- •Required the assembly and removal of the valves
- Universal usageEnormous time and cost saving
- · Expansion of the cylinder head is generally not necessary
- ·Special steel

Application range: BMW, Ford, Mercedes, Opel, Porsche, VAG etc. with SV OHV and OHC engines





	Lampin com	å	
150.0918	305.0	745	

Valve spring clamp for Ford CVH-engines

• For clamping the valve springs in the course of restoration works in the area of the cylinder head

Application range: 1.3 / 1.4 and 1.6 litre of CVH engines in the Escort (incl. XR31 and RS Turbo), Fiesta (incl. RS Turbo)



	mm	L mm	9	
150.1160	24	100.0	320	

Valve spring tension

- Easy and quick change of the valve
- · Expansion of the cylinder head is not necessary
- •Use in conjunction with pneumatic adapter 150.1105 / 150 1107
- ·Special steel



	L mm	g	
150.1210	130.0	442	

Valve spring compressor for VAG

- For retaining the valve springs
- Replaceable plastic pressure piece
 Chrome vanadium
- ·Surface finished in hrome

Application range: e.g. VAG with tappet engines 1.3 - 1.8I with stud bolts M8





	Length	Spare thrust piece	å
150.0919	405.0	150.0919-1	700

- For the professional engine repair
- For retaining the valve springs
- •Universal usage
- •Includes 8 screws with pressure cone and 2 locking screws
- Chrome vanadium
- · Very high degree of accuracy

Application range: Citroën Berlingo, Xsara petrol engines with 1.0, 1.1, 1.4, 1.6I, and Peugeot 106, 205, 206, 306, 307, 405 with petrol engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	Length mm	kg	
400.9001	390.0	2.50	

Valve spring clamping yoke

- Robust, adjustable and cam assembly tool with parallel stroke
 The tool is to be sure special for motors with horizontal cam-
- shaft (OHC motors) conceives, can however also be used in small and medium-sized OHV engines where neede
 •The activity handles locks automatically after the clamping of
- the valve spring so that the hands remain free for removing and/or placing of the valve wedges

Application range: Passenger cars and vans





	Туре	Min span depth mm	Max span depth mm	Span width mm	Pressure pad small	Pressure pad big	kg
150.1135	1	10.0	135.0	160,0	25.0	30.0	2.00
150.1140	2	20.0	120.0	240,0	25.0	30.0	2.00

Valve spring compressor for Peugeot

- For assembly and removal of valve springs
- For fi ted or removed cylinder head For valve springs with tappet with Ø 38.0 mm
- Universal usage
- Chrome vanadium

Application range: Peugeot





	Length	8	
150.0924	400.0	1.22	

alve mounting bridge set

- For assembly and removal of valve springs
- For fi ted or removed cylinder head
 Can be used universally with various assembly and adjustment options
- · Enormous cost and time saving
- Removal of cylinder head not necessary for repair of valve shaft seals or valve springs
 • Flange fastenings can be attached crossways or parallel to
- the cam shaft axis from the cylinder head

 Optionally upgradeable with specific p essure pieces
- · Special steel

Application range: All cylinder heads from 1 to 12-cylinder engines, 2 to 4 valve technology for which the valves are arranged in a row or in a V.







			100	
160.0270	15 pcs	Valve mounting bridge set	8.28	

consists	DE:			
	x		9	
160.0271	2	Foot	1240	
160.0272	1	Rod	1940	
160.0273	2	O-ring 17 x 4	10	
160.0274	1	Pressure lever	880	
160.0275	1	Threaded pin M8 x 50	20	
160.0276	1	Clevis with spring cap bolts M8 x 32	60	
160.0277	4	Thrust bolt	60	
160.0279	2	Hexagon bolt M8	10	
160.0295	1	Valve pressure adaptors for mounting bridges	120	

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Valve pressure adaptors for mounting bridges

- · For assembly and removal of valve springs
- · For use in conjunction with valve mounting bridge
- ·Special steel







		Suitable for	å
160.0280	Pressure adaptor external Ø 21 mm	Peugot, Citrõen HDI	40
160.0281	Pressure adaptor external Ø 24 mm	Opel, Seat, Audi, VW	50
160.0282	Pressure adaptor external Ø 25 mm	Hyundai	60
160.0283	Pressure adaptor external Ø 28 mm	Toyota, Ford 16V	70
160.0284	Pressure adaptor external Ø 30 mm	Nissan	80
160.0285	Pressure adaptor external Ø 31 mm	Toyota	90
160.0286	Pressure adaptor external Ø 32 mm	Opel, Peugot	100
160.0287	Pressure adaptor external Ø 33 mm	Renault 19/Clio	120
160.0289	Pressure adaptor external Ø 35 mm	Penault, Mazda, Peugot 106, Mercedes M102, M104	130
160.0290	Pressure adaptor external Ø 37 mm	Fiat	140
160.0291	Pressure adaptor external Ø 38 mm	Peugot, Citrõen	150
160.0292	Pressure adaptor external Ø 40 mm	Mercedes OM 601, 602, 603	160
160.0293	Pressure adaptor external Ø 42 mm	Ford	170
160.0294	Pressure adaptor external Ø 44 mm	Flat Diesel	180
160.0295	Pressure adaptor external Ø 34 mm	BMW M40	120

Valve dismantling and assembly tool set

- · Assortment for changing of defective sealings on the cylinder head
- · Enormous time savings as the cylinder head does not need to be dismantled
- . For a correct and damage free use
- · In durable plastic storage case





			8	
150.1100	25 pcs	Valve dismantling and assembly tool set	4.20	

		8
115.1061	Valve shaft sealing Pliers, 275 mm	380
150.1101	Male coupling AG 1/4", TSC 06	20
150.1103	Male coupling AG 1/4", ORG 08	20
150.1104	Male coupling AG 1/4", IRC 06	20
150.1105	Pneumatic adaptor Ext.M14x1,25+M18x 1,5 m	220
150.1106	Hold down	380
150.1107	Pneumatic adaptor tube AG M14 x 1,25 + M18 x 1,5	80
150.1108		60
150.1109	Pneumatic adaptor AG M24 x 2,0 + IG M14 x 1,25	150
150.1110	Valve spring plate Adaptor	130
150.1111	Connection shaft, 510 mm	710
150.1112	Valve shaft sealing Pliers, angled	330
150.1113	Assembly sleeve	120
150.1114	Impact arbor	310
150.1115	Screw and bolt set, 14 pcs for hold down	60
150.1116	Cheeks for bridge 2 pieces	260
150.1117	Assembly sleeve No.6 17 x 11 mm	40
150.1118	Assembly sleeve No.5 15 x 10 mm	40
150.1119	Assembly sleeve No.4 13 x 8 mm	30
150.1120	Assembly sleeve No.3 12 x 7 mm	30
150.1121	Assembly sleeve No.2 10 x 6 mm	40
150.1122	Assembly sleeve No.1 10 x 5 mm	40
150.1124	Screw set for cheeks, 8 pcs	100

VALVE SHALT SEALING TOOLS

Valve shaft removal pliers

- ·Slim execution
- · Plastic coated laws
- Knurled handle
- · With self opening mechanism
- · Quick and easy removal of valves from the valve shaft · For the extension of the valve spring lever
- · Ideally suitable for engines with 4 valve technology
- · Nickel plated execution
- ·Special tool steel







	A mm	L1 mm	L2 mm	å	
115.1061	0-125	275,0	100.0	380	

Valve sealing ring pliers

- · For removing valve shaft seals on 2-valve engines
- · Hardened jaws
- · Longitudinal teeth
- · Functional area dip-insulated to avoid damage to the valve control
- Straight design
- Special steel

Application range: Volkswagen, Audi, Ford, Opel, Nissan etc.



	Length	å
115.3007	250.0	340

Valve sealing ring pliers, long

- · For removing valve shaft seals on multi-valve engines
- · For easy removal of deep seated valve shaft seals using extra-long jaws
- · Hardened jaws
- · Longitudinal teeth
- · Functional area dip-insulated to avoid damage to the valve control
- Straight design
- Special steel

Application range: Volkswagen, Audi, Ford, Opel, Nissan etc.



	Length	å	
115.3008	270.0	340	

Valve shaft sealing pliers

- ·Slim design
- · Knurled handle
- ·Quick and clean removal of valve shaft sealing rings
- For removal of the valve spring support
 Ideal for engines with 4 valve technology
- Nickel-plated finis
- · Special tool steel





	Length	å	
150.1112	275.0	330	- 2

Valve plate pliers for Volkswagen

- ·For replacing the valve plates
- Tempered tips
- · Special steel

Application range: Volkswagen tappet engines from 1.3 I



	Length max	8	
115.3009	265.0	220	- 8

- •For pushing on valve shaft seals Ø 7.0 mm on multi-valve
- Plastic

Application range: Multi-valve engines M104, M119, M120



	Length	å	
150.0945	165.0	80	

Valve shaft seal pusher

- For pushing on valve shaft seals Ø 7.0 mm and 8.0 mm
- · Phosphate finis
- · Special steel

Application range: BMW and Opel Omega B 2.5l turbo diesel



	Length	8	
150.8001	150.0	98	133

Slide hammer puller for valve shaft sealing ring

- · Special construction allows quick and easy removal of seized valve shaft sealing rings
- Universal usage
- · Secure working without damage to the tappet guide on the cylinder head
- · With collect and plastic sleeve
- ·Special steel







	Ø Guro mm	Longth		
150.0941	10 - 19	350.0	1.38	- 3

Valve shaft sealing ring tool set

- · Permits the assembly and removal of valve shaft sealing rings · Universal usage
- Damage-free operation due to wear-resistant plastic pusher
- ·Includes extra-long pliers and slide hammer puller with collets
- · In durable plastic storage case



			B	
150.3510	16 pcs	Valve shaft sealing ring tool set	3.36	

consists of:

		ě.	
150.3511	Push-on mandrel Ø 9.5 mm	60	
150.3512	Push-on mandrel Ø 10.0 mm	60	
150.3513	Push-on mandrel Ø 10.5 mm	60	
150.3514	Push-on mandrel Ø 11.0 mm	60	
150.3515	Push-on mandrel Ø 11.5 mm	60	
150.3516	Push-on mandrel Ø 12.0 mm	60	
150.3517	Push-on mandrel Ø 12.5 mm	60	
150.3518	Push-on mandrel Ø 13.0 mm	60	
150.3519	Push-on mandrel Ø 13.5 mm	60	
150.3520	Push-on mandrel Ø 14.0 mm	60	
150.3521	Push-on mandrel Ø 15.0 mm	60	
150.3522	Collet for valve shaft sealing ring	340	
150.3523	Collet for valve shaft sealing ring, small	240	
150.3524	Slide hammer puller basic unit	1220	
150.3526	Plastic sleeve	20	
115.3008	Valve sealing ring pliers, long	340	

GASKET SCRAPER

STAINLESS STEEL Chisel scraper

- · Ideal for removing stickers, seal and glue residues
- · Also suitable for the removal and chiselling of plates or welding spots
- · Heavy, continuous stainless steel blade that can be resharpened
- With reinforcement eyelet
 With hammer cap on the handle
- With ergonomic moulded two component handle
- · Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
 Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- · Rust-proof and acid resistant
- · Stainless steel

STAINLESS STEEL Chisel scraper set

- · Continuous stainless steel blade that can be re sharpened
- With reinforcement eyelet
 With hammer cap on the handle
- ·With ergonomic moulded two component handle
- · Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
- · Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- Stainless steel



			å	
907.2210	4 pcs	32 x 1,2; 32 x 2,5; 25 x 1,2; 25 x 2,5 mm	580	

- · Ideal for removing stickers, seal and glue residues
- · Blades can be re-sharpened
- ·Blade 10° angled
- · Extra-long design for hard to reach areas
- Also for removing extremely stubborn impurities and seal residue
- · With ergonomic moulded one component handle





	B mm	L1 mm	L2 mm	å	
907.2231	12.5	200.0	100,0	120	
907.2232	25.0	200.0	100,0	140	
907.2233	12.5	300.0	200,0	180	
907.2234	25.0	300.0	200,0	200	

Gasket scraper set

- · Ideal for removing stickers, seal and glue residues
- ·Blades can be re-sharpened
- ·Blade 10° angled
- ·Extra-long design for hard to reach areas
- Also for removing extremely stubborn impurities and seal residue
- ·With ergonomic moulded one component handle



	B mm	D mm	L mm	å	
907.2211	32.0	1,2	190.0	160	
907.2213	25.0	1,2	165.0	100	
907.2212	32.0	2,5	190.0	160	
907.2214	25.0	2,5	165.0	110	



			å	
907.2230	4 pcs	12,5 x 200; 25 x 200; 12,5 x 300; 25 x 300 mm	1.28	

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Gasket scraper set

- · For removing seal residue, e.g. cylinder head seals
- With replacement blade
 Extra-long design for hard to reach areas
- Angled blade head
- · With ergonomic moulded two component handle
- · Special steel





			å	
907.2280	2 pcs	Gasket scraper set	180	

consists of:

		å	
907.2281	Scraper, 270 mm	155	- 8
907.2282	Scraper blade	5	

Scraper blades

- •5 replacement blades for seal scraper 907.2280
- For removing seal residue, e.g. cylinder head seals
 For angled blade head
- · Special steel



	Content	Length	Width	Height	å	
907.2285	5	22.0	12.0	21.0	25	

SEALING RING TOOLS

Double hook tool

- sickle-shaped
- For the removal of sealing rings
- Quick and easy to remove
- Long durability through hardened leverage
- Universal usage
- ·With one component handle







	L1 mm	L2 mm	L3 mm	D	å
550.1060	300.0	195.0	85.0	12.0	380

Slide hammer puller with thread tip

- · For the removal of radial shaft seals and small bearings
- · For hard to reach places too
- · Quick and easy to remove
- · Using the blow weight the thread tip is hit into the radial shaft seal and turned by hand and then removed with the blow weight
 • Universal usage
- ·With two component handle
- Special steel
- · Diameter of thread tip: 1,5 4,7mm
- Total length of thread tip: 13,9mm



	Total length risks		Made National Inc.	Tripled smight	å
150.3611	380.0	250.0	8.0	0.32	500

- · For the removal of radial shaft seals and small bearings
- · For hard to reach places too
- · Quick and easy to remove
- · Using the blow weight the thread tip is hit into the radial shaft seal and turned by hand and then removed with the blow weight
- ·Long durability through hardened leverage
- Universal usage
- Special steel



		Pg.	20 02	
			å	
150.3610	2 pcs	Radial shaft seal remover set	880	

consists of:

		å	
550.1060	Gasket ring dismantling tool	380	
150.3611	Slide hammer puller with thread tip	500	

- ·Ideal for removing and use of O rings and seals
- · Special steel





consists of:

		å	
550.1041	Hook tool with double blade 90° shortl/180° short angled	11	
550.1042	Hook tool with double blade 45° long / 90° long	11	

Magnet and hook tool set

- · Ideal for removing and inserting O-rings and seals
- With telescopic magnet attachment and replaceable hook
 Storage compartment in the handle for the various attach-
- ments
- · Special steel







			å	
550.1080	6 pcs	Magnet and hook tool set	70	

		8	
550.1081	Basic unit	35	
550.1082	Telescopic magnet attachment, 90 - 390 mm	13	
550.1083	Hook attachment, straight, 75 mm	5	
550.1084	Hook attachment, 90°, 75 mm	5	
550.1085	Hook attachment, 120°, 75 mm	5	7
550.1086	Hook attachment, lateral bend, 75 mm	5	

Hook tool set

- Ideal for removing and use of O rings and seals
 With one component handle
- · With hanging hole
- Special steel



			å	
550.1045	4 pcs	Hook tool set	120	

		å
550.1046	Hook tool 120mm blade, straight version	27
550.1047	Hook tool 120mm blade, 45° angled version	27
550.1048	Hook tool 120mm blade, 90° angled version	27
550.1049	Hook tool 120mm blade, 135° angled version	27

- · Ideal for removing and use of O rings and seals
- ·With hanging hole
- · Special steel



			9	
550.1070 9	pos	Master hook tool set	680	100

consists of:

		8
550.1046	Hook tool 120mm blade, straight version	27
550.1047	Hook tool 120mm blade, 45° angled version	27
550.1048	Hook tool 120mm blade, 90° angled version	27
550.1049	Hook tool 120mm blade, 135° angled version	27
550.1071	Hook tool large, straight	91
550.1072	Hook tool large, 90*offset	105
550.1073	Hook tool large, sickle form	88
550.1074	T-handle hook tool, S-form small	42
550.1075	T-handle hook tool, S-form big	96

Sealing ring removal tool for VAG

- · For the quick and correct removal of the sealing rings on engine shafts such as the crank shaft, cam shaft or intermediate shaft
- · Enormous cost and time saving
- · No need to strip the engine
- Universal usage
- With external drive hexagonal socket 22.0 mm
 With internal square drive to DIN 3120 / ISO 1174
- · Special steel

Application range: e.g. Volkswagen, Audi, Seat, Škoda engines etc.



	mm	Ø	Length		
150.3616	22.0	27,0	67.0	465	
150.3617	22.0	32,0	68.0	622	
150.3618	22.0	55,0	69.0	757	

Sealing ring assembly set for BMW

- · For assembly and removal of sealing rings
- · Specially for the front crankshaft radial sealing ring
- Includes puller and mounting tool
- · Special steel
- · In durable plastic storage case

Application range: BMW engines N40, N42, N43, N45, N45T, N46, N51, N52, N52K, N53, N54



			100	
150.3625	4 pcs	Sealing ring assembly set for BMW	2.18	

consists of:

		8
150.3626	Extraction tool	500
150.3627	Mounting tool Ø 90 mm	280
150.3628	Mounting tool Ø 60 mm	560
150.3629	Mounting tool nut	100

Assembly tool set for sealing fla ge with sensor wheel

- · For the correct and damage-free assembly of the sealing fla ge
- With integrated pulse sensor wheel
- Exact sensor wheel adjustment Precise sensor signal
 No need for reworking with repeated removal of the gearbox
- · Enormous time and cost saving

Application range: Volkswagen, Audi, Seat, Škoda, petrol and diesel engines e.g. 1.4, 1.4 16V, 1.4 TSI, 1.6 FSI, 1.6 TDI, 1.9 TDI, 2.0 TDI, 2.0 TDI BiTDI, 2.0 TDI Quattro at Audi (A1, A2, A3, A4, A5, A6, Q3, Q5, TT), Volkswagen (Amarok, Beetle, Caddy, Eos, Polo, Golf, Jetta, Passat, Scirocco, Sharan, Tiguan, Touran), Seat (Alhambra, Altea, Cordoba, Exeo, Ibiza, Leon, Toledo), Škoda (Fabia, Octavia, Rapid, Roomster, Superb, Yeti)

MC: AHW / AKQ / APE / AXP / AZV / BAG / BCA / BLS / BKD BKP / BLP / BLF / BMA / BMN / BMR / BNA / BRF / BUD / BXW / CAAA / CAAB / CAAC / CAAD / CAAE / CAGA / CAGB / CAGC / CAHA / CAHB / CAXC / CAYA / CAYB / CAYC / CAYD / CAYE / CBAA / CBAB / CBAC / CBBA / CBBB / CBDA / CBDB / CBDC / CCHA / CCHB / CDBA / CDCA / CEGA / CFCA / CFFA / CFFB / CFFE / CFFD / CFGB / CFGC / CFGD / CFHA / CFHB / CFHC / CFHF / CFHD / CFJA / CFJB / CGGA / CGGB / CGLA / CGLB / CGLC / CGLD / CJAA / CJCA / CJCB / CJCC / CJCD / CKUB / CKUC / CKTB / CKTC / CLCA / CLCB / CLJA / CLLA / CLLB / CLNA / CMFA / CMFB / CMGA / CMGB CMSA / CNEA / CNFA / CNFB / CSHA / CSLB



			8	
150.3650	7 pcs	Assembly tool set for sealing fla ge with sensor wheel	1.74	

	x		*	
150.3651	1	Housing with centring pin	880	
150.3652	1	Flange with spindle and nut	460	
150.3653	2	Guide bolts, Ø 10 mm	30	
150.3654	3	Guide bolts, Ø 6 mm	31	

Universal crank seal remover and installer set

- · Suitable for the damage-free and correct assembly and removal of radial shaft seals and drive shaft circlips
- · For tight-fit appli ation on engine shafts such as crank shaft, cam shaft or intermediate shaft
- · Can used universally for radial sealing rings in diameters from 21.5 mm to 64.0 mm
- · Enormous cost and time saving
- ·No need to strip the engine
- Prevents damage to the aluminium fi s
 Set contents for extensive applications
- Includes puller and pressing tool · Prevents the ring from becoming loose
- In durable plastic storage case

Application range: Extensive universal tool including pressing tools for radial sealing rings in diameters from 21.5 mm to 64.0 mm on almost all vehicles





			*0
700.1280	24 pcs	Universal crank seal remover and installer set	1.90

consists of:

		8	
700.1277	Steel sleeve 22 mm, long for 700.1280	180	
700.1278	Steel sleeve 27 mm, long for 700.1280	220	
700.1279	Main body for 700.1280	140	
700.1281	Hook 70 mm, for 700.1280 5 pcs	12	
700.1282	Hook 114 mm, for 700.1280 5 pcs	22	
700.1283	Adapter sleeve for 700.1280	75	
700.1284	Nut 20.2 mm for 700.1280	25	
700.1285	Nut 18.2 mm for 700.1280	23	
700.1286	Nut 16.2 mm for 700.1280	21	
700.1287	Nut 14.2 mm for 700.1280	19	
700.1288	Nut 12.2 mm for 700.1280	17	
700.1289	Nut 10.2 mm for 700.1280	15	
700.1290	Nut 8.1 mm for 700.1280	10	
700.1291	Adapter 27.6 mm for 700.1280	37	
700.1292	Adapter 45.9 mm for 700.1280	27	
700.1293	Adapter 48.9 mm for 700.1280	27	
700.1294	Adapter 56 mm for 700.1280	35	
700.1295	Adapter 64 mm for 700.1280	55	
700.1296	Adapter 33.6 mm for 700.1280	35	
700.1297	Adapter 41.9 mm for 700.1280	30	
700.1298	Steel sleeve 10 mm for 700.1280	80	
700.1299	Steel sleeve 18 mm for 700.1280	145	



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VALVE SEAT CUTTER

Universal valve milling set for valve seat machining

- *For cutting valve seats on internal combustion engines
- Suitable for hardened valve seats (lead free)
- With seat angles 30° + 45° and correction cutters 30°, 60° + 75°
- •Optimum cutting head guidance by means of expander pilots
- Clean cut surface with no chatter marks
 Adjustable working diameter by means of moveable cutting blades
- Cutter blades from special steel
- In durable plastic storage case

Application range: Passenger cars and vans







			å	
150.3570	12 pcs	Universal valve milling set for valve seat machining	1.90	

consists of:

		g	
150.3571	Drive tool with T-bar	400	The state of the s
150.3572	Cutting head, 45° + 75°, Ø 28-37 mm	50	
150.3573	Cutting head, 30° + 75°, Ø 28-37 mm, Ø 37-44 mm	65	1
150.3574	Cutting head, 45° + 60°, Ø 37-46 mm	95	
150.3575	Cutting head, 30° + 75°, Ø 44-52 mm, Ø 37-46 mm	105	
150.3576	Cutting head, 45° + 30°, Ø 46-60 mm	175	- A
150.3577	Cutting head, 60° + 75°, Ø 52-65 mm	150	- 8
150.3578	Expander pilot, Ø 7,0 - 8,0 mm	60	
150.3579	Expander pilot, Ø 8,0 - 9,5 mm	80	
150.3580	Expander pilot, Ø 9,0 - 11,0 mm	100	
150.3581	Expander pilot, Ø 11,0 - 12,5 mm	130	
150.3582	Pilot, Ø 5,5 mm	45	

VALVE CUTTER

Valve grinder

- · With two sided sucker
- · For grinding the valve seat in the cylinder head
- ·Body made out of sealed hard wood
- Suckers made out of rubber





		L	å	
150.1133	16/21	210.0	60	
150.1131	19/22	245.0	33	
150.1132	22/32	255.0	34	
150.1134	29/35	225.0	60	- 0

Valve seat grinding set

- · With two sided sucker
- · For the bow on the valve cest in the cylinder head
- ·Body made out of sealed hard wood
- Suckers made out of rubber



			8	
150.1130	2 pcs	Valve seat grinding set	2.21	

		å	
150.1131	Valve set grinder 19/22 mm, 245 mm long	33	
150.1132	Valve set grinder 22/32 mm, 255 mm long	34	

Valve grinding tool with 2 suction discs

- ·8 mm bore reception
- · For the grinding of the valve seats for repair work
- The detention of the device body is automatically generated via a transmission, the typical right left wing movement used in grinding
- · Gives you convenient and rapid seat grinding with the drill between approx. 500-1.000 rpm



	mm L	Papitooment plain 27:22 mm	Peoplesament plate II 26 mm	å	
150.1165	130.0	150.1166	150.1167	442	

Pneumatic valve grinding tool with 4 suction discs

- · For grinding the valve seats after repair work
- · Allows convenient and rapid grinding
- · In durable plastic storage case





	9		*6
515.2005	5 pcs	Pneumatic valve grinding tool with 4 suction discs	1.69

		8	
515.2006	Pneumatic valve grinder	1430	
515.2007	Sucker, Ø 20 mm	4	
515.2008	Sucker, Ø 30 mm	7	
515.2009	Sucker, Ø 34 mm	16	
515.2010	Sucker, Ø 45 mm	20	1

VALVE WEDGE ASSEMBLY

edge assembly tool Ø 5mm, Opel, Volkswagen, Audi

- · For the assembly of valve wedges
- · Easy to fit ven in cramped spaces
- Also suitable for valve springs that are arranged deep in the cylinder head or are seated in a cup guide
- · Allows easy and secure assembly of one- and three-grooved valve wedges on fi ted and removed cylinder head
- · Special steel

Application range: Opel, Volkswagen, Audi







	Ø	å	
150.7056	5	50	100

VALVE ADJUSTMENT TOOLS

Valve adjustment push-through square

- · Push-through square
- · Valve adjustment tool for spinning the engine when adjusting the valve, control times
- · Serviceable from both sides
- . For use with a 1/2" push-through ratchet
- · Special steel

Application range: Mercedes engine type 102, 103, 104, 110, 115, 116, 117, 119, 120, 123



	Length	å	
150.3585	80.0	80	

- · Ratchet with 1/2" square drive
- · E.g. for tuning the engine crank alignment tool





	L	*	
130.1000	270.0	500	

Valve adjustment spar

- For adjusting the valves
- · Prevents the valve plate
- Universal usage
- •Can be used in conjunction with 150.3589 or 150.3590
- ·Special steel





		Length mm	å	
150.3587	30,0	170.0	135	

Valve adjustment spanner

- For adjusting the valvesCan be used in conjunction with 150.3587
- ·Can be used in pairs
- ·Special steel





mm	Longth	å	
14,0	225.0	140	
14,0	160.0	100	
	1-1/0	14,0 225.0	14,0 225.0 140

PISTON RING TOOLS

Piston ring pliers

- PVC dipped handle
- For the safe disassembly and assembly of piston rings
- · Nickel plated surface
- · Special tool steel





	Ø mm	A mm	L mm	9
150.1175	50-100	0-100	210.0	305
150.1176	80-120	0-120	220.0	340
150.1177	110-160	0-160	280.0	445

Piston ring pliers

- · Special wheel clamps with suspension hole for fixi g the piston ring when splaying

 • With restriction of the splaying dimension
- Special steel



	Ø	Ø	å	
115.1301	83-135	3.1/4" - 5.5/16"	330	

Piston ring pliers

- For the removal and replacement of piston ringsSuitable for most passenger cars and vans
- Plastic coated handle
 Self closing pliers
- ·Special steel



	L mm	9	
150.1179	221.0	210	

Piston ring tensioning tool

- · Flexible tool for assembly and removal of piston rings
- Profiled ension band Ø 38.0 mm
 Low friction between tension band and piston ring
- •The profile band annot slip between the piston and cylinder
- Universal usage



	Ø	å
115.3014	75,0-125,0	123

Piston ring tension band set

- For the pretensioning of the piston rings when inserting the
- piston in the cylinder
 Self locking ratchet function
- · Phosphate finis
- In durable plastic storage case



70 0			kg	
150.1150	7 pcs	Piston ring tension band set	1.62	

		å	
150.1151	Piston ring tension band plier	380	
150.1152	Tension band, Ø 73 - 79 (2.7/8" - 3.1/8")	90	- 4
150.1153	Tension band, Ø 79 - 86 (3.1/8" - 3.3/8")	90	
150.1154	Tension band, Ø 86 - 92 (3.3/8" - 3.5/8")	100	1
150.1155	Tension band, Ø 92 - 98 (3.5/8" - 3.7/8")	110	
150.1156	Tension band, Ø 98 - 105 (3.7/8" - 4.1/8")	110	
150.1157	Tension band, Ø 105 - 111 (3.7/8" - 4.3/8")	120	

iston ring tension band

- For the pretensioning of the piston rings when inserting the piston in the cylinder
- · Continuous adjustment of operating tool
- ·Spring steel strip



	Ø mm	Ø	H mm	g
150.1141	45 - 90	1.3/4" - 3.1/2"	50.0	158
150.1142	57 - 125	2.1/4" - 5"	100.0	300
150.1143	90 - 175	3.1/2" - 7"	100.0	340
150.1144	90 - 175	3.1/2" - 7"	165.0	555

CYLINDER LINER TOOLS

ecuring straps for PSA

- · Prevents the lift-off of the cylinder liners from their seat
- Securing straps prevent the cylinder liners coming away from the engine block
- Can be used with wet cylinder liners
- Supplied in pairs
- ·Special steel

Application range: Citroen, Peugeot and Renault engines



		Hale spacing min.	fighe diameter	Length	å	
150.3593	2 pcs	75,0-106,0	12.0 mm	130.0	260	

ever for cylinder head for PSA

- · For removing cylinder heads on engines with wet cylinder liners
- · Prevents the lift-off of the cylinder liners from their seat
- · Cylinder head should not be lifted off, but instead rolled off to the side and secured with the securing straps 150.3593
- Supplied in pairs
 Special steel

Application range: Citroen, Peugeot and Renault etc.



		Disal Disal	Langth mm.	-	
150.3594	2 pcs	12.0	280.0	1.14	- 8

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CYLINDER HON DEVICES

Cylinder honing machine

- · For honing / deburring of cylinders, bearings, bores, pipes, etc
- Interchangeable honing
- Automatic spigot end and exact honing
 Flexible drive shaft for air or electric drills
- · Special steel

Application range: Automotive brake and clutch cylinders, engine cylinders of motor cycles, lawn mowers, outboard motors, hydraulic cylinders, marine and industrial engines, etc.





	Ø mm	Ass	Money stone 901	kg	
150.1180	18 - 63	2	150.1181	0.90	
150.1185	19 - 69	3	150.1186	1.30	
150.1190	32 - 89	3	150.1191	1.40	
150.1195	51 - 177	3	150.1196	1.90	- 8

- Replacement honing stones for 150.1195
- For Honing/Deburring of cylinders, bearings, bores, pipes, etc.
- · Special steel

Application range: car brake and clutch cylinders, engine cylinders of motorbikes, lawn mowers, outboard motors, hydraulic cylinders, ship engines and industrial motors, etc.



		L	å
150.1181	2 pcs	28.8	10
150.1186	3 pes	28.8	15
150.1191	3 pcs	51.0	30
150.1196	3 pcs	76.0	80

TEST AND MEASURING TOOLS

Precision straightedge

- In accordance with DIN 874/00
- Hand warmth protection
 Test area precise and fin ly engineered
- Flatness tolerance for highest accuracy
- · For controlled and test working in the light gap procedure
- Hardened
- ·Stainless steel





	L mm	H	å
300.0630	50.0	25.0	40
300.0631	75.0	25.0	60
300.0632	100.0	25.0	80
300.0633	125.0	25.0	100
300.0634	150.0	25.0	120
300.0635	200.0	25.0	160
300.0636	300.0	25.0	240
300.0637	400.0	25.0	320
300.0638	500.0	25.0	400
300.0639	600.0	25.0	480

- · For the inspection and the exact working on cylinder heads
- In accordance with DIN 874/1
- · Double T profile ail with rear 5 hand slots
- On edge and fl t sides examination process
- Hanging hole

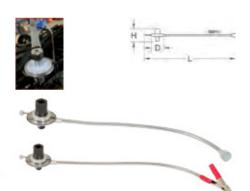






	mm.	H	S mm	NO.	
152.1090	600.0	30.0	16.0	2.10	

- · For fastening screws at an angle
- Device for angle regulated fastening with a torque wrench
- Flexible arm
- •Range 0° 360°
- Square drive adaptor to DIN 3120 ISO 1174 with ball lock
- · Optionally with a magnetic arm or claw arm





Electronic professional stethoscope

- · For the professional defect diagnosis
- · Serves the acoustic test and judgment of a component under load
- · Delivers fast, absolutely clear and unambiguous test results over sounds
- . Contains 6 independent sensors that can mounted for exam-
- ple on the vehicle floor or in the engine compartment for ease ·Simple coordination of the defect source through colour
- coded cable and colour table on the box In durable plastic storage case

Application range:

Engine: Valves, baerings, piston pins Alternator: Bearing sounds

Differential: Barrel sounds

Bodywork: Creak and squeak sounds



			S.	
150,1695	18 pcs	Electronic professional stethoscope	2.50	

		å	
150.1695-	Headset for 150.1695	350	
150.1695-	Amplifier or 150.1695	115	
150.1695-	Hand held stethoscope for 150.1695	165	
150.1695-	Velcro strap for 150.1695, 8 pcs	9	
150.1695-	Sensor for 150.1695	10	
150.1695	Coulour coded cable for 150.1695, 6 pcs	755	



- •For synchronous measurement on 2 4 carburettors with vacuum connection to the carburettor
- · After adjustment and inspection of the valve clearances the carburettors should be synchronised
- Universal usage
- •Unit for vacuum measurement: 0-70 cmHg / in0-30 inHg
- Generally necessary after a major inspection
 Optimum results for mechanical function-free engines
- Must be used with running engine
 Pressure gauges are fi ted on the plate
- In durable plastic storage case

Application range: Multi-cylinder engines require synchro-nous opening of the throttle valve Through tolerances in the intake system, adjustment of the throttle valve stop is not sufficien . Dynamic adjustment is required her. Through synchronisation, the same vacuum is reached before the carburettors. A dial is required for each carburettor for synchronisation. Adjustment of the individual compressors is done via the adjustment mechanisms.



			å	
150.3600	28 pcs	Synchronous carburettor test device with 4 synchronous clocks	3.00	

consists of:

	x		å
150.3601	4	Pressure gauge Ø 92 mm fi ted on the plate	1600
150.3602	4	Rubber house 8 x 5 x 750 mm	20
150.3603	4	Hose clamp with replacement sealing ring	1
150.3604	4	Connection piece 53 mm, M6 x 0.75 mm	8
150.3605	4	Connection piece 60 mm, M6 x 1.0 mm	12
150.3606	4	Extension 3.9 x 52 mm	8
150,3607	4	Extension 3.9 x 122 mm	12

Oil pressure testing equipment

- · Quick safe and problem free testing of the oil pressure on the engine
- ·incl. 10 adaptors
- · Colour coding: Black= metric / silver = imperial
- Adaption with oil pressure sensor thread
 Manometer Ø 80 mm with rubber safety cover
- Flexible tube (L=1.3 m) with anti-kink device, decompression valve and quick coupling
- Robust execution
- In durable plastic storage case





			kg	
150.1920	12 pcs	Oil pressure testing equipment	1.89	

		g	
150.1921	Manometer with tube, 10 bar	594	
150.1922	90° Adaptor angled	44	
150.1920-1	Screw adaptor no 1, R1/8"	23	
150.1920-10	Screw adaptor no 10, M18 x 1.5	34	
150.1920-2	Screw adaptor no 2, 1/8" x 27 NPT	24	
150.1920-3	Screw adaptor no 3, 1/4" x 18 NPT	33	
150.1920-4	Screw adaptor no 4, 3/8" x 20 UNF	23	
150.1920-5	Screw adaptor no 5, 1/2" x 20 UNF	27	
150.1920-6	Screw adaptor no 6, M10 x 1.0	24	
150.1920-7	Screw adaptor no 7, M12 x 1.5	24	
150.1920-8	Screw adaptor no 8, M14 x 1.5	29	
150.1920-9	Screw adaptor no 9, M16 x 1.5	33	

CO² Cylinder head leak testing set

- For the locating of leaks on combustion engines
 Rational and dependable finding of cracks and leakages
- Potential CO2 content in the coolant solution is detected
- Ideally suited for the cylinder head, cylinder head seals and engine block
- · Leakages are visible through discoloration of the test flui
- For all current vehicles with water cooled engines (Gas, Diesel and Petrol)
- Automatic regenerating reaction fluid or multiple use
- In durable plastic storage case

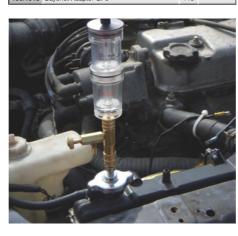




			NO.	
150.1910	8 pcs	COº Cylinder head leak testing set	1.43	

consists of:

		9	
150.1911	Intake-squeeze bulb	30	
150.1912	Two way brass valve	120	
150.1913	Basic device with 2 Test chambers and cones	120	
150.1914	Reaction flui , 250 ml	250	
150.1915	Empty container, 250 ml (for required flui)	30	
150.1916	Bayonet Adaptor Gr 1	60	
150.1917	Bayonet Adaptor Gr 2	80	
150.1918	Bayonet Adaptor Gr 3	110	





Cylinder leak detector tester set

- For diagnosis of compression pressure loss
 Suitable for analysing inlet and outlet valves, piston rings or cylinder liner, cylinder head or head seal • Better alternative for compression measurement
- Universal usage
- Integrated pressure reducer
- •Necessary working pressure: 1.0 bar
- · For use on engines at operating temperature
- In durable plastic storage case

Test results:

Outlet valves not tight:

Air noises in exhaust, manifold and cylinder head on the outlet side

Inlet valves not tight:

Air noises in intake, on cylinder head on the inlet side

Piston rings, pistons, cylinder bore damaged:

Air noises on the crankcase breather or on the dipstick

Cylinder head seal defective:

Air noises in the adjacent cylinder, spark plug bore

Cylinder head seal defective or tear in cylinder head Air noises or bubble formation in the cooling system or reservoir



			8	
150.1780	9 pcs	Cylinder leak detector tester set	2.30	

		9	
150.1781	Test device with dual display: Input pressure 0-7 bar + pressure loss display 0-100%	570	
150,1782	Hose 14/18 mm	132	
150.1783	House with adaptor	108	
150.1784	Adapter M10 x 1.0 mm	280	
150.1785	Adaptor M12 x 1,25 mm	310	
150.1786	Adapter M14 x 1.25 mm	330	
150.1787	Adapter M14 x 1.25 mm, long design	550	
150.1788	Spark plug adapter M12 x 1.25 mm	251	
150.1789	Spark plug adaptor M14 x 1.25 mm	255	

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Compression pressure test instrument for diesel engines

- · Complete test tool set with or without direct injection
- Compact adaptor pieces with quick couplings
 Includes extensive adaptor assortment
- · Very fl xible tube for hard to access places
- · In durable plastic storage case



Technical data:

0,0-70,0 bar Tube length: Manometer gauge: bar, psi or KPA

			10	
150.1680	13 pcs	Compression pressure test instru- ment for diesel engines	2.56	

consists of:

		å	
150.1680	Manometer with tube	640	
150.1680	Glow plug adaptor, M10x1,25	40	_
50.1680	Glow plug adaptor, M12x1,25	40	_
150.1680	Glow plug adaptor, M14x1,25	70	
150.1680	Compression pressure test adaptor, 114mm	220	
6	Compression pressure test adaptor, M24x2	160	
7	Compression pressure test adaptor	60	
50.1680	Glow Plug Adaptor M 10 x 1,25	60	Т
150.1680	Glow plug adaptor, M10x1	45	
150.1680	Compression pressure test adaptor	145	
150.1680	Replacement sealings and washers	15	Ī
150.1680	Angle connecting piece	50	Ī
150.1680	Clamp arch	70	Ī

Digital compression pressure test set for petrol engines

- For dry and wet compression tests
 Compact adaptor pieces with quick couplings
- · Includes extensive adaptor assortment and analogue manometer (psi)
- Digital manometer with reading storage up to 12 cylinders
- By means of brass coupling the repair is possible on valve seals without dismantling of the cylinder head
- Very fl xible tube for hard to access places
- In durable plastic storage case



			ŝ	1,54 110
150.1650	10 pcs	Digital compression pressure test set for petrol engines	2.20	0.

		å	
150.1650-1	Manometer digital	420	
150.1650-10	Replacement seals and valve assortment	5	
150.1650-2	Manometer analogue	120	
150.1650-3	Adaptor tube M18 x 1,5	100	
150.1650-4	Adaptor tube M14 x 1,25 long	90	
150.1650-5	Adaptor tube M14 x 1,25 short	110	
150.1650-6	Adaptor bush L=64 mm, M18 x 1.5	105	
150.1650-7	Adaptor bush L=42 mm, M12 x 1.25	40	
150.1650-8	Adaptor bush L=42 mm, M10 x 1,0	40	
150.1650-9	Coupling 1/4" IG	80	

Master fuel injection system pressure test set for petrol

- ·Ideal for quick and reliable pressure testing on all common injection systems of petrol engines
- For simple testing of fuel pumps, system pressure sensors and tightness
- Suitable for mechanical and electrical petrol injection systems
 For almost all common, European, Asian and American
- vehicle types
- Includes shock-proof, large precision manometer Ø 100.00 mm, 0 10 bar with rubber cover
- Includes shock-proof, small precision manometer Ø 75.00 mm, 0 1 bar especially for the central injection with rubber cover
- · Compact quick couplings to all adapters and hoses
- ·Replacement washers (20 pieces) are available in the set
- · In durable plastic storage case

Application range / injection systems: Bosch K-Jetronic, Bosch L/LH-Jetronic, Bosch Motronic, Bosch Motronic-Jetronic, MPFI, TBI, Eci, MPi, EFI, EGI, PGM-Fi, DIGIFANT 1/2, CIS-Digital, Weber CFI, Spi, Singlepoint, Multipoint, Multec SPi, EFI, Simtec EFI, 1-Tec, Magent Marelli G5/G6 Mono, Weber-Marelli 1AW, CFI, Volkswagen 1AW, R Electronc etc.





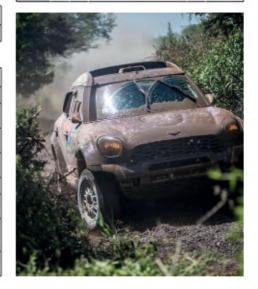
			8	
150.2325	42 pcs	Master fuel injection system pres- sure test set for petrol engines	4.00	

consists of:

	x	Tipe		å
150.2326	1	A	Manometer Ø 100.0 mm, 0 - 10 bar with 1/4" guick coupling	360
150.2327	1	В	Manometer Ø 75.0 mm, 0 - 1 bar with 1/4" quick coupling	202
150.2328	2	GA	Adapter piece M14x1.5 internal thread and 1/4" hose connection	41
150.2329	2	GT	Adapter piece M16x1.5 internal thread and 1/4" hose connection	39
150.2340	1	GS	Double-sided adapter piece 5/8"x18 internal thread	28
150.2341	2	GV	Adapter piece 5/8"x1.8 external thread and 1/4" hose connection	26
150.2342	2	GU	Adapter piece M16x1.5 external thread and 1/4" hose connection with sealant ring	48
150.2343	2	GB	Adapter piece M14x1.5 external thread and 1/4" hose connec- tion with sealant ring	39

consists of:

Consists	X	Type		å
	_	_	Constitution and and an alternative	9
150.2344	1	GC	Connection adapter piece M14x1.5 external thread and 16 mm hexagon with sealant ring	37
150.2345	1	AE	Adapter piece (long) M8x1.0 external thread and 1/4" hose connection with sealant ring	70
150.2346	1	AB	Dual adapter piece M16x1.5 internal and external thread and 3/8" hose connection	65
150.2347	1	AA	Dual adapter piece M14x1.5 internal and external thread and 3/8" hose connection	65
150.2348	1	Al	Adapter piece M10x1.0 external thread and 1/4" hose connec- tion with sealant ring	35
150.2349	1	AJ	Adapter piece M10x1.0 internal thread and 1/4" hose connection	21
150.2360	1	но	Hollow bolt M8x1.0 and 1/4" hose connection	22
150.2361	1	HN	Hollow bolt M6x1.0 and 1/4" hose connection	19
150.2362	1	G	Manometer connection hose with 1/4" hose connection with valve for Bosch CSI and GM TBI systems	110
150.2363	1	w	Manometer connection hose with 1/4" hose connection for Ford EFI systems	324
150.2364	1	F	Manometer connection hose with 1/4" hose connection for universal use with 3/8" and 5/16" high-pressure hose connections	160
150.2365	1	С	Adapter hose for small Schrader valve 5/16"x32 UNF internal thread and 1/4" hose connection	95
150.2366	1	D	Manometer connection hose with 1/4" hose connection including pressure release valve, transparent hose	110
150.2367	1	E	Adapter hose for standard Schrader valve 7/16"x20 UNF internal thread and 1/4" hose connection	116
150.2368	1	x	Manometer 5/16" quick coupling connection hose with 1/4" hose connection for Ford EFI systems	40
150.2369	1	XA	Manometer 5/16" quick coupling connecting hose with 1/4" hose connection for GM TBI systems	55
150.2650	2	АМ	Adapter piece M8x1.0 external thread and 1/4" hose connec- tion with sealant ring	13
150.2651	2	AK	Adapter piece M12x1.5 internal thread and 1/4" hose connection	24
150.2652	1	AL	Adapter piece M8x1.0 internal thread and 1/4" hose con- nection	22
150.2653	1	AC	Dual adapter piece M14x1.25 internal and external thread and 1/4" hose connection	63
150.2654	1	AG	Adapter piece (long) M8x1.0 internal thread and 1/4" hose connection	64
150.2655	1	на	Adapter piece (long) for 1/4", 3/8", 1/2" hoses and 1/4" hose connection	51
150.2656	1	HE	Hollow bolt M14x1.5 and 1/4" hose connection	28
150.2657	1	HR	Hollow bolt M12x1.5 and 1/4" hose connection	38
150.2658	1	HQ	Hollow bolt M12x1.25 and 1/4" hose connection	33
150.2659	1	HP	Hollow bolt M10x1.0 and 1/4" hose connection	29
150.2661	1		Replacement sealant ring packet 20 Pieces	10



THE BIGGEST SELECTION OF RATCHET-WRENCHES IN THE WORLD!

PERFECT TECHNOLOGY — THE AS YET UNEQUALLED "INVENTOR OF THE RATCHET WRENCH" WITH OVER 10,000,000 SATISFIED CUSTOMERS







HOSE CLAMP TOOL 232 - 235 GASKET SCRAPER 235 SEALING RING HOOK TOOLS 235 - 236 SPECIAL SPANNER AND ADAPTER 236 VACUUM TESTING TOOLS 237 - 238 PRESSURE TESTING TOOLS 237 - 238		
GASKET SCRAPER 235 SEALING RING HOOK TOOLS 235 - 236 SPECIAL SPANNER AND ADAPTER 236 VACUUM TESTING TOOLS 236 PRESSURE TESTING TOOLS 237 - 238	PAGE	
SEALING RING HOOK TOOLS 235 - 236 SPECIAL SPANNER AND ADAPTER 236 VACUUM TESTING TOOLS 236 PRESSURE TESTING TOOLS 237 - 238	232 - 235	HOSE CLAMP TOOL
SPECIAL SPANNER AND ADAPTER 236 VACUUM TESTING TOOLS 236 PRESSURE TESTING TOOLS 237 - 238	235	GASKET SCRAPER
VACUUM TESTING TOOLS 236 PRESSURE TESTING TOOLS 237 - 238	235 - 236	SEALING RING HOOK TOOLS
PRESSURE TESTING TOOLS 237 - 238	236	SPECIAL SPANNER AND ADAPTER
	236	VACUUM TESTING TOOLS
TESTING ACCESSORIES 238	237 - 238	PRESSURE TESTING TOOLS
	238	TESTING ACCESSORIES



HOSE CLAMP TOOL

ERGOTORQUE® sock et screwdriver

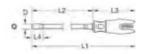
- •6 point
- Flexible
- ·Limited torque
- Double spiral shaft
- · Plastic protective coating
- ·With hanging hole
- Chrome vanadium

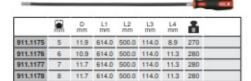


		D	L1 mm	L2 mm	L3 mm	L4 mm	å	
911.1126	6	10.8	259.0	150.0	109.0	9.3	155	
911.1127	7	11.7	259.0	150.0	109.0	10.0	155	
			259.0					- 8
911.1125	10	12.5	279.0	170.0	109.0	14.3	170	

ERGOTORQUEplus* sock et screwdriver, extra long

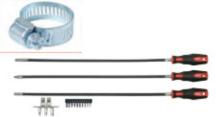
- · Ideal for deep seated screw-hose clamps
- ·6-point
- Flexible
- Limited torque
- · Double spiral shaft
- Plastic protective coating
 With 2 component handle
- · With suspension hole
- · Chrome vanadium





ERGOTORQUE® scr ewdriver set

- · Flexible blade with double spiral shaft
- ·Limited torque
- Plastic protective coating
- Two component handle
- With hanging hole
 Contains also the most current 1/4" bits and sockets
- · In display box



		8
11.1180 16 pcs	ERGOTORQUE* sor ewdriver set	1.30
1 x	O 1/4*	
1 x	1/4*	
1 x	7 mm	
3 x	⊙ 5-6-8 mm	
2 x	⊖ 5.5 - 6.5 mm	
2 x	₱ PH1 - PH2	
6 x	T10 - T15 - T20 - T25 -	T27 - T30

Hose clamp tension device

- · For assembly and disassembly of hose clamps
- · Easy to use
- · Less space required
- · Wear-resistant spindle drive
- · Hand-wheel operation ·6-point and 1/4" drive
- Chrome molybdenum







	Ø mm	Ø	Span width mit.	8	
115.0910	6-40	0-37	80	130	
115.0911	6-65	0.62	105	160	

Hose clamp gripping pliers

- Forged gripping jaws
- Serrated execution
- · Size adjustment using the adjustment wheel
- Quick release lever
- · Easy locking action
- For round and fl t material Nickel plated





	Champing range range	L. mm	8	
115.1126	18-36	175.0	231	
115.1127	18-54	230.0	420	

Hose clamp gripping pliers set

- Forged gripping jaws
- · Serrated execution · Size adjustment using the adjustment wheel
- Quick release lever
- · Easy locking action For round and fl t material
 Nickel plated
- Chron







			8	
115.1125	2 pcs	175 - 230 mm	653	

Hose clamp pliers, angled

- •45° angled head
- ·With variable jaws
- · For diffi ult to reach clamps
- Includes locking mechanism
- ·With PVC dipped handle
- Chrome molybdenum





	A mm	C	L	å	
115.1042	0.65	55.0	220.0	210	

Hose clamp pliers, angled

- •90° angled head
- · With moveable jaws
- · For diffi ult to reach spring clamps
- Includes locking mechanism
 With PVC dipped handle
- Chrome molybdenum





	mm Ø	A mm	L mm	å	
115,1198	18-53	5-43	210.0	400	

Universal hose clamp pliers

- · Universal crown profil
- For diffi ult to reach clamps
 With PVC dipped handle
- Includes locking mechanism
- Versitile usage
- Chrome molybdenum





	A mm	C	L	8	
115.1043	0-48,5	40.0	220.0	240	

Hose clamp pliers

- ·Suitable for correct assembly and disassembly of spring clamps
- · Turnable jaws
- Includes ratchet function
- · Effortless opening and closing
- PVC dipped handle
- · Special steel





	Amm	L mm	å
115.1167	15-56	275.0	400

Hose clamp pliers

- PVC dipped handle
- · For spring pipe clamps
- Includes locking mechanism and ratchet function
- Chrome molybdenum









7	A mm	C mm	L	å	
115.1046	0-45	37.0	220.0	230	

Hose clamp pliers, angled

- · Suitable for correct assembly and disassembly of spring clamps
- •110° angled
- Turnable jaws
 With locking device
- PVC dipped handle
 Special steel





100	A mm	L mm	å	
115.1173	6-58	250.0	400	

Hose clamp pliers type MU1

- · For secure and correct dismantling and assembly of clamps
- Suitable for fl. t fi ting and eccentric clamps
 Includes locking mechanism and ratchet function
- For diffi ult to reach clamps
 For new type and hard to access steel band clamps
- · Special tool steelSuitable for VAG





	A mm	L	8	
115,1062	0-30	235.0	390	

Hose clamp pliers type MU2

- For secure and correct dismantling and assembly of clamps
 Suitable for fl t fi ting and eccentric clamps
- Includes locking mechanism and ratchet function
- · For diffi ult to reach clamps
- · For new type and hard to access steel band clamps
- Special tool steelSuitable for VAG 2,0 TDI / MC: BKD, Volkswagen Passat from 2005, Touran, Golf V, Skoda Oktavia, Audi A3 etc.





部分學家

	A mm	L mm	8	
115,1063	0-40	295.0	470	

Hose clamp pliers type MU2

- · Suitable for correct assembly and disassembly of spring
- clamps •Ideal for deep seated spring clamps
- Turnable jaws
- Includes ratchet function
- PVC dipped handle
- · Special steel





	A mm	L	å
115.1166	4-45	290.0	440

Hose clamp pliers type MU3

- · For secure and correct dismantling and assembly of clamps
- Suitable for fl t fi ting and eccentric clamps
 With 600 mm bowden cable

- Adjustable length bowden cable
 Includes locking mechanism and ratchet function
- For diffi ult to reach clamps
 For new type and hard to access steel band clamps
- Special tool steelSuitable for VAG 2,0 TDI / MC:BKD, Volkswagen Passat from 2005, Touran, Golf V, Skoda Octavia,



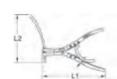




	mm	L1 mm	L2 mm	-	å
115.1064	0 - 50	240.0	600.0	115.1066	540

Hose clamp pliers with double bowden cable

- · PVC dipped handle
- · For spring pipe clamps
- 600 mm bowden cable
 Adjustable length bowden cable
- Includes locking mechanism
 For diffi ult to reach clamps
- · Special tool steel







	Ø	L1 mm	L2 mm	-	8	
115.1065	0 - 70	270.0	600.0	115.1065-1	540	

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Hose clamp pliers, VAG

- · Suitable for assembly or disassembly of spring clamps with reducing ends
 • With PVC dipped handle

- With 600 mm Bowden cable
 Includes ratchet function, locking mechanism and loosening lever
- Internal spring
- · For diffi ult to reach spring clamps
- Chrome molybdenum

Application range: VAG 2.0 TDI engines (BKD), especially suitably for hard to reach lower coolant hose

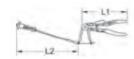




	mm mm	L1 mm	L2 mm	8
115.1169	0 - 60	260.0	600.0	500

Hose clamp pliers with bowden cable

- ·With PVC dipped handle
- For spring pipe clamps
 With 650 mm Bowden cable
- · Includes ratchet function, locking mechanism and loosening lever
- Internal spring
- For diffi ult to reach spring clamps
 Chrome molybdenum









	Ø	L1 mm	L2 mm	å	
115.1168	0 - 70	260.0	650.0	500	

Hose clamp pliers with bowden cable

- · Ideally suited for opening and closing hose clamps
- Suitable for hard to reach self-tensioning spring clamps
 With 590 mm strengthened Bowden cable
- · Includes locking mechanism
- Internal spring
- The torsion of the pliers is reduced with strong clamps
- ·With quick change system for Bowden cable replacement
- 2 component handle
- Strengthened steel

Application range: MUBEA and NORMA







	Ø	L1 mm	L2 mm	_	å
115.0901	15 - 54	260.0	730.0	115.0902	500

Hose clamp pliers with bowden cable

- · For self-tensioning hose clamps
- ·With locking mechanism
- In particular for fuel lines, cooling and washing water hoses
- ·With 650 mm Bowden cable
- ·With fl t attachment for spring clamps with fl t adjoining ends
- · Opening and closing the clamps without damage to the hose also in hard to reach places
- ·Self-opening
- ·With PVC dipped handle
- ·Special steel

Spring band clamp pliers with gooseneck

- · For actuation of self tensioning spring band clamps
- For cooling and heating systems
 Semi rigid, plastic coated gooseneck
- Convenient one handed operation in deep regions
- · Fixing of the clamp by micro teeth
- · Ideal for confined spa es
- · Working head with raised grippers and wide opening
- · Working head with slide guide and retraction spring
- · With two component handle

Application area: NORMA FBS, MUB FBS-STD, FBS-RSV,





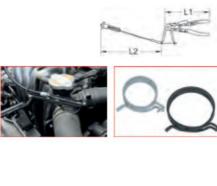




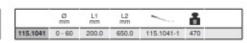
	mm .	L1 mm	L2 mm	-	å
115.1190	18-54	220.0	660.0	115.1190-1	620

Hose clamp pliers

- For the correct assembly and disassembly of spring clamps
 With 600 mm Bowden cable for hard to reach areas
- ·Step-less locking mechanism
- With guick-release lever
- ·Simple handling
- · Special tool steel











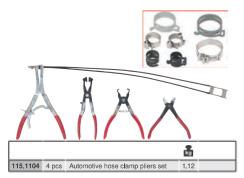
	Ø	L1 mm	L2 mm	å	
115.1189	0-50	210.0	600.0	330	- 8

Automotive hose clamp pliers set

- Handle dip insulated
- Ideal for clamps low down in the engine Includes locking mechanism
- For self tensioning spring pipe clamps with 3 point mounting ·Self opening
- For opening and closing re/useable clic hose clamps, type
- Clic + Clic-R
- For diffi ult to reach clamps
- Special tool steel

Application area: For connecting and removing fuel, immersed ventilation, coolant, washer water and vacuum hoses.

Application range: Volkswagen, Audi, Mercedes Benz, Toyota



consists of:

		9	
115.1045	Hose clamp pliers (click type), 180mm	215	
115.1042	Hose clamp pliers (recessed/slot), 220mm	210	
115.1187	Hose clamp pliers with prism, 8-18mm	189	
115.1065	Hose clamp pliers (dbl bowden cable), 600mm	540	

Automotive hose clamp pliers set

- PVC dipped handle
- For opening and closing of cobra hose clampsSwivel pressed jaws
- Includes locking mechanism and ratchet function · Self opening mechanism
- For the dismantling and assembly of hose clamps
 Includes bowden cable
- · Chrome molybdenum







			kg	
115.1055	7 pcs	Automotive hose clamp pliers set	4.00	

	COHSISTS	OI.		
			g	
	115.1041	Hose clamp pliers (bowden cable), 650mm	470	
	115.1042	Hose clamp pliers (recessed/slot), 220mm	210	
ĺ	115.1043	Hose clamp pliers (crown profile, 220mm	240	
ĺ	115.1044	Hose pliers, 195mm	190	
	115.1045	Hose clamp pliers (click type), 180mm	215	
	115.1046	Hose clamp pliers (recessed/slot), 220mm	230	
١	115.1047	Hose clamp pliers (dbl cross slot),220mm	230	

Hose release pliers

- Suitable for releasing secured cooling hoses
- Securing screw for adjusting jaws
 Gentle on materials
- · Lower power usage
- · Simple operation • Plastic handle
- · Special steel



GASKET SCRAPER

STAINLESS STEEL Chisel scraper

- Ideal for removing stickers, seal and glue residues
 Also suitable for the removal and chiselling of plates or
- · Heavy, continuous stainless steel blade that can be re-sharp-
- With reinforcement eyelet
 With hammer cap on the handle
- With ergonomic moulded two component handle
 Suitable for use at extremely low temperatures
- · Extreme resistance to intergranular corrosion and oxidation
- · Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
- Rust-proof and acid resistant
- ·Stainless steel



	mm	mm	mm.	0	
907.2211	32.0	1,2	190.0	160	
907,2213	25.0	1,2	165.0	100	
907.2212	32.0	2,5	190.0	160	
907.2214	25.0	2,5	165.0	110	

STAINLESS STEEL Chisel scraper set

- · Continuous stainless steel blade that can be re sharpened
- With reinforcement eyelet
 With hammer cap on the handle
- With ergonomic moulded two component handle
 Suitable for use at extremely low temperatures
- Extreme resistance to intergranular corrosion and oxidation
 Extremely long service life
- Autoclavable (heating of the tools to over 100°C to kill germs)
 Rust-proof and acid resistant
- ·Stainless steel



			g	
907.2210	4 pcs	32 x 1,2; 32 x 2,5; 25 x 1,2; 25 x 2,5 mm	580	

- Ideal for removing stickers, seal and glue residues
- •Blades can be re-sharpened •Blade 10° angled

- Extra-long design for hard to reach areas
 Also for removing extremely stubborn impurities and seal
- · With ergonomic moulded one component handle



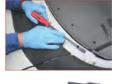


	B mm	L1 mm	L2 mm	9
907.2231	12.5	200.0	100,0	120
907.2232	25.0	200.0	100,0	140
907.2233	12.5	300.0	200,0	180
907.2234	25.0	300.0	200,0	200

Gasket scraper set

- · Ideal for removing stickers, seal and glue residues
- ·Blades can be re-sharpened
- Blade 10° angled
- Extra-long design for hard to reach areas Also for removing extremely stubborn impurities and seal residue

 • With ergonomic moulded one component handle





			kg	
907.2230	4 pcs	12,5 x 200; 25 x 200; 12,5 x 300; 25 x 300 mm	1.28	

SEALING RING HOOK TOOLS

Hook tool set

- Ideal for removing and use of O rings and seals
- Special steel



			g	
550.1040	2 pcs	Hook tool set	30	
00011010	= poo	THOU TOOL OOL		

consists of:

		g	
550.1041	Hook tool with double blade 90° shortl/ 180° short angled	11	
550.1042	Hook tool with double blade 45° long / 90° long	11	

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Magnet and hook tool set

- · Ideal for removing and inserting O-rings and seals
- With telescopic magnet attachment and replaceable hook
 Storage compartment in the handle for the various attach-
- ments
- · Special steel







			å	
550.1080	6 pcs	Magnet and hook tool set	70	

consists of:

		å
50.1081	Basic unit	35
50.1082	Telescopic magnet attachment, 90 - 390 mm	13
550.1083	Hook attachment, straight, 75 mm	5
50.1084	Hook attachment, 90°, 75 mm	5
50.1085	Hook attachment, 120°, 75 mm	5
50.1086	Hook attachment, lateral bend, 75 mm	5

- · Ideal for removing and use of O rings and seals
- ·With one component handle
- ·With hanging hole
- · Special steel



1 1			å
550.1045	4 pcs	Hook tool set	120

consists of:

		ř
550.1046	Hook tool 120mm blade, straight version	27
550.1047	Hook tool 120mm blade, 45° angled version	27
550.1048	Hook tool 120mm blade, 90° angled version	27
550.1049	Hook tool 120mm blade, 135° angled version	27

Master hook tool set

- · Ideal for removing and use of O rings and seals
- · With hanging hole
- Special steel



				å	
Ì	550.1070	9 pcs	Master hook tool set	680	

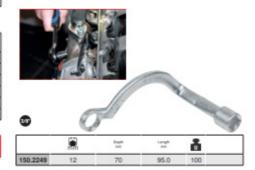
		å
550.1046	Hook tool 120mm blade, straight version	27
550.1047	Hook tool 120mm blade, 45° angled version	27
550.1048	Hook tool 120mm blade, 90° angled version	27
550.1049	Hook tool 120mm blade, 135° angled version	27
550.1071	Hook tool large, straight	91
550.1072	Hook tool large, 90 offset	105
550.1073	Hook tool large, sickle form	88
550.1074	T-handle hook tool, S-form small	42
550.1075	T-handle hook tool, S-form big	96

SPECIAL SPANNER AND ADAPTER

Turbo system wrench for VAG TDI

- · Ideal for loosening diffi ult to access nuts when assembling and disassembling the turbocharger
- · Higher twisting angle due to special shape compared to standard spanners
- Angled ring spanner specially adapted to tight spaces
- 12-point
- ·Special steel

Application range: VAG diesel engines with turbocharger



Turbocharger oil pressure adapter for DV6 engines

- · Quick and accurate oil pressure testing directly on the turbocharger before and after turbocharger replace
- · High time and cost savings due to early identifi ation of blocked oil screen
- Avoids complaints due to repeated turbocharger damage
- · With quick coupling adapter

Application range: Ford Focus, Fiesta V, Fusion, Duratoq-TD-Ci; Citroën C4, Xsara, C3, Berlingo; Peugeot 207, 307, 206, 207, 307; Volvo S40, V50, C30; BMW/Mini Cooper D, Mini Clubman, Mazda 3



	Length rise	å
150.1923	70.0	60

Oil pressure testing equipment

- ·Quick safe and problem free testing of the oil pressure on the engine
- incl. 10 adaptors
- · Colour coding: Black= metric / silver = imperial
- · Adaption with oil pressure sensor thread
- Manometer Ø 80 mm with rubber safety cover
- Flexible tube (L=1.3 m) with anti-kink device, decompression valve and quick coupling
- Robust execution
- In durable plastic storage case



			8	
150.1920	12 pcs	Oil pressure testing equipment	1.89	

		å	
150.1921	Manometer with tube, 10 bar	594	- 3
150.1922	90° Adaptor angled	44	
150.1920-1	Screw adaptor no 1, R1/8"	23	- 9
50.1920-10	Screw adaptor no 10, M18 x 1.5	34	
150.1920-2	Screw adaptor no 2, 1/8" x 27 NPT	24	
150.1920-3	Screw adaptor no 3, 1/4" x 18 NPT	33	
150.1920-4	Screw adaptor no 4, 3/8" x 20 UNF	23	
150.1920-5	Screw adaptor no 5, 1/2" x 20 UNF	27	
150.1920-6	Screw adaptor no 6, M10 x 1.0	24	- 0
150.1920-7	Screw adaptor no 7, M12 x 1.5	24	
150.1920-8	Screw adaptor no 8, M14 x 1.5	29	
150.1920-9	Screw adaptor no 9, M16 x 1.5	33	

VACUUM TESTING TOOLS

Automotive pressure and vacuum pump set

- · For ventilating of smaller brake parts and for inspection of different areas including Low pressure and pressure functions
- Suitable for almost all current vehicles
- Robust metal execution
- · Compact pistol form, one man operation
- Shock proof pressure and low pressure manometer with
- · Includes extensive adaptor assortment
- ·Readable in bar or psi
- · In durable plastic storage case

Application range: Brake bleeding, test of the low pressure attitude the fuel pressure regulator, turbo charger valve. exhaust gas return valve and brake servos









Technical data:

Working range:

vacuum up to -1 bar -30 Hg pressure up to +1.5 bar 60 psi

			å	
150.1900	7 pcs	Automotive pressure and vacuum pump set	1.80	

consists o	MI:		
		å	
150.1901	Pressure and vacuum pump	730	
150.1902	Receiver / measuring beaker, 120ml	44	
150.1903	Supply / measuring beaker, 120ml, with screw cap	44	
150.1904	Adaptor set, 14 pcs.	15	
150.1905	Connection hose and suction cap set, 5 pcs	23	
150.1906	Coupling nozzle set, 4 pcs (6x6 / 6x6 / 6x8 / 6x10)	9	
150.1907	Connection hose set, 2 pcs, L = 600 mm, Ø 6 x 9 mm	45	

Turbocharger charged air system inlet test adapter, 2

- Inlet adapter for closing the charged air system
- For passenger car and commercial vehicle turbo engines, diesel and petrol
- Allows rapid diagnosis by pressure testing the charged air system with hose internal diameters 31.0 - 110.0 mm when
- . Time-saving and professional testing of leaking charged air cooler and hidden cracks in the charged air hoses
- Also for checking the tightness of the AGR valve
 Suitable for all current hoses on the charged air system that are not fi ted with a bayonet connector using the multi-stage offset adapter
- In the event of pressure loss, the leak can be quickly and
- simply localised by scanning the part or using leak spray

 Can be used together with compatible counter stopper adapters and air inlet system adapters and in combination with a conventional tyre infl tor



		8	
150.2521	2-stage inlet adapter, 31 x 38 mm	80	T
150.2522	2-stage inlet adapter, 46 x 51 mm	120	
150.2523	2-stage inlet adapter, 55 x 60 mm	160	
150.2524	2-stage inlet adapter, 65 x 70 mm	200	
150.2525	2-stage inlet adapter, 75 x 80 mm	220	
150.2526	2-stage inlet adapter, 85 x 90 mm	260	
150.2527	2-stage inlet adapter, 95 x 100 mm	300	
150.2528	2-stage inlet adapter, 105 x 110 mm	340	

Turbocharger charged air system counter stoppers, 2

- Counter stoppers for closing the charged air system
- · For passenger car and commercial vehicle turbo engines, diesel and petrol
- · Allows rapid diagnosis by pressure testing the charged air system with hose internal diameters 31.0 - 110.0 mm when fi ted
- Time-saving and professional testing of leaking charged air
- cooler and hidden cracks in the charged air hoses

 Also for checking the tightness of the AGR valve
- Suitable for all current hoses on the charged air system that are not fi ted with a bayonet connector using the multi-stage offset adapter
- · In the event of pressure loss, the leak can be quickly and simply localised by scanning the part or using leak spray

 Can be used together with compatible inlet test adapters and
- air inlet system adapters and in combination with a conventional tyre infl tor



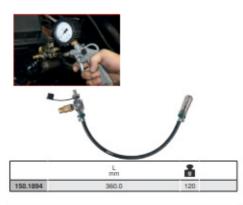


-		å
150.2529	2-stage counter-stopper adapter, 31 x 38 mm	100
150.2530	2-stage counter-stopper adapter, 46 x 51 mm	140
150.2531	2-stage counter-stopper adapter, 55 x 60 mm	160
150.2532	2-stage counter-stopper adapter, 65 x 70 mm	200
150.2533	2-stage counter-stopper adapter, 75 x 80 mm	240
150.2534	2-stage counter-stopper adapter, 85 x 90 mm	260
150.2535	2-stage counter-stopper adapter, 95 x 100 mm	300



Turbocharger charged air system air inlet adapter with

- · Suitable for 2-stage turbocharger charged air system test adapter
- · For passenger car and commercial vehicle turbo engines.
- Time-saving and professional testing of leaking charged air cooler and hidden cracks in the charged air hoses
- Also for checking the tightness of the AGR valve
 In the event of pressure loss, the leak can be quickly and simply localised by scanning the part or using leak spray
- ·With integrated overpressure safety valve opens at max. 1.8 bar
- The pressure gauge on the tyre infl tor also indicates pressure loss
- · Can be used together with an inlet test adapter and counter stopper and in combination with a conventional tyre infl. for



Turbo system pressure tester kit with stepped adaptor

- · For passenger car and commercial vehicle turbo engines, diesel and petrol
- Allows rapid diagnosis by pressure testing the charged air system with hose internal diameters 31.0 110.0 mm when
- · Time-saving and professional testing of leaking charged air
- cooler and hidden cracks in the charged air hoses
 •Also for checking the tightness of the AGR valve
- · Suitable for all current hoses on the charged air system that are not fi ted with a bayonet connector using the multi-stage offset adapte
- In the event of pressure loss, the leak can be quickly and simply localised by scanning the part or using leak spray
- · With integrated overpressure safety valve opens at max.
- 1.8 bar · Can be used in conjunction with conventional tyre infl tors
- The pressure gauge on the tyre infl tor also indicates
- In durable plastic storage case

Application range: Charged air systems for passenger cars and commercial vehicles







			Ng.
150.2520	17 pcs	Turbo system pressure tester kit with stepped adaptor	4.00

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		9
150.2521	2-stage inlet adapter, 31 x 38 mm	80
150.2522	2-stage inlet adapter, 46 x 51 mm	120
150.2523	2-stage inlet adapter, 55 x 60 mm	160
150.2524	2-stage inlet adapter, 65 x 70 mm	200
150.2525	2-stage inlet adapter, 75 x 80 mm	220
150.2526	2-stage inlet adapter, 85 x 90 mm	260
150.2527	2-stage inlet adapter, 95 x 100 mm	300
150.2528	2-stage inlet adapter, 105 x 110 mm	340
150.2529	2-stage counter-stopper adapter, 31 x 38 mm	100
150.2530	2-stage counter-stopper adapter, 46 x 51 mm	140
150,2531	2-stage counter-stopper adapter, 55 x 60 mm	160
150.2532	2-stage counter-stopper adapter, 65 x 70 mm	200
150.2533	2-stage counter-stopper adapter, 75 x 80 mm	240
150.2534	2-stage counter-stopper adapter, 85 x 90 mm	260
150.2535	2-stage counter-stopper adapter, 95 x 100 mm	300
150.2536	2-stage counter-stopper adapter, 105 x 110 mm	340
150.1894	Universal air inlet system adapter with hose	120



Turbocharger charged air system inlet test adapter,

- Inlet adapter for closing the charged air system
- · For passenger car and commercial vehicle turbo engines, diesel and petrol
- · Allows rapid diagnosis by pressure testing the charged air system with bayonet connector diameters 31.0 - 61.0 mm when fi ted
- · Time-saving and professional testing of leaking charged air
- cooler and hidden cracks in the charged air hoses •Also for checking the tightness of the AGR valve
- · Suitable for all current hoses on the charged air system that are fi ted with a bayonet connector
- In the event of pressure loss, the leak can be quickly and simply localised by scanning the part or using leak spray

 Can be used together with compatible counter stopper adapt-
- ers and air inlet system adapters and in combination with a conventional tyre infl tor





		8
150.1826	Bayonet inlet adapter, Ø 31 mm	80
150.1827	Bayonet inlet adapter, Ø 38 mm	85
150.1828	Bayonet inlet adapter, Ø 46 mm	90
150.1829	Bayonet inlet adapter, Ø 51 mm	95
150.1831	Bayonet inlet adapter, Ø 56 mm	100
150.1832	Bayonet inlet adapter, Ø 61 mm	105

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- · Counter stoppers for closing the charged air system
- For passenger car and commercial vehicle turbo engines. diesel and petrol
- · Allows rapid diagnosis by pressure testing the charged air system with bayonet connector diameters 31.0 - 61.0 mm
- Time-saving and professional testing of leaking charged air cooler and hidden cracks in the charged air hoses
- Also for checking the tightness of the AGR valve
 Suitable for all current hoses on the charged air system that are fi ted with a bayonet connector
- In the event of pressure loss, the leak can be quickly and simply localised by scanning the part or using leak spray
- Can be used together with compatible inlet test adapters and air inlet system adapters and in combination with a conventional tyre infl tor





		å	
150.1833	Bayonet counter stopper adapter, Ø 31 mm	60	
150.1834	Bayonet counter stopper adapter, Ø 38 mm	65	
150.1843	Bayonet counter stopper adapter, Ø 46 mm	70	
150.1844	Bayonet counter stopper adapter, Ø 51 mm	75	
150.1876	Bayonet counter stopper adapter, Ø 56 mm	80	
150.1877	Bayonet counter stopper adapter, Ø 61 mm	85	- 3

Turbocharger charged air system air inlet adapter with

- · Compatible with the bayonet turbocharger charged air system test adapter
- For passenger car and commercial vehicle turbo engines. diesel and petrol
- ·Time-saving and professional testing of leaking charged air cooler and hidden cracks in the charged air hoses •Also for checking the tightness of the AGR valve
- In the event of pressure loss, the leak can be quickly and simply localised by scanning the part or using leak spray
- · With integrated overpressure safety valve opens at max. 1.8 bar
- ·The pressure gauge on the tyre infl tor also indicates pressure loss
- · Can be used together with an inlet test adapter and counter stopper and in combination with a conventional tyre infl tor





26	Total tength cost	å	_
150.1896	360.0	120	

Turbo system pressure tester kit with bayonet adaptor

- · For charged passenger car engines, diesel and petrol
- Allows rapid diagnosis by pressure testing the charged air system with bayonet connector diameters 31.0 61.0 mm
- Time-saving and professional testing of leaking charged air cooler and hidden cracks in the charged air hoses
- · Also for checking the tightness of the AGR valve
- · Suitable for all current hoses on the charged air system that are fi ted with a bayonet connector
- . In the event of pressure loss, the leak can be quickly and simply localised by scanning the part or using leak spray
- With integrated overpressure safety valve opens at max. 1.8 bar
- Can be used in conjunction with conventional tyre infl tors
 The pressure gauge on the tyre infl tor also indicates
- pressure loss
- In durable plastic storage case

Application range: Charged air systems for passenger cars

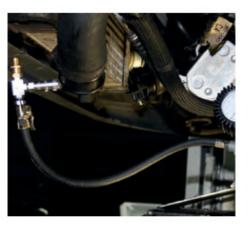






			8	
150.1825	13 pes	Turbo system pressure tester kit with bayonet adaptor	2.56	

		ŏ
150.1826	Bayonet inlet adapter, Ø 31 mm	80
150.1827	Bayonet inlet adapter, Ø 38 mm	85
150.1828	Bayonet inlet adapter, Ø 46 mm	90
150.1829	Bayonet inlet adapter, Ø 51 mm	95
150.1831	Bayonet inlet adapter, Ø 56 mm	100
150.1832	Bayonet inlet adapter, Ø 61 mm	105
150.1833	Bayonet counter stopper adapter, Ø 31 mm	60
150.1834	Bayonet counter stopper adapter, Ø 38 mm	65
150.1843	Bayonet counter stopper adapter, Ø 46 mm	70
150.1844	Bayonet counter stopper adapter, Ø 51 mm	75
150.1876	Bayonet counter stopper adapter, Ø 56 mm	80
150.1877	Bayonet counter stopper adapter, Ø 61 mm	85
150.1896	Universal air inlet system adapter with hose	120



TESTING ACCESSORIES

Tyre filli g gauge

- · For one hand operation
- Rubber coated manageter
- · Manometer with bar and psi scale
- Filling lever and pressure release button
 Tube with integrated locking male nipple
- · Robust rubber coated housing



Technical data:

Working range:

0 - 11 bar 9 - 160 psi

Operating pressure: Connection thread: 490 mm max 6,3 bar (90 psi) 1/4"PT

and the same of th	9.3		
	Tital length	8	
515.1950	530.0	600	

Tyre filli g gauge

- · For one hand operation
- · With rubber coated manometer
- Manometer with bar and psi scale
- ·With filli g lever and pressure release button Tube with integrated locking male nipple
- · Robust rubber coated housing



Technical data:

Working range:

0 - 15 bar 0 - 220 psi

Operating pressure:

350 mm 11 bar (160 psi)

Connection thread:

Total langer 500.0 515.1905

YOUR POWERFUL PARTNER FOR HYBRID AND ELECTRIC VEHICLE EXPERTS!

SAFE TOOLS FOR EVERY JOB!



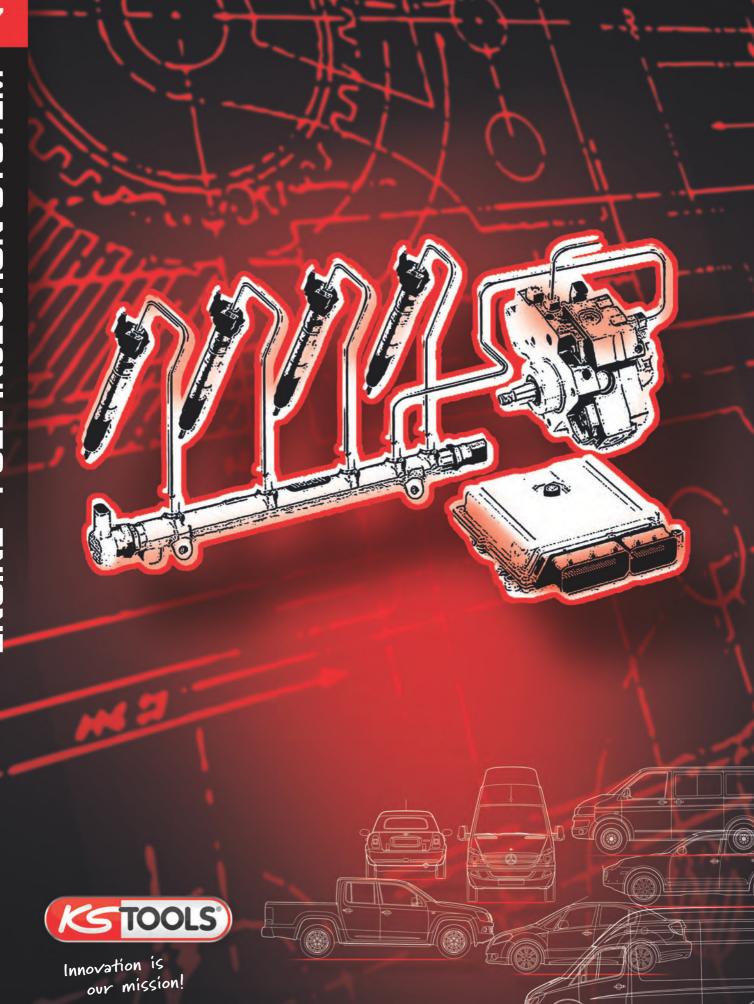
The specialist tools are specially designed for the mechanics of electric and hybrid vehicles. They are manufactured and individually tested in accordance with the BGV A3 regulations (VBG-4) by KS Tools. Some systems in these vehicles have up to 500 volts running through them. This is enough volts to cause serious bodily harm when working with normal tools and can also lead to death.

The KS Tools specialist tools for hybrid and electric vehicles are manufactured to the most recent and international regulations from high-quality materials and offer maximum protection for every user!





Innovation is our mission!



	PAGE
FUEL INJECTOR RAIL WRENCH	242 - 245
PRE-COMBUSTION CHAMBER SOCKET WRENCH	245 - 246
INSPECTION AND TEST TOOLS	246 - 247
PNEUMATIC ADAPTER FOR GLOW PLUG BORES	247
INJECTOR REMOVAL TOOLS	248 - 249
INJECTOR SEALING RING EXTRACTOR	249
INJECTOR AND INJECTOR SEAT CLEANING	250 - 251
INJECTOR SHAFT CLEANING	251 - 252
INJECTOR PUMP WRENCH	252
PUMP WHEEL EXTRACTOR	252
LOCKRING DRIVER AND ADJUSTMENT TOOLS	252 - 253
INJECTOR PUMP ADJUSTING TOOLS	253 - 254



FUEL INJECTOR RAIL WRENCH

Double open ring injection spanner

- Special length and design
- ·For the assembly and disassembly of hard-to-reach injection pipes
- Makes possible simple and time-saving work
 Wrench has single-sided head
- Open 12-point
 Matt finis
- ·Chrome vanadiu

Application range: Audi, Volkswagen, Škoda, etc. e.g. for 1.6 l 4 cyl., 2.0 l 5 cyl., 2.4 l 6 cyl. diesel engines







		L mm	å	- 33
517.0057	17x17	220.0	140	193



T-handle box wrench

- •6 point
- •T-handle
- · Matt finis
- · Chrome vanadium

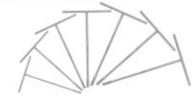


	mm	L mm	B	å	
517.1181	8,0	300.0	200.0	310	
517.1182	9,0	300.0	200.0	300	
517.1183	10,0	300.0	200.0	310	
517.1184	11,0	300.0	200.0	320	199
517.1185	12,0	300.0	200.0	320	- 99
517.1186	13,0	300.0	200.0	330	
517,1187	14.0	300.0	200.0	310	- 8

T-handle box wrench set

- •6 point •T-handle
- · Matt finis
- Chrome vanadium





			kg	
517.1180	7 pes	T-handle box wrench set	2.50	

consists of:

		8
517.1181	T-handle box wrench, 8mm	310
517.1182	T-handle box wrench, 9mm	300
517.1183	T-handle box wrench, 10mm	310
517.1184	T-handle box wrench, 11mm	320
517.1185	T-handle box wrench, 12mm	320
517.1186	T-handle box wrench, 13mm	330
517.1187	T-handle box wrench, 14mm	310

- 12-point
- · For screw fi ting to injection pipes
- · Chrome plated and mirror polished

Application range: Mercedes 100, 130, 314, 360, 360h, 352A, 346/355, 401, 402, 403, 407h, 615, 616, 617



		Sangh Min	å	
152.1401	17,0	80.0	150	

- •12-point
- Internal square drive to DIN 3120/ISO 1174 with ball recep-
- Special length and design
 For almost all common vehicle types
- · For the assembly and disassembly of hard-to-reach injection pipes
- · Makes possible simple and time-saving work
- · With opening
- ·Special steel

Application range: Audi, BMW, Chrysler, Ford Opel, Mercedes, etc.





	L mm	å	
12	100.0	122	
14	100.0	129	
16	100.0	146	
17	100.0	140	
18	100.0	145	
19	100.0	147	
	12 14 16 17	12 100.0 14 100.0 16 100.0 17 100.0 18 100.0	12 100.0 122 14 100.0 129 16 100.0 146 17 100.0 140 18 100.0 145

- •12-point
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Special length and design
 For almost all common vehicle types
- · For the assembly and disassembly of hard-to-reach injection pipes
- · Makes possible simple and time-saving work
- With openingSpecial steel
- · In durable plastic storage case

Application range: Audi, BMW, Chrysler, Ford Opel, Mercedes, etc.









			8	
913.1210	6 pcs	12 - 14 - 16 - 17 - 18 - 19 mm	1.13	

consists of:

		8	
913.1211	Open box head spanner, 10mm	122	
913.1212	Open box head spanner, 14mm	129	
913.1213	Open box head spanner, 16mm	146	
913.1214	Open box head spanner, 17mm	140	
913.1215	Open box head spanner, 18mm	145	
913.1216	Open box head spanner, 19mm	147	

Injector-socket

- 12-point
- Ideal for assembly and disassembly of injectors
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Matt finis · Chrome vanadium

Application range: Volkswagen Polo 1.3 I Diesel-Motor, Nis-san Terrano TD 25, 27 from 1988





- •12-point
- · Ideal for assembly and disassembly of injectors
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Matt finis
- · Chrome vanadium

Application range: for diesel engines Volkswagen, Audi, Mercedes, Opel, Ford, Peugeot, Volvo, Toyota, Mazda, Nissan,



30.0

85.0

•6-point

150.2312

· Ideal for assembly and disassembly of injectors

37.0

- Internal square to DIN 3120/ISO 1174 with ball reception
- For manual operation

27

- Matt finis
- · Chrome vanadiu

Application range: for diesel engines Volkswagen, Audi, Mercedes, Opel, Ford, Peugeot, Volvo, Toyota, Mazda, Nissan, Mitsubishi, Daihatsu, etc.



Injector-socket

- •6-point
- · Ideal for assembly and disassembly of injectors
- ·With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Burnished
- ·Special steel

Application range: PSA, Ford, Toyota



- ·6-point
- · Ideal for assembly and disassembly of injectors
- ·With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Burnished
- ·Special steel

Application range: 2.0 I DW 10 HDI engines, etc.



- 6-point
- · Ideal for assembly and disassembly of injectors
- ·With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Burnished
- · Special steel

Application range: DCI and HDI engines, etc.



©		1			1
	-	Ø		L	8
50.2308	29	42,0	22.0	100.0	340

- •6-point
- · Ideal for assembly and disassembly of injectors
- ·With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Burnished
- · Special steel

Application range: Renault, Nissan, 1.9 I F9Q engines, etc.



- · 6-point
- · Ideal for assembly and disassembly of injectors
- · With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- Burnished
- · Special steel
- · In durable plastic storage case







			S.	
150.2310	4 pcs	Injector-socket set	1.56	

		å
150.2391	1/2" injector nozzle socket, 25.0 mm	300
150.2307	1/2" injector nozzle socket, 27.0 mm	280
150.2308	1/2" injector nozzle socket, 29.0 mm	340
150.2309	1/2" injector nozzle socket, 30.0 mm	360

- · Ideal for assembly and disassembly of injectors
- Internal square to DIN 3120/ISO 1174 with ball reception
- ·With a side window for guiding the cable of the motion sensor and the return pipe
- · For manual operation
- Phosphate
- · Chrome molybdenum

Application range: Ford Mondeo from 10/2000 - 02/2007, 2.0 DI, -TDCI, -TDDI, 2.2 TDCI; Ford Transit from 01.2000 -05/2006, 2.0 DI, -TDCