, directly or through the official network of distributors.

### TECHNICAL SUPPORT AND COMPETITIVENESS ON GLOBAL MARKETS

**GOVONI** provides the Technical Support to the Customers and offers dedicated telephone lines to give constant and professional support in all conditions.

This service represents the value added to the company project, a reliable and dynamic organization that involves human resources ready to offer the pre- and post-sales technical support with passion and competence, both for the correct identification and purchase of the product necessary to the customer, and for the training to a complaint and effective use.

Training with competence and know how contributes to improve the work of men and companies.

**GOVONI**, contextually with products, provides all the technical information and instruction manuals translated into the main languages in the world, with photos of the use, specifications and demonstrative videos.

**GOVONI** carries out also the demonstrative videos, which are available for the customers on YouTube channel and on **GOVONI** website. These videos are a fundamental training tool for the correct use and maintenance of **GOVONI** machines and Tools.



# EXPOSITIVE display

The visibility of a product is a very important resource.

Govoni offers its resellers a show room display where you can expose a very high number of products with the maximal visibility.

Designed to draw the customer's attention and communicate the main features of the products belonging to the product range. The displays are equipped with adjustable shelves with raised frontal part to comfortably support our kits.

Elegance and quality of the display are guaranteed by the backlit top and by the reinforced structure.



Backlit top



Set of applicable hooks on the bottom of the structure



Riser H. 2 cm with raised edge to support briefcases



Pocket in plastic with label insertion



Adjustable shelves (planned or inclined)

Painted structure RAL 9006-9010

Frontal panel, white painted

Adjustable feet for the right levelling

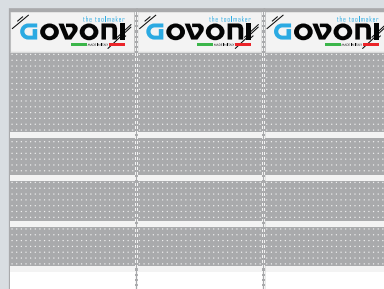
## Expositive display GOVONI (for fairs and show room)



- ▶ Height: 2.235 mm
- ▶ Width: 983 mm
- ▶ Depth: 555 mm
- ▶ Weight: 55 Kg
- ▶ Supporting space for shelf: WxD 450x398 mm

**Expositive display**

**951 001 000**



The solid and resistant structure has an easy assembly; in wide spaces it is possible to assemble it on more displays in a unique body (shared columns).



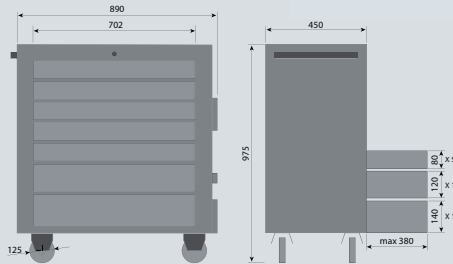
# ROLLER CABINET 7 drawers



This is the "admiral" trolley of our fleet: big dimensions, comfortable and practical and built to stand the use in workshop.

Maximal supporting surface: it can be used as working plan.

No compromise of space and versatility: 7 practical drawers (available different spaces and volumes and suitable for various needs), with safety locks and guides with bearings, which allow a perfect smoothness. Moreover it is equipped with two lateral pockets in order to quickly lean tools during the use. Self-locking wheels. Safety locks with key.



## Roller cabinet (7 drawers)

7 drawers roller cabinet.

- ▶ Sturdy and dependable construction, premium quality sheet steel
- ▶ Elegant and durable electrostatic mat powder coated, scratch proof
- ▶ 7 fully drawers - compatible with SBS inlays
- ▶ Roller cabinet dimensions: 975x890x450 mm
- ▶ Weight: 72,5 kg
- ▶ 5 Drawers 702x380x80 mm
- ▶ 1 Drawer 702x380x120 mm
- ▶ 1 Drawer 702x380x140 mm
- ▶ Smart-Lock™ system on every drawer preventing accidental opening while cabinet is on the move
- ▶ Low friction telescopic ball bearing slides ensuring silk smooth operation
- ▶ Central locking mechanism
- ▶ Side holders



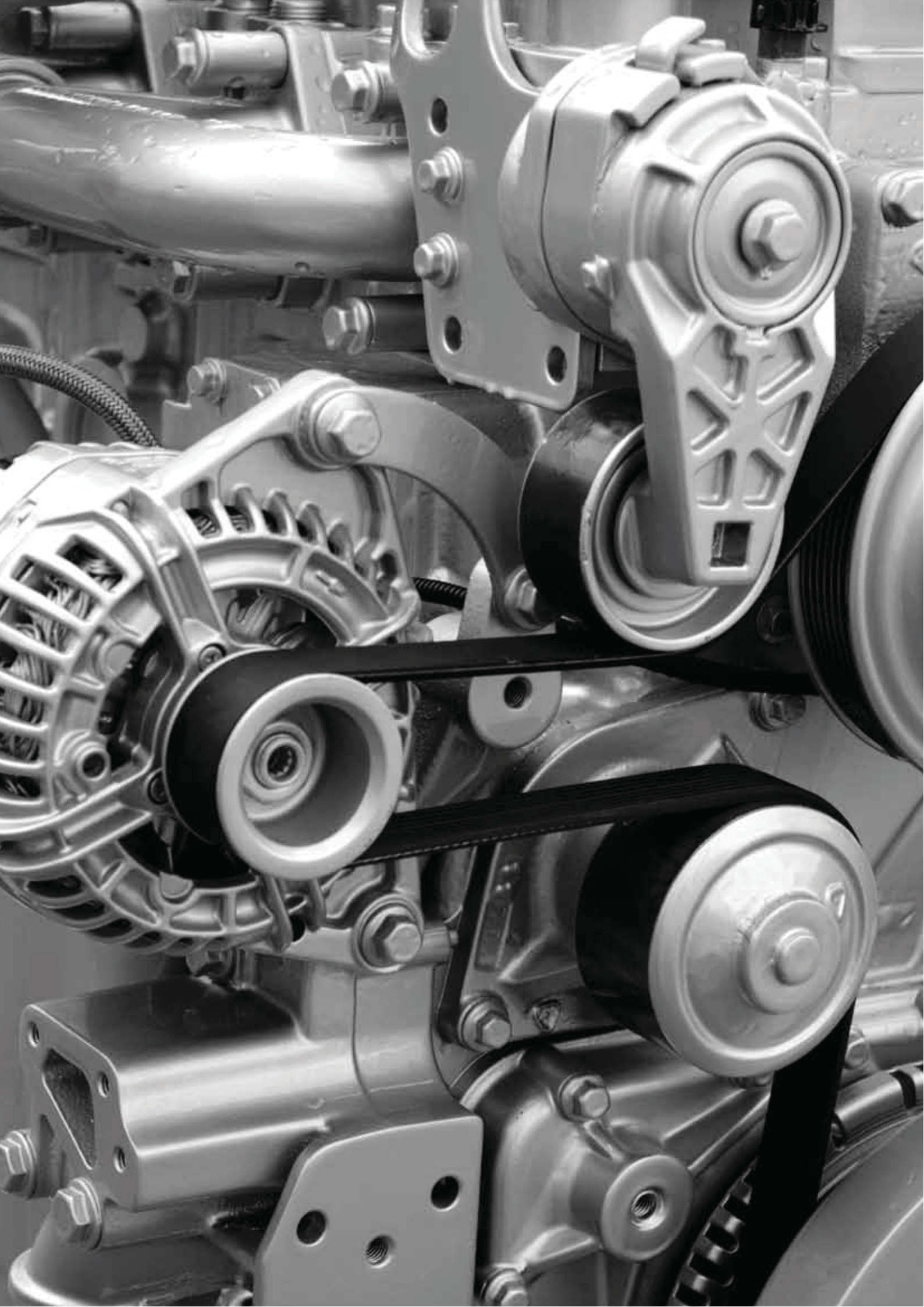
**Roller cabinet (7 drawers)**

**710 020 000**

Worktop with a high fubber-coated plane to ensure a convenient working area



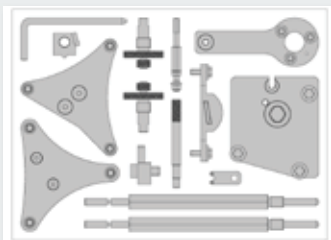




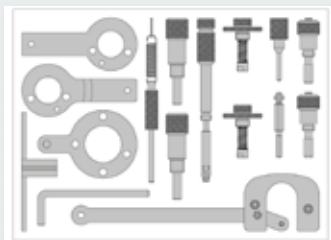


# TIMING TOOLS

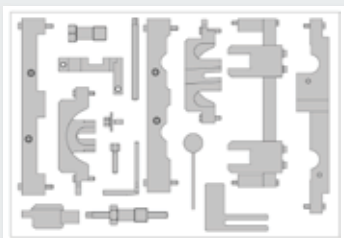
# TIMING TOOLS



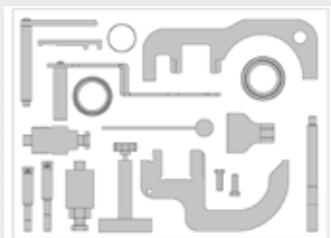
**FCA GROUP - petrol** 310 232 004



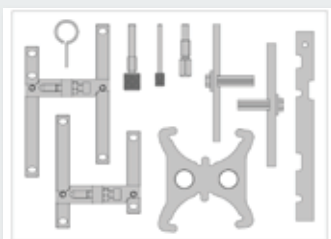
**FCA GROUP - diesel** 310 232 003



**BMW - petrol** 310 232 002



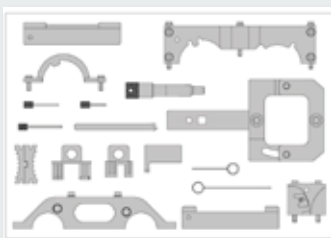
**BMW - diesel** 310 232 001



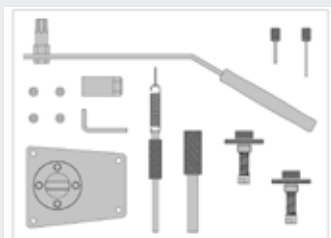
**FORD - petrol** 310 232 006



**FORD - diesel** 310 232 005



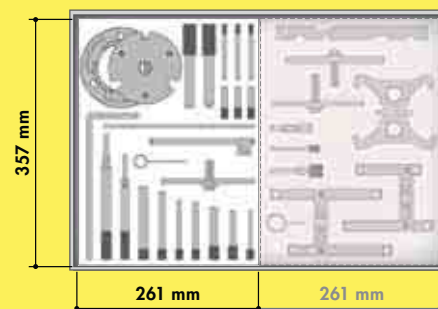
**OPEL - petrol** 310 232 009



**OPEL - diesel** 310 232 008



1/2 DRAWER CONFIGURATION **A**



GOVONI has developed a series of modules made with sponge adaptable to our professional trolley for car-repair garages (art. 310 032 000). It is the ideal solution for those who wish to buy, only in one purchase, a universal kit with special and professional equipment for the timing of the most popular motors in Europe, but also ideal for new Repair shops, Car dealers, Service centres, etc. Two different modular solutions are available. They were specifically designed in order to be easily combined and to satisfy the customer's needs, as well as the markets where they will be sold.

CONFIGURATION **A** permits to place side by side two modules within the same compartment, e.g.:

- 1 drawer consisting of 1/2 FIAT petrol module and 1/2 FIAT diesel module

or

- 1 drawer consisting of 1/2 FIAT diesel module and 1/2 BMW diesel module

while SOLUTION **B** offers an entire proposal of equipment to put comfortably inside the drawer.

Example:

- 1 drawer with master kit PSA diesel and petrol

Following a thorough analysis of the market and considering the interventions that the operator must carry out every day, Govoni has carefully selected the timing products for the most widespread and popular motors in Europe.

GOVONI proposal includes kits to be used with the latest versions of the motors belonging to the new FCA Group (FIAT-Chrysler) or the wide range of equipment for VW Group VW (Audi, VW, Skoda, Seat), and the kit for the timing of all

diesel and petrol Toyota motors, giving the customer the greatest flexibility for the selection of the kits to put in the trolley.

**GOVONI modules are made with low-density polyethylene (LDPE, PELD)**, black colour and machined with cutter; this guarantees accuracy in shaping, therefore a particularly efficient housing for the tool to be introduced, protecting at best the equipment against wear compared with thermoformed in plastic material.

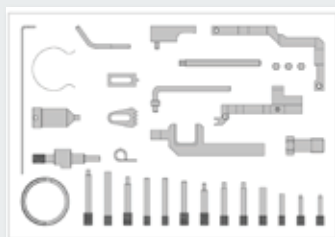
GOVONI tool trolley has been designed for high resistance to impacts, scratches and wear. With compact dimensions to better manage interventions and displacements in the various points of the workshop, also to be used in small workshops. Govoni tool trolley is ideal to keep order in the workshop and to put the equipment back immediately after use, instead of having dozens of small and big suitcases, risking to lose the components.

5 drawers with internal depth 70 mm. They may contain the numerous proposals offered by GOVONI with regard to timing equipment.

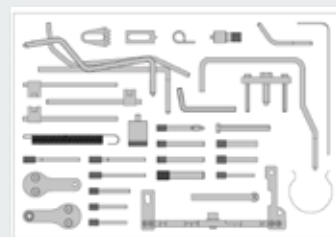
The last drawer is very capacious and comfortable with a depth of 170 mm.

On demand, GOVONI produces customised tool trolleys. Therefore, GOVONI realises trolleys with special dimensions, and compositions of ad hoc equipment on customer's demand.

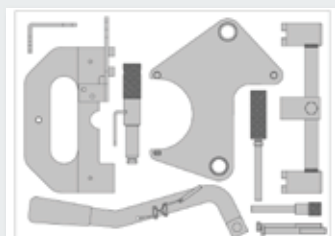
# ROLLER CABINET 6 drawers



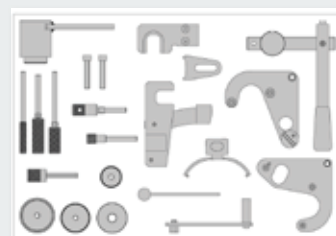
**PSA GROUP - petrol** 310 232 011



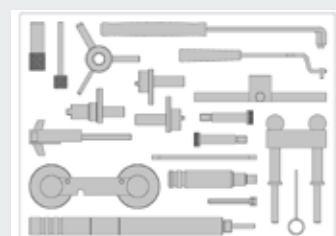
**PSA GROUP - diesel** 310 232 010



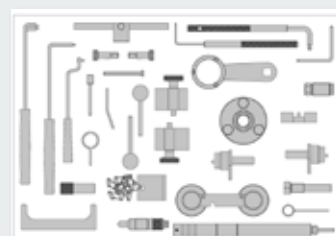
**RENAULT - petrol** 310 232 013



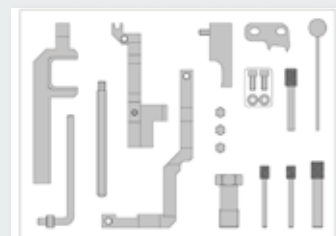
**RENAULT - diesel** 310 232 012



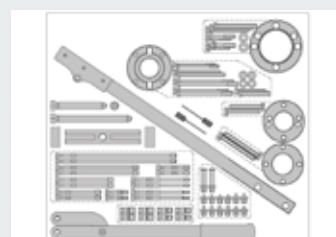
**VW GROUP - petrol** 310 232 016



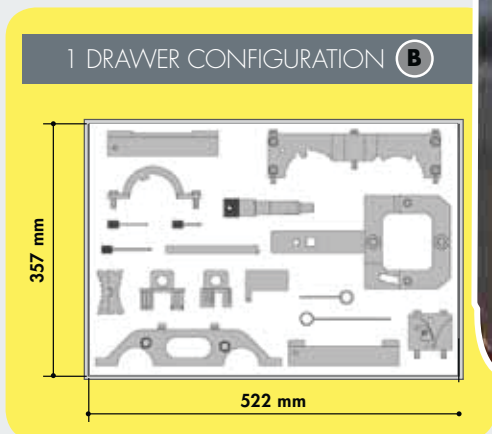
**VW GROUP - diesel** 310 232 015



**MINI - petrol & diesel** 310 232 007



**TOYOTA - petrol & diesel** 310 232 014

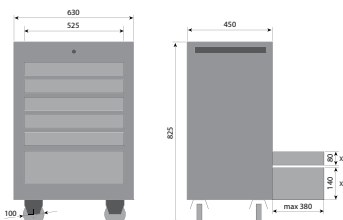


## Roller cabinet (6 drawers)

6 drawers roller cabinet.



- ▶ Sturdy and dependable construction, premium quality sheet steel. Elegant and durable electrostatic mat powder coated, scratch proof
- ▶ 6 fully drawers - compatible with SBS inlays
- ▶ Each drawer can accommodate tool modules
- ▶ Low friction telescopic ball bearing slides ensuring silk smooth operation
- ▶ Central locking mechanism
- ▶ Recessed worktop with a high quality mat to ensure a convenient working area
- ▶ Drawer dimensions:  
5 Drawers 525x380x80 mm / 1 Drawer 525x380x140 mm
- ▶ Weight: 48,8 kg



**Roller cabinet (6 drawers)**

**710 021 000**

# TIMING TOOLS

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group 1.4 => 3.0 petrol engines (25 pieces).

▶ 1.4 => 3.0

Alfa 3.0 V6 24v	20 A: 1 <sup>st</sup> aspiration cylinder	20 S: 1 <sup>st</sup> exhaust cylinder	Fiat Barchetta/Coupé 1800 16V with phase variator	80 A: 2 <sup>nd</sup> aspiration cylinder	80 S: 3 <sup>rd</sup> exhaust cylinder
	21 A: 6 <sup>th</sup> aspiration cylinder	21 S: 4 <sup>th</sup> exhaust cylinder		100 A: 2 <sup>nd</sup> aspiration cylinder	100 S: 3 <sup>rd</sup> exhaust cylinder
Alfa 145-146 1.4/1.6 16V (Step A only engine) Alfa 147 1600 16V 120 Hp	90 A: 2 <sup>nd</sup> aspiration cylinder	90 S: 3 <sup>rd</sup> exhaust cylinder	Alfa 156 1.6 16V, 145-146 1.4/1.6, Alfa 155 1.6 16V with and without phase variator	100 A: 2 <sup>nd</sup> aspiration cylinder	100 S: 3 <sup>rd</sup> exhaust cylinder
Lancia K 5 cyl. 2.0 20V. VIS engine from '96	10 A: 3 <sup>rd</sup> aspiration cylinder	10 S: 2 <sup>nd</sup> exhaust cylinder	Alfa 156 1800-2000 16V Spider and Gtv TS 2000 - 155 1800 TS	105 A: 2 <sup>nd</sup> aspiration cylinder	105 S: 3 <sup>rd</sup> exhaust cylinder
Fiat Bravo/Brava, Lancia Y10 1.4 12V	00 A: 2 <sup>nd</sup> aspiration cylinder		Fiat 2.0 Turbo-Lancia 2.0 Turbo	120 A: 3 <sup>rd</sup> aspiration cylinder	120 S: 2 <sup>nd</sup> exhaust cylinder
Lancia K 5 cyl. before '96	40 A: 3 <sup>rd</sup> aspiration cylinder	40 S: 2 <sup>nd</sup> exhaust cylinder	Fiat Coupé-Lancia-Alfa 1800 16V 130 Hp - Alfa 155	60 A: 2 <sup>nd</sup> aspiration cylinder	60 S: 3 <sup>rd</sup> exhaust cylinder
Fiat Bravo/Brava/Marea Lancia 1800 16V 115 Hp Delta/Dedra 1800 16V 1860 847/C/2	50 A: 2 <sup>nd</sup> aspiration cylinder	50 S: 3 <sup>rd</sup> exhaust cylinder	Fiat Bravo/Brava/Marea 2.0 20V - 2.0 20V TURBO	70 A: 3 <sup>rd</sup> aspiration cylinder	70 S: 2 <sup>nd</sup> exhaust cylinder



### Kit/Tools suitable for timing

310 008 000

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group 1.4 - 1.6 - 2.0 petrol engines

▶ 100A-100S (2<sup>nd</sup> and 3<sup>rd</sup> cylinder):  
Alfa 147/156 1600 16V  
Alfa 145/146 1400 and 1600  
Alfa 155 1600 16V - with and without phase variator

▶ 105A-105S (2<sup>nd</sup> and 3<sup>rd</sup> cylinder):  
Alfa 156 2000 16V  
Spider and Gtv TS 2000  
155 TS 1800

**i** Engine codes  
▶ 162.01, 321.02, 321.03, 321.04, 322.01, 323.01, 323.10, 335.03 341.03, 671.06, 672.04 and 676.01



### Kit/Tools suitable for timing

310 119 000

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group 1.6 Eco 105 Hp petrol engines.

▶ 130A-130S (2<sup>nd</sup> and 3<sup>rd</sup> cylinder):  
Alfa 147 1.6 ECO 105 Hp

**i** Engine codes  
▶ 372.03





### Kit/Tools suitable for timing

310 010 000



## Kit/Tools suitable for timing

Timing tool set suitable for FCA Group 2.0 JTS 165 Hp.

-  ▶ 150A-150S (2<sup>nd</sup> and 3<sup>rd</sup>) 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 tool set suitable for FCA Group, OPEL 1.6 - 1.9 - 2.0 - 2.4 JTD Multijet engines.

-  ▶ Alfa: 145, 146, 147, 156, 159, 166, Giulietta, MiTo
- ▶ Fiat: Punto, Punto evo, Grande Punto, Brava/Bravo Marea, Linea, Idea, Weekend, Stilo, Doblo/Cargo/WorkUp, Multipla, Delta Musa, 500L
- ▶ Lancia: Lybra, Thesys
- ▶ Engine: 1.6D 115/120/90/105, 1.6D JTD 16V, 1.9D/1.9D 16V/Multijet 150, 1.9D JTD/100/110/115/80, 1.9D JTD 16V, 1.9D Multijet 100/120/130/105/140/150/90, 1.9D TD 100/75, 2.0 D Multijet 135/165, 2.0 D JTD 16V, 2.4D JTD/JTD 20V/125/130
- ▶ Engine codes: 182A7.000, 182A8.000, 182B4.000, 182B9.000, 185A2.000, 186A6.000, 186A8.000, 186A9.000, **See all engine application on the instruction manual**
-  ▶ Opel: Vectra, Zafira, Astra, Insigna, Signum
- ▶ Engine: 1.9 CDTi
- ▶ Engine codes: Z19DT, Z19DTH, Z19DTJ, Z19DTL
-  ▶ Saab: 9-3
- ▶ Engine: 1.9 TTiD
- ▶ Engine codes: A19DTR



**Kit/Tools suitable for timing**

**310 074 000**

### COMPLETE WITH:

310 234 000



















# TIMING TOOLS



## Kit/Tools suitable for timing

Timing tool set suitable for FCA Group 1.3 - 1.6 - 1.9 - 2.0 JTD Multijet and SUZUKI 1.3 CDTi engines.

-  ▶ Alfa: 145, 146, 147, 156, 159, 166, Giulietta, MiTo
-  ▶ Fiat: Punto, Grande Punto, Punto Evo, Qubo, Bravo/Brava, Marea, Weekend, Stilo, Doblò/Cargo/Work up, Multipla, Strada pick up, Fiorino, Idea, Panda, Panda Classic, 500, 500C, 500L
-  ▶ Lancia: Ypsilon, Musa, Lybra, Thesys
  
-  ▶ Engine: 1.3 JTD Multijet/70, 1.3D Multijet 75/95, 1.3D Multijet 70/85/90/95, 1.6D Multijet 115/120/90/105, 1.6D JTD 16V, 1.9D/16V/Multijet 150, 1.9D JTD/100/110/115/80/16V, 1.9D Multijet 100/120/130, 1.9D Multijet 105/140/150/90, 1.9D TD 100/75, 2.0 D Multijet 135/165, 2.0 D JTD 16V
-  ▶ Engine codes: 182A7.000, 182A8.000, 182B4.000, 182B9.000, 185A2.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, **See all engine application on the instruction manual**
  
-  ▶ Opel: Corsa, Agila, Meriva, Combo Tour, Astra, Zafira, Vectra
-  ▶ Engine: 1.9 CDTi, 1.3 CDTi
-  ▶ Engine codes: Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z13DT, Z13DTH, Z13DTJ
  
-  ▶ Suzuki: Ignis, Swift, Wagon R+
-  ▶ Engine: 1.3 CDTi
-  ▶ Engine codes: Z13DT, Z13DTH, Z13DTJ
  
-  ▶ Ford: Ka
-  ▶ Engine: 1.3 D TDCi
-  ▶ Engine codes: 169A1.000 (FD4) / BAAA/B








**Kit/Tools suitable for timing**

**310 107 000**

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group 1.2 and 1.4 16V petrol engines.

-  ▶ 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 tool set suitable for FCA Group 1.6 16V petrol engines.

-  ▶ Fiat: Bravo, Brava, Doblò, Doblò Cargo, Marea, Marea Weekend, Palio Weekend, Multipla, Siena, Delta, Lybra
-  Engine
  - ▶ 1.6 16V, 1.6 16V Bipower, 1.6 16V Blupower
-  Engine codes
  - ▶ 182A4.000, 182A6.000, 182B6.000, 178B3.000, 186A3.000, 186A4.000






**Kit/Tools suitable for timing**

**310 015 000**

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group 1.2 petrol engines.

-  ▶ Fiat: Punto, Palio, Palio Weekend, Strada Pick-up
-  Engine
  - ▶ 1.2 8V (Bi-Fuel)
-  Engine codes
  - ▶ 188A4.000 (with **square** oil plug)






**Kit/Tools suitable for timing**

**313 165 000**

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group 2.3 JTD, 3.0 JTD.

-  ▶ 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**

# TIMING TOOLS



## Kit/Tools suitable for timing

Timing tool set suitable for FCA Group 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 8 V, 1.4 8 V, 1.4 Bi-Fuel LPG, 1.4 Natural Power CNG, 1.2 Easy Power LPG, 1.2 Bi-Fuel LPG, 1.2 Evo

- ▶ Engine codes: 350A1.000, 169A4.000, 188A4.000 (with **rounded** oil plug), 199A4.000, 199A7.000



**Kit/Tools suitable for timing**

**310 097 000**



## Kit/Tools suitable for timing

Timing tool set suitable for FCA Group, SUZUKY 1.3 JTD Multijet engines.

- ▶ Fiat: 500, 500C, 500L, Panda, Panda Classic, Punto, Grande Punto, Punto Evo, Qubo, Idea, Doblo, Doblo cargo, Doblo work up, Strada pick up, Fiorino
- ▶ Alfa Romeo: Mito
- ▶ Lancia: Ypsilon, Musa
- ▶ Engine: 1.3 JTD Multijet, 1.3D Multijet 75/95, 1.3D JTD/Multijet 70/85/90/95
- ▶ Engine codes: 169A1.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 223A9.000

- ▶ Opel: Corsa, Agila, Meriva, Combo Tour, Astra
- ▶ Engine: 1.3 CDTi
- ▶ Engine codes: Z13DT, Z13DTH, Z13DTJ

- ▶ Ford: Ka
- ▶ Engine: 1.3 D TDCi
- ▶ Engine codes: 169A1.000 (FD4) / BAAA/B

- ▶ Suzuki: Ignis, Swift, Wagon R+
- ▶ Engine: 1,3 DDis
- ▶ Engine codes: Z13DT, Z13DTH, Z13DTJ



**Kit/Tools suitable for timing**




**310 075 000**



## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group, OPEL petrol 2.2 16V twin cams petrol engines (chain).

-  ▶ Fiat: Croma
- ▶ Opel: Astra-G, Astra-H, Speedster/VX220, Vectra-B+C, Signum, Zafira-A+B
-  Engine
- ▶ 2.2 16V twin cams
-  Engine codes
- ▶ 194A1.000, Z22SE, Z22YH






**Kit/Tools suitable for timing**

**310 160 000**

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group, PSA Group and FORD 2.2 - 2.3 - 3.0 JTD Multijet engines.

-  ▶ Fiat: new Ducato, Iveco Daily
- ▶ Ford: Transit Van
- ▶ Peugeot: Boxer
- ▶ Citroën: Jumper
-  Engine
- ▶ 2.2 - 2.3 - 3.0 JTD MJ
-  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



Timing tool set suitable for FCA Group 1.2 - 1.4 1.6 petrol engines FORD 2.2 - 2.3 - 3.0 JTD MJ 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, 843A1.000, 178B3.000, 182A4.000, 182A6.000, 182B6.000



**Kit/Tools suitable for timing**

**310 131 000**

# TIMING TOOLS

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group 1.4 Multiair petrol engines.

- ▶ Alfa Romeo: Mito, Giulietta  
▶ Fiat: Punto, Punto Evo  
▶ Lancia: Delta
- Engine  
▶ 1.4 Multiair 105, 1.4 Multiair 135 Turbo, 1.4 Multiair 170 Turbo
- Engine codes  
▶ 198A7.000, 940A2.000, 955A2.000, 955A6.000, 955A7.000, 955A8.000



**Kit/Tools suitable for timing**

**310 152 000**

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group 0.9 Twinair Turbo.

- ▶ Fiat: 500, Panda, Punto, 500L, 500C, Panda  
▶ Lancia: Ypsilon  
▶ Alfa: MiTo
- Engine  
0.9 Twinair Turbo
- Engine codes  
312A2.000, 312A4.000



**Kit/Tools suitable for timing**

**310 183 000**

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group 1.8 16V.

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







**Kit/Tools suitable for timing**

**310 153 000**



## Kit/Tools suitable for timing

Timing tool set suitable for FCA Group, FORD and PSA Group 1.4 - 1.5 - 1.6 - 1.8 - 2.0 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: Fusion, Focus, Focus C-Max, B-Max, Ecosport
  - ▶ Engine: 1.4, 1.5 TDCi, 1.6 Duratorq TDCi
  - ▶ Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, G8DA, G8DB, UGJC
-  ▶ Citroën: 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 EV
  - ▶ Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ), F6JA, F6JB, F6JC, G8DA, G8DB, G8DD, EW7J4(6FZ), EW10J4 (RFN/RFR), EW10J4S(RFK), EW10-Hpi (RLZ), EW12 (3FZ), D4164T, HHDA









**Kit/Tools suitable for timing**

**310 115 000**

## Kit/Tools suitable for timing

Timing tool set suitable for FCA Group, FORD, PSA Group and VOLVO 1.4 - 1.5 - 1.6 - 1.9 - 2.0 - 2.2 - 2.5 diesel engines.

-  ▶ Fiat: Ulysse, Scudo, Ducato (JTD)
  - ▶ Ford: Focus, Focus C-Max, Fiesta, Fusion
-  ▶ 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  
1.4D HDi, 1.5D, 1.6D HDi, 1.9D, 2.0D HDi, 2.2D HDi, 2.5D Turbo
-  ▶ Engine codes  
DV4TD (8HT), DV4TD (8HX), DV4TD (8HZ), DV4TED (8HS), TUD5/L3, VJY (TUD5/Y), VJZ (TUD5/L/L3), VJZ (TUD5/L/Y/L3), DV6ATED4 (9HX), DV6BTED4 (9HT), DV6BTED4 (9HV), DV6TED4 (9HY), DV6TED4 (9HZ), DV6TED4B (9HV), DV6UTED4 (9HU), DVW8B/L4 (VJY), DVW10ATED (RHS), DVW10ATED (RHZ), DVW10TD (RHY), DVW10ATED4/L4 (RHT). **See all engine application on the instruction manual - (for Ford you will also need code 313 143 000)**



**Kit/Tools suitable for timing**

**310 185 000**

**+ COMPLETE WITH:**

313 143 000



# TIMING TOOLS



## Kit/Tools suitable for timing

Timing tool set suitable for PSA and FCA Group 1.4 - 1.6 - 1.8 - 1.9 - 2.0 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: 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) - EW1QJ4 (RFN/RFR) EW1QJ4S (RFK)-EW10-Hpi (RLZ)- EW12 (3FZ), DW8 (WJZ), DW10 (RHY-RHZ), DW12 (4HX), EW7J4 (6FZ), EW1QJ4 (RFR), EW1QJ4D (RLZ) - HPI



**Kit/Tools suitable for timing**

**310 123 000**

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group 1.2 - 1.4 16V petrol engines.

- ▶ Fiat: 500, Panda, Punto, Grande Punto, Idea, Linea, Palio Weekend, Doblo, New Bravo, Bravo, Marea/Weekend, Stilo  
▶ Engine: 1.2 16V  
▶ Engine codes: 176B9.000, 182B2.000, 188A5.000
- ▶ Lancia: Ypsilon, Delta, Musa  
▶ Alfa Romeo: Mito, Giulietta  
▶ Engine: 1.4 16V, 1.4 TJet, 1.4 Abarth  
▶ Engine codes: 169A3.000, 192B2.000, 198A1.000, 198A4.000, 199A6.000, 199A8.000, 843A1.000, 955A1.000



**Kit/Tools suitable for timing**

**310 209 000**

## Tools for dismounting



Tools for dismounting timing variator engines.

- ▶ Alfa Romeo: 2.0 JTS



**Tools for dismounting**

**313 223 000**

## Belt tensioner



Universal belt tensioner.

- i** ▶ Ø 5 mm
- ▶ Ø 6 mm
- ▶ Ø 8 mm



**Belt tensioner**

**313 228 000**

## Spring compression tool



Spring compression tool for 1.4 Multiair electro-hydraulic valve control.

- i** ▶ Its usage is strictly recommended during replacing operations and maintenance of the Uniair system.
- i** Engine
  - ▶ 1.4 Multiair and Multiair Turbo
- i** Engine codes
  - ▶ 955A6.000, 955A2.000, 955A7.000, 940A2.000, 955A8.000



**Spring compression tool**

**315 029 000**

## Belt tensioner



Special belt-stretcher suitable for petrol engines.

- i** ▶ Diameter: Ø 2,5 mm



**Belt tensioner**

**313 224 000**

## Flywheel locking tool



Flywheel locking tool for petrol engines.

- i** ▶ Fiat: Bravo, Brava, Marea, Marea Weekend, Multipla, Doblò, Doblò Cargo, Palio Weekend



**Flywheel locking tool**

**313 227 000**

## Belt tensioner



Special belt-stretcher suitable for petrol engines.

- ▶ Diameter: Ø 2 mm



**Belt tensioner**

**313 041 000**

## Pressure plate pin extractor



Extractor for drive shaft on bearing stop clutch for Ducato.

- ▶ Fiat: Ducato



**Pressure plate pin extractor**

**318 003 000**

## Tool for removing axle



Tool for removing axle shaft.

- ▶ Fiat: Punto



**Tool for removing axle**

**383 001 000**

## Flywheel locking tool



Flywheel locking tool for 1.6 - 1.9 - 2.0 - 2.4 diesel engines.

- ▶ Fiat: Punto, Grande Punto, Brava/Bravo Marea, Weekend, Stilo, Doblo/Cargo, Multipla
- ▶ Alfa Romeo: 145, 146, 147, 156, 159, 166
- ▶ Lancia: Lybra, Thesys
- ▶ Opel: Vectra, Zafira, Astra, Insigna, Signum

- Engine
- ▶ 1.6 MJ, 1.9 JTD, 1.9 MJ, 2.4 JTD, 1.9 CDTi, 2.0 MJ

- Engine codes
- ▶ 955A4.000, 350A3.000, 198A2.000, 350A2.000, 955A3.000, 198A6.000, 198A3.000, 940A3.000, 188A3.000, 188B2.000, 323.02, 371.01, 937A2.000, 182B4.000, 182B9.000, 188A2.000, 188A7.000, 192A9.000



**Flywheel locking tool**

**310 234 000**





## Kit/Tools suitable for timing

Timing tool set suitable for BMW 1.9 - 2.0 - 2.5 - 3.0 petrol and 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 and M57
- ▶ Models: 318d (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 and 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

Timing tool set suitable for BMW 2.0 - 2.2 - 2.8 - 3.0 B-Vanos engines with variator on 6 cylinders.



- ▶ Models: Serie 3 (E46), Serie 5 (E39/E61), Serie 7 (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 (2.5 liters)
- ▶ Models: 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

### + COMPLETE WITH:

310 110 002



310 011 000






# TIMING TOOLS

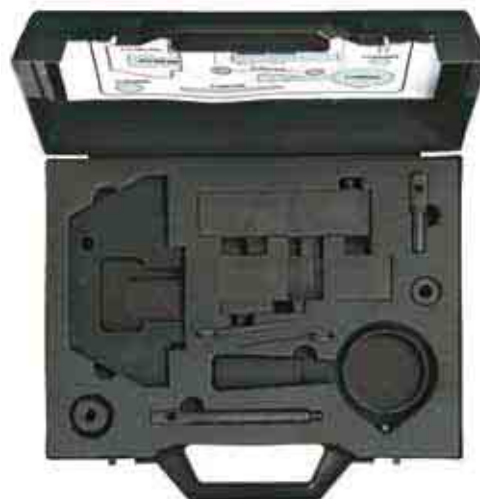
BMW



## Kit/Tools suitable for timing

Timing tool set suitable for BMW 2.5 TD/TDS diesel and petrol engines

-  ▶ Studied to place correctly camshaft and crankshaft during the replacement of timing belts.
-  ▶ Engine: M40 (belt), M43 (chain), M42, M44, M50 and 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) and Z3 1.9/2.8i (89-98)
- ▶ BMW petrol engines: 316i/Compact (E30 1.6/E36/E46), 318i (E30 E36 E46) 518i (E34 VANOS), and Z3 1.8/1.9i (88-04)
- ▶ BMW petrol engines SOHC: 316i/Compact (E30 1.6/E36/E46), 318i E30 E36 E46) 518i (E34 VANOS), and Z3 1.8/1.9i (88-04)
- ▶ BMW diesel engines: 325td/tds (E36), 525td/tds (E34/E39), 725tds (E38) (91-03)
-  ▶ Rover: 2.5 TD/TDS diesel
- ▶ 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 tool set suitable for BMW 2.0 - 2.5 - 3.0 diesel engines.

-  ▶ BMW: 118d. E87 (03-07), 120d. E87 (03-07), 318d/td. E46/E90/91 (00-08), 320d/cd. E46/E90/91 (97-08), 325d. E90/91/92/93 (06-09), 330d/xd/cd. E46/E90/91/92/93 (98-08), 335d. E90/91/92 (06-09), 520d. E39/E60/61 (99-09), 525d/xd. E39/E60/61 (99-09), 530d/xd. E39/E60/61 (98-09), 535d. E60/61 (04-09), 635d. E63/64 (04-09), 730d/Ld. E38/E65/66 (98-08), X3.2.0d. E83 (03-07), X3. 3.0d/sd. E83 (03-09), X5. 3.0d. E53/E70 (00-09)
- ▶ 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, 20 4D 4, 30 6D 3, 30 6D 4, 30 6D 5, 25 6D 1, 25 6D 2



**Kit/Tools suitable for timing**

**310 061 000**

### + COMPLETE WITH:

310 061 009



313 155 000



310 171 002










## Kit/Tools suitable for timing

Timing tool set suitable for BMW 2.5 petrol Sohc engines setting up tool model 2-M40, M43-E30.

-  ▶ BMW: 316i/Compact (E30 1.6/E36/E46), 318i E30 E36 E46) 518i (E34), and 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**

## Kit/Tools suitable for timing



Timing tool set suitable for BMW 1.8 - 2.0 N42 and N46 (chain) petrol engines.

-  ▶ BMW: Serie 3 (E46)

-  Engine
  - ▶ 1.8, 2.0

-  Engine codes
  - ▶ N42B18A, N42B20A, N46B18, N42B20




**Kit/Tools suitable for timing**

**310 146 000**

## Kit/Tools suitable for timing



Timing tool set suitable for BMW 1.6 N40, N45 and N45T.

-  ▶ BMW: Serie 1 (E81/82/87/88), Serie 3 (E46), Serie 3 (E90/91/92/93)

-  Engine
  - ▶ 1.6

-  Engine codes
  - ▶ N45 B16A, N40 B16A, N45T B16AC

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**Kit/Tools suitable for timing**

**310 159 000**

# TIMING TOOLS

BMW

## Kit/Tools suitable for timing



Timing tool set suitable for BMW N47 and N47S, MINI 1.6 - 2.0 diesel engines.

### Complete with puller for injection pump.

- ▶ BMW: X1 2.0 (E84); X3 2.0 (E83, F25); Serie 1 1.6 (F20/21); Serie 1 2.0 (E81/82/87/88, F20); Serie 3 2.0 (E90/91/92/93); Serie 5 2.0 (E60/61, F10/11)
- ▶ Engine codes: N47D20A, N47D20C, N47D20D, N47D20O, N47D20U, N47SD20B, N47SD20D, N47TD20K, N47TD20O, N47TD20U, N47D16
- ▶ MINI: Mini 1.6 and 2.0 (R56/57); Clubman 1.6 and 2.0 (R55); Countryman 1.6 and 2.0 (R60); Coupe 2.0 (R58), Paceman 1.6 and 2.0 (R61), Clubvan 1.6 and 2.0 (R55)
- ▶ Engine codes: N47C16K, N47C16, N47C20K, N47C20U



## Kit/Tools suitable for timing

310 206 000

### + COMPLETE WITH:

310 219 000



310 227 000



## Locking tool



Crankshaft locking tool suitable for BMW 3.0 N57 diesel engines BMW 2.0 N47 and 3.0 N57 diesel engines. This kit is necessary when the timing chain creaks (links damaged).

- ▶ (\*) The N47 engine family is prone to excessive timing chain wear and premature failure. Rattling noise from rear of the engine is indicative of the condition. Timing chain failure may call for engine replacement or a costly repair. The issue applies to all applications and power variants, from 2007 up to 2011 models.

(\*) source: Wikipedia Org.

### ▶ Without it, it's IMPOSSIBLE to replace:

the oil pump chain, both timing chains, the gear of the high pressure pump and of the balancer shaft.

### Without this tool the engine works irregularly.

- ▶ BMW: 114d, 116d, 118d, 120d, 120d/xDrive, 123d, 125d, 316d, 318d, 320d, 320d/EfficientDynamics, 320d/xDrive, 325d, 330d, 520d, 520d/EfficientDynamics, 520d/xDrive, 525d, 530d, 530d/xDrive, 530d/xDrive GT, 535d, 535d/xDrive, 535d/xDrive GT, 640d/xDrive, 730d, 730d/xDrive, M550d/xDrive, X1
- ▶ Engine
  - ▶ 1.6D, 2.0D, 3.0D
- ▶ Engine codes:
  - N47D20A, N47D20A/0U0, N47D20A/00, N47D20C, N47D20C/01,
  - N47D20C/K1, N47D20C/01, N47D20C/U1, N47D20D/T1, N47D20O0,
  - N47D20O1, N47D20U0, N47SD20B/D/T0, N47SD20D/T0, N47TD20K1,
  - N47TD20O1, N47TD20U1, N57D30A/00, N57D30A, N57D30B/T0,
  - N57D30C/S1, N57D30A0/00, N57D30B/T0, N57D30O0, N57D30O1,
  - N57D30C/S1, N57D30T0, N57D30U0, N57D30U0, N57D30T0, N47D16



## Locking tool

310 219 000

## Locking tool



Flywheel locking tool suitable for BMW 3.0 N57 diesel engines.

- ▶ BMW: 1 Series (E81/82/87/88) 116d, 1 Series (E81/82/87/88) 118d, 1 Series (E81/82/87/88) 120d, 1 Series (E81/82/87/88) 123d, 1 Series (F20/21) 114d, 1 Series (F20/21) 116d, 1 Series (F20/21) 116d EfficientDynamics. **See all engine application on the instruction manual**
- Engine
  - ▶ 1.6; 2.0; 3.0; 4.0
- Engine codes:
  - N47 D16, N47 D16C, N47 D20A, N47 D20A/0U0, N47 D20A/K0, N47 D20C, N47 D20C/K1, N47 D20C/O1, N47 D20C/U1, N47 D20D, N47 D20D/T1, N47 D20U0, N47S D20B/D/T0, N47T D20K1, N47T D20O1, S65 B40A



**Locking tool**

**310 227 000**

## Kit/Tools suitable for timing



Timing tool set suitable for BMW N62 V8 and N73 V12 petrol engines.

- ▶ BMW: 735i (E65/66), 540i (E60/61), 740i (E65/66), 545i (E60/61), 650i (E63/64), 745i (E65/66), X5 4.4 (E53), X5 4.8 (E53), 550i (E60/61), 650i (E63/64), 750i (E65/66), X5 4.8 (E70), 760 (E65/66)
- Engine
  - ▶ 3.6, 4.0, 4.4, 4.8, 6.0
- Engine codes
  - ▶ N62 B36A, N62 B40A, N62 B44A, N62 B48A, N62 B48B, N73 B60A



**Kit/Tools suitable for timing**

**310 217 000**

## Kit/Tools suitable for timing



Timing tool set suitable for BMW N43 petrol engines.

- ▶ BMW SERIE 1: 116i, 118i, 120i (E81/82/87/88)
- ▶ BMW SERIE 3: 316i, 318i, 320i (E90/91/92/93)
- ▶ BMW SERIE 5: 520i (E60/61)
- Engine
  - ▶ 1.6, 2.0
- Engine codes
  - ▶ N43 B16A/AA, N43 B16AA, N43 B16AA/O0, N43 B20A, N43 B20A/AA, N43 B20AA, N43 B20AY, N43 B20KO, N43 B20U0



**Kit/Tools suitable for timing**

**310 218 000**

# TIMING TOOLS

BMW

## Kit/Tools suitable for timing



Kit for the timing of the balance shafts of BMW/MINI motors and PSA Group petrol engines.

- ▶ BMW: Serie 1 (E81/82/87/88), Serie 3 (E46), Serie 3 (E90/91/92/93)
  - ▶ Engine: 1.6
  - ▶ Engine codes: N45 B16A, N40 B16A, N45T B16AC
- ▶ Mini: Mini (R56/R57) One / Mini (R56/R57) Cooper, Clubman (R55) One / Clubman (R55) Cooper
  - ▶ Engine: 1.4 - 1.6
  - ▶ Engine codes: N12 (Valvetronic), N14 (direct ignition)
- ▶ Citroën: C4, C4 Picasso, C3, C3 Picasso
  - ▶ Peugeot: 207, 207CC, 308, 3008, 5008
  - ▶ Engine: 1.4VTi (Valvetronic), 1.6VTi (Valvetronic)
  - ▶ Engine codes: EP3(8FS), EP6(5FW), EP6DT(5FX), EP6DTS(5FY)



**Kit/Tools suitable for timing**

**310 228 000**

## Flywheel locking pins set



Flywheel locking pins set for timing BMW 2.0 - 3.0 diesel engines.

- ▶ BMW: Serie 1, Serie 3, Serie 5, Serie 7, X3, X5, X6
- i** Engine
  - ▶ 2.0 4 cylinders - 3.0 6 cylinders
- i** Engine codes
  - ▶ 30 6D 3, 30 6D 4, 30 6D 5, 25 6D 1, 25 6D 2



**Flywheel locking pins set**

**310 061 009**

## Pulley puller



Puller for injection pump pulley suitable for BMW M47, M57 engines.

- i** INCLUDED: centering bush, M40x1,5 mm and M42x1,5 mm.
- ▶ M47 (only the puller)
  - ▶ M47TU (puller and centering bush)
  - ▶ M57 (puller and centering bush)
  - ▶ M57TU (puller and centering bush)
- i** ▶ 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.

-  ▶ BMW: M41 (diesel engine 4 cylinders), M51 (diesel engine 6 cylinders)




**Pulley puller**

**313 202 000**

## Timing plate



Timing plate suitable for BMW petrol engines Bi-Vanos.

-  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**

## Injection pump puller



Puller for injection BMW pump. **Included in 310 206 000.**

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



**Injection pump puller**

**313 216 000**



# TIMING TOOLS

MINI

## Kit/Tools suitable for timing



Timing tool set suitable for PSA Group, MINI 1.4 - 1.6 16V N12 and N14.

- ▶ Mini: Mini (R56/R57) One / Mini (R56/R57) Cooper, Clubman (R55) One / Clubman (R55) Cooper
- ▶ Engine: 1.4 - 1.6
- ▶ Engine codes: N12 (Valvetronic), N14 (direct ignition)
- ▶ Citroën: C4, C4 Picasso, C3, C3 Picasso
- ▶ Peugeot: 207, 207CC, 308, 3008, 5008
- ▶ Engine: 1.4VTi (Valvetronic), 1.6VTi (Valvetronic)
- ▶ Engine codes: EP3(8FS), EP6(5FW), EP6DT(5FX), EP6DTS(5FY)

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Kit/Tools suitable for timing

310 156 000

## Kit/Tools suitable for timing



Timing tool set suitable for BMW N47 and N47S, MINI 1.6 - 2.0 diesel engines.

### Complete with puller for injection pump.

- ▶ MINI: Mini 1.6 and 2.0 (R56/57); Clubman 1.6 and 2.0 (R55); Countryman 1.6 and 2.0 (R60); Coupe 2.0 (R58)
- ▶ Engine codes: N47C16K, N47C16, N47C20K, N47C20U
- ▶ BMW: X1 2.0 (E84); X3 2.0 (E83, F25); Serie 1 1.6 (F20/21); Serie 1 2.0 (E81/82/87/88, F20); Serie 3 2.0 (E90/91/92/93); Serie 5 2.0 (E60/61, F10/11)
- ▶ Engine codes: N47D20A, N47D20C, N47D20D, N47D20O, N47D20U, N47SD20B, N47SD20D, N47TD20K, N47TD20O, N47TD20U, N47D16
- ▶ Engine
- ▶ N47 and N47S



Kit/Tools suitable for timing

310 206 000

## Kit/Tools suitable for timing



Timing tool set suitable for MINI 1.6 diesel engines.

- ▶ Peugeot, Citroën
- ▶ Mini (R56/57), Clubman (R55)
- ▶ Ford: Fiesta, Fusion, Focus, Focus C-Max, C-Max, B-Max; S-Max, Galaxy, Mondeo, Ecosport
- ▶ Volvo: S40 (03-10); S80 (07-10); V50 (06-10); V70 (07-10); C30 (06-10); C70 (06-10)
- ▶ Mazda: 2, 3
- ▶ Engine
- ▶ 1.4D TDCi, 1.6D 8V, 1.5 TDCi, 1.6 Hdi, 1.6D, 2.2 TDCi, 2.5D, 2.5D Turbo, 1.6D, 2.0D
- ▶ Engine codes
- ▶ D4164T, 9HF (DV6DTE), 9HG (DV6CM), 9HH (DV6DU), 9HJ (DV6DM), 9HJ (DV6DTE), 9HL (DV6C), 9HM (DV6UC), 4DA, 4EA 4FA, 4FB, 4FC, 4FD, 4GA, F6JA, F6JB, MZ-CD 1.6 **See all engine application on the instruction manual - Auxiliary system tools are not provided for Peugeot-Citroën engines**



Kit/Tools suitable for timing


310 222 000






## Kit/Tools suitable for timing

Timing tool set suitable for FORD 1.2 - 1.4 - 1.6 - 1.7 - 1.8 - 2.0 Zetec and Duratec.

-  ▶ 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 and 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, LIT, LIV, LIE, LIG, LIH, LIK, RDA, RDB, RKC, RQB, RQC, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDH, HWDA
- ▶ Diesel engine codes  
RFN, RTJ, RTK, RVA, RFK, RKD



**FORD**


**Kit/Tools suitable for timing**

**310 004 000**




## Kit/Tools suitable for timing

Timing tool set suitable for FORD, MAZDA 1.2 - 1.4 - 1.6 - 1.7 - 1.8 - 2.0 petrol engines (complete with wrench pulley tool code 313 226 000).

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

-  Engine
- ▶ 1.2, 1.4, 1.6, 1.7 16V. belt, 1.8 and 2.0 16V. belt and chain, 1.4, 1.6 16V. Focus and 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, LIVV, RDA, RDB, RKC, RQB, RQC, FXDA/C, FXDB/D, FYDA/C, FYDB/D, FYDH, HWDA, HWDB



**Kit/Tools suitable for timing**

**310 109 000**

**+ COMPLETE WITH:**

313 237 000



# TIMING TOOLS

FORD

## Kit/Tools suitable for timing



Timing tool set suitable for FORD 2.0 - 2.2 - 2.4 Duratorq TDCI 16V engines.

- ▶ Ford: Focus C-Max, Focus S-Max, Mondeo, Nuova Focus, Transit, New Galaxy
- ▶ Engine: 2.0 TDCI, 2.2 TDCI, 2.4 TDCI

- ▶ Jaguar: X-Type
- ▶ Engine: 2.0 D, 2.2 D

- ▶ Land Rover: Defender
- ▶ Engine: 2.4 TD4

- ▶ Engine codes
- ▶ FMBA/B, D5BA, ABFA, D3FA, D6BA, HJBA/B, F3FA, D2FA, D4FA, F4FA, F1FA, DOFA, QJBA, QJBB, FXFA, H9FA, 244DT



## Kit/Tools suitable for timing

310 114 000

## Kit/Tools suitable for timing



Timing tool set suitable for FORD 2.0 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



## Kit/Tools suitable for timing

Timing tool set suitable for FCA Group, FORD and PSA Group 1.4 - 1.5 - 1.6 - 1.8 - 2.0 diesel and petrol engines.

- ▶  Ford: Fusion, Focus, Focus C-Max, B-Max, Ecosport
  - ▶ Engine: 1.4, 1.5 TDCI, 1.6 Duratorq TDCi
  - ▶ Engine codes: DV4TD (8HV/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, G8DA, G8DB, UGJC
- ▶  Lancia/Fiat: Phedra/Ulisse, Scudo
  - ▶ Engine: 2.0 16 V
  - ▶ Engine codes: EW10 (RFN)
- ▶  Volvo: S40 / V50
  - ▶ Engine: 1.6 D
  - ▶ Engine codes: D4164T
- ▶  Citroën: 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, G8DD, EVV7J4(6FZ), EW10J4 (RFN/RFR), EVV10J4S(RFK), EVV10-Hpi (RLZ), EVV12 (3FZ), D4164T, HHDA



**FORD**

**Kit/Tools suitable for timing**

**310 115 000**

# TIMING TOOLS

FORD

## Kit/Tools suitable for timing



Timing tool set suitable for FORD 1.2 - 1.4 - 1.6 petrol engines.

- ▶ 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, LQDB, JTDA, JTDB, HXDA, HXJA, HXJB, IQDA/B, IQDB, PNBA, PNDA, RHBA, SIDA



Kit/Tools suitable for timing

310 176 000

### + COMPLETE WITH:

313 237 000



## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group, PSA Group and FORD 2.2 - 2.3 - 3.0 JTD Multijet engines.

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

- ▶ Engine  
▶ 2.2 - 2.3 - 3.0 JTD MJ

- ▶ 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

Timing tool set suitable for FCA Group, FORD, PSA Group and VOLVO 1.4 - 1.5 - 1.6 - 1.9 - 2.0 - 2.2 - 2.5 diesel engines.

-  ▶ Ford: Focus, Focus C-Max, Fiesta, Fusion
-  ▶ 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
-  ▶ Fiat: Ulysse, Scudo, Ducato (JTD)
-  ▶ Volvo: S40 / V50
-  ▶ Engine  
1.4D HDi, 1.5D, 1.6D HDi, 1.9D, 2.0D HDi, 2.2D HDi, 2.5D Turbo
-  ▶ Engine codes  
DV4TD (8HT), DV4TD (8HX), DV4TD (8HZ), DV4TED (8HS), TUD5/L3, VJY (TUD5/Y), VJZ (TUD5/L/L3), VJZ (TUD5/L/Y/L3), DV6ATED4 (9HX), DV6BTED4 (9HT), DV6BTED4 (9HV), DV6TED4 (9HY), DV6TED4 (9HZ), DV6TED4B (9HV), DV6UTED4 (9HU), DW8B/L4 (VJY), DW10ATED (RHS), DW10ATED (RHZ), DW10TD (RHY), DW10ATED4/L4 (RHT). **See all engine application on the instruction manual - for Ford you will also need code 313 143 000**



FORD

### Kit/Tools suitable for timing

**310 185 000**

#### COMPLETE WITH:

313 143 000









## Kit/Tools suitable for timing

**NEW**



Timing tool set suitable for FORD and MAZDA 1.4 - 1.5 - 1.6 - 1.8 - 1.9 - 2.0 - 2.2 - 2.5 diesel engines.

-  ▶ Ford: C-Max, Courier, Escort, Fiesta, Fiesta Econetic, Focus, Focus C-Max, Fusion, Galaxy, Mondeo, Orion, Tourneo Connect, Transit, Transit Connect, B-max, Ecosport
-  ▶ Engine: 1.4D TDCi, 1.5 TDCi, 1.6D TDCi, 1.8D, 1.8D TCI, 1.8D TDdi, 1.8D TDCi, 1.8D TDCi, 1.8D Turbo, 1.8D Turbo, 1.9D TDI PD, 1.9D TDI PD, 2.0D TDCi, 2.2 TDCi, 2.5D, 2.5D Turbo
-  ▶ Engine codes: F6JA, F6JB, F6JC, F6JD, TZJA, TZJB, G8DA, G8DB, HHDA, HHDB, HHJA, HHJC, HHJD, HHJE, HHJF, RTA, RTB, RTC, RTD, RTG, RTE, RTF, RTH, RTJ, RTK, RFN, BHPA, HCPA, HCPB, KKDA, P7PA, P9PA, P9PB, R2PA, R3PA, RWPA, RVVPC, F9DA/B, FFBA, FFVA, UGJC. **See all engine application on the instruction manual**
-  ▶ MAZDA: 2, 3, 5
-  ▶ Engine: 1.4D TDCi, 1.6D 8V, 1.6D 16V
-  ▶ Engine codes: F6JA, F6JB, MZCD 1.6, Y6



### Kit/Tools suitable for timing

**310 169 000**






# TIMING TOOLS

FORD

## Kit/Tools suitable for timing



Timing tool set suitable for FORD and MAZDA 1.4 - 1.5 - 1.6 - 1.8 - 2.0 - 2.2 - 2.5 diesel engines.

-  ▶ Ford: Fiesta, Fusion, Focus, Focus C-Max, C-Max, B-Max; S-Max, Galaxy, Mondeo, Ecosport
-  ▶ Volvo: S40, S80, V50, V70, C30, C70
-  ▶ Mazda: 2, 3
-  ▶ Engine: 1.4D TDCi, 1.5D TDCi, 1.6D, 1.6D 8V, 1.8D, 1.8D TCI, 1.8D TDCi, 1.8D TDDi, 1.8D Turbo, 2.0D, 2.0D TDCi, 2.2 TDCi, 2.5D, 2.5D Turbo
-  ▶ Engine codes: D4164T, D420T, F6JA, F6JB, F6JC, F6JD, UGJC, TZJA, TZJB, G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, HHDA, HHDB, HHJA, HHJB, HHJC, HHJD, HHJE, HHJF, RTA, RTB, RTC, RTD, RTG, RTE, RTF, RTH, RTJ, RTK, RFN, BHPA, HCPA, HCPB, KKDA, P7PA, P9PA, P9PB, R2PA, R3PA, RWPA, RWPC, F9DA/B, FFBA, FFVA, KHBA, QYBA, QYWA, KKDB, C9DC, RVA, G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, UFDB, TXDB, TYDA, UKDB, QXBA, QXBB, QXVA, QXVB, AZBA, KLBA, LPBA, AZBC, TYBA, UKBA, UFBA, TXBA, IXDA, QXVA, QXVB, AZVA, KIWA, AZVC, TYVA, UKVA, TXVA, UFWA, UFDA, TXDA, UKDA, Q4BA, KNBA, QXBA, QXVA, QXBB, 4BA, 4BB, 4BC 4CC, 4FA, 4CA, 4CB, 4DA 4EA 4FA, 4FB, 4FC, 4FD, 4GA, 4HB, 4HC, **See all engine application on the instruction manual**






Kit/Tools suitable for timing

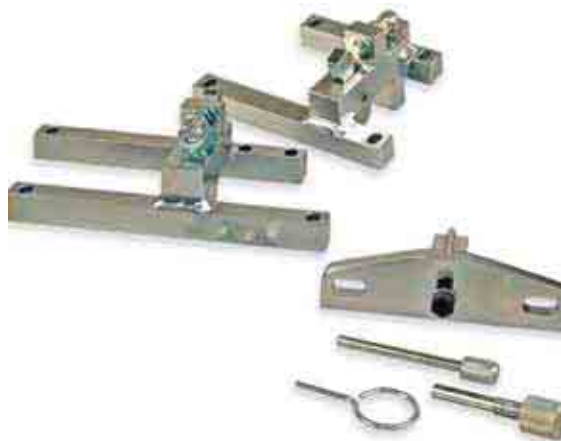
310 225 000

## Kit/Tools suitable for timing



Timing tool set suitable for FORD 1.0 Ecoboost petrol engines.

-  ▶ Ford: B-MAX, C-MAX, EcoSport, Fiesta, Focus, Grand C-MAX
-  ▶ Engine: 1.0 EcoBoost, 1.0 SCTi EcoBoost
-  ▶ Engine codes: SFJA, SFJB, M1DA, M2DA, M1JC, M1JE



Kit/Tools suitable for timing

310 226 000

## Locking tool



Twin camshafts locking tool.

-  ▶ Ford



Locking tool

313 237 000





## 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**

**313 226 000**

# TIMING TOOLS

OPEL

## Kit/Tools suitable for timing



Timing tool set suitable for OPEL 2.0 - 2.2 petrol engines.

- ▶ Opel: Vauxhall, Astra, Astravan, Zafira, Vectra, Omega, Sintra, Frontera, Signum
- ▶ 2.0 and 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 tool set suitable for OPEL 1.0 - 1.2 - 1.4 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 tool set suitable for OPEL 1.4 - 1.5 - 1.6 - 1.8 - 2.0 - 2.2 EcoTec twin cams petrol engines.

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



## Kit/Tools suitable for timing

Timing tool set suitable for OPEL 1.0 - 1.2 - 1.4 - 2.0 - 2.2 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 and 2.2 Di
- ▶ Saab: 9-3, 9-5 (98-04)
- ▶ 2.2 Di: D223L

- ▶ Engine codes: X10XE, Z10XE, Z10XEP, X12XE, Z12XE, Z14XEP, X20DTL, X20DTH, X22DTH, Y20DTL, Y20DTH, Y22DTH, Y22DTR



OPEL

Kit/Tools suitable for timing

310 078 000

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group, OPEL 1.6 - 1.9 - 2.0 - 2.4 JTD Multijet engines.

- ▶ Opel: Vectra, Zafira, Astra, Insigna, Signum
- ▶ Engine: 1.9 CDTi
- ▶ Engine codes: Z19DT, Z19DTH, Z19DTJ, Z19DTL

- ▶ Alfa: 145, 146, 147, 156, 159, 166, Giulietta, MiTo
- ▶ Fiat: Punto, Punto evo, Grande Punto, Brava/Bravo Marea, Linea, Idea, Weekend, Stilo, Doblo/Cargo/WorkUp, Multipla, Delta Musa, 500L
- ▶ Lancia: Lybra, Thesys
- ▶ Engine: 1.6D 115/120/90/105, 1.6D JTD 16V, 1.9D/1.9D 16V/Multijet 150, 1.9D JTD/100/110/115/80, 1.9D JTD 16V, 1.9D Multijet 100/120/130/105/140/150/90, 1.9D TD 100/75, 2.0 D Multijet 135/165, 2.0 D JTD 16V, 2.4D JTD/JTD 20V/125/130
- ▶ Engine codes: 182A7.000, 182A8.000, 182B4.000, 182B9.000, 185A2.000, 186A6.000, 186A8.000, 186A9.000, **See all engine application on the instruction manual**

- ▶ Saab
- ▶ Engine codes: A19DTR



Kit/Tools suitable for timing

310 074 000

**+** COMPLETE WITH:

310 234 000



# TIMING TOOLS

OPEL

## Kit/Tools suitable for timing



Timing tool set suitable for OPEL, RENAULT/NISSAN 2.0 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



Timing tool set suitable for OPEL, RENAULT/NISSAN 2.0 diesel engines.

- ▶ New updated version complete with flywheel and crankshaft locking tools.
- ▶ Opel: Latitude, Quashquai (08), X-Trail (07-08), Primastar (08), Vivaro
  - ▶ Engine: 2.0 dCi, 2.0 CDTi
- ▶ Renault: Megane II, Scenic II (08) / Grand Scenic, Laguna II - III (05-09)
  - ▶ Nissan: Espace (08) / Grand Espace, Koleos (08), Trafic II (07-08), Vel Satis
  - ▶ Engine: 2.0 dCi (**for 2.3 dCi RENAULT/NISSAN you will also need code 310 212 010**)
- ▶ Engine codes
  - ▶ All M9R engines



Kit/Tools suitable for timing

310 157 000

### + COMPLETE WITH:

310 212 010



## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group, OPEL 2.2 16V twin cams petrol engines (chain).

- ▶ Opel: Astra-G, Astra-H, Speedster/VX220, Vectra-B+C, Signum, Zafira-A+B
  - ▶ Fiat: Croma
- ▶ Engine
  - ▶ 2.2 16V twin cams
- ▶ Engine codes
  - ▶ 194A1.000, Z22SE, Z22YH






Kit/Tools suitable for timing

310 160 000



## Kit/Tools suitable for timing

Timing tool set suitable for OPEL 2.0 - 2.2 diesel engines.

-  ▶ Opel: Corsa, Agila, Meriva, Astra, Astravan, Kadett, Ascona, Zafira, Vectra, Omega, Sintra, Frontera, Monterey, Midi, Signum
- ▶ 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, **See all engine application on the instruction manual**
- ▶ Engine codes diesel  
4EC1/T, 4EC1, 4EE1/T, 4EE1, X17DT, Y17DT, Y17DTi, Y17DTL, 16DA, 17D, 17DR/X, 7DTL, X17DTL, 4JX1/4, JG2T, 4FC1/T, **See all engine application on the instruction manual**
- ▶ Engine codes SAAB: D223L






**Kit/Tools suitable for timing**

**310 149 000**

## Kit/Tools suitable for timing

Timing tool set suitable for OPEL 2.0 diesel engines.

-  ▶ Opel: Antara
- ▶ Chevrolet and Daewoo: Epica, Captiva, Nubira, Lacetti, Evanda
-  Engine  
▶ 2.0 TdCi  
▶ 2.0 D VCDi
-  Engine codes  
▶ Z20DMH, Z20DM, RA420, Z20S1





**Kit/Tools suitable for timing**




**310 139 000**

## Kit/Tools suitable for timing

Timing tool set suitable for OPEL 2.0 diesel engines.

-  ▶ Opel: Antara
- ▶ Engine: 2.0 CDTi
- ▶ Engine codes: Z20DM, Z20DMH
-  ▶ Chevrolet: Lacetti, Nubiria, Captiva, Epica, Cruze
- ▶ Engine: 2.0 CVCDi
- ▶ Engine codes: Z20DM, Z20S1, RA420/Z20S1, LLW/Z20DMH

**INCLUDED:**

-  Auxiliary tensioner for Opel.
-  Belt tensioner Opel 2,0 Torx.
-  Bended locking pin Ø 4,5.



**Kit/Tools suitable for timing**

**310 158 000**



# TIMING TOOLS

OPEL



## Kit/Tools suitable for timing

Timing tool set suitable for OPEL 1.4 - 1.6 - 1.8 petrol Twinport 16V (belt) engines.

-  ▶ Vauxhall, Opel: Corsa-D, Agila, Astra-G-H, Meriva, Zafira-B, Vectra-C, Signum, Insignia
  - ▶ Engine: 1.6, 1.8
  - ▶ Engine codes: Z16LEL, Z16LER, Z16LET, Z16XE1, Z16XEP, Z16XER, A16XER, Z18XER, A18XER, 2HO/A18XEL
-  ▶ Chevrolet: Aveo, Cruze, Orlando
  - ▶ Engine: 1.4, 1.6, 1.8
  - ▶ Engine codes: G14D, LDD, LXV (F16D4), 2HO(Z18XER)
-  ▶ Alfa Romeo: 159
  - ▶ Fiat: Croma
  - ▶ Engine: 1.8
  - ▶ Engine codes: 939A4.000



**Kit/Tools suitable for timing**



**310 151 000**



## Kit/Tools suitable for timing

Timing tool set suitable for OPEL 1.3 CDTi engines.

It is recommended to prevent the engine shafts (e.g. camshafts, crankshaft) from turning or to keep them in a specific position and to adjust the tensioner when changing a timing chain or during other engine repairs.

-  ▶ Opel: Agila, Agila-B, Astra-H, Astra-J, Combo-C, Combo-D, Corsa-C, Corsa-D, Meriva-A, Meriva-B, Tigra-B, Zafira-B/Zafira Family
  - ▶ Engine: 1.3 CDTi, 1.3 CDTi ecoFLEX
-  ▶ Suzuki: Swift (RS), Ignis (RM), VVagon R+, Splash
  - ▶ Engine: 1,3 DDiS (catena)
-  ▶ Ford: Ka
  - ▶ Engine: 1,3 TDCi
-  ▶ Lancia: Musa, Ypsilon
  - ▶ Engine: 1.3 JTD/Multijet 70, 1.3 JTD/Multijet 90, 1.3 Multijet 95, 1.3 JTD, 1.3 Multijet 105, 1.3 Multijet 75, 1.3 Multijet 90, 1.3 Multijet 95
-  ▶ Fiat: 500/500C, 500L/500L Living/500L MPW, Doblo, Doblo Cargo, Doblo Work Up, Fiorino, Grande Punto, Idea, Linea, Panda, Panda/Panda Classic, Punto, Punto Evo, Punto/Punto Classic, Qubo, Strada Pick-up
  - ▶ Engine: 1.3 JTD, 1.3 JTD/Multijet 70, 1.3 JTD/Multijet 75, 1.3 JTD/Multijet 90, 1.3 Multijet, 1.3 JTD/Multijet 85, Multijet 85 ECO, 1.3 Multijet 95
-  ▶ Alfa Romeo: Mito
  - ▶ Engine: 1.3 JTDm-2
-  ▶ Engine codes: Z13DT, Z13DTE, Z13DTH, Z13DTJ, Z13DTR, A13DTC, A13DTE, A13DTR, 169A1.000(FD4)/BAAB/B





**Kit/Tools suitable for timing**

**310 213 000**

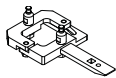
## Kit/Tools suitable for timing



Timing tool set suitable for OPEL 1.0 - 1.2 - 1.4 and CHEVROLET 1.2 - 1.4 ecoFLEX.

-  ▶ Opel: Corsa, Astra, Meriva, Zafira
- ▶ Engine: 1.0 - 1.2 - 1.4 ecoFLEX
- ▶ Engine codes: A10XEP, A12XEL, A12XER, LUJ/A14NET, LUJ/A14NEL, LUH/A14NEL, LDD/A14XER, LDD/A14XEL
-  ▶ Chevrolet: Aveo
- ▶ Engine: 1.2 - 1.4
- ▶ Engine codes: LWD/A12XEL, LDC/A12XER, L2Q/A12XEL, LDD/A14XER, LDD/A14XEL

### INCLUDED:



Crankshaft pulley holding tool.





### Kit/Tools suitable for timing

**310 216 000**

## Kit/Tools suitable for timing



Timing tool set suitable for OPEL 1.0 - 1.2 - 1.4 and CHEVROLET 1.2 - 1.4 ecoFLEX.

-  ▶ Opel: Corsa, Astra, Meriva, Zafira
- ▶ Engine: 1.0 - 1.2 - 1.4 ecoFLEX
- ▶ Engine codes: A10XEP, A12XEL, A12XER, LUJ/A14NET, LUJ/A14NEL, LUH/A14NEL, LDD/A14XER, LDD/A14XEL
-  ▶ Chevrolet: Aveo
- ▶ Engine: 1.2 - 1.4
- ▶ Engine codes: LWD/A12XEL, LDC/A12XER, L2Q/A12XEL, LDD/A14XER, LDD/A14XEL





### Kit/Tools suitable for timing

**310 221 000**

## Kit/Tools suitable for timing



Crankshaft pulley holding tool and handle.

-  ▶ Crankshaft locking tool suitable for OPEL 1.0 - 1.2 - 1.4 eco FLEX engines.
-  ▶ Opel: Corsa, Astra, Meriva, Zafira
- ▶ Engine: 1.0 - 1.2 - 1.4 eco FLEX
- ▶ Engine codes: A10XEP, A12XEL, A12XER, LUJ/A14NET, LUJ/A14NEL, LUH/A14NEL, LDD/A14XER, LDD/A14XEL



### Kit/Tools suitable for timing

**310 216 020**

## Locking pin



Flywheel locking pin suitable for OPEL.

-  Engine
- ▶ 1.3 CDTI



### Locking pin

**313 194 000**

# TIMING TOOLS

MAZDA



## Kit/Tools suitable for timing

Timing tool set suitable for FORD, MAZDA 1.2 - 1.4 - 1.6 - 1.7 - 1.8 - 2.0 petrol engines (complete with wrench pulley tool code 313 226 000).



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



- Engine
  - ▶ 1.2, 1.4, 1.6, 1.7 16V. belt, 1.8 and 2.0 16V. belt and chain, 1.4, 1.6 16V. Focus and 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, L1T, L1V, L1E, L1F, MHA, L1G, L1H, L1K, L1V, RDA, RDB, RKC, RQB, 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

Timing tool set suitable for MERCEDES 1.6-1.8 petrol engines.

- 
 ▶ Mercedes: CLK 200K (W209), C180K, C200K, C230K (W203), C- Coupe C160K, C180K, C200K, C230K, E200K (W211), SLK 200K (R171), C180K (W204), CLC180K, CLC200K, C180CGI, C200CGI, C250CGI (W204), E200CGI, E250CGI (W212, C207)

- 
 Engine  
 ▶ 1.6 - 1.8

- 
 Engine codes  
 ▶ All OM271 engines



**Kit/Tools suitable for timing**

**310 229 000**

**MERCEDES**




# TIMING TOOLS

## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group, FORD, PSA Group and VOLVO 1.4 - 1.5 - 1.6 - 1.9 - 2.0 - 2.2 - 2.5 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
- ▶ Fiat: Ulysse, Scudo, Ducato (JTD)
- ▶ Ford: Focus, Focus C-Max, Fiesta, Fusion
- ▶ Volvo: S40 / V50

-  ▶ Engine  
1.4D HDi, 1.5D, 1.6D HDi, 1.9D, 2.0D HDi, 2.2D HDi, 2.5D Turbo

-  ▶ Engine codes  
DV4TD (8HT), DV4TD (8HX), DV4TD (8HZ), DV4TED (8HS), TUD5/L3, VJY (TUD5/Y), VJZ (TUD5/L/L3), VJZ (TUD5/L/Y/L3), DV6ATED4 (9HX), DV6BTED4 (9HT), DV6BTED4 (9HW), DV6TED4 (9HY), DV6TED4 (9HZ), DV6TED4B (9HV), DV6UTED4 (9HU), DW8B/L4 (WJY), DV10ATED (RHS), DV10ATED (RHZ), DV10TD (RHY), DV10ATED4/L4 (RHT), **See all engine application on the instruction manual - (for Ford you will also need code 313 143 000)**



Kit/Tools suitable for timing

310 185 000

### + COMPLETE WITH:





313 143 000



## Kit/Tools suitable for timing



Timing tool set suitable for FCA Group, FORD and PSA Group 1.4 - 1.5 - 1.6 - 1.8 - 2.0 diesel and petrol engines.

-  ▶ Citroën: 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, G8DD, EW7J4 (6FZ), EW10J4 (RFN/RFR), EW10J4S (RFK), EW10-Hpi (RLZ), EW12 (3FZ), D4164T, HHDA
-  ▶ Ford: Fiesta, Fusion, Focus, Focus C-Max
- ▶ Engine: 1.4 - 1.6 Duratorq TDCi
- ▶ Engine codes: DV4TD (8HW/8HX/8HZ), DV4TED4 (8HV/8HY), DV6ATED4 (9HX/9HY/9HZ) F6JA, F6JB, F6JC, G8DA, G8DB
-  ▶ Lancia/Fiat: Phedra/Ulisse, Scudo
- ▶ Engine: 2.0 16 V
- ▶ Engine codes: EW10 (RFN)
-  ▶ Volvo: S40 / V50
- ▶ Engine: 1.6 D
- ▶ Engine codes: D4164T



Kit/Tools suitable for timing

310 115 000

## Kit/Tools suitable for timing



Timing tool set suitable for PSA Group 1.0 - 1.4 - 1.6 - 1.8 - 2.0 - 2.2 petrol engines.

- ▶ Peugeot: 206, 206CC, 307, 307CC, 406, 407, 607, 806, 807, Expert
  - ▶ Engine: 1, 1.1, 1.4, 1.6, 1.8, 1.8 16V, 2.0, 2.0 16V, 2.0 Turbo, 2.2
  - ▶ Engine codes: TU9M (CDY), TU9M (CDZ), TU1M (HDZ), TU3 (K1A), TU3, 2/K (K2D), TU3A (K1G), TU3ACLC (K1D), TU3ATN(K1G), TU3CP (KAY), TU3F2 (K2D), TU3FJ2 (K6B), TU3FJ2 (KFZ), TU3JP (KFW), TU3JP (KFX), TU3JP/IFL4 (KFX), TU3JP/L3 (KFX), TU3M (KDX), TU3M (KDY), TU3M (KDY/Z), TU3M (KDZ), TU3M/Z (KDX), TU3M/Z (KDY), TU3M/Z (KDZ), TU3MCZ (KDX), TU3S (K2B), TU3SCLC /K2B)", TU5J2 (NFW), TU5J2 (NFY), TU5JP (NFT), TU5JP (NFZ), TU5JP/L3 (NFZ), TU5JP/Z 8 (NFZ), TU5J4 (NFU), TU5JP4 (NFU), TU5JP4B (NFR), **See all engine application on the instruction manual**
- 
- ▶ Citroën: Xsara, Picasso, C4, C5, C8, Jumpy, Dispatch
  - ▶ Engine: 1.4, 1.6, 1.6 VTS
  - ▶ Engine codes: K1F, K1G, K2A, K2B, K2D, K2D (TU3F2K), K3A, KDX (TU3FMC/LZ), KDX(TU3MC), KDY (TU3FM), KDY (TU3FM/L), KDY (TU3M/FM/L), KDZ (TU3M), KFX (TU3JP), KFX (TU3JP/IFL4), KFX (TU3JP/L3), KFX (TU3JP/L4), KFX (TU3JP+/L3), KIG (TU3A), KFV (TU3A), KFV (TU3JP), KFW (TU3A), KFW (TU3JP/L4), NFZ (TU5JP), NFZ (TU5JP) BVA, NFT (TU5JP/L4), NFV (TU5JP/L4), NFZ (TU5JP), NFZ (TU5JP/L3), NFZ (TU5JP+), NFZ (TU5JP+/L3), B4A, B4A (XU5M3K), BFZ (XU5TP), BDY (XU5M3/L), B1F (XU51C), B2C (XU52C), **See all engine application on the instruction manual**



**Kit/Tools suitable for timing**

**310 186 000**

## Kit/Tools suitable for timing



Timing tool set suitable for PSA Group, MINI 1.4 - 1.6 16V N12 and N14.

- ▶ Citroën: C4, C4 Picasso, C3, C3 Picasso
  - ▶ Peugeot: 207, 207CC, 308, 3008, 5008
  - ▶ Engine: 1.4VTi (Valvetronic), 1.6VTi (Valvetronic)
  - ▶ Engine codes: EP3(8FS), EP6(5FW), EP6DT(5FX), EP6DTS(5FY)
- 
- ▶ Mini: Mini (R56/R57) One / Mini (R56/R57) Cooper, Clubman (R55) One / Clubman (R55) Cooper
  - ▶ Engine: 1.4 - 1.6
  - ▶ Engine codes: N12 (Valvetronic), N14 (direct ignition)

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**Kit/Tools suitable for timing**




**310 156 000**

# TIMING TOOLS



## Kit/Tools suitable for timing

Timing tool set suitable for PSA Group 1.4 - 1.6 - 1.8 - 2.0 - 2.2 petrol and diesel engines.

-  ▶ Citroën: 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)
-  ▶ Petrol engine  
1.4, 1.6, 1.8 16V, 2.0, 2.0 16V
- ▶ Diesel engine  
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

Timing tool set suitable for PSA and FCA Group 1.4 - 1.6 - 1.8 - 2.0 petrol and diesel engines.

-  ▶ Citroën: 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) - DV6ATED4 (9HX/9HY/9HZ) F6JA - F6JBF6JC - G8DAG8DB - EW7J4 (6FZ) - EW10J4 (RFN/RFR) EW10J4S (RFK)-EW10-Hpi (RLZ)- EW12 (3FZ), DW8 (VJZ), DW10 (RHY-RHZ), DW12 (4HX), EW7J4 (6FZ), EW10J4 (RFR), EW10J4D (RLZ) - HPI
-  ▶ 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



Timing tool set suitable for PSA Group 2.7 diesel 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 tool set suitable for FCA Group, PSA Group and FORD 2.2 - 2.3 - 3.0 JTD Multijet engines.

-  ▶ Peugeot: Boxer
- ▶ Citroën: Jumper
- ▶ Fiat: nuovo Ducato, Iveco Daily
- ▶ Ford: Transit Van
-  Engine
  - ▶ 2.2 - 2.3 - 3.0 JTD MJ
-  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 tool set suitable for PSA Group 1.0 - 1.2 VTi petrol engines.

-  ▶ Peugeot: 208, 2008  
▶ Citroën: C3 (III)
-  ▶ Engine: 1.0 VTi, 1.2 VTi
-  ▶ Engine codes: EBO (ZMZ), EB2 (HMZ)






**Kit/Tools suitable for timing**

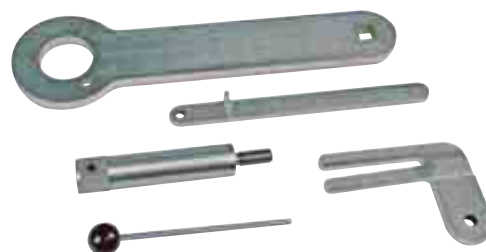
**310 220 000**



## Kit/Tools suitable for timing

Kit for the timing of the balance shafts of BMW/MINI motors and PSA Group petrol engines.

-  ▶ Citroën: C4, C4 Picasso, C3, C3 Picasso  
▶ Peugeot: 207, 207CC, 308, 3008, 5008  
▶ Engine: 1.4VTi (Valvetronic), 1.6VTi (Valvetronic)  
▶ Engine codes: EP3(8FS), EP6(5FW), EP6DT(5FX), EP6DTS(5FY)
-  ▶ BMW: Serie 1 (E81/82/87/88), Serie 3 (E46), Serie 3 (E90/91/92/93)  
▶ Engine: 1.6  
▶ Engine codes: N45 B16A, N40 B16A, N45T B16AC
-  ▶ Mini: Mini (R56/R57) One / Mini (R56/R57) Cooper, Clubman (R55) One / Clubman (R55) Cooper  
▶ Engine: 1.4 - 1.6  
▶ Engine codes: N12 (Valvetronic), N14 (direct ignition)







**Kit/Tools suitable for timing**

**310 228 000**



## Kit/Tools suitable for timing

Timing tool set suitable for RENAULT/NISSAN 1.4 - 1.6 - 1.8 - 2.0 16V petrol engine.

-  ▶ INCLUDED: Locking plate for the 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

Timing tool set suitable for RENAULT/NISSAN 1.2 - 1.4 - 1.6 - 2.0 petrol engines + locker for distribution pulleys.

-  ▶ Renault: Clio, Clio sport, Megane, Scénic, Laguna, Espace
-  Engine
  - ▶ 1.2 16V, 1.4, 1.4 16V, 1.6, 1.8, 2.0, 2.0 16 V, 2.0 IDE, 2.0 Turbo
-  Engine codes
  - ▶ K4J/K4M, F4P/F4R, *See all engine application on the instruction manual*

**INCLUDED:**



Locking plate for the RENAULT petrol engines.






**Kit/Tools suitable for timing**

**310 073 000**



## Kit/Tools suitable for timing

Timing tool set suitable for RENAULT/NISSAN 1.5 - 2.2 - 2.5 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
  - ▶ G9T 710/720/722/750, K9K from 2001, G9U 720/724/730/726/750/754



**Kit/Tools suitable for timing**

**310 083 000**

# TIMING TOOLS

## Kit/Tools suitable for timing



Timing tool set suitable for RENAULT/NISSAN 2.2 - 2.5 diesel engines.

- ▶ Renault: Laguna, Espace, Master, Vel Satis, Trafic  
▶ Engine: 2.2D dCi, 2.5D dCi  
▶ Engine codes: G9T 600/605/606/607/642/700/702/703/704/706/707/720/722/750/742/743, G9U 630/632/650/720/724/726/750/754
- ▶ Nissan: Interstar, Primastar  
▶ Engine: 2.5D dCi  
▶ Engine codes: G9U 630/730
- ▶ Opel: Vauxhall  
▶ Engine: 2.2D DTi, 2.5D CDTi  
▶ Engine codes: G9U 630/632/650/724/726/730/750/754



**Kit/Tools suitable for timing**

**310 090 000**

## Kit/Tools suitable for timing



Timing tool set suitable for RENAULT/NISSAN, VOLVO 1.9 diesel engines.

- ▶ Renault: Mégane/Scénic, Laguna, Trafic, Twingo, Clio, Kangoo, Espace, Master  
▶ Engine: 1.9D dCi, 1.9D dTi  
▶ Engine codes: F9Q 650/660/664/670/674/680/690/730/734/740/746/748/750/751/752/754/755/758/759/770/772/774/780/782/790/800/803/804/808/812/814/818/820/826/870/872
- ▶ Nissan: Qashqai, Kubistar, Interstar, Primera, Primastar  
▶ Engine: 1.9D dCi  
▶ Engine codes: F9Q 760/762/772/774
- ▶ Volvo: S40 / V40  
▶ Engine: 1.9D CDTi  
▶ Engine codes: F9Q 760/762/774

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**YouTube**



**Kit/Tools suitable for timing**

**310 091 000**

## Kit/Tools suitable for timing



Timing tool set suitable for RENAULT/NISSAN 1.5D dCi engines.

- ▶ Renault: Clio, Kangoo, Thalia, Be Bop, Twingo, Fluence, Logan, Laguna, Modus, Mégane/Scénic
- ▶ Nissan: Kubistar, Micra, Note, Qashqai
- i** Engine  
▶ 1.5D dCi
- i** Engine codes  
▶ K9K 700/702/704/706/710/712/714/716/718/722/724/728/729/732/734/750/752/760/762/764/766/768/790/792/830/832/834/836/837/846







**Kit/Tools suitable for timing**

**310 092 000**

## Kit/Tools suitable for timing



Timing tool set suitable for RENAULT/NISSAN 1.5 diesel and petrol engines.

-  ▶ INCLUDED: Locking plate for the 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 from 2001






### Kit/Tools suitable for timing

310 096 000

## Kit/Tools suitable for timing



Timing tool set suitable for RENAULT/NISSAN 1.5 - 1.9 - 2.2 - 2.5 diesel engines.

-  ▶ Renault: Clio, Kangoo, Laguna, Espace, Master, Mégane/Scénic, Trafic, Thalia, Modus, Twingo, Be Bop, Fluence, Logan
  - ▶ Engine: 1.5D dCi, 1.9D dCi, 1.9D dTi, 2.2D dCi, 2.5D dCi
  - ▶ Engine codes: K9K 700/702/704/706/710/712/714/716/718/722/724/728/729/732/734/750/752/760/762/764/766/768/790/792/830/832/834/836/837/846, F9Q 650/660/664/670, **See all engine application on the instruction manual**
-  ▶ Nissan: Kubistar, Interstar, Qashqai, Micra
  - ▶ Engine: 1.5D dCi, 1.9D dCi, 2.5D dCi
  - ▶ Engine codes: K9K 702/704/710/714/718, F9Q 760/762/772/774, G9U 630/730
-  ▶ Opel: Vivaro, Movano
  - ▶ Engine: 1.9D CDTi, 2.2D DTi, 2.5D CDTi
  - ▶ Engine codes: F9Q 760/762/774, G9T 720/750, G9U 630/632/650/724/726/730/750/754



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### Kit/Tools suitable for timing

310 101 000

## Kit/Tools suitable for timing



Timing tool set suitable for RENAULT/NISSAN 1.2 - 1.4 - 1.5 - 1.6 - 1.7 - 1.8 - 1.9 - 2.0 - 2.1 - 2.2 - 2.5 - 2.8 diesel and petrol engines.

-  ▶ INCLUDED: Locking plate for the 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, 1.8 16V, 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, 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 from 2001, F9Q 732, F9Q 718, F9Q 760, F9Q 732, F9Q718, 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, S9VT



### Kit/Tools suitable for timing

310 108 000








# TIMING TOOLS



## Kit/Tools suitable for timing

Timing tool set suitable for RENAULT/NISSAN 1.2 - 1.4 - 1.6 - 1.7 - 1.8 - 2.0 - 2.1 - 2.2 - 2.5 - 2.8 petrol and diesel engines.

-  ▶ INCLUDED: Locking plate for the 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 and 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, S9W)





**Kit/Tools suitable for timing**

**310 113 000**

## Kit/Tools suitable for timing



Timing tool set suitable for RENAULT/NISSAN, VOLVO 1.6 - 1.8 - 1.9 - 2.0 - 2.3 - 2.4 - 2.5 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**

## Kit/Tools suitable for timing



Timing tool set suitable for OPEL, RENAULT/NISSAN 2.0 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
-  ▶ Nissan: Qashqai (08-), X-Trail (07-08), Primastar (08-)
  - ▶ Engine: 2.0 dCI (chain)
  - ▶ Engine codes: M9R 780, 830, 832, 833
-  ▶ Opel: Vauxhall
  - ▶ Engine: 2.0 CDTi (chain)
  - ▶ Engine codes: M9R 780, 782, 784







**Kit/Tools suitable for timing**

**310 138 000**

## Kit/Tools suitable for timing



Timing tool set suitable for OPEL, RENAULT/NISSAN 2.0 diesel engines.

-  ▶ New updated version complete with flywheel and crankshaft locking tools.
-  ▶ Renault: Megane II, Scenic II (08) / Grand Scenic, Laguna II - III (05-09)
- ▶ Nissan: Espace (08) / Grand Espace, Koleos (08), Trafic II (07-08), Vel Satis
- ▶ Engine: 2.0 dCi (**for 2.3 dCi RENAULT/NISSAN you will also need code 310 212 010**)
-  ▶ Opel: Latitude, Quashquai (08), X-Trail (07-08), Primastar (08), Vivaro
- ▶ Engine: 2.0 dCi, 2.0 CDTi
-  Engine codes
  - ▶ All M9R engines



**Kit/Tools suitable for timing**

**310 157 000**

### + COMPLETE WITH:




310 212 010



## Kit/Tools suitable for timing



Timing tool set suitable for RENAULT/NISSAN 2.0 diesel engines.

-  ▶ New updated version that includes the flywheel locking tool and crank pulley holding tool for 1.8 and 2.0 T 16V 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 and 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, 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, S9VT
-  ▶ 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**

## Kit/Tools suitable for timing



Timing tool set suitable for RENAULT/NISSAN 1.6 diesel engines.

-  ▶ Nissan: Qashqai and Qashqai+2
- ▶ Renault: Megane, Scenic, Grand Scenic

 Engine  
▶ 1.6 dCI

 Engine codes  
▶ All R9M engines




**Kit/Tools suitable for timing**

**310 212 000**


## Locking plate



Camshaft sprocket locking plate for RENAULT/NISSAN 1.8 - 2.0 T 16V.

-  ▶ Renault: Clio II, Megane, Megane II, Megane/Scenic, Scenic/RX4, Scenic/Grand Scenic II, Laguna, Laguna II, Espace/Grand Espace, Espace/Grand Espace IV, Traffic II

 Engine  
▶ 1.8 16V and 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**


## Kit/Tools suitable for timing



Timing tools for camshaft pulleys suitable for RENAULT 1.4 - 1.6 petrol engines.

-  ▶ Renault: Clio III, Modus, Scenic II, Grand Scenic II, Laguna II, Kangoo

 Engine  
▶ 1.4 and 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**

## Belt extractor



Belt extractor of airconditioning and auxiliary system.



► Renault



**Belt extractor**

**316 010 000**



# TIMING TOOLS

SAAB

## Kit/Tools suitable for timing

NEW



Timing tool set suitable for SAAB 1.8i and OPEL 1.4 - 1.6 - 1.8 - 2.0 - 2.2 petrol engines.

- ▶ Saab: 9-3
- ▶ Engine: 1.8
- ▶ Engine codes: Z18XE
- ▶ Opel/Vauxhall: Astra, Astra-F, Astra-G, Astra-H, Calibra, Cavalier, Combo-C, Corsa-B, Corsa-C, Meriva-A, Omega-B, Signum, Sintra, Tigra, Tigra-B, Vectra-A, Vectra-B, Vectra-C, VX220/Speedster, Zafira-A, Zafira-B/Zafira Family
- ▶ Engine: 1.4, 1.6, 1.8, 2.0, 2.2
- ▶ Engine codes: X14XE, X16SEJ, X16XE, X16XEL, X18XE, X18XE1, X20XE, X22XE, Y16XE, Y22XE, Z14XE, Z16XE, Z16YNG, Z18XEL, Z20LEH, Z20LEL, Z20LER, Z20LET, Z22XE



Kit/Tools suitable for timing

310 239 000

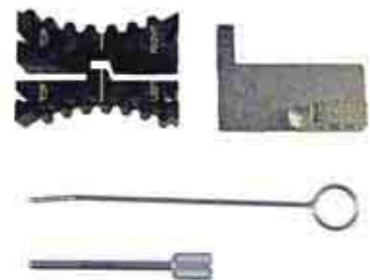
## Kit/Tools suitable for timing

NEW



Timing tool set suitable for SAAB 1.6T and OPEL 1.6 petrol engines.

- ▶ Saab: 9-5
- ▶ Engine: 1.6T
- ▶ Engine codes: LLU/A16LET
- ▶ Opel/Vauxhall: Insignia, Astra-J, Corsa-D, Corsa-D
- ▶ Engine: 1.6, 1.6 Sri/Turbo, 1.6 Turbo OPC/VXR
- ▶ Engine codes: LLU/A16LET, A16LEL, A16LER



Kit/Tools suitable for timing

310 240 000

## Kit/Tools suitable for timing

NEW



Timing tool set suitable for SAAB 1.9 - 2.0 - 2.2 TID and OPEL 1.9 - 2.0 CDTI diesel engines.

- ▶ Saab: 9-3, 9-5
- ▶ Engine: 1.9TiD, 1.9TTiD, 1.9X TTiD, 2.2TiD, 2.0TiD, 2.0TTiD
- ▶ Engine codes: A19DTR, D223L, LBS/A20DTH, LBY/A20DTR, Z19DT, Z19DTH, Z19DTR
- ▶ Opel/Vauxhall: Astra, Astra-G, Astra-H, Astra-J, Insignia, Signum, Vectra-C, Zafira-B/Zafira Family, Zafira-C Tourer
- ▶ Engine: 1.9CDTi, 2.0Bi-CDTi, 2.0Bi-CDTi ecoFLEX, 2.0CDTi, 2.0CDTi ecoFLEX, 2.0DTi
- ▶ Engine codes: LBQ/A20DTL, LBR/A20DT, LBS/A20DTH, LBX/A20DTJ, LBY/A20DTR, LCD/A20DTC, X20DTL, Y20DTH, Z19DT, Z19DTH, Z19DTJ, Z19DTL



Kit/Tools suitable for timing

310 241 000



## Kit/Tools suitable for timing

Timing tool set suitable for FCA Group 1.3 - 1.6 - 1.9 - 2.0 JTD Multijet and SUZUKI 1.3 CDTi engines.

- ▶ Suzuki: Ignis, Swift, Wagon R+  
▶ Engine: 1.3 CDTi  
▶ Engine codes: Z13DT, Z13DTH, Z13DTJ
- ▶ Alfa: 145, 146, 147, 156, 159, 166, Giulietta, MiTo  
▶ Fiat: Punto, Grande Punto, Punto Evo, Qubo, Bravo/Brava, Marea, Weekend, Stilo, Doblò/Cargo/Work up, Multipla, Strada pick up, Fiorino, Idea, Panda, Panda Classic, 500, 500C, 500L  
▶ Lancia: Ypsilon, Musa, Lybra, Thesys  
  
▶ Engine: 1.3 JTD Multijet/70, 1.3D Multijet 75/95, 1.3D Multijet 70/85/90/95, 1.6D Multijet 115/120/90/105, 1.6D JTDM 16V, 1.9D/16V/Multijet 150, 1.9D JTD/100/110/115/80/16V, 1.9D Multijet 100/120/130, 1.9D Multijet 105/140/150/90, 1.9D TD 100/75, 2.0 D Multijet 135/165, 2.0 D JTDM 16V  
▶ Engine codes: 182A7.000, 182A8.000, 182B4.000, 182B9.000, 185A2.000, 186A6.000, 186A8.000, 186A9.000, 188A2.000, **See all engine application on the instruction manual**
- ▶ Opel: Corsa, Agila, Meriva, Combo Tour, Astra, Zafira, Vectra  
▶ Engine: 1.9 CDTi, 1.3 CDTi  
▶ Engine codes: Z19DT, Z19DTH, Z19DTJ, Z19DTL, Z13DT, Z13DTH, Z13DTJ
- ▶ Ford: Ka  
▶ Engine: 1.3 D TDCi  
▶ Engine codes: 169A1.000 (FD4) / BAAA/B



**SUZUKI**

**Kit/Tools suitable for timing**

**310 107 000**

## Kit/Tools suitable for timing

Timing tool set suitable for FCA Group, SUZUKY 1.3 JTD Multijet engines.

- ▶ Suzuki: Ignis, Swift, Wagon R+  
▶ Engine: 1,3 DDIs  
▶ Engine codes: Z13DT, Z13DTH, Z13DTJ
- ▶ Fiat: 500, 500C, 500L, Panda, Panda Classic, Punto, Grande Punto, Punto Evo, Qubo, Idea, Doblo, Doblo cargo, Doblo work up, Strada pick up, Fiorino  
▶ Alfa Romeo: Mito  
▶ Lancia: Ypsilon, Musa  
▶ Engine: 1.3 JTD Multijet, 1.3D Multijet 75/95, 1.3D JTD/Multijet 70/85/90/95  
▶ Engine codes: 169A1.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 199A9.000, 199B1.000, 199B2.000, 223A9.000
- ▶ Opel: Corsa, Agila, Meriva, Combo Tour, Astra  
▶ Engine: 1.3 CDTi  
▶ Engine codes: Z13DT, Z13DTH, Z13DTJ
- ▶ Ford: Ka  
▶ Engine: 1.3 D TDCi  
▶ Engine codes: 169A1.000 (FD4) / BAAA/B



**Kit/Tools suitable for timing**

**310 075 000**





# TIMING TOOLS

TOYOTA



## Kit/Tools suitable for timing

Timing tool set suitable for TOYOTA 1.0 - 1.3 - 1.5 - 1.6 petrol engines and 1.4 - 2.0 - 2.2 diesel engines.

-  ▶ Toyota: Auris, Avensis, Avensis Verso, Picnic, SportsVan, Aygo, Corolla, Corolla Verso, CombiVan, iQ, Previa, Prius, RAV4, Urban Cruiser, Verso, Verso SportsVan, Yaris, Yaris Verso
  - ▶ Engine: 1.0, 1.4 D-4D, 1.6, 2.0 D-4D, 2.0 D-CAT, 2.2 D-4D, 2.2 D-CAT
  - ▶ Engine codes: 1CD-FTV, 1KR-FE, 1ND-TV, 1ZR-FE, 2AD-FHV, 2AD-FTV, 2WZTV
-  ▶ Daihatsu: Sirion
  - ▶ Engine: 1.0
  - ▶ Engine codes: 1KR-FE
-  ▶ Lexus: IS
  - ▶ Engine: 2.2 200d
  - ▶ Engine codes: 2AD-FTV, 2AD-FHV
-  ▶ Subaru: Justy
  - ▶ Engine: 1.0
  - ▶ Engine codes: 1KR-FE



**Kit/Tools suitable for timing**

**310 211 000**



## Kit/Tools suitable for timing

Timing tool set suitable for FCA Group, FORD, PSA Group and VOLVO 1.4 - 1.5 - 1.6 - 1.9 - 2.0 - 2.2 - 2.5 diesel engines.



- ▶ Volvo: S40 / V50
- ▶ Fiat: Ulysse, Scudo, Ducato (JTD)
- ▶ Ford: Focus, Focus C-Max, Fiesta, Fusion
- ▶ 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



- ▶ Engine  
1.4D HDi, 1.5D, 1.6D HDi, 1.9D, 2.0D HDi, 2.2D HDi, 2.5D Turbo



- ▶ Engine codes  
DV4TD (8HT), DV4TD (8HX), DV4TD (8HZ), DV4TED (8HS), TUD5/L3, VJY (TUD5/Y), VJZ (TUD5/L/L3), VJZ (TUD5/L/Y/L3), DV6ATED4 (9HX), DV6BTED4 (9HT), DV6BTED4 (9HW), DV6TED4 (9HY), DV6TED4 (9HZ), DV6TED4B (9HV), DV6UTED4 (9HU), DW8B/L4 (VJY), DW10ATED (RHS), DW10ATED (RHZ), DW10TD (RHY), DW10ATED4/L4 (RHT). **See all engine application on the instruction manual - (for Ford you will also need code 313 143 000)**



VOLVO

### Kit/Tools suitable for timing

**310 185 000**



#### COMPLETE WITH:

313 143 000





# TIMING TOOLS

VOLVO



## Kit/Tools suitable for timing

Timing tool set suitable for RENAULT/NISSAN, VOLVO 1.9 diesel engines.

-  ▶ Volvo: S40 / V40  
▶ Engine: 1.9D CDTi  
▶ Engine codes: F9Q 760/762/774
-  ▶ Renault: Mégane/Scénic, Laguna, Trafic, Twingo, Clio, Kangoo, Espace, Master  
▶ Engine: 1.9D dCi, 1.9D dTi  
▶ Engine codes: F9Q 650/660/664/670/674/680/690/730/734/740/746/748/750/751/752/754/755/758/759/770/772/774/780/782/790/800/803/804/808/812/814/818/820/826/870/872
-  ▶ Nissan: Qashqai, Kubistar, Interstar, Primera, Primastar  
▶ Engine: 1.9D dCi  
▶ Engine codes: F9Q 760/762/772/774

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**Kit/Tools suitable for timing**

**310 091 000**



## Kit/Tools suitable for timing

Timing tool set suitable for RENAULT/NISSAN, VOLVO 1.6 - 1.8 - 1.9 - 2.0 - 2.3 - 2.4 - 2.5 petrol engines - twin cams.

-  ▶ 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

Timing tool set suitable for VOLVO 1.6 - 2.0, FORD, PSA Group, LAND ROVER and MAZDA diesel engines.

-  ▶ Volvo: C30, C70, S40, S80, V50, V70  
▶ Engine: 1.6, 2.0  
▶ Engine codes: D4164T, D4164T DRIVE, D4204T, D4204T2
-  ▶ Citroën: Dispatch/Jumpy III, C4, C4 Picasso/Grand Picasso, C5 II, C5 III, C6, C8  
▶ Engine: 1.6, 2.0, 2.2  
▶ Engine codes: 9HU (DV6UTED4), 4HP (DW12BTED4), 4HR (DW12BTED4), 4HR (DW12BTED4), 4HS (DW12BTED4), 4HT (DW12BTED4), RHK (DW10UTED4), RHR (DW10BTED4)
-  ▶ Fiat: Scudo  
▶ Engine: 1.6, 2.0, 2.2  
▶ Engine codes: 9H07, 9HU (DV6UTED4), G8DA, G8DB, G8DC, G8DD, G8DE, G8DF, HHDA, HHDB, RHK (DW10UTED4), RHR (DW10BTED4)  
*See all engine application on the instruction manual*



**Kit/Tools suitable for timing**

**310 236 000**

**NEW**



**NEW**



## Kit/Tools suitable for timing

Timing tool set suitable for VOLVO, FORD 1.6 - 1.8 - 2.0 16V petrol engines.



- ▶ Volvo: C30, S40, S80, V50, V70
- ▶ Engine: 1.6 - 1.8 - 2.0
- ▶ Engine codes: B4164S3, B4184S11, B4204S3



- ▶ Ford: Fiesta, Focus C-MAX, Fusion
- ▶ Engine: 1.25, 1.4, 1.6, 1.8, 2.0, 2.3
- ▶ Engine codes: ALDA, AOBA, AODA, AODB, AOWA, ASDA, ASDB, CDBB, CGBA/B, CHBA/B, CJBA/B, CSDA, CSDB, EDDBA/C, EDBB, EDBD, EDDB, EDDC, EDDD, EDDF, EYDB, EYDC, EYDD/E, EYDF, EYDG, EYDI, EYDJ, EYPA, EYPC, F8JA, F8JB, FHA, FHD, FHE, FHF, FUJA, FUJB, FXDA/C, FXDB/D, FXJA, FXJB, FYDA/C, FYDB/D, FYJA, FYJB, GZFA, GZFB, HMDA, HWDA, HWDB, LIJ, LIL, LIN/Q, LIT, LIV, LIW, MZJA, MZJB, N4JB, NGA, NGB, NGC, NGD, QGDA, QQDB, QQDC, RKA, RKB, RKF, RKH, RKJ, RKK, SEBA, SEWA



**Kit/Tools suitable for timing**

**310 237 000**

**NEW**

## Locking tool

Crankshaft pulley holding tool suitable for VOLVO and FORD.



- ▶ Volvo: C70, S40, S60, S80, V40, V50, V60, V70, XC60, XC70, XC90
- ▶ Engine: 2.0, 2.4, 2.5
- ▶ Engine codes: B5244S4, B5244S5, B5244S7, B5254T10, B5254T11, B5254T3, B5254T5, B5254T6, B5254T7, B5254T8, D5204T, D5204T2, D5204T3, D5204T4, D5204T5, D5204T6, D5204T7, D5244T10, D5244T11, D5244T12, D5244T13, D5244T14, D5244T15, D5244T16, D5244T17, D5244T18, D5244T19, D5244T4, D5244T5, D5244T6, D5244T7, D5244T8, D5244T9, D82PHEV



- ▶ Ford: Flow
- ▶ Engine: 2.5
- ▶ Engine codes: JZDA



**Locking tool**

**310 238 000**

# TIMING TOOLS

## Kit/Tools suitable for timing



Timing tool set suitable for VW Group 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 and 1.6 16V twin cams, 1.4 and 1.6 FSI



- ▶ Engine codes
- ▶ AFH, AFK, AHV, AJV, AKQ, APE, AQG, 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



Timing tool set suitable for VW Group 1.2 - 1.4 - 1.7 - 1.9 - 2.0 - 2.5 diesel engines.



- ▶ Audi: 80, A2, A3, A3 Cabrio, A4, A4 quattro, A5, A5 Coupe/Cabriolet, A6, A6 quattro, 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, 2,5 TDi



- ▶ Engine codes
- ▶ AJM, AMF, ANU, ANY, ARL, ASZ, ATD, ATJ, ATL, AUJ, AVB, AVF, AVQ, AVX, AXB, AXC, AXR, AYZ, BAY, BDK, BGW, BHC, BHV, BJB, BKC, BKD, BKE, BKP, BLS, BLT, BMR, BMS, BMT, BNM, BNV, BPX, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSVV, BTB, BUK, BVK, BVVB, BVVV, BXE, BXF, BDJ, BLB, BMM, BMN, BMP, BMR, BNA, BPVV, BRC, BRE, BRF, BRT, BSS, BVH, BVVV, AHB, AHG, AKU, AKW, IX, IY, AAZ, ABL, AEF, AEY, AGD, AGP, AQM, ASX, ASY, AYQ, IZ, AFF, AFN, AGR, AHF, AHH, AHU, ALE, ALH, ASV, AVG, AFB






### Kit/Tools suitable for timing

310 187 000



## Kit/Tools suitable for timing

Timing tool set suitable for VW Group 1.4 - 1.6 - 1.8 - 2.0 petrol engines.

- 
  - ▶ Audi: 80, A2, A3, S3, A4, A6, TT
  - ▶ Seat: Altea, 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 and 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
  - ▶ 1F, 2E, AAC, AAE, ABF, ABM, ABS, ABT, ACE, ADA, ADL, ADP, ADR, ADY, ADZ, AEB, AEG, AEH, AEK, AFK, AFT, AGG, AGN, AGU, AHL, AHV, AJH, AJL, AJP, AJQ, AJV, AKL, AKQ, AKS, AKT, ALT, ALZ, AMK, AMU, ANA, ANB, APE, APF, APG, APK, APP, APQ, APT, APU, APX, APY, AQA, AQQ, AQX, AQY, ARC, ARG, ARM, ARR, ARX, ARY, ARZ, ATM, ATN, ATU, AUA, AUB, AUM, AUQ, AUR, AUS, AVC, AVS, AVU, AVV, AVY, AWC, AWF, AVG, AVT, AWU, AXA, AXP, AXV, AYD, AYP, AZD, AZG, AZH, AZJ, AZL, AZM, BAD, BAM, BBY, BBZ, BCA, BCB, BEH, BFQ, BFS, BFV, BGB, BGU, BKY, BLR, BLX, BLY, BMB, BPG, BPJ, BPY, BSE, BSF, BUL, BVP, BVR, BVY, BVZ, BWA, BWE, BWV, BYK, KR, PD, PL






**Kit/Tools suitable for timing**

**310 188 000**



## Kit/Tools suitable for timing

Timing tool set suitable for VW Group 1.2, 3 cylinder petrol engines.

- 
  - ▶ VW: Fox, Lupo, Polo
  - ▶ Engine: 1.2 6V, 1.2 12V
  - ▶ Engine codes: AVVY, BBM, BMD, CHFA, AZQ, BME, BZG, CGPA, CGPB
- 
  - ▶ Seat: Ibiza, Cordoba
  - ▶ Engine: 1.2 6V, 1.2 12V
  - ▶ Engine codes: BBM, AZQ, BME, BZG
- 
  - ▶ Skoda: Fabia, Roomster
  - ▶ Engine: 1.2 6V, 1.2 12V
  - ▶ Engine codes: AVVY, BBM, BMD, CHFA, AZQ, BME, BZG, CEVA, CGPA



**Kit/Tools suitable for timing**

**310 098 000**

# TIMING TOOLS

## Kit/Tools suitable for timing



Timing tool set suitable for VW Group 2.5 diesel (Pump Düse) engines.

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







**Kit/Tools suitable for timing**

**310 184 000**

## Kit/Tools suitable for timing



Timing tool set suitable for VW Group 1.2 - 1.4 - 1.6 - 1.9 - 2.0 - 2.5 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 and 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, BHW, 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, CAGA, CAGB, CAGC, CAHA, CAYA, CAYB, CAYC, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, 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, AHp, AHp, AFB, AGX, AHD, AHY, AHY, AJT, AJT, AKE, ANJ, APA, AUF, AUF, AXG, AXG, AXL, AYL, AYC, AYC, AYM, AYY, BAU, BBE, BBF, BCZ, BDG, BDH, BFC, BJJ, BJK, BJL, BJM



**Kit/Tools suitable for timing**




**310 124 000**





## Pulley locker - **ROUND**

Special crankshaft **ROUND** pulley locker for 1.2 - 1.4 - 1.6 - 1.9 - 2.0 diesel 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, AUJ, AVB, AVF, AVQ, AWX, AXB, AXC, AXR, AYZ, AZV, AHU, AFN, ANU, AUJ, BAY, BDK, BGW, BHC, BHp, BHW, BJB, BKC, BKD, BKE, BKP, BLS, BLT, BMA, BMN, BMR, BMS, BMT, BNM, BNV, BRE, BRF, BPX, BRB, BRM, BRR, BRS, BRU, BSU, BSV, BSV, BTB, BUK, BUY, BUZ, BVA, BVE, BVF, BVG, BVK, BWB, *See all engine application on the instruction manual*



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**Pulley locker**

**310 117 000**



## Pulley locker - **OVAL**

Special crankshaft **OVAL** pulley locker for 1.9 - 2.0 diesel engines.

-  ▶ Audi: A3, A4, A4 Cabrio, A4 4WD, A6
  - ▶ Engine: 1.9D TDI PD, 2.0D TDI PD
  - ▶ Engine codes: BKE, BLS, BRB, BXE, AZV, BKD, BLB, BMM, BMN, BNA, BPW, BRC, BRD, BRE, BRF, BUY, BVA, BVF, BVG
-  ▶ Seat: Alhambra, Altea/Altea XL, Leon, Toledo
- ▶ Engine: 1.9D TDI PD, 2.0D TDI PD
  - ▶ Engine codes: ARL, ASZ, ATD, AXR, BJB, BKC, BLT, BMT, BPX, BUK, BXE, BMM, BMN
-  ▶ Skoda: Octavia, Octavia II, Superb, Superb II
- ▶ Engine: 1.9D TDI PD, 2.0D TDI PD
  - ▶ Engine codes: BJB, BKC, BLS, BXE, AZV, BKD, BMM, BMP, BSS
-  ▶ VW: Bora, Caddy, Caddy Maxi, Eos, Golf, Golf Estate, Golf Plus, Jetta, Passat, New Beetle, Sharan, Touran, Transporter
- ▶ Engine: 1.9D TDI PD, 2.0D SDI, 2.0D TDI PD
  - ▶ Engine codes: AVQ, AXB, AXC, AXR, BJB, BKC, BLS, BLT, BMT, BRM, BRR, BRS, BRU, BSU, BSV, BXE, BXF, BXJ, BDJ, BST, AZV, BKD, BKP, BMA, BMM, BMN, BMP, BMR, BRT, BUZ, BVE, BVH, BVV



**Pulley locker**

**310 117 002**


# TIMING TOOLS


VW GROUP

## Kit/Tools suitable for timing



Timing tool set suitable for VW Group 1.2 - 1.4 - 1.6 - 1.9 - 2.0 diesel engines and 1.9 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, AVWX, 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, BVVB, BVVV, BXE, BXF, AZV, BDJ, BHp, BKD, BLB, B/MA, BMM, BMN, BMP, BMR, BNA, BPV, BRC, BRE, BRF, BRT, BSS, BUY, BUZ, BVA, BVE, BVF, BVG, BVH, BVV, IZ



**Kit/Tools suitable for timing**

**310 116 000**

## Kit/Tools suitable for timing



Timing tool set suitable for VW Group 1.2 - 1.4 - 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, AVWX, AXB, AXC, AXR, AYZ, AHU, AZV, BAY, BDK, BGW, BHC, BHP, BHV, 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, BVVV, BXE, BXF, IZ






**Kit/Tools suitable for timing**

**310 132 000**

## Kit/Tools suitable for timing

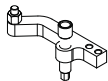


Timing tool set suitable for VW Group 1.4 - 1.6 petrol engines.

-  ▶ VW: Polo, Golf, Golf Plus, Touran, Passat, Jetta, Eos, Tiguan
- ▶ Engine: 1.4 FSI, 1.4 TSI, 1.6 16V, 1.6 FSI (chain model)
- ▶ Engine codes: AXU, BKG, BLN, BLG, BMY, BWK, CAVA, CAVB, CAVC, CAVD, CAXA, BTS, BAG, BLF, BLP
  
-  ▶ Audi: A3
- ▶ Engine: 1.6 FSI (chain model)
- ▶ Engine codes: BAG, BLF, BLP
  
-  ▶ Skoda: Octavia, Fabia, Roomster
- ▶ Engine: 1.4, 1.6 FSi (chain model)
- ▶ Engine codes: AXU, BAG, BKG, BLF, BLN, BLP



### INCLUDED:



Puller for water pump pulley.



Special extractor for crankshaft pulley.



Bush Ø 38 mm.

### Kit/Tools suitable for timing

310 126 000

## Kit/Tools suitable for timing



Timing tool set suitable for VW Group 1.4 petrol engines.

-  ▶ VW: Polo, Golf, Golf Plus, Touran, Passat, Jetta, Eos, Tiguan
- ▶ Audi: A3
- ▶ Skoda: Octavia, Fabia, Roomster
  
-  Engine
- ▶ 1.4 and 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 tool set suitable for VW Group 3.0 petrol engines.

-  ▶ Audi: A4 (01-08), A6 (01-08), A8 (03-08), Cabrio (03-08)
  
-  Engine
- ▶ 3.0 V6
  
-  Engine codes
- ▶ ASN, AVK, BBJ, BBK, BGN



### Kit/Tools suitable for timing

310 141 000

# TIMING TOOLS

## Locking tool



Locking tool for the positioning device of camshaft/tensioner on 1.8 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

- ▶ 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, AWC, AWP, AWU, AWW, AYP, BAM, BEA, BFV, BKF, BNU, BVP, BVR



Locking tool

310 133 000

## Kit/Tools suitable for timing



Timing tool set suitable for VW Group 1.2 - 1.4 - 1.6 - 1.9 - 2.0 - 2.5 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 and 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, AUA, AUB, AXP, AFH, AFN, AFK, AHW, AHU, APE, AQQ, AUS, AXP, AZD, BBY, BBZ, BCB, ANY, AYZ, AMF, ATL, BAY, BHC, BMS, BNM, BNV, BVVB, AJM, AMG, ANU, ARL, ASZ, ATD, ATJ, AUY, AVB, AVF, AVQ, AVX, AXB, AXC, AXR, BEW, BJB, BKC, BKE, BLS, BLT, 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, BWW, AZV, BKD, AWY, 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

Timing tool set suitable for VW Group 1.2 - 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, Ibiza



- Engine
- ▶ 1.2 TDi CR, 1.6 D TDi CR, 2.0 D TDi CR



- Engine codes
- ▶ CAGA, CAGB, CAGC, CAHA, CAHB, CFHC, CBAA, CBAB, CFFB, CGLA, CGLB, CJCA, CJCB, CAAA, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDB, CBDC, CCHA, CEGA, CJAA, CAAB, CAAC, CFJA, CFWA, CAYB, CAYC, CAYA



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**Kit/Tools suitable for timing**

**310 191 000**

## Kit/Tools suitable for timing



Timing tool set suitable for VW Group 1.2 - 1.4 - 1.6 petrol engines.



- ▶ Skoda: Fabia, Roomster, Octavia, Yeti
- ▶ Audi: A1, A3, A3 Cabrio
- ▶ VW: Polo, Caddy, Caddy Maxi, Golf, Golf Plus, Golf Estate, Touran, Jetta, Golf VI Cabrio, Tiguan, Passat, Scirocco, Eos, Sharan, Beetle
- ▶ Seat: Alhambra, Cordoba, Ibiza



- Engine
- ▶ 1.2 TSI, 1.4 FSI, 1.4 TSI, 1.6 and 1.6 FSI



- Engine codes
- ▶ CBZA, CBZB, CBZC, AXU, BKG, BLN, BLG, BMY, BWK, CAXA, CAVA, CAVB, CAVC, CAVD, BAG, BLF, BLP, BTS, CFNA



**Kit/Tools suitable for timing**

**310 207 000**



# TIMING TOOLS

## Kit/Tools suitable for timing



Timing tool set suitable for VW Group 2.5 petrol engines.

- ▶ Audi: RS3, TT
- Engine  
▶ 2.5 TFSI
- Engine codes  
▶ CEPA



**Kit/Tools suitable for timing**

**310 214 000**

## Kit/Tools suitable for timing



Timing tool set suitable for VW Group 2.7 - 3.0 - 4.0 - 4.2 diesel engines.

- ▶ Audi: A4, A5, A6, A8, Q5, Q7  
▶ VW: Touareg, Phaeton
- Engine  
▶ 2.7 - 3.0 - 4.0 - 4.2 TDI CR
- Engine codes  
▶ BPP, BSG, CANA/B/C/D, ASB, BKN, CAPA, BNG, BUG, ASE, BMK, CARA, BKS, BUN, CASA/B/C, CAMA/B, CGKA/B, CCWB/A, CCLA, CDYA/B/C, BVN, BTR



**Kit/Tools suitable for timing**

**310 215 000**

## Kit/Tools suitable for timing



Timing tool set suitable for VW Crafter 2.5 Tdi.

- ▶ VW: Crafter
- Engine  
▶ 2.5 TDI - 2.5 TDI CR
- Engine codes  
▶ BJJ, BJK, BJM, BJL, CEBA, CEBB, CECA, CECB



**Kit/Tools suitable for timing**




**310 235 000**

## Kit/Tools suitable for timing

**NEW**



Timing tool set suitable for VW Group 1.0 petrol engines.

-  ▶ VW: Up, Polo
- ▶ Seat: Mii
- ▶ Skoda: Citigo, Fabia
  
-  Engine
- ▶ 1.0, 1.0 Bluemotion Technology, 1.0 Ecofuel, 1.0 Ecomotive, 1.0 Green Tech
  
-  Engine codes
- ▶ CHYA, CHYB, CPGA



**Kit/Tools suitable for timing**




**310 224 000**

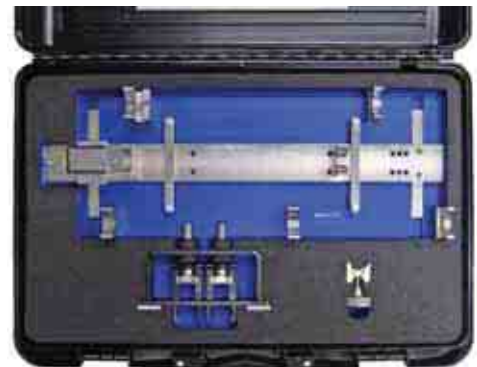
## Kit/Tools suitable for timing

**NEW**



Kit for the timing of the balance shafts of VW 1.2-1.6-2.0 TDI CR engines.

-  ▶ 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, Ibiza
  
-  Engine
- ▶ 1.2 TDI CR, 1.6 D TDI CR, 2.0 D TDI CR
  
-  Engine codes
- ▶ CAGA, CAGB, CAGC, CAHA, CAHB, CFHC, CBAA, CBAB, CFFB, CGLA, CGLB, CJCA, CJCB, CAAA, CBAA, CBAB, CBAC, CBBA, CBBB, CBDA, CBDDB, CBDC, CCHA, CEGA, CJAA, CAAB, CAAC, CFJA, CFVA, CAYB, CAYC, CAYA



**Kit/Tools suitable for timing**

**310 233 000**

## Kit/Tools suitable for timing

**NEW**



Timing tool set suitable for VW Group 1.6 - 2.0 TDI CR (from 2012).

-  ▶ Audi: A3 Cabrio, A3 Saloon, A3 Sedan, A3/A3 Sportback, A4, A4 allroad, A4 quattro, A5 Coupe/Cabriolet, A5 Sportback, A6, Q5, TT
- ▶ Seat: Leon, Leon ST
- ▶ Skoda: Octavia III
- ▶ VW: Golf SV/Sportsvan, Golf VII, Golf VII Estate, Golf VII Wagon, Polo
  
-  ▶ Engine: 1.4TDI CR, 1.6TDI CR, 1.6TDI CR BlueMotion, 1.6TDI CR BlueMotion Technology, 1.6TDI CR Ecomotive, 1.6TDI CR GreenLine, 2.0GTD CR, 2.0RS TDI CR, 2.0TDI CR, 2.0TDI CR BlueMotion Technology, 2.0TDI CR Ultra, 2.0vRS TDI CR
  
-  Engine codes
- ▶ CKFB, CKFC, CLHA, CLHB, CNHA, CNHC, CRBC, CRBD, CRFA, CRFC, CRKA, CRKB, CRLB, CRIC, CRMB, CRVA, CRVC, CSUA, CSUB, CUNA, CUPA, CUSA, CUSB, CUTA



**Kit/Tools suitable for timing**

**310 246 000**

## Camshafts locking tools



Camshafts locking tools suitable for 1.2 petrol engines.



- ▶ VW: Polo, Caddy, Caddy Maxi, Golf, Golf plus, Golf estate
- ▶ Audi: A1
- ▶ Engine: 1.2 TSI
- ▶ Engine codes: CBZA, CBZC



- ▶ VW: Touran, Caddy, Caddy maxi, Golf, Golf plus, Golf estate, Jetta, Golf VI cabrio
- ▶ Audi: A3, A3 cabrio
- ▶ Engine: 1.2 TSI
- ▶ Engine codes: CBZB



**Camshafts locking tools**

**310 202 000**

## Belt tensioner



Belt tensioner.



- ▶ VW
- ▶ Audi
- ▶ Skoda
- ▶ Seat



**Belt tensioner**

**313 225 000**

## 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 engines with air-conditioning system.



- ▶ VW
- ▶ Audi



**Damper lock**

**313 033 000**



## Belt tensioner

Short belt tensioner for petrol and diesel engines.

-  ▶ VW
- ▶ Audi
- ▶ Skoda
- ▶ Seat



**Belt tensioner**

**313 230 000**



## Belt tensioner

Belt tensioner for diesel engines.

-  ▶ VW
- ▶ Audi
- ▶ Skoda
- ▶ Seat



**Belt tensioner**

**313 231 000**



## Belt tensioner

Long belt tensioner for petrol and diesel engines.

-  ▶ VW
- ▶ Audi
- ▶ Skoda
- ▶ Seat



**Belt tensioner**

**313 229 000**







# DIESEL TOOLS



# INJECTORS

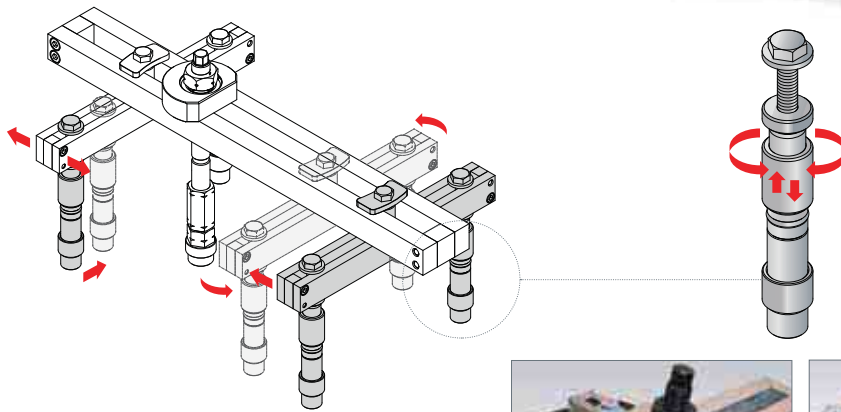
Universal



## Injectors extractor mechanical kit

Universal mechanical complete set suitable for removing injectors.

-  ▶ Specific for disassembling very locked injectors.
-  ▶ Often, the injector is locked in its seat due to fouling caused by burning and can not be removed without a proper tool.
- ▶ The advantage of the supporting feet adjustment, on the fixing screws of the head, ensures its use in different levels (right and left); as well as the possibility to adjust the slippage of the two side bars. The adjustment, therefore, takes place both in height and width according to the conformity of the engine head.



MasterKIT



Injectors extractor mechanical kit (CYLINDER NOT SUPPLIED)

311 166 010

### + COMPLETE WITH:

271 004 000



270 019 000



12 TON

270 020 000



20 TON

270 022 000 - MECHADRAULIC

12 TON



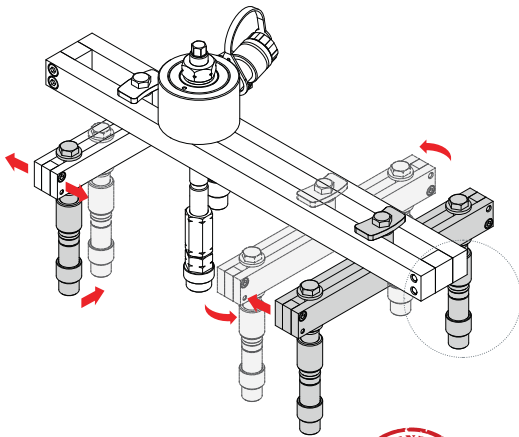


## Injectors extractor kit WITH HYDRAULIC CYLINDER

Universal complete set complete with hydraulic cylinder suitable for removing injectors.

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

- i** ▶ Hydraulic cylinder: 12 Tons, 700 bar, 3/8" NPT F connection.
- ▶ HYDRAULIC AND MECHANICAL WORKING**
- GL** ▶ The kit is suitable for the extraction of numerous models of injectors specifically M17x1 for Bosch, M14x1 for Delphi models, Toyota with adapter M16x1, M20x1 used for the extraction of Denso injectors and finally M25x1 and M27x1 for Siemens.
- ▶ This kit can be used directly on the vehicle, with the engine mounted; its mechanical operation in fact, allows it to be used in confined spaces or in the far back position near the passenger compartment. The hydraulic application, reaches its maximum effectiveness in situations in which the injector is strongly seized up.
- ▶ The advantage of the supporting feet adjustment, on the fixing screws of the head, ensures its use in different levels (right and left); as well as the possibility to adjust the slippage of the two side bars. The adjustment, therefore, takes place both in height and width according to the conformity of the engine head.



*Master* KIT



Injectors extractor kit WITH hydraulic cylinder

311 166 000



COMPLETE WITH:

271 004 000



# INJECTORS

Universal



## Injectors extractor kit

Universal complete set suitable for removing injectors.

- ▶ Injectors: Bosch, Delphi
  - ▶ Mercedes
  - ▶ Volvo
  - ▶ Ford
  - ▶ Renault
  - ▶ Kia
  - ▶ Truck
- ▶ Body hammer
  - ▶ 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
  - ▶ Slot  $\varnothing$  16 mm (+0.1; +0.2)



**ADVANCED** KIT

follow us on YouTube



Injectors extractor kit

311 026 000

### + COMPLETE WITH:

311 062 000



311 072 010



311 026 039



311 026 031



311 191 000






## Injectors extractor kit

**Universal**



Universal kit for Common Rail diesel injector removal.

-  ▶ This kit allows technicians to work safely and efficiently on the vehicle; injectors are removed from their seats. Obviously the slide hammer needs space to work and has a remarkable removal force on the injector
-  ▶ Double mounting system (internal/external) for Bosch injectors
- ▶ Removal may also be carried out with fork tools, therefore without opening the injector, as for Siemens and Bosch
- ▶ The ARTICULATED JOINT included in the kit allows operating in cramped space that requires aligned intervention.
-  ▶ Injectors: Bosch (GM 2.2L included), Siemens (PIEZO V2 included), Delphi



**ADVANCED** KIT

follow us on **YouTube**



Configuration for aligned intervention

Configuration with articulated joint



**Injectors extractor kit**

**311 185 000**

**+ COMPLETE WITH:**

311 191 000





## Injectors extractor kit

**Universal**



Universal kit for injector removal, equipped with pliers and slide hammer.

-  ▶ This kit allows injector removal with two distinct procedures. Use the pliers with holding arms perfectly fitting to the shape of the injector or use the articulated joint adapter and the pivot, that has to be screwed to the fitting of the Common Rail duct
- ▶ **This operation may be carried out without disassembling the injector head**
-  ▶ Injectors: Denso, Bosch, Siemens, Delphi



**X-VALUE** KIT

follow us on **YouTube**



Use with pliers



Use with articulated joint

**Injectors extractor kit**

**311 184 000**

**+ COMPLETE WITH:**

311 179 003





# INJECTORS



## Injectors extractor kit

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 and M57TU



**Injectors extractor kit**

**311 055 015**

## Injectors extractor kit



Complete set for removing injectors.

- ▶ This kit allows the removal of the tightly fixed injectors nozzles, without dismounting the cylinder head. It is equipped with a „bridge system“ and sliding bearing on it that grant a quick and easy injector's removal. The special screw has a double connection to fix inside and outside the injector.
- ▶ Fiat 1.3 MJ 16V
  - ▶ Engine codes: 169A1.000, 188A8.000, 188A9.000, 199A2.000, 199A3.000, 223A9.000
- ▶ Opel 1.3 CDTI
  - ▶ Engine codes: Z13DTH, Z13DTJ, Z13DT
- ▶ Suzuki 1.3 DDiS 16V
  - ▶ Engine codes: Z13DT



**Injectors extractor kit**

**311 083 000**



**COMPLETE WITH:**

311 026 040



720 029 000



FCA



## Injectors extractor kit

Complete set for removing injectors for IVECO DAILY 2.3 - 3.0 MJ.

- Complete with main bridge-bar, hexagonal wrench 10 mm and sockets CH.29 and CH.30. The kit CANNOT BE USED to remove BOSCH PIEZO injectors.
- Iveco: Daily
- Engine
  - ▶ 2.3 L Common Rail, 3.0 L Common Rail EEV



**Injectors extractor kit**

**311 143 000**

### + COMPLETE WITH:

311 026 040



720 029 000



720 030 000



## Injectors extractor kit

FCA



Complete set for removing BOSCH injectors assembled on FCA Group diesel engines.

- Double application: in line with injectors as like as on 1.3 MJ engine, with simultaneous extraction of two injectors; or with complete bridge frame and adjustable positioning.
- The adjustable positioning of the frame side bars allows to set the tool according to the compliance of the cylinder head, thus ensuring the possibility to use it on all engines DOHC (Double Over Head Camshaft) of FCA Group. Flexible both for mechanical usage and hydraulic application; thanks to the special long screws (included), the kit can be used combined with our hydraulic cylinders 12 and 20 Tons, and also in combination with our hydraulic pump 700 bar.
- Engine: 1.3, 1.6, 1.9, 2.0, 2.4 MJET - JTDM - CDTi - TiD



Bridge frame application



In-line application



Ideal for hydraulic use

**Injectors extractor kit**

**311 183 000**

### + COMPLETE WITH:

271 004 000



270 019 000



12 TON

270 020 000



20 TON

270 022 000 - MECHADRAULIC

12 TON






# INJECTORS

## Injectors extractor kit

MERCEDES



Complete set for removing injectors.

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



Injectors extractor kit

311 049 000

## Injectors extractor kit

MERCEDES



Complete set for removing injectors for MERCEDES 2.1 L, 2.2 L, 3.0 V6 and CHRYSLER.




-  ▶ 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. **ENGINE REMOVAL NOT REQUIRED.**
-  ▶ Injectors: Bosch (2.1 l, 2.2 l), Delphi (3.0)
-  ▶ Mercedes: Vito, Vario, CLK, Sprinter, Viano, Classe M, GL, C, GLK, E, CLS, S, R, G
  - ▶ Engine: 2.1 l, 2.2 l, 3.0 V6
  - ▶ Chrysler: 300 C
  - ▶ Engine: 3.0 V6

Image of the extractor for engines 4 - 5 cylinders



Image of the extractor for engines 6 cylinders

follow us on YouTube



Injectors extractor kit

311 171 000

## Injectors extractor kit

**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



**Injectors extractor kit**

**311 032 000**

## Injectors extractor kit

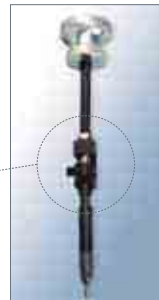
**MERCEDES**



Complete set for removing Piezoelectric, DELPHI PIEZO and DELPHI DFI 1.5 injectors.

▶ Set to be used for burnt injectors removal.

▶ Injectors: Piezoelectric  
▶ Models: Mercedes  
▶ Engine: 2.1 CDI  
▶ Engine codes: OM 651



▶ Injectors: DELPHI PIEZO and DELPHI DFI 1.5 (Euro 5)  
▶ Injector codes: EMBR, E]BR (cars) and E]DR (commercial vehicle)  
▶ Models: Daimler, Hyundai and Kia



**Injectors extractor kit**

**311 179 000**

## Injectors extractor kit

**PSA**



Complete set for removing on PSA Goup 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  
▶ Citroën  
▶ Fiat, 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

PSA



## Injectors extractor kit

Complete set for removing on PSA Group HDI injection nozzles.

- ▶ This kit allows the removal of tightly fit injectors nozzles **WITHOUT REMOVING THE CYLINDER HEAD.**
- ▶ Injectors: Bosch, Siemens
- ▶ Engine: PSA Group 2.0 (110, 135 PS) HDI DW10 and DW12
- ▶ Bridge-bar that fits perfectly PSA Group cylinder heads.
- ▶ Special screw system, that allows a fast and easy nozzles removal
- ▶ Blower to clean injectors seats



**Injectors extractor kit**

**311 056 014**

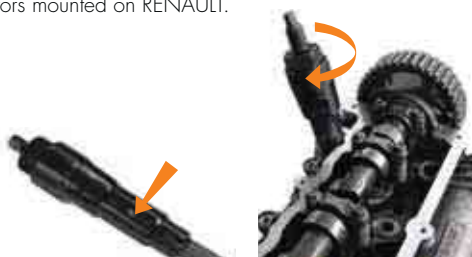
RENAULT



## Injectors extractor kit

Complete puller suitable for DELPHI injectors mounted on RENAULT.

- ▶ Injectors: Delphi
- ▶ Renault, Nissan
- Engine
- ▶ 1.5 dCI, less than 105 Hp



**Injectors extractor kit**

**311 071 000**

RENAULT



## Injectors extractor kit

Complete set for removing RENAULT dCI injection nozzles.

- ▶ This kit allows the removal of the tightly fixed injectors nozzles without dismounting the cylinder head. It is equipped with a bracket and 6 special screws that grant a quick and easy injectors removal. With this device injectors can be removed simultaneously.
- ▶ Injectors: Bosch
- ▶ Renault, Nissan, Opel
- ▶ Engine: 2.0 (Renault), 2.2, 2.5 dCI
- ▶ Engine codes: G9T, G9U



**Injectors extractor kit**

**311 070 000**



**COMPLETE WITH:**

311 110 000









**RENAULT**



## Injectors extractor kit

Complete set for removing RENAULT dCI and Master injection nozzles.  
**UPDATED WITH SPECIAL SUPPORTS FOR 2.0 DCI M9R ENGINES.**

-  ▶ This kit allows the removal of the tightly fixed injectors nozzles without 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 (Renault), 2.2, 2.5 dCI
-  Engine codes
  - ▶ G9T, G9U



**Injectors extractor kit**




**311 090 000**

**RENAULT**



## Injectors extractor kit

Injector removal with a mechanical screw system, to reduce the overall dimension of the tool.  
**ENGINE REMOVAL NOT REQUIRED**

-  ▶ Injectors: Bosch
- ▶ Renault
- ▶ Nissan
- ▶ Opel
-  Engine
  - ▶ 1.9 dCI
-  Engine codes
  - ▶ F9Q



**Injectors extractor kit**




**311 140 000**

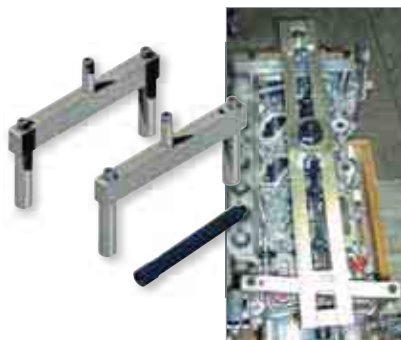
**RENAULT**



## Support for injectors

Special engine supports.

-  ▶ Renault
- ▶ Bosch
- ▶ Piezo
-  Engine
  - ▶ 2.0 dCI
-  Engine codes
  - ▶ M9R



**Support for injectors**

**311 110 000**

# INJECTORS

SSANGYONG



## Injectors extractor kit

Complete set for removing DELPHI injectors.

- ▶ Models: Ssangyong and Mercedes
- ▶ Engine: 2.7 CDI
- ▶ Models: Kia and Mazda
- ▶ Engine: Common Rail
- ▶ Socket: 21 mm - L=90 mm



**Injectors extractor kit**

**311 064 000**

TOYOTA



## Injectors extractor kit

Complete set for removing DENSO injectors, complete with hammer.

- ▶ System studied to remove injectors independently from the engines, where they are mounted.
- ▶ Carry out the removal operation by connecting the extractors to injector edges, it is therefore not necessary to disassemble the upper part of it and this guarantees ist operation
- ▶ Denso injectors: 23670 - 30080; MB416600 - MB40A; 5870 - 13H50B; 11L 12182; 23670 - 26011; 23670 - 0R050; 10J 06798
- ▶ Models: Toyota; Nissan; Mazda; Opel/Vauxhall; Lexus



**Injectors extractor kit**

**311 169 000**

VW



## Injectors extractor kit

Complete set for removing injectors, complete with handle, slide hammer and a special vice clip.

- ▶ Specially designed for Injector Pump system.
- ▶ VW injector Pump System and tradiitional injectors
- ▶ Engine
- ▶ TDI-PD



**Injectors extractor kit**

**311 050 006**

## Injectors extractor kit



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
- ▶ VW Group

-  Engine
- ▶ FSI



**Injectors extractor kit**

**311 141 000**

## Injector removal socket



Special socket for removing injector electrical connector.

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

-  ▶ Bosch



**Injector removal socket**

**720 029 000**

## Injector removal socket



Special socket for removing injector electrical connector.

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

-  ▶ Bosch



**Injector removal socket**

**720 030 000**

## Injector removal socket



Special socket for removing injector electrical connector.

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

-  ▶ Siemens



**Injector removal socket**

**720 031 000**

# INJECTORS

SIEMENS



## Injector removal socket

Special socket for removing injector electrical connector.

- i** ▶ Size: CH.27
  - ▶ Length: 78 mm
  - ▶ Connection: 1/2"
- car** ▶ Injectors: Siemens



Injector removal socket

720 032 000

BOSCH



## Injector removal socket

Special socket for removing injector electrical connector.

- i** ▶ Size: CH.28
  - ▶ Length: 78 mm
  - ▶ Connection: 1/2"
- car** ▶ Injectors: Bosch



Injector removal socket

720 033 000

BOSCH



## Tool for injector spindle

Special tool suitable for removing the injector spindle.

- car** ▶ Injectors: Bosch
- i** ▶ CH.10 mm



Tool for injector spindle

311 026 040

## Injector pipe removal socket

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

- i** ▶ Size: 17 mm
  - ▶ Length: 80 mm
  - ▶ Connection: 3/8"
- i** Engine
  - ▶ Diesel



Injector pipe removal socket

311 104 000

**SIEMENS**



## Injectors extractor kit

Special kit suitable for removing SIEMENS injectors on diesel engines.



- ▶ Injectors: Siemens
- ▶ Peugeot, Citroën, Ford, Toyota



- ▶ Engine
- ▶ 1.4 - 2.0 - 2.2 diesel



**Injectors extractor kit**

**311 062 000**

**SIEMENS**



## Injectors socket

Socket for SIEMENS, PIEZO.



- ▶ Injectors: Siemens, Piezo



- ▶ M27x1 - M18x1,5



**Injectors socket**

**311 072 010**

## Joint for slide hammer

Universal joint to be used with slide hammer.



- ▶ Ideal for working also in case of narrow places.



**Joint for hammer**

**311 026 039**

## Socket **M18** for slide hammer

M17x0,75 socket to be used with slide hammer.



- ▶ Opel



- ▶ Engine:
- ▶ 2.2 diesel



**Socket M18**

**311 026 031**



# INJECTORS

MERCEDES



## Injectors extractor kit

Fork extractor with adapter M18X1,5 - M12 for removing Piezoelectric, DELPHI PIEZO and DELPHI DFI 1.5 injectors. **SLIDE HAMMER IS NOT SUPPLIED.**

- ▶ Injectors: Piezoelectric
  - ▶ Models: Mercedes
  - ▶ Engine: 2.1 CDI
  - ▶ Engine codes: OM 651
- 
- ▶ Injectors: DELPHI PIEZO and DELPHI DFI 1.5 (*Euro 5*)
  - ▶ Injector codes: EMBR, EJBR (*cars*) and EJDR (*commercial vehicle*)
  - ▶ Models: Daimler, Hyunday and Kia



Injectors extractor kit

311 179 003

## Injectors extractor kit

BOSCH

DELPHI



Hydraulic kit for removing injectors. **THE PUMP TO BE USED WITH THE HYDRAULIC CYLINDER IS NOT SUPPLIED.**

- ▶ 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

+ COMPLETE WITH:

271 004 000




12 TON



## Hydraulic cylinder

Hydraulic cylinder **12 TONS - STROKE 8.**

 ▶ 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. **A long screw to be used while using hydraulic cylinders.**

-  ▶ Connection: 3/8" -18 NPT  
▶ Power: 117'679,8 N  
▶ Stroke: 8 mm  
▶ Dimensions: Ø 80x55 mm  
▶ Pressure: 700 Bar  
▶ Weight: 2,02 Kg  
▶ Hole: Ø 21,5



Hydraulic cylinder


270 019 000


17 TON



## Hydraulic cylinder

Hydraulic cylinder **17 TONS - STROKE 70.**

 ▶ Device to be used for removing 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. **A long screw to be used while using hydraulic cylinders.**

-  ▶ Connection: 3/8" -18 NPT  
▶ Power: 166'713,05 N  
▶ Stroke: 70 mm  
▶ Dimensions: Ø 90x155 mm  
▶ Pressure: 700 Bar  
▶ Weight: 5,12 Kg  
▶ Hole: Ø 20,4 mm  
▶ Outside connection thread: 2 3/4-16 UN



Hydraulic cylinder


270 017 000

20 TON



## Hydraulic cylinder

Hydraulic cylinder **20 TONS - STROKE 8.**

 ▶ 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. **A long screw to be used while using hydraulic cylinders.**

-  ▶ 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

## Mechadraulic cylinder

12 TON



Mechadraulic cylinder **12 TONS - STROKE 8.**



▶ Device to be used for removing injectors. Small sizes allows its application directly on the vehicle, therefore it is not necessary to remove the engine.



- ▶ Power: 117'679,8 N
- ▶ Stroke: 8 mm
- ▶ Dimensions: Ø 80x55 mm
- ▶ Driving torque: 67Nm
- ▶ Pressure: 700 Bar
- ▶ Weight: 2,5 Kg
- ▶ Hole: Ø 21,5
- ▶ Use temperature: -10°C ÷ 65°C
- ▶ Recommended viscosity of the fluid: -15÷100 mm<sup>2</sup>/s



**Mechadraulic cylinder**

**270 022 000**

## Hydraulic cylinder

17 TON



Hydraulic cylinder **17 TONS - STROKE 43.**



▶ The mechanical specifications, the shape and the dimensioning for which it was designed, make the cylinder useful for a wide range of functions in the motor field, such as:

- Removal and introduction of wheel hubs
- Disassembly and assembly of bearings
- Removal and introduction of silentblock
- General use in the loosening of very tight mechanical components



- ▶ As simple effect for the use in thrust, with recovery
- ▶ Nickel-plated piston at high resistance
- ▶ A long screw is necessary for the use of the cylinder
- ▶ Hydraulic connection with female fast joint and dust protection cap



- ▶ Power: 166.713,05 N - 17 TON
- ▶ Stroke: 43 mm
- ▶ Dimensions: Ø 90 x 155 mm
- ▶ Pressure: 700 Bar
- ▶ Weight: 4 kg
- ▶ Use temperature: 10°C ÷ 65°C
- ▶ Recommended viscosity of the fluid: -15÷100 mm<sup>2</sup>/s
- ▶ Outside connection thread: 2 3/4-16 UN



**Hydraulic cylinder**



**270 025 000**

**32 TON**



## Hydraulic cylinder

Hydraulic cylinder **32 TONS - STROKE 50**.  
**THE PUMP TO BE USED WITH THE HYDRAULIC CYLINDER IS NOT SUPPLIED.**

-  ▶ Device to be used for removing hubs, and for all the other applications where it can be used, such as mechanical parts very tighten. Version with cylinder 32 ton, stroke 50 mm. **A long screw to be used while using hydraulic cylinders.**
-  ▶ Connection: 3/8" -18 NPT
- ▶ Power: 319.511,7 N - 32 TON
- ▶ Stroke: 50 mm
- ▶ Dimensions: Ø 100 X 185 mm
- ▶ Pressure: 700 Bar
- ▶ Weight: 5,3 Kg
- ▶ Hole: Ø 39,3
- ▶ Use temperature: 10°C ÷ 65°C
- ▶ Outside connection thread: 2 3/4-16 UN
- ▶ External diameter: Ø 87,1
- ▶ Recommended viscosity of the fluid: -15÷100 mm<sup>2</sup>/s





**Hydraulic cylinder**

**270 024 000**

## Hydraulic handpump

700 Bar hydraulic hand pump - in aluminium with ergonomic handle.

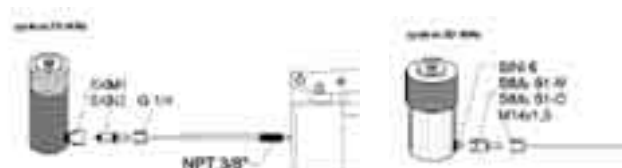
-  ▶ Working pressure: 400-700 Bar
  - ▶ Max. force 700 bar: 46 Kg
  - ▶ Operation: Mechanic with a lever
  - ▶ Speed/stroke: Single
  - ▶ Oil tank capacity: 700 cm<sup>3</sup>
  - ▶ Quantity of useful oil: 500 cm<sup>3</sup>
  - ▶ Weight with oil: 4,3 Kg
  - ▶ Internal pressure relief valve: 700 Bar
  - ▶ Dimensions (LxDxH): 353x150x171 mm
  - ▶ Pump material: Aluminium
-  **ACCESSORIES INCLUDED**
- ▶ Tube: L=1,80m
  - ▶ Pipe connection: 3/8" NPT MALE
  - ▶ Fast nipple: NIPPLE MALE 3/8"



-  ▶ Compact, Ergonomic and Light Design



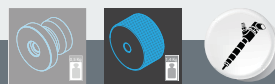
**THE HYDRAULIC CYLINDER TO BE USED WITH THE PUMP IS NOT SUPPLIED.**



**Hydraulic handpump**



**271 004 000**

# INJECTORS



## Ring extractor

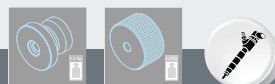
Copper sealing ring extractor.

-  ▶ With this extractor is possible to remove copper sealing without damaging the cylinder head. Equipped with a performing slide hammer.
-  ▶ For washers with holes  $\varnothing$  7 mm
- ▶ Operation with a striking hammer of 0.5 Kg.




**Ring extractor**

**311 076 000**



## Copper washer puller for injectors

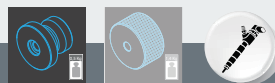
Washer removal tool for diesel injectors.

-  ▶ For easily and safely removal of copper washers glued on the bottom of the injector seat.




**Copper washer puller for injectors**

**311 076 029**



## Tool with slide hammer for injector washer removal

It includes a slide hammer for removal of diesel injector washers.

-  ▶ For easily and safely removal of copper washers glued on the bottom of the injector seat.
- ▶ Operation with a striking hammer of 1.4 Kg.






**Tool with slide hammer for injector washer removal**

**311 076 030**



## Ring extractor

Copper sealing ring extractor **SPECIFIC FOR TRUCK.**

-  ▶ 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  $\varnothing$  10 mm
- ▶ Operation with a striking hammer of 0.5 Kg.



**Ring extractor**

**311 144 000**





**Universal**



Injector cleaning and milling kit

Universal injector seat cleaner and milling kit.

-  ▶ Kit to be used for removing the combustion residues that remain in the injectors seat **WITHOUT ANY DAMAGES**.
-  ▶ The brushes allow the cleaning of the walls, of the base and of the inlet conduct into the combustion chamber of the injectors seat.
- ▶ With the use of brushes is to create a contact area smooth, shiny and straight to the injector capable of ensuring a waterproof seal.
- ▶ The usage of the drills renews perfectly the closure surface of the injector; following this operation the replacement of the copper washer is necessary to grant a better seal.



*Master* **KIT**



**Injector cleaner and milling kit**

**311 127 000**

**BOSCH**




**DELPHI**

**SIEMENS**



Injector seat cleaning kit

Set of tools suitable for Injectors seat cleaning.

-  ▶ Injectors: Bosch
- ▶ Engine: CDI
-  ▶ Injectors: Siemens
- ▶ Engine: 1.4, 2.0, 2.2 diesel
-  ▶ Injectors: Delphi

**ADVANCED** **KIT**



**Injector seat cleaning kit**

**311 047 025**

Injector seat cleaning tool Ø 15,5 - BOSCH (laser marking 311 078 004)

Injector seat cleaning tool Ø 17 - SIEMENS (laser marking 311 079 004)

Injector seat cleaning tool Ø 17 - DELPHI (laser marking 311 079 002)

Injector seat cleaning tool Ø 17/19 - BOSCH (laser marking 311 078 005)

# INJECTORS

BOSCH

SIEMENS



## Injector seat cleaning kit

Set of tools suitable for injectors seat cleaning.

- ▶ Injectors: Bosch
- ▶ Engine: CDI
- ▶ Injectors: Siemens
- ▶ Engine: 1.4, 2.0, 2.2 diesel

KIT  
**X-VALUE**

### Injector seat cleaning kit

311 047 017

Injector seat cleaning tool Ø 15,5 - BOSCH (laser marking 311 078 004)

Injector seat cleaning tool Ø 17 - SIEMENS (laser marking 311 079 004)

Injector seat cleaning tool Ø 17/19 - BOSCH (laser marking 311 078 005)



BOSCH

SIEMENS



## Injector seat cleaning kit

Set of tools suitable for Injectors seat cleaning.

- ▶ Injectors: Bosch
- ▶ Engine: CDI
- ▶ Injectors: Siemens
- ▶ Engine: 1.4, 2.0, 2.2 diesel

### Injector seat cleaning kit

311 047 014

Injector seat cleaning tool Ø 15,5 - BOSCH (laser marking 311 047 013)

Injector seat cleaning tool Ø 17 - SIEMENS (laser marking 311 063 000)



BOSCH



## Injector seat cleaning kit

Set of tools suitable for injectors seat cleaning.

- ▶ Injectors: Bosch
- Engine
- ▶ CDI



### Injector seat cleaning kit

311 047 000

Injector seat cleaning tool Ø 15,5 - BOSCH (laser marking 311 047 013)



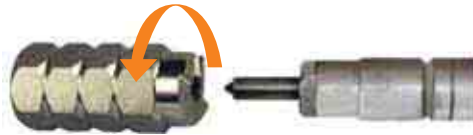
**Universal**



## Injector edge cleaning tool

Special tool for injector edge resurfacing.

- ▶ Injectors: Universal



**Injector edge cleaning tool**

**311 047 023**

**BOSCH**



## Injector seat cleaning tool

Special tool for injector seat resurfacing.

- ▶ Injectors: Bosch

- ▶ Ø 15,5 mm



**Injector seat cleaning tool**

**311 047 016**

**BOSCH**



## Injector seat cleaning tool

Special tool for injector seat resurfacing.

- ▶ Injectors: Bosch

- ▶ Ø 17 - 19 mm



**Injector seat cleaning tool**

**311 078 015**

**BOSCH**



## Injector seat cleaning kit

Injector seat resurfacing kit.

- ▶ Damages on the injector seat are avoided;
- ▶ Without this tool it is extremely dangerous to do the job without damaging the injector seat.

- ▶ Injectors: Bosch

- ▶ Ø 15,5 - 17 - 19 mm



**Injector seat cleaning kit**

**311 078 000**

# INJECTORS

DENSO



## Injector seat cleaning tool

Special tool for injector seat resurgacing.

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

- ▶ Ø 17 - 19 mm



Injector seat cleaning tool

311 112 000

DELPHI



## Injector seat cleaning tool

Special tool for injector seat resurgacing.

- ▶ Injectors: Delphi

- ▶ Ø 17 mm



Injector seat cleaning tool

311 079 008

DELPHI

SIEMENS



## Injector seat cleaning kit

Injector seat resurgacing kit.

- ▶ Injectors: Siemens, Delphi

- ▶ Ø 17 mm



Injector seat cleaning kit

311 079 000

SIEMENS



## Injector seat cleaning tool

Special tool for injector seat resurgacing.

- ▶ Injectors: Siemens

- ▶ Engine
- ▶ 1.4, 1.6, 2.0, 2.2 HDI



Injector seat cleaning tool

311 056 008

## Blowing tool



Special blowing tool for injector seat. **TO BE USED with codes 311 078 000 and 311 079 000.**

- Thread size: M10, M8



**Blowing tool**

**311 080 000**

## Injector seat cleaning kit



Injector seat cleaning tool for VW Group 2.0 TDI PD engines.

- Tool for the injector seat reconstruction and cleaning in the cylinder head of VW 2.0 TDI PD motors.
- Audi, VW, Seat, Skoda
- Engine: 2.0 TDI  
Engine codes: BKD

BEFORE



AFTER



**Injector seat cleaning kit**

**311 186 000**

## Socket for injection pump



Special socket for triangle bolt removal on BOSCH diesel injection pump (Up to year 2000)

- The socket is required to loosen and remove the triangle-headed anti-tamper bolt on injection pump in case of leaks of fuel: whether the screw is leaky it's necessary to remove it and change the rubber seal ring.



**Socket for injection pump**

**311 168 004**





# INJECTORS

## Sockets for injection pump



Sockets for special screws removal mounted on the BOSCH CR and BOSCH TDI injection pump.

-  ▶ The sockets are required to loosen and remove the triangular headed anti-tamper screw on the quantity adjuster's top cover
-  ▶ Bosch CR
- ▶ Bosch TDI





**Sockets for injection pump**

**311 168 000**



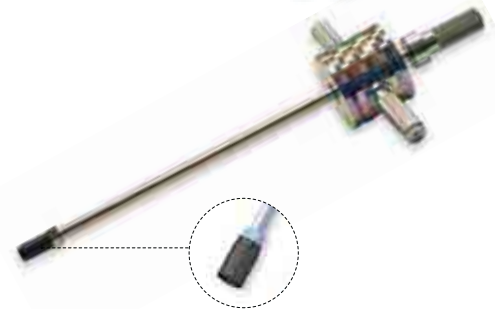
## Slide hammer

Slide hammer with powerfull 9 Kg stroke-force.

-  ▶ Including universal adaptor
-  ▶ To be used with the tool set for removing drive shaft and cv joint 3 - 6 holes/bolts
- ▶ To be used with the tool set for removing injectors, etc.

Slide hammer	9 Kg
Lenght	770 mm
Adaptor	M22 - M18
Suitable for set	320008000
Suitable for set	311085000

Suitable also for diesel injectors application



**Slide hammer**

**323 032 000**

### + COMPLETE WITH:

311 026 011



311 062 000



311 179 003





# GLOW PLUGS GLOW PLUG



The glow plug must be able to withstand high temperatures, high pressures, vibrations and attack of corrosive agents which develop during the combustion.

The tip of the glow plug must be positioned very precisely to ignite the fuel.

In fact it should not penetrate too deeply into the combustion chamber as it may trigger the combustion incorrectly.

For these reasons, the replacement is problematic and the glow plugs easily break in their seat.

**ELECTRODE**



# SGLOW PLUG SGLOW PLUG



**BODY**



# GLOW PLUGS

BODY

## Glow plug removal kit

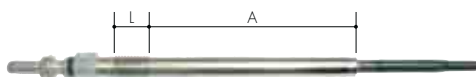
Universal



Universal set for removing broken glow plugs **M8x1 - M9x1 - M10x1 - M10x1,25**.

- ▶ Kit made up of 4 milling cutters (n.3 pcs with 4 cuttings and n.1 pc with 2) with self-centring helicoidal tip for universal use, specific centring devices not required.
- ▶ With this set the tips removal becomes QUICK and USER FRIENDLY and at the mean time it is possible to restore the thread for installing the new glow plugs.

- ▶ Usage specifications:  
Dimension A  $\geq$  14 mm (M10)  
Dimension A  $\geq$  20 mm (M9, M8)  
Dimension L  $\leq$  13 mm  
L (thread)



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Glow plug removal kit

311 167 000

## Glow plug removal kit

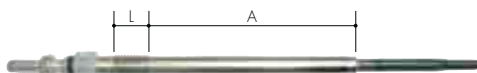
Universal



Set for removing glow plugs **M10x1 - M10x1,25**.

- ▶ Special 4 cutting milling cutter with self-centering twist drill bit for UNIVERSAL engine use without dedicated centering aid.

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



ADVANCEDKIT



Glow plug removal kit

311 162 000





**Universal**



## Glow plug removal kit

Set for removing glow plugs **M9x1**.

-  ▶ Special 4 cutting milling cutter with self-centering twist drill bit for UNIVERSAL engine use without dedicated centering aid.
-  ▶ Usage specifications:  
Dimension A  $\geq$  20 mm  
Dimension L  $\leq$  13 mm



**ADVANCED** KIT



**Glow plug removal kit**

**311 163 000**



BODY

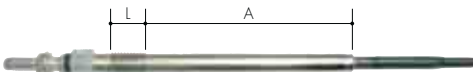
**Universal**



## Glow plug removal kit

Set for removing glow plugs **M8x1**.

-  ▶ Special 4 cutting milling cutter with self-centering twist drill bit for UNIVERSAL engine use without dedicated centering aid.
-  ▶ Usage specifications:  
Dimension A  $\geq$  20 mm  
Dimension L  $\leq$  13 mm



**ADVANCED** KIT



**Glow plug removal kit**

**311 164 000**



# GLOW PLUGS

BODY

## Glow plug removal kit



Complete set for removing glow plugs on FCA Group 2.3 MJ, 3.0 MJ engines.

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



**Glow plug removal kit**

**311 096 000**

## Glow plug removal kit



Kit to remove broken glow plugs assembled on FCA Group 1.3 Multijet engines.

- ▶ Fiat
- Engine
  - ▶ 1.3 MJ
- ▶ Thread size M8x1



**Glow plug removal kit**

**311 101 000**

## Glow plug removal kit



Set for removing broken glow plugs **M10x1 - M10x1,25** on MERCEDES.

- ▶ Mercedes
- Engine
  - ▶ CDI
- ▶ Thread size M10x1, M10x1,25



**Glow plug removal kit**








**311 187 000**

## Glow plug removal kit

**PEUGEOT**



Kit for the extraction of broken glow plugs assembled on PEUGEOT 2.0 HDi engines.

-  ▶ Peugeot
-  ▶ Citroën
-  Engine
-  ▶ 2.0 HDi
-  Engine codes
-  ▶ DW10
-  ▶ Thread size M10x1



**Glow plug removal kit**





**311 105 000**

## Glow plug removal kit

**RENAULT**



Complete set for removing glow plugs on RENAULT 1.5 - 1.9 - 2.2 - 2.5 dCi engines.

-  ▶ 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

**RENAULT**



Kit to remove broken glow plugs assembled on RENAULT 2.0 dCi engines.

-  ▶ Renault
-  Engine
-  ▶ 2.0 dCi
-  Engine codes
-  ▶ M9R
-  ▶ Thread size M10x1



**Glow plug removal kit**

**311 106 000**



# GLOW PLUGS





BODY - ELECTRODE

## Glow plug removal kit

SSANGYONG



Set for removing broken glow plugs.

-  ▶ Ssangyong: Rodius, Actyon, Kyron, Rexton, Rexton II
-  Engine
  - ▶ 2.0, 2.7 diesel
-  Engine codes
  - ▶ D27DT, D20DT/664.951, D20DT, D20DT/664.950, D27DT/665.950, D27DTP
-  ▶ Thread size M10x1



Glow plug removal kit

311 111 000





## Kit for extraction glow plugs tip

Universal



Complete kit for glow plugs electrode extraction **M10x1 - M10x1.25 - M9x1 - M8x1**.

**INCLUDED:** The set includes all the tools needed to safely remove the terminal part of the glow plug electrode **WITHOUT DAMAGING THE CYLINDER HEAD**.

-  ▶ Set of tools for the extraction of part of the electrode terminal part of the glow plugs (M10, M9, M8) in the event of breakage or seizure inside the seat, otherwise impossible to remove.
-  ▶ This operation becomes very simple and fast. The alternative is to disassemble the head, the time saving therefore becomes considerable.
-  ▶ Citroën, Peugeot
  - ▶ Suzuki
  - ▶ Toyota
  - ▶ Mazda
  - ▶ Volvo
  - ▶ Ford
-  Engine:
  - ▶ 1.4 HDI, 1.4 HDI 16V, 1.4 DDIS, 1.4 CD, 1.4 TDCI, 1.4 HDI ECO 70, 1.6 D, 1.6 HDI, 1.6 HDI 90, 1.6 HDI 110 FAP, 1.6 HDI 16V, 1.6 TDCI



Master KIT



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Kit for extraction glow plugs tip



311 188 000





## Glow plug removal kit - M10

Glow plugs electrode removal kit **M10x1**.

-  ▶ 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.
  - ▶ Reduced working times
  - ▶ User-friendly
-  ▶ Thread size M10



**Glow plug removal kit**



**311 160 000**

**ELECTRODE**



## Glow plug removal kit - M8 - M9

Glow plugs electrode removal kit **M8 - M9**.

-  ▶ Kit suitable for removing the final part of the electrode in case of breakage or seizure of the glow plug M8 - M9 inside its seat, otherwise impossible to remove.
  - ▶ Reduced working times
  - ▶ User-friendly
-  ▶ Thread size M8
  - ▶ To be used in case of thread M9 when the electrode is equal to the one of the M8 glow plug



**Glow plug removal kit**

**311 161 000**





# GLOW PLUGS

ELECTRODE

## Glow plug tip extraction kit - M8



Kit for the extraction of the electrode final part in case of breakage or seizure inside the seat of **M8** glow plugs, otherwise impossible to remove.



- ▶ Ford
- ▶ Peugeot
- ▶ Citroën



- ▶ Engine
- ▶ 1.4 - 1.6 diesel



**Glow plug tip extraction kit**

**311 178 000**



## Glow plug reamer

Universal glow plugs **M8x1 - M9x1 - M10x1 - M10x1,25** reaming kit.



- ▶ It is recommended the usage of code 311 031 019 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 plug reamer - M9



Glow plugs **M9x1** reaming kit.



- ▶ It is recommended the usage of code 311 031 019 for blowing out aluminium cuttings.



- ▶ Thread size M9x1



**Glow plug reamer**

**311 092 000**



## Glow plug reamer - M8 - M10

Glow plugs **M8x1 - M10x1 - M10x1,25** reaming kit.



▶ It is recommended the usage of code 311 031 019 for blowing out aluminium cuttings.



- ▶ Thread size M10x1
- ▶ Thread size M10x1,25
- ▶ Thread size M8x1



**Glow plug reamer**

**311 091 000**



## Glow plug reamer - M8

Glow plugs **M8x1** reaming kit.



▶ It is recommended the usage of code 311 031 019 for blowing out aluminium cuttings.



- ▶ Thread size M8x1



**Glow plug reamer**

**311 082 000**



## Glow plug reamer - M10

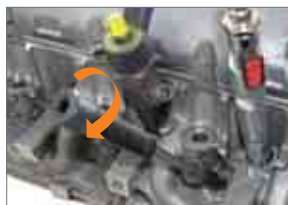
Glow plugs **M10x1 - M10x1,25** reaming kit.



▶ It is recommended the usage of code 311 031 019 for blowing out aluminium cuttings.



- ▶ Thread size M10x1
- ▶ Thread size M10x1,25



**Glow plug reamer**

**311 059 000**



# GLOW PLUGS

ELECTRODE




## Glow plug reamer - M10

RENAULT

TOYOTA



Glow plugs **M10x1** and **M10x1,25** seat reaming kit. It is recommended the usage of code 311 031 019 for blowing out aluminium cuttings.

-  ▶ It includes a 4 cutting tool for injectors seat resurfacing for manual use with threaded guide, to be inserted into the glow plug seat.
-  ▶ Renault M9R: M10x1  
▶ Toyota: M10x1,25
-  ▶ To use for the M10 glow plug seat with electrode  $\varnothing$  4.1



**Glow plug reamer**

**311 149 000**

## Glow plugs repair kit



Glow plugs thread repair set.



<b>Glow plugs repair kit</b>	<b>M8x1</b>	<b>772 011 000</b>
<b>Glow plugs repair kit</b>	<b>M9x1</b>	<b>772 003 000</b>
<b>Glow plugs repair kit</b>	<b>M10x1</b>	<b>772 005 000</b>
<b>Glow plugs repair kit</b>	<b>M10x1,25</b>	<b>772 010 000</b>
<b>Glow plugs repair kit</b>	<b>M12x1,25</b>	<b>772 012 000</b>

## Glow plugs repair kit



Glow plugs and spark plugs complete thread repair set.

-  ▶ **Application - GLOW PLUGS:**
  - M8x1 set
  - M9x1 set
  - M10x1 set
  - M10x1,25 set
  - M12x1,25 set

-  ▶ **Application SPARK PLUGS:**
  - M12x1,25 set
  - M14x1,25 set



**Glow 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.



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

## Blowing tool

**BOSCH**



Dummy injector.

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



► Diameter: Ø 19 mm



**Blowing tool**

**311 031 019**







# ENGINE

## Valve spring compressor

Pneumatic valve spring compressor. **ACCESSORIES INCLUDED.**

- ▶ 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=125 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) **315 020 034**



## Valve spring compressor **HEAVY DUTY**

Heavy duty pneumatic valve spring compressor. **ACCESSORIES INCLUDED.**

- ▶ 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=196 Kg



**HEAVY DUTY**



### 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**

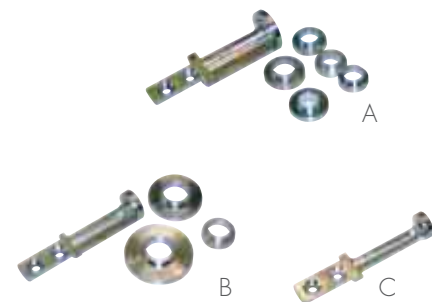
Pressure foot Ø 19,8 mm (C) **315 020 034**

## Manual bench useful to assembly and disassembly engine valves



Manual bench complete with 3 pressure feet with adaptors. **ACCESSORIES INCLUDED.**

- ▶ The two head supports are implemented with non-scratch plastic material and are adjustable from 0 to 30°. There are two handles for locking when the right inclination is set.
  - ▶ It is also possible to regulate the horizontal position of the head moving the pins to the opposite holes up and down. There is a long regulation also for the push rod in case of deep valve chambers. The frame can be rotated 30° on both sides.
  - ▶ Moreover can be regulated also forward and backwards. In case of valves locked hard into the seat, hit on the slide hammer on the top with a plastic mallet. The bench is also provided with a travel limit device that guarantees the same stroke for each valve.
  - ▶ Meanwhile the valve spring is compressed, the operator can block the position using the opposite pin. Consequently he can work on the valves having both hands free.
- ▶ Dimensions: 785x500x625 mm
  - ▶ Stroke: 265 mm
  - ▶ Cylinder head: 750 mm
  - ▶ 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)	315 020 034

VALVES

## 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
Keeper tool Ø 5 mm	315 020 008
Keeper tool Ø 6 mm	315 020 009
Keeper tool Ø 7-8 mm	315 020 010




## Valve spring compressor **EXTRA HEAVY DUTY**

Extra heavy duty pneumatic valve spring compressor. **ACCESSORIES INCLUDED.**

-  ▶ 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

follow us on YouTube



### Valve spring compressor **EXTRA HEAVY DUTY**

**315 024 000**

Pressure foot Ø 40 mm (A)

315 032 000

Pressure foot Ø 32 mm (B)

315 033 000

Pressure foot Ø 23,5 mm (C)

315 024 016

Magnet - Length = 165 mm (D)

315 020 007





**EXTRA HEAVY DUTY**



## 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**





# GEARBOX SUPPORTS

## Pneumatic engine support



Pneumatic 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



**Pneumatic engine support**

**314 002 000**

## 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**




## 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**



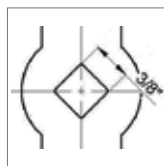
# OIL SUMPS & FILTERS

## Set of wrenches



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

Wrench N.1.	Ø 66,5 - Flutes 45	Wrench N.11.	Ø 66,6 - Flutes 6
Wrench N.2.	Ø 87 - Flutes 18	Wrench N.12.	Ø 96,4 - Flutes 6
Wrench N.3.	Ø 66,5 - Flutes 6	Wrench N.13.	Ø 75,3 - Flutes 16
Wrench N.4.	Ø 74,4 - Flutes 14	Wrench N.14.	Ø 107,7 - Flutes 6
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		
Wrench N.9.	Ø 91 - Flutes 12		
Wrench N.10.	Ø 76,8 - Flutes 12		



Set of wrenches

312 051 000

## Oil filter wrenches



Set of wrenches for dismounting oil filters KIA/HYUNDAI.

- 312069001:**  
Oil filter wrench N°23 Flutes: 14 - Inner distance 66,5 mm
  - 312070001:**  
Oil filter wrench N.24 Flutes: 15 - Inner distance 79 mm
  - 312070001:**  
Oil filter wrench N.25 Flutes: 15 - Inner distance 93,2 mm
- ▶ Nissan, Renault, Opel, Mitsubishi, Mazda, Subaru, Isuzu, Proton, Vauxhall, Ford, Asia Motors, Bedford, Lotus, Honda, Smart



Set of wrenches

312 089 000

**Oil filter wrench N.23 - FILTER KIA / HYUNDAI COD. 26300-2Y500, 26300-02502** 312 069 001

**Oil filter wrench N.24 - FILTER KIA / HYUNDAI COD. 26300-35503, 26300-35530** 312 070 001

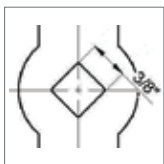
**Oil filter wrench N.25 - FILTER KIA / HYUNDAI 26300-35503, 26300-35530** 312 071 001

## Oil filter wrench N.1



Oil filter wrench.

- i** ▶ Type: Ø 92,3 mm
- ▶ Flutes: 45
- ▶ VW
- ▶ Audi
- ▶ Nissan
- i** Engine
- ▶ TDi



Oil filter wrench N.1

312 072 000

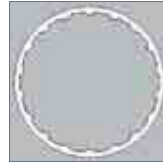
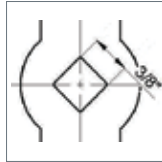
## Oil filter wrench N.2



Oil filter wrench.

- i** ▶ Type: Ø 87 mm
- ▶ Flutes: 18

- car** ▶ Renault



**Oil filter wrench N.2**

**312 073 000**

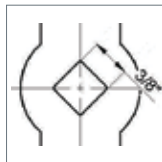
## Oil filter wrench N.3



Oil filter wrench.

- i** ▶ Type: Ø 66,5 mm
- ▶ Flutes: 6

- car** ▶ Fiat: Punto 1.2
- ▶ Renault: 1.2 from '98



**Oil filter wrench N.3**

**312 074 000**

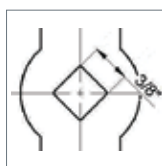
## Oil filter wrench N.4



Oil filter wrench cartridge filter.

- i** ▶ Type: Ø 74,4 mm
- ▶ Flutes: 14

- car** ▶ Renault
- ▶ VW, Audi: cartridge filter



**Oil filter wrench N.4**

**312 075 000**



# OIL SUMPS & FILTERS

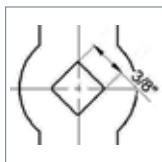
## Oil filter wrench N.5



Oil filter wrench.

- i** ▶ Type: Ø 74 mm
- ▶ Flutes: 15

- c** ▶ Renault



**Oil filter wrench N.5**

**312 076 000**

## Oil filter wrench N.6

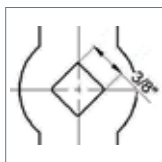


Oil filter wrench.

- i** ▶ Type: Ø 92 mm
- ▶ Flutes: 10

- c** ▶ Fiat

- i** Engine
- ▶ Common Rail 125 Hp



**Oil filter wrench N.6**

**312 077 000**

## Oil filter wrench N.7

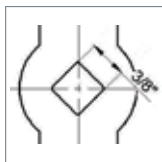


Oil filter wrench.

- i** ▶ Type: Ø 76,5 mm
- ▶ Flutes: 8

- c** ▶ Fiat

- i** Engine
- ▶ Common Rail 1.9-2.4 JTD (old models)



**Oil filter wrench N.7**

**312 078 000**



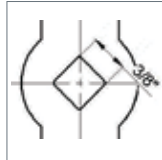
## Oil filter wrench N.8



Oil filter wrench.

- i** ▶ Type: Ø 64 mm
- ▶ Flutes: 14

- car** ▶ Fiat: Punto



**Oil filter wrench N.8**

**312 079 000**

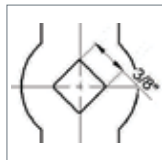
## Oil filter wrench N.9



Oil filter wrench.

- i** ▶ Type: Ø 91 mm
- ▶ Flutes: 12

- car** ▶ Fiat: Ducato



**Oil filter wrench N.9**

**312 085 000**

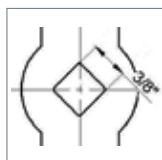
## Oil filter wrench N.10



Oil filter wrench.

- i** ▶ Type: Ø 76,8 mm
- ▶ Flutes: 12

- car** ▶ 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**

**312 080 000**



# OIL SUMPS & FILTERS



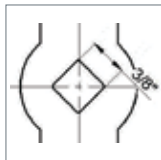
## Oil filter wrench N.11

Oil filter wrench.

- i** ▶ Type: Ø 66,6 mm
- ▶ Flutes: 6

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

- i** Engine
- ▶ 1.2 and 1.4 petrol



**Oil filter wrench N.11**

**312 081 000**



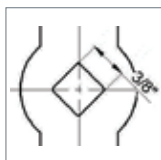
## Oil filter wrench N.12

Oil filter wrench.

- i** ▶ Type: Ø 96,4 mm
- ▶ Flutes: 6

- car** ▶ Renault: Clio, Kangoo, Modus, Mègane, Scenic

- i** Engine
- ▶ 1.5, 1.9 and 2.2 dCI



**Oil filter wrench N.12**

**312 082 000**

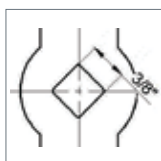


## Oil filter wrench N.13

Oil filter wrench.

- i** ▶ Type: Ø 75,3 mm
- ▶ Flutes: 16

- car** ▶ Saab: 9.3, 9.5 mounted on 1.9 and 2.0 diesel engines
- ▶ Alfa Romeo: MJ
- ▶ Fiat: 1.6 MJ



**Oil filter wrench N.13**

**312 083 000**

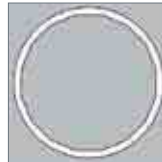
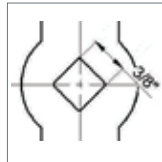


## Oil filter wrench N.14

Oil filter wrench.

- i** ▶ Type: Ø 107,7 mm
- ▶ Flutes: 18

- car** ▶ Renault: Trafic, Master



**Oil filter wrench N.14**

**312 086 000**

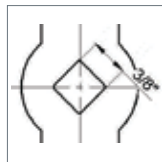
## Oil filter wrench N.15



Oil filter wrench.

- i** ▶ Type: Ø 66 mm
- ▶ Flutes: 14

- car** ▶ Nissan
- ▶ Mazda



**Oil filter wrench N.15**

**312 087 000**

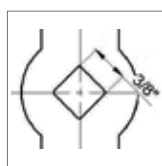
## Oil filter wrench N.16



Oil filter wrench.

- i** ▶ Type: Ø 84,6 mm
- ▶ Flutes: 14

- car** ▶ Mercedes Purflux and filters
- ▶ Diesel



**Oil filter wrench N.16**

**312 052 000**



# OIL SUMPS & FILTERS

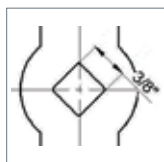
## Oil filter wrench N.17



Oil filter wrench.

- i** ▶ Type: Ø 73 mm
- ▶ Flutes: 10

- car** ▶ Renault 16V



**Oil filter wrench N.17**

**312 088 000**

## Oil filter wrench N.18

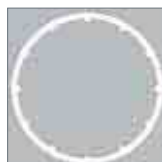
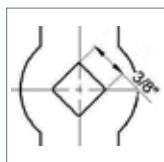


Oil filter wrench.

- i** ▶ Type: Ø 76,8 mm
- ▶ Flutes: 12

- car** ▶ VW
- ▶ Audi

- i** Engine
- ▶ 2.0 TDI



**Oil filter wrench N.18**

**312 055 000**

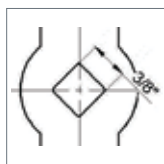
## Oil filter wrench N.19



Oil filter wrench.

- i** ▶ Type: Ø 87 mm
- ▶ Flutes: 16

- car** ▶ BMW



**Oil filter wrench N.19**

**312 057 000**

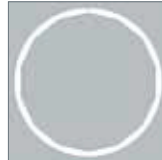
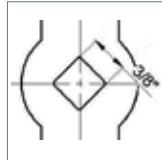
## Oil filter wrench N.20



Oil filter wrench.

- i** ▶ Type: Ø 102 mm
- ▶ Flutes: 14

- ▶ Renault



**Oil filter wrench N.20**

**312 059 000**

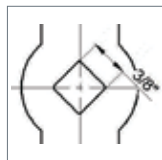
## Oil filter wrench N.21



Oil filter wrench.

- i** ▶ Type: Ø 66 mm
- ▶ Flutes: 18

- ▶ Renault



**Oil filter wrench N.21**

**312 060 000**

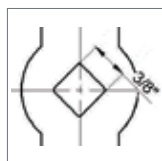
## Oil filter wrench N.22



Oil filter wrench.

- i** ▶ Type: Ø 96 mm
- ▶ Flutes: 18

- ▶ Renault
- ▶ VW, Audi: TDI



**Oil filter wrench N.22**

**312 061 000**





# OIL SUMPS & FILTERS

## 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.

- i** ▶ 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**

OIL SUMPS & FILTERS

## Tool for dismounting filters



Special tool for dismounting diesel MJ filters.

- car** ▶ 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 and 1.9



**Tool for dismounting filters**

**312 046 000**

## Milling kit



Milling kit and restoring oil cup plug washers seat.



► The kit is equipped with a centering pin for the clamp, and a milling cutter with handle and 12 cutters.  
The kit is completed by 2 keys for tightening and locking the clamps and the pin.



- Expansion clamp: M14x1.5
- Expansion clamp: M15x1.5
- Centering pin: Ø 10 mm
- Locking pin: Ø 10 - Ø 6 mm
- Milling cutter: Ø 21 mm



**Milling kit**

**312 065 000**

## Wrench for oil filters seat

**FORD**

**PEUGEOT**



Wrench for mounting and dismounting oil filters seat. **As indicated on the plug, tighten it max at 25Nm.**



- The usage of this wrench is highly recommended for mounting and dismounting oil filters plastic seat.
- This wrench has been projected in order to make work faster and easier, avoiding contact with wiring and intake system.
- The upper 1/2" connection of the wrench has to be used with a dynamometric wrench.



- Citroën: C4, Picasso, Grand Picasso, C5
- Ford: C-Max, Focus, Galaxy, Kuga, Mondeo, S-Max
- Peugeot: 308, 3008, 508, 5008, 407, RCZ



- Engine: 2.0 - 2.2 HDi/TDCi
- Engine codes: DW10C - DW12C



**Wrench for oil filters seat**

**312 063 000**



# GENERAL REPAIRS

**Universal**



## Pulley wrench

Adjustable wrench for locking and rotating pulleys.



**Pulley wrench**

**313 034 000**

## Plier

Special plier with specific grip for dismantling automatic fuel connection.



**Plier**

**311 001 000**

**BOSCH**



## Wrenches for alternators

Wrench for dismantling phase alternator.

**i** ▶ Bosch



**Wrenches for alternators**

**311 193 000**

**DELPHI**



## Wrenches for alternators

Wrench for dismantling phase alternator.

**i** ▶ Delphi



**Wrenches for alternators**

**311 043 000**

GENERAL REPAIRS

## Wrenches for alternators

**BOSCH**

**DELPHI**

**MAGNETI M.**



Set of wrenches for dismounting phase alternators.

- i** ▶ Bosch
- ▶ Magneti Marelli
- ▶ Delphi



**Wrenches for alternators**

**310 076 000**

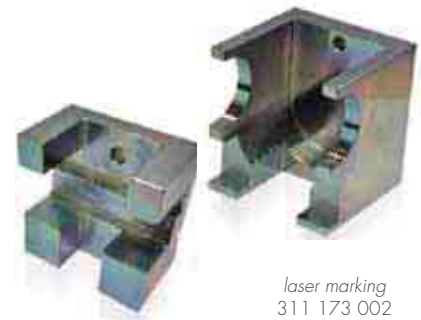
## CNG filling valve

**CITROËN**



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

- i** ▶ Citroën: C3
  - ▶ Engine: 1.4i
- i** ▶ CNG
  - ▶ Connection CH.36



laser marking  
311 173 001

laser marking  
311 173 002

**CNG filling valve (included 2 pcs.)**

**311 173 000**

Key cylinder valve - SMALL (laser marking 311 173 001)

311 173 001

Key cylinder valve - BIG (laser marking 311 173 002)

311 173 002

## CNG filling valve

**FCA**



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

**DO NOT USE IMPACT WRENCH.**

- i** ▶ Fiat: Multipla 1<sup>st</sup> serie (MY -03), Multipla 2<sup>nd</sup> serie (MY 04-); Doblò, Iveco Daily, Punto (mod. 188)
- ▶ Citroën: C3 (2013)
- ▶ Wrench 311 107 001 suitable for Emer valves

- i** ▶ CNG
- ▶ Connection CH. 36



laser marking  
311 107 003

laser marking  
311 107 004

**CNG filling valve (included 2 pcs.)**

**311 107 000**

Key cylinder CNG valve - MULTIPLA 1<sup>st</sup> serie (laser marking 311 107 003)

311 107 001

Key cylinder CNG valve MULTIPLA 2<sup>nd</sup> serie, DOBLÒ, IVECO, PUNTO, CITROËN (laser marking 311 107 004)

311 107 002



# GENERAL REPAIRS

FCA



## CNG filling valve

Wrench specific for the removal of CNG filling charging valve.

**DO NOT USE IMPACT WRENCH.**

-  ▶ Fiat: Panda, Panda VAN, Grande Punto (mod. 199)
- ▶ Engine: 1.2

-  ▶ CNG
- ▶ Connection CH.36



**CNG filling valve** (laser marking 311 170 001)

**311 170 000**

GENERAL REPAIRS

MERCEDES



## CNG filling valve

Wrench specific for the removal of CNG filling charging valve.

-  ▶ Mercedes: NGT models

-  ▶ CNG
- ▶ Connection CH.36



**CNG filling valve** (laser marking 311 175 001)

**311 175 000**

OPEL



## CNG filling valve

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

**DO NOT USE IMPACT WRENCH.**

-  ▶ Opel: ZAFIRA 1<sup>st</sup> e 2<sup>nd</sup> serie, Combo (2008-2009)

-  ▶ CNG
- ▶ Connection CH.36



laser marking  
311 108 004

laser marking  
311 108 003

**CNG filling valve (included 2 pcs.)**

**311 108 000**

Key cylinder CNG valve - ZAFIRA 1<sup>st</sup> serie (laser marking 311 108 003)

**311 108 001**

Key cylinder CNG valve - ZAFIRA 2<sup>nd</sup> serie, COMBO (laser marking 311 108 004)



**311 108 002**





## CNG filling valve

Wrench specific for the removal of CNG filling charging valve.

-  ▶ VW: Touran, Caddy, Passat
- ▶ Engine: 1.4 TSi, 2.0i
-  ▶ CNG
- ▶ Connection CH.36



**CNG filling valve** (laser marking 311 174 001)



**311 174 000**

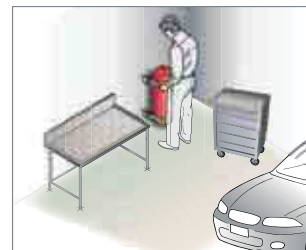
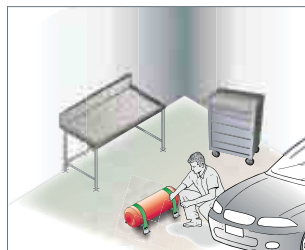
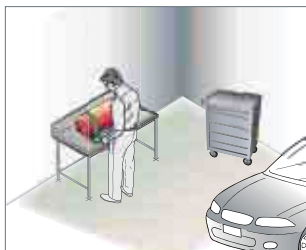
## Universal



## Supports for CNG tanks

These special universal supports are needed to fix the CNG tanks in order to make easy and speed up tanks valves disassembling and assembling.

-  ▶ Bench, trolley and wall-mounted applications.
-  ▶ The kit is equipped with N.2 fixing supports + straps to fix/hold the tanks.
- ▶ Strap ribbon with tumbuckle 1.250 mm
- ▶ Ribbon width 50 mm
- ▶ CNG tanks  $\varnothing$  180 ÷  $\varnothing$  400
- ▶ Capacity 2000 kg



**Supports for CNG tanks - UNIVERSAL**

**311 176 000**



# GENERAL REPAIRS

## Stretch belts kit **DOUBLE PULLEYS**



Specially designed two-piece tool for installing and dismantling stretch belts on double pulleys.

- i**
  - ▶ Easy and fast belt replacement
  - ▶ Any damage to pulleys and belts granted
  - ▶ Universal application for all pulleys
- car**
  - ▶ Alfa Romeo: 159 2.4, MJ
  - ▶ Fiat: Multipla, Bravo, Croma 1,6 petrol engine and 2,4 MJ
  - ▶ Lancia: Lybra 1.6 petrol engine
  - ▶ 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



follow us on **YouTube**



**Stretch belts kit**

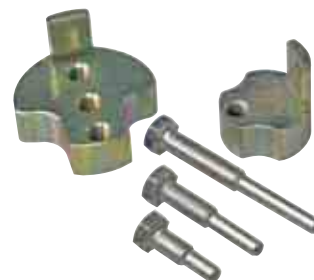
**313 219 000**

## Stretch belts kit



Special kit suitable for mounting the new stretch belts.

- i** **INCLUDED:**
  - ▶ Belt fitting tool: Ø 50, Ø 32
  - ▶ Screws: M8x25 Ø 5,9 mm - M8x40 Ø 5,7 mm - M8x65 Ø 5,6 mm



**Stretch belts kit**

**313 191 000**

## Stretch belts kit



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

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

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





**Stretch belts kit**

**313 198 000**



## Stretch belts kit **DOUBLE PULLEYS**

Universal kit for vehicles without automatic tightener, equipped with double pulley (dynamo and AC systems).

-  ▶ Assembly and adjustment with centring device
  - ▶ Quick, accurate and safe assembly and disassembly of elastic belts, without causing any damage.
  - ▶ **FEATURES:** Fix the tool on the pulley using one of the two pins (ref. 313 200 011 - 313 200 012)
  - ▶ **APPLICATION:** Removal/assembly of Poly-V elastic belts for single and double pulleys. In order to apply to double pulleys you must check how much space is available, in actual fact, for using the equipment.
-  ▶ The belt cannot be reused without using this tool.




**Stretch belts kit**

**313 238 000**



## 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**



# GENERAL REPAIRS

GENERAL REPAIRS

## Torx wrenches



Socket spanners Set - E-Profiles 9 pcs. **Application:** mounting and dismounting Torx screws.

WRENCHES INCLUDED
Wrench <b>E8</b>
Wrench <b>E10</b>
Wrench <b>E12</b>
Wrench <b>E14</b>
Wrench <b>E16</b>
Wrench <b>E18</b>
Wrench <b>E20</b>
Wrench <b>E22</b>



Torx wrenches

313 209 000

## ON DEMAND Handle for polygonal wrenches



Handle for polygonal wrenches.



Handle for wrenches

313 186 024

## ON DEMAND Polygonal wrench



Polygonal wrench 18 mm.



Polygonal wrench

313 233 000

## ON DEMAND Polygonal wrench



Polygonal wrench 14 mm.



Polygonal wrench

313 234 000

**ON DEMAND** Polygonal wrench



Polygonal wrench 12 mm.



**Polygonal wrench**

**313 186 021**

**ON DEMAND** Polygonal wrench



Polygonal wrench 15 mm.



**Polygonal wrench**

**313 235 000**

**ON DEMAND** Polygonal wrench



Polygonal wrench 11 mm.



**Polygonal wrench**

**313 232 000**

**ON DEMAND** Polygonal wrench



Polygonal wrench 10 mm.



**Polygonal wrench**

**313 236 000**





# GENERAL REPAIRS

## 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



390 001 021



Standard Extension



390 001 022



390 001 023



390 001 024



**Carburetor float removal**

**390 003 000**

## 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 (A)



**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 (A)



414 001 000

## Pneumatic motorcycle clamp



Pneumatic motorcycle clamp.

-  ▶ This machine allows a fast and safe motorcycles repair. The pneumatic cylinder and the special vice shape make possible to lock all types of wheels, from the smallest (scooter) to the biggest (maxi-motorcycles), without damaging the rim.
- ▶ The safety-valves allow to lock and to repair the motorcycles without using any other supports. This machine is equipped also with a drive-valve to adjust the opening and closing speed of the wheel. Applicable to all the types of lifting bridges for motorcycle, it is predisposed for the fixing. With simplicity and safety blocks all the types of motorcycles-wheels.

-  ▶ Motorbike
-  ▶ CE approved machine in compliance with 2006/42/CE (Machine Directive)
- ▶ Packaging Dimensions: 530x610x550 mm
- ▶ Machine weight: 24 Kg
- ▶ Working pressure: min 6 bar, max 10 bar
- ▶ Power: 8 bar=300 Kgf, 10 bar=500 Kgf



### Pneumatic motorcycle clamp

**490 000 000**

## Locking wrench



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



### Locking wrench

**384 004 000**



# GENERAL REPAIRS

## Socket



Special tool for replacing oxygen sensor.

**i** ▶ 22 mm



**Socket**

**317 001 000**

## Socket



Special tool for replacing oxygen sensor.

**i** ▶ 20 mm



**Socket**

**317 006 000**

## Spare part kit



Special kit to restore threads on aluminum engine heads.

**i** ▶ Suitable for restoring fixing threads for injector support on diesel engines  
(ex: Mercedes models)



**Spare part kit M6**

**772 001 000**

**Spare part kit M7**

**772 014 000**

**Spare part kit M8**

**772 015 000**

GENERAL REPAIRS







# SUSPENSIONS

## 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



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



follow us on YouTube



## Universal pneumatic coil spring compressor

1.226 KG



Universal pneumatic coil spring compressor - **PASSENGERS CARS.**  
**SAFETY VALVES LOCKING SYSTEM. ACCESSORIES INCLUDED.**



▶ **ALS - Auto Leveling System**

The two auto leveling upper arms allow to work easily both on conical and misaligned springs.

▶ **Cylinder: Stroke & Power**

It is possible to use this auto leveling machine also in case of long shock absorbers as the ones installed on commercial vehicles, off roads and wagons, thanks to its 330 mm stroke. With a working pressure of 10 bar the machine exerts a compression force of 1226 kg without losing power.

▶ **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.

▶ **Brackets system**

The frontal and lateral clamps' holders grant quick mounting and dismounting replacement both of the clamps and of the vice.

▶ **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: 520x300x1400 mm
- ▶ Packaging dimensions: 650x400x1400 mm
- ▶ Machine weight: 65 Kg
- ▶ Working pressure: 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 (A)

321 088 000

Bracket Ø 78 - Ø 130 mm (B)

321 077 002

Bracket Ø 125 - Ø 205 mm (C)

321 079 002

**SHOCK ABSORBERS**

# SHOCK ABSORBERS

## Pneumatic coil spring compressor

1.960 KG



Pneumatic coil spring compressor - **PASSENGERS CARS, SUV AND COMMERCIAL VEHICLES**

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



▶ **ALS - Auto Leveling System**

The two auto leveling upper arms simplify working on conical and misaligned springs.

▶ **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.

▶ **Brackets system**

The frontal and lateral clamps' holders grant quick mounting and dismounting replacement both of the clamps and of the vice.

▶ **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: 520x300x1400 mm

▶ Packaging dimensions: 650x400x1400 mm

▶ Machine weight: 65 Kg

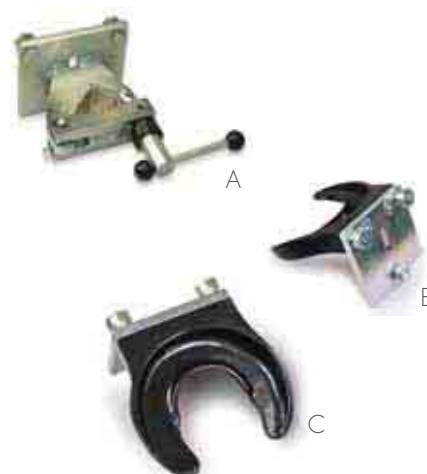
▶ Working pressure: min 6 bar, max 10 bar

▶ Cylinder stroke: 330 mm

▶ Compression force: 10 bar=1.960 Kg



follow us on YouTube



**Pneumatic coil spring compressor**

**321 056 000**

Strut vice (A)

321 088 000

Bracket Ø 78 - Ø 130 mm (B)

321 077 002

Bracket Ø 125 - Ø 205 mm (C)

321 079 002

## Pneumatic coil spring compressor

2.452 KG



Pneumatic coil spring compressor - **PASSENGERS CARS, SUV, ARMOUR-PLATED E COMMERCIAL VEHICLES. EXTRA HEAVY DUTY - SAFETY VALVES LOCKING SYSTEM. ACCESSORIES INCLUDED.**



### ▶ ALS - Auto Leveling System

The two auto leveling upper arms simplify working on conical and misaligned springs.

### ▶ 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.

### ▶ Brackets system

The frontal and lateral clamps' holders grant quick mounting and dismantling replacement both of the clamps and of the vice.

### ▶ Tools Rack

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

- ▶ Bracket supporting plate with double positioning to increase the range of removable absorbers
- ▶ Steel knob for the protection cage
- ▶ Pneumatic cylinder with safety locking valves
- ▶ Foot-pedal and safety guard with safety valves, longer functioning to make the drive and control of the machine more comfortable
- ▶ Metal handles to fix the side arms
- ▶ Machine supplied with small and medium bracket to cover most of the absorbers for cars on the market
- ▶ Absorber stem support to facilitate the work of disassembly for the operator
- ▶ Protection system (dust cover) to safeguard the cylinder gasket

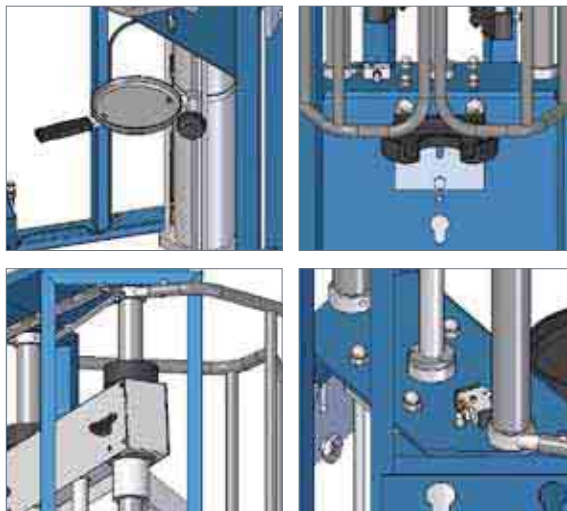


- ▶ CE approved machine in compliance with 2006/42/CE (Machine Directive)
- ▶ Machine dimensions: 520x300x1600 mm
- ▶ Packaging dimensions: 650x400x1600 mm
- ▶ Machine weight: 74 Kg
- ▶ Working pressure: min 6 bar, max 10 bar
- ▶ Cylinder stroke: 330 mm
- ▶ Compression force: 10 bar=2.452 Kg

**EXTRA  
HEAVY DUTY**



SHOCK ABSORBERS



UPPER POSITION



LOWER POSITION



### Pneumatic coil spring compressor

321 094 000

Universal upper jaws (A)

321 037 099

Bracket Ø 78 - Ø 130 mm (B)

321 077 002

Bracket Ø 105 - Ø 182 (C)

321 079 002



# SHOCK ABSORBERS

## Mechanical coil spring compressor

1.600 KG



Mechanical coil spring compressor.

### IMPACT WRENCH OPERATION. ACCESSORIES INCLUDED.



#### ▶ Working system

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

#### ▶ ALS - Auto Leveling System

The two auto levelling upper arms allow to work easily both on conical and misaligned springs.

#### ▶ Working Stroke

It is possible to use this auto leveling machine also in case of long shock absorbers as the ones installed on commercial vehicles, armoured, off roads and wagons, thanks to its 330 mm stroke.

#### ▶ Safety fastening system

The machine can lock the shock absorber strut with a strong specific vice.

#### ▶ Safety Guard

The protection allows to work freely and in 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: 540x310x1400 mm

▶ Packaging dimensions: 560x540x1300 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 19 mm socket/wrench



Mechanical coil spring compressor

321 051 000

Strut vice (A)

321 088 000

## ON DEMAND Special bracket

**MERCEDES**



Bracket suitable for Mercedes. **TO BE USED WITH CODE 321 078 002.**

- ▶ Mercedes: Classe C starting from 2010



**Bracket**

**321 053 000**

## ON DEMAND Bracket set

**MERCEDES**



MERCEDES bracket set.

- ▶ Mercedes: Classe A, B, C, E



**Brackets set**

**320 014 000**

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

321 078 002

Upper bracket for Mercedes Classe A, B, C, E (ref. 2)

321 097 000

## ON DEMAND Bracket - Rightwards



Bracket model from Ø 105 mm to Ø 182 mm.

- ▶ Renault: Megane, Clio
- ▶ Citroën: C3, C2
- ▶ Peugeot: 207, 307
- ▶ Mercedes: Classe B - C - E
- ▶ Fiat: Multipla Bi-Power

▶ **FOR RIGHTWARDS SPRING**



**Bracket**

**321 078 002**

## ON DEMAND Bracket - Leftwards

**RENAULT**

**NISSAN**



Bracket model from Ø 105 mm to Ø 187 mm.

- ▶ Renault: Koleos, Laguna
- ▶ Nissan: Qashqai

▶ **FOR LEFTWARDS SPRING**



**Bracket**

**321 087 000**

## ON DEMAND Upper jaw set

Upper jaw set.



- ▶ Japanese cars: Toyota, Honda, etc.
- ▶ BMW rear shock absorbers



**Upper jaw set**

**321 030 000**

## ON DEMAND Bracket

Bracket.



- ▶ Porsche: Cayenne
- ▶ VW: Tuareg



**Bracket**

**321 035 000**

## ON DEMAND - SPECIAL Vice

**CHRYSLER**

**MERCEDES**

Special vice suitable for CHRYSLER and MERCEDES.



- ▶ Vice for holding the strut during assembling and disassembling shock-absorber operation.



- ▶ Chrysler: Voyager
- ▶ Mercedes



**Special vice**

**321 005 000**

## ON DEMAND - STANDARD Vice

Blocking vice for shock absorbers.



**Standard vice**

**321 088 000**

## ON DEMAND Pedestal



Pedestal equipped with wheels for 321 051 000, 321 055 000 and 321 056 000.

- ▶ This component allows to move the machine easily.



**Pedestal**

**321 046 000**

## ON DEMAND Strut support



Adjustable support for upholding the strut.

- ▶ Suitable **ONLY** for models of shock absorber dismantler with single cylinder



**Strut support**

**321 028 000**

## Set of screws and jaws



Set of 2 threaded screws and 2 jaws - **TRUCK, SUV AND COMMERCIAL VEHICLES.**

- ▶ Universal spring compressor heavy duty version, for trucks, SUV and commercial vehicles.

**HEAVY DUTY**



**Set of screws and jaws**

**321 036 000**

# SHOCK ABSORBERS

## Coil spring compressor - screw type

Set of n.2 long and short screws + n.4 jaws.

- ▶ Designed to compress manually all MacPherson springs working directly on cars.
- ▶ The strut can be removed without dismantling the bearing housing.



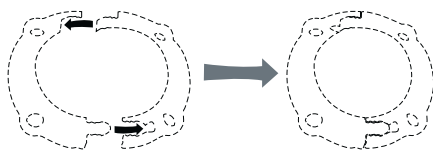
Set of long and short screws and jaws

320 010 000

## Tool for shock absorbers

Clamping tool for the front shock absorber ring.

- i** ▶ This tool is compulsory to tighten properly the locking ring that fixes the shock absorber to the chassis.
- ▶ Quick and user friendly.
- ▶ Tool specific for Alfa Romeo: Giulietta



Tool for shock absorbers

321 083 000

## Manual wrench XZN 12

MERCEDES

Adjustment wrench for MERCEDES, rear axle for models Class C, Class S.

- ▶ The use of this special wrench allows, during the assembly and disassembly of the rear axle covered by the underbody, not to damage the clamping screws. Consequently the advantage will be saving in time.
- ▶ Usable also on old models without underbody cover.

- i** ▶ Total lengths: about 340 mm



Manual wrench

383 006 000



## Wheel bearing & hub removal/installation kit **WITH HYDRAULIC CYLINDER**

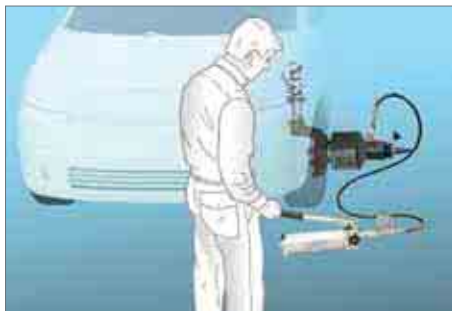


This tool kit is used to pull and insert wheel hubs and their bearings perfectly and safely, without damaging the mechanic gears (measures Ø 72, 78, 82 mm).

**INCLUDED HYDRAULIC CYLINDER, POWER 17 TONS AND STROKE 43 mm.**

- i** ▶ The kit is designed to pull/insert bearings with:
- Ø 72 (Ex. Audi A1, A2, Seat Cordoba, Ibiza, Skoda Fabia, VW Polo)
  - Ø 78 (Ex. Ford Focus II, C-Max, S-Max and Mazda 3, Volvo C30, C70, S40 and V50)
  - Ø 82 (Ex. Ford Mondeo 2007-, Galaxy and S-Max 2006-, Land Rover Freelander 2 2006-, Volvo S80, V70, XC60, XC70 2006-)

**HYDRAULIC  
WORKING**



*The intervention may be carried out directly on the vehicle*

**Wheel bearing & hub removal/installation kit - WITH HYDRAULIC CYLINDER 323 029 000**

## Wheel bearing & hub removal/installation kit



This tool kit is used to pull and insert wheel hubs and their bearings perfectly and safely, without damaging the mechanic gears (measures Ø 72, 78, 82 mm).

- i** ▶ The kit is designed to pull/insert bearings with:
- Ø 72 (Ex. Audi A1, A2, Seat Cordoba, Ibiza, Skoda Fabia, VW Polo)
  - Ø 78 (Ex. Ford Focus II, C-Max, S-Max and Mazda 3, Volvo C30, C70, S40 and V50)
  - Ø 82 (Ex. Ford Mondeo 2007-, Galaxy and S-Max 2006-, Land Rover Freelander 2 2006-, Volvo S80, V70, XC60, XC70 2006-)

**MECHANICAL  
WORKING**



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**Wheel bearing & hub removal/installation kit**

**323 029 023**



# HUBS - BEARINGS

## Bearing & hub removal/installation kit with hydraulic cylinder 32 TONS



FORD TRANSIT hub & front wheel bearing remover / installer kit.

### HYDRAULIC CYLINDER 32 TONS INCLUDED

▶ This kit grants in few minutes a user-friendly removal and installation of the hubs and bearings working directly on the vehicle.

▶ Ford Transit



**Bearing & hub removal/installation kit with hydraulic cylinder 32 tons 323 028 000**

## Tool set for compact wheel hub/bearing unit - mechanical



Wheel bearing and hub installation kit (measures  $\varnothing$  62, 66, 72).

▶ Bearings and hubs extractor kit

- ▶ The intervention may be carried out directly on the vehicle
- ▶ Minimum effort
- ▶ Great time savings
- ▶ Easy and safe application
- ▶ It can also be used in combination with the workshop press
- ▶ Hub:  $\varnothing$  62, 66, 72



HALF RINGS	APPLICATION
$\varnothing$ 72 mm	VW POLO from 2002; SKODA FABIA from 2000
$\varnothing$ 66 mm	AUDI A2 from 200; SKODA FABIA from 2000; VW POLO from 2000; VW FOX from 2005; SEAT IBIZA from 2002
$\varnothing$ 62 mm	VW LUPO; AUDI A2 1.2L



**Bearings and hubs extractor kit 323 026 000**

## Mechdraulic screw 16 TONS



Mechdraulic screw - 16 Tons, 20 mm stroke

▶ The mechanical characteristics, shape and dimensioning of GOVONI mechdraulic screws make their use limited to car industry, such as:

- Disassembly of hubs;
- Assembly of bearings;
- Coaxial release of very tight mechanical components;
- Removal and/or insertion of silent blocks.



**Mechdraulic screw 16 Tons 270 026 000**

## Kit for ring bearings



Set of tools for the replacement of inner ring bearings.



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

Gripper <b>Ø 40-45 mm</b>
Gripper <b>Ø 45-51 mm</b>
Gripper <b>Ø 50-55 mm</b>
Gripper <b>Ø 55-61 mm</b>

Lock nut wrench <b>Ø 83 mm</b>
Wrench <b>Ø 59,5 mm</b>
Body extractor



**Kit for ring bearings**

**320 003 000**



**COMPLETE WITH:**

323 031 000



## 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**



# HUBS - BEARINGS

## Shaft and cv joint kit



Kit suitable for replacing synchronizing shafts and cv joints, with slide hammer.

- i** ▶ Centre distance min.: 98 mm
- ▶ Centre distance max.: 130 mm
- ▶ Holes: N. 3 => 6
- ▶ Scres: M12 => M14



**Shaft and CV joint kit**

**311 026 025**

## Sets for hubs



Kit suitable for removing the hubs specific for auto vehicles complete with slide hammer.

- GL** ▶ Kit suitable for removing the hubs specific for auto vehicles complete with slide hammer; thanks to its particular shape, it allows to work on all types of wheel in commerce, from 3 up to 6 holes.
- i** ▶ Centre distance min.: 98 mm
- ▶ Centre distance max.: 130 mm
- ▶ Holes: N. 3 => 6
- ▶ Scres: M12 => M14



**Sets for hubs**

**323 030 000**

## Set for silent-blocks



Silent-block tool.

- GL** ▶ Use this tool for a correct silent-block mounting, specific for Fiat Stilo.



**Set for silent-block**

**322 003 000**

## Set for silent-blocks



Silent-block tool.

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



**Set for silent-block**

**322 004 000**





**NEW**



## Set for silent-blocks

Silent-block tool.

-  ▶ Use this tool for a correct Silent-block.
-  ▶ Fiat: 500, Panda
- ▶ Forda: KA
- ▶ Opel: Adam



**Set for silent-block**

**322 012 000**

## Set for hubs and bearings



Complete set for mounting and dismounting suspension bearings and hubs.

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




**Set for hubs and bearings**

**320 011 000**

## Sets for hubs and bearings



Set of tools for removing and inserting hubs and bearings.

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



**Set for hubs and bearings**

**320 015 000**

Bearings: Renault (laser marking 323 000 000)

Bearings: Fiat, VW (laser marking 323 002 000)

Bearings: Citroën (laser marking 323 003 000)

Hubs: Renault, Peugeot, Fiat, Alfa, Lancia (laser marking 323 005 000)

Hubs: Peugeot, Ford and off roads (laser marking 323 006 000)

Hubs: Renault Laguna with ABS (laser marking 323 009 000)

Bearings: Peugeot 206 (laser marking 323 010 000)

Bearings: VW, Audi (laser marking 323 013 000)





## ON DEMAND Clip



Special small size clip.

- ▶ Extractor tool Ø 35/40



**Clip**

**323 031 000**

## Tools for dismounting 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.



**Tools for dismounting bearings**

**323 007 000**

## Spacer



Hubs extractor.

- ▶ Renault: Trafic



**Spacer**

**323 011 000**

## Spacer



Bearing extractor.

- ▶ Renault: Trafic



**Spacer**

**323 012 000**

## Wrench



Special XZN 18 mm wrench suitable for hubs removing.



► VW: Golf, V serie



**Wrench**

**323 019 000**



# GENERAL REPAIRS



# CLUTCH

## SAC clutch tool set



This special kit of tools suitable for SAC (SAC = Self-Adjusting-Clutch) and traditional clutches allows easy dismounting and mounting clutch operations avoiding any problems.

- ▶ It is equipped with one plate 3-arms
  - ▶ Longer life clutch
  - ▶ Reduction of vibrations
  - ▶ Faster working time
- ▶ For engines with manual-shift gear box.



**KIT X-VALUE**

### Clutch aligner set SAC

318 007 000

#### + COMPLETE WITH:

318 014 000



318 008 002



## SAC clutch tool set



This special kit of tools suitable for SAC (SAC = Self-Adjusting-Clutch) and traditional clutches allows easy dismounting and mounting clutch operations avoiding any problems.

- ▶ It is equipped with 2 plates: 3-arms and 4-arms (specific for MERCEDES)
  - ▶ Longer life clutch
  - ▶ Reduction of vibrations
  - ▶ Faster working time
- ▶ For engines with manual-shift gear box.



**KIT X-VALUE**

### Clutch aligner set SAC

318 008 000

#### + COMPLETE WITH:

318 014 000



318 008 002







6 LOCKING HOLES



6/8 LOCKING HOLES



PRESSURE PLATE BEARINGS



CENTERING

## SAC clutch tool set



Special kit suitable for SAC (SAC = Self-Adjusting-Clutch) clutches.

- ▶ The usage of this special clutch tool is basic also to dismount SAC clutches. In fact if we try to dismount a SAC clutch, the clutch will unadjust, causing problems during mounting operations, have a shorter life and cause a lot of vibrations.
- ▶ Longer life clutch
- ▶ Reduction of vibrations
- ▶ Faster working time
- ▶ For engines with manual-shift gear box.

**ADVANCED** KIT



### Clutch aligner set SAC

318 010 000

#### + COMPLETE WITH:

318 014 000



## SAC clutch tool set



This kit allows the easy dismounting, removal and replacement of all self-adjusting clutches SAC (SAC = Self-Adjusting-Clutch).

- ▶ With the 4-arms plate (code 318 004 002) it is possible to work on all SAC clutches with multiple of 4 holes (ex: Mercedes A-Class up to 2004 W169).
- ▶ During assembling and disassembling operations the pre-tightening of the pressure plate is required in order to avoid clutch deformations.
- ▶ For engines with manual-shift gear box.

**Master** KIT

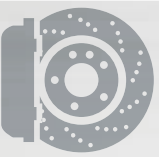


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### Clutch aligner set SAC

318 015 000



## Clutch aligner set SAC



This kit allows the centering of the clutch plate in relation to the guide bearing or to the pre-tensioning device.



**Clutch aligner set SAC**

**318 008 002**

## Clutch aligner set SAC



Updated kit for SAC clutch set.



▶ To be used in case of clutches without pressure plate bearings.



**Clutch aligner set SAC**

**318 014 000**

## 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: n.2 Screw Tools, n.22 Adaptors, n.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.

 ▶ Passengers cars and trucks

 ▶ Ø 45,2 mm - 32,25 mm



**Extractor for steering system**

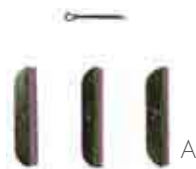
**385 004 000**



## Honing tools for brakes cylinders

"Mini" honing tool for brakes cylinders 3 stones.

- i** ▶ 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 (A)

**314 010 000**

## 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.

- GL** ▶ 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.

- GL** ▶ Compact
- ▶ User-friendly
- ▶ Very versatile
- ▶ Damages on painting avoided



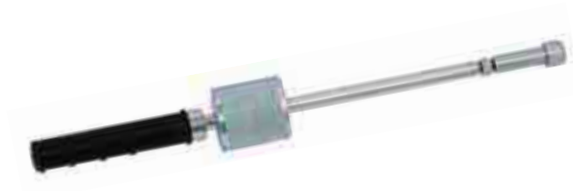
### Pin puller set

**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.

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



**Trolley**

**710 018 000**





# BODY TOOLS

## Wall-mounted paper dispenser



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

**PAPER NOT SUPPLIED**



**Paper dispenser**

**343 002 000**

## Floor-standing paper dispenser



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

**PAPER NOT SUPPLIED**



**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 NOT SUPPLIED**



**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.).






<b>Punch plier</b>	<b>hole Ø 8 mm</b>	<b>344 005 000</b>
<b>Punch plier</b>	<b>hole Ø 6 mm</b>	<b>344 004 000</b>
<b>Punch plier</b>	<b>hole Ø 5 mm</b>	<b>344 003 000</b>



## Tyre spreader

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**

## Tyre regroover - 230 V



Tyre regroover - 230 V.

- 
  - ▶ 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: 230V, 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



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**Tyre regroover - 230 V**

**360 002 000**



## ON DEMAND Blades

Blades. **NOT INCLUDED with the tyre regroover.**

- i** ▶ 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.



BLADES TECHNICAL DATA						
SHAPE			Width	Depth	Thickness	Pieces per each box
Rounded	Angular	Combined				
R1	W1	C1	2-4	7	0,4x3,5	20
R2	W2	C2	4-6	8		20
R3	W3	C3	6-8	10		20
R4	W4	C4	8-10	14	0,6x3,5	20
R5	W5	C5	10-14	16		20
R6	W6	C6	18-22	18	0,6x4	20
		C7	20-26	20		10
		C8	22-28	24		10
		C9	22-38	30		10



<b>Blade W1</b>	<b>360 003 001</b>
<b>Blade W2</b>	<b>360 003 002</b>
<b>Blade W3</b>	<b>360 003 003</b>
<b>Blade W4</b>	<b>360 003 004</b>
<b>Blade W5</b>	<b>360 003 005</b>
<b>Blade R1</b>	<b>360 003 006</b>
<b>Blade R2</b>	<b>360 003 007</b>
<b>Blade R3</b>	<b>360 003 008</b>
<b>Blade R4</b>	<b>360 003 009</b>
<b>Blade R5</b>	<b>360 003 010</b>
<b>Blade C1</b>	<b>360 003 011</b>
<b>Blade C2</b>	<b>360 003 012</b>
<b>Blade C3</b>	<b>360 003 013</b>
<b>Blade C4</b>	<b>360 003 014</b>
<b>Blade C5</b>	<b>360 003 015</b>
<b>Blade W6</b>	<b>360 005 001</b>
<b>Blade R6</b>	<b>360 005 002</b>
<b>Blade C6</b>	<b>360 005 003</b>
<b>Blade C7</b>	<b>360 006 000</b>
<b>Blade C8</b>	<b>360 007 000</b>
<b>Blade C9</b>	<b>360 008 000</b>







TRUCK



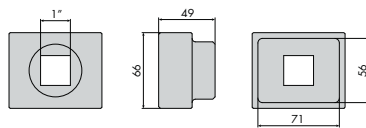
## Wrench for hubs



Wrenches for hub cover and trailer nuts.

-  ▶ Axle nut disassembly
-  ▶ Axle models KÄSSBOHRER/SETRA:  
front axle 6.5 and 7.5t of type 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 - Bus:  
VO 3/10, 4/11, 4/13 and 4/19 of type 0303, 0305-G and 0307

-  ▶ 56x71 mm - □ 1"




**Wrench for hubs**

**523 018 000**

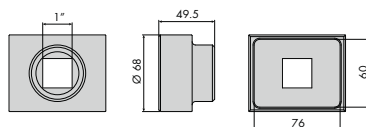
## Wrench for hubs



Wrench for stud nut.

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

-  ▶ 60x76 mm - □ 1"





**Wrench for hubs**


**523 019 000**

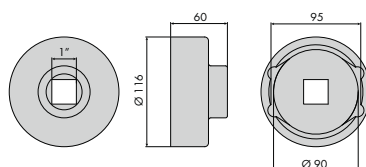
## Wrench for hubs



Wrenches for hub cover.

-  ▶ Loosen the outer cap of the axle
-  ▶ Suitable for BPW 9TN models

-  ▶ Inner Ø 90 mm - □ 1"






**Wrench for hubs**

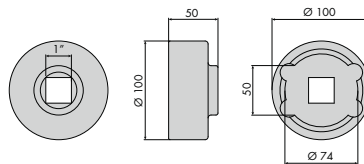
**523 020 000**

## Wrench for hubs



Wrench for hub covers.

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






**Wrench for hubs**

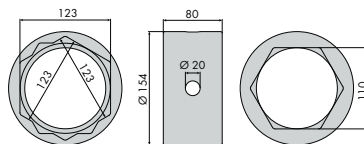
**523 021 000**

## Wrench for hubs



Dual use wrenches for hub covers and trailer nuts.

-  ▶ Trailer axle cover and nut disassembly
-  ▶ Suitable for FRUEHAUF models
-  ▶  $\varnothing$  123 mm
- ▶ Hexagon 110 mm






**Wrench for hubs**

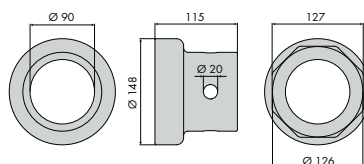
**523 017 000**

## Wrench for hubs



Octagonal wrench for trailer nut.

-  ▶ Trailer axle nut disassembly
-  ▶ Suitable for R.O.R. models
-  ▶ Octagon 127 mm
- ▶  $\varnothing$  126 mm



**Wrench for hubs**

**523 012 000**

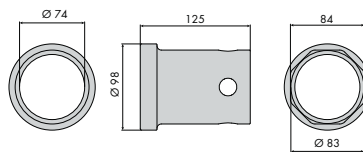


## Wrench for hubs



Octagonal wrench for trainer nut.

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



**Wrench for hubs**

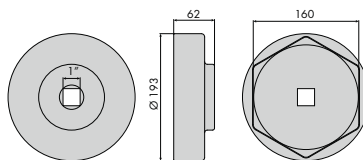
**523 016 000**

## Wrench for hubs



Hexagonal wrench for trailer hub covers.

- ▶ Trailer axle nut disassembly
- ▶ Suitable for FONTENAC RENAULT models
- ▶ Hexagon 160 mm - □ 1"



**Wrench for hubs**

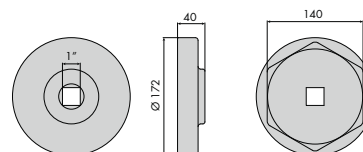
**523 006 000**

## Wrench for hubs



Hexagonal wrench for trailer hub covers.

- ▶ Trailer axle nut disassembly
- ▶ Suitable for S.A.F. models
- ▶ Hexagon 140 mm - □ 1"






**Wrench for hubs**

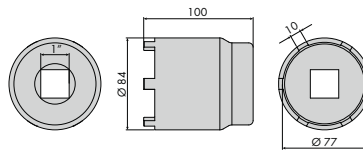
**523 007 000**

## Wrench for hubs



Toothed wrench for front axle.

-  ▶ Front reduction hypoid axle nut disassembly
-  ▶ Front axle models: VW2 - VW4 - VW6.1 - 6.8  
▶ Suitable for MAN models
-  ▶ 6 teeth - tooth width 10 mm  
▶ Inner  $\varnothing$  77 mm -  $\square$  1"






**Wrench for hubs**

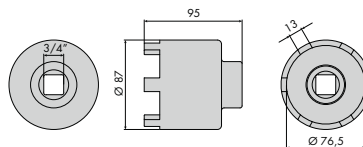
**523 003 000**

## Wrench for hubs



6-teeth wrench for front axle.

-  ▶ Axle nut disassembly
-  ▶ Front axle models: M3 - ME - MI  
▶ Rear axle models with outer planetary unit: 3MR - 5MR  
▶ Suitable for MAN models
-  ▶ 6 teeth - tooth width 13 mm  
▶ Inner  $\varnothing$  76,5 mm -  $\square$  3/4"






**Wrench for hubs**

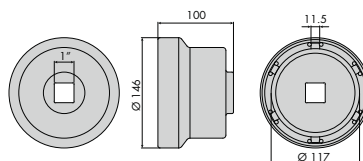
**523 005 000**

## Wrench for hubs



6-teeth wrench.

-  ▶ Loosen the nut of the rear axle
-  ▶ Rear axle models: TGA  
▶ Suitable for MERCEDES, MAN models
-  ▶ 6 teeth - tooth width 11,5 mm  
▶ Inner  $\varnothing$  117 mm -  $\square$  1"



**Wrench for hubs**

**523 009 000**



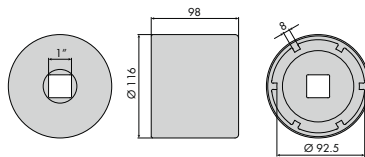


## Wrench for hubs



6-teeth wrench.

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



**Wrench for hubs**

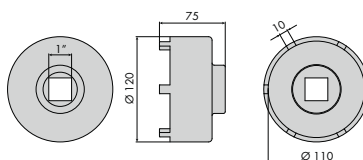
**523 010 000**

## Wrench for hubs



6-teeth wrench for front axle.

- ▶ Front reduction hypoid axle nut disassembly
- ▶ Low-platform bus with gantry axle HDNP-1300  
▶ Suitable for MAN BUS models
- ▶ 6 teeth - tooth width 10 mm  
▶ Inner Ø 110 mm - □ 1"



**Wrench for hubs**

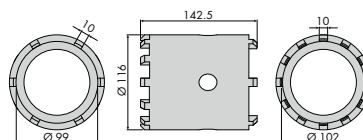
**523 024 000**

## Wrench for hubs



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 Ø 102 mm  
▶ 6 teeth - tooth width 10 mm - Inner Ø 99 mm






**Wrench for hubs**

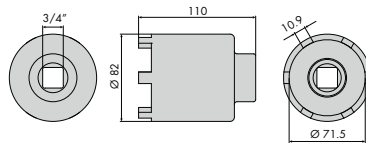
**523 001 000**



## Wrench for hubs

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**

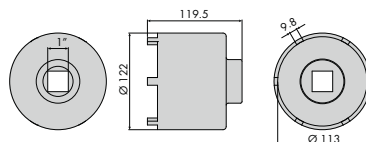
**523 002 000**



## Wrench for hubs

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**

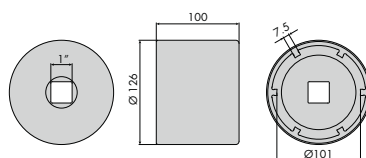
**523 004 000**



## Wrench for hubs

6-teeth wrench.

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



**Wrench for hubs**

**523 011 000**

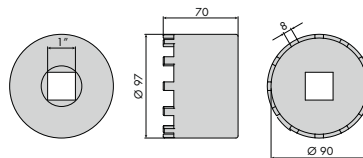


## Wrench for hubs



12-teeth wrench for rear axle.

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



**Wrench for hubs**

**523 013 000**

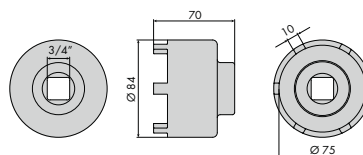
## Wrench for hubs



6-teeth wrench.

- ▶ Wrench for dismounting reductionhypod axle nut
- ▶ 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 Ø 75 mm - □ 3/4"



**Wrench for hubs**

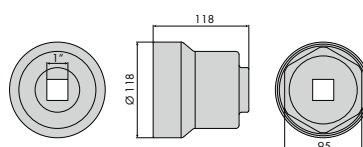
**523 014 000**

## Wrench for hubs



Wrench for hexagonal nut.

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



**Wrench for hubs**

**523 023 000**

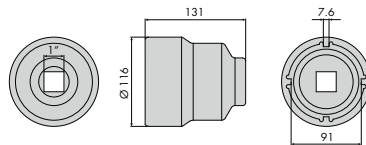
## Wrench for hubs



Toothed wrench for locknut.

- ▶ Rear axle
- ▶ Suitable for SCANIA models

- ▶ 4 teeth - tooth width 7,6 mm
- ▶ Inner Ø 91 mm - □ 1"



**Wrench for hubs**

**523 015 000**

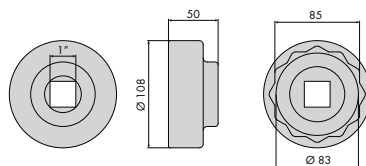
## Wrench for hubs



Polygonal wrench for hubs.

- ▶ Axle nut disassembly
- ▶ Suitable for IVECO models

- ▶ Polygon 85 mm
- ▶ Inner Ø 83 mm - □ 1"



**Wrench for hubs**

**523 008 000**

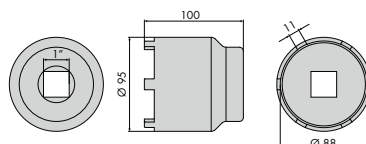
## Wrench for hubs



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**

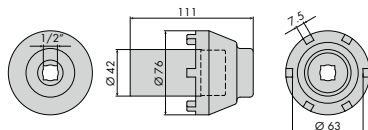
**521 001 000**

## Wrench for hubs



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
- ▶ Suitable for MERCEDES SPRINTER - 412T - VW - LT models
-  ▶ 6 teeth - tooth width 7,5 mm  
▶ Inner  $\varnothing$  63 mm  $\square$  1/2"




**Wrench for hubs**

**523 022 000**

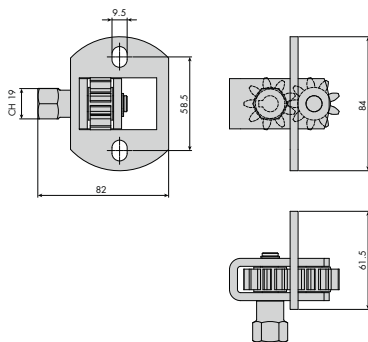
## Wrench for flywheel



System for dual gear engine flywheel rotation timing search.

-  ▶ Suitable 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**

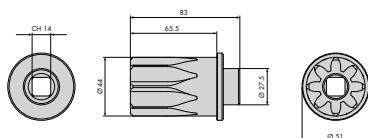
## Wrench for flywheel



Tool for engine flywheel rotation during the tappets adjustment.

-  ▶ Suitable for MAGNUM models

-  ▶  $\square$  1/2"



**Wrench for flywheel**

**514 008 000**



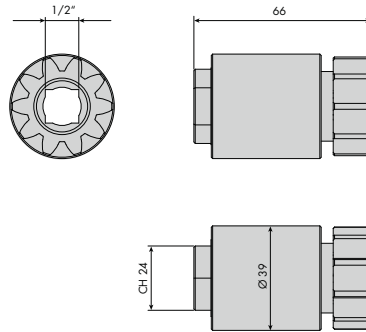


## Wrench for flywheel

Tool for engine flywheel rotation during the tappets adjustment.

 ▶ Suitable for RENAULT, VOLVO D13 models

 ▶ □ 1/2"



**Wrench for flywheel**

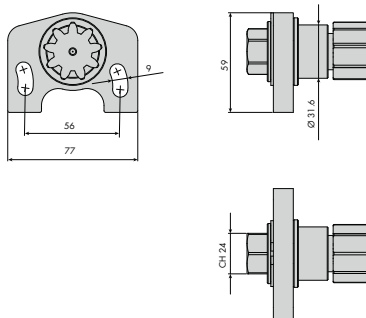
**514 005 000**



## Wrench for flywheel

Gear for engine flywheel rotation during the timing search.

 ▶ Suitable for VOLVO models



**Wrench for flywheel**

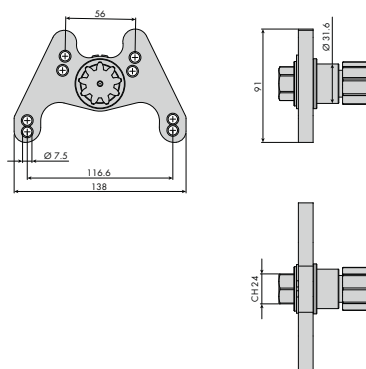
**513 001 000**



## Wrench for flywheel

Gear for engine flywheel rotation during the timing search.

 ▶ Suitable for VOLVO models



**Wrench for flywheel**

**514 007 000**

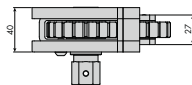
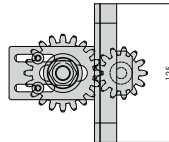
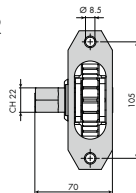


## Wrench for flywheel

System for dual gear engine flywheel rotation for timing search.

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

-  ▶ 2 gears




**Wrench for flywheel**

**513 004 000**

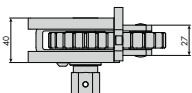
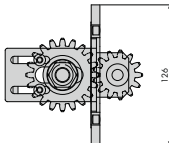
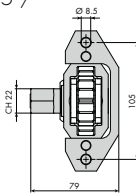


## Wrench for flywheel

System for dual gear engine flywheel rotation for timing search.

-  ▶ Suitable for IVECO
- ▶ Engine models: 8040-25-45 / 8060-25-45 /  
8460 / 8260 / 8280 / 8210.42 /  
190.38 / 190.42
- ▶ Suitable for Euro Cargo / Cargo  
Eurotech / Heavyon / Off Road /  
Bus models

-  ▶ 2 gears



**Wrench for flywheel**

**514 006 000**

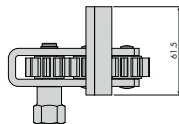
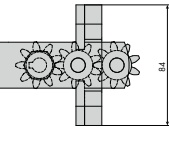
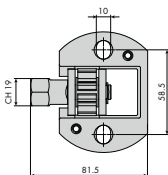


## Wrench for flywheel

System for triple gear engine flywheel rotation for timing search.

-  ▶ Suitable for MERCEDES ACTROS ATEGO models

-  ▶ 3 gears




**Wrench for flywheel**

**513 002 000**




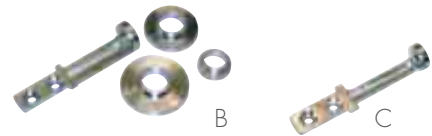
## Valve spring compressor **HEAVY DUTY**

Heavy duty pneumatic valve spring compressor. **ACCESSORIES INCLUDED.**

-  ▶ 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=196 Kg




Valve spring compressor <b>HEAVY DUTY</b>	<b>315 021 000</b>
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)	315 020 034

## Injector puller



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




<b>Injector puller</b>	<b>311 051 000</b>
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# GENERAL REPAIRS


## Ring extractor



Copper sealing ring extractor **SPECIFIC FOR TRUCK.**

 ▶ 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  $\varnothing$  10 mm



**Ring extractor**

**311 144 000**

## Honing tool



Adjustable honing at full expansion for trucks.

 ▶ Cylinders  $\varnothing$  60 - 260 mm  
▶ Stones length 127 mm



**Honing tool for trucks**

**314 003 000**


Spare parts: Serie 3 stones g. 220 - Length mm 127 (A)


**314 004 000**


## Oil/diesel oil filter wrench - 15 flutes



This wrench is particularly indicated for the Truck sector or the heavy industrial sector.

 ▶ Furthermore, the oil/diesel oil filter wrench 15 flutes is suitable for those filters that are hard to remove, as seals sticks between them due to heat; therefore, removal of the filter requires much strength. This wrench allows to work perpendicularly without damaging the thread on which the oil or diesel oil filter is screwed down.

 ▶ Motor filters: Vans, trucks, agricultural machinery, earth moving machinery, compressors, etc

 ▶ Internal diameter:  $\varnothing$  107 mm  
▶ 15 flutes  
▶ Connection: CH30



**Oil/Diesel oil filter wrench**

**312 066 000**



## Oil/diesel oil/settler - 14 flutes

This wrench is particularly indicated for the Truck sector or the heavy industrial sector.



- ▶ Furthermore, the oil/diesel oil filter wrench 14 flutes is suitable for those filters that are hard to remove, as seals sticks between them due to heat; therefore, removal of the filter requires much strength.

This wrench allows to work perpendicularly without damaging the thread on which the oil or diesel oil filter is screwed down

**The bush or wrench 24 mm avoids losing the grip on the filter key.**

**In this way all the strength is transferred on the wrench and therefore on the filter to be disassembled or assembled.**



- ▶ Motor filters: Vans, trucks, agricultural machinery, earth moving machinery, compressors, etc



- ▶ Ø 84 x H 66 mm
- ▶ Internal diameter: Ø 74 mm
- ▶ 14 flutes
- ▶ Connection: CH24
- ▶ With hole for the valves of settlers



Oil/diesel oil/settler

312 068 000



the toolmaker  
**GOVONI**

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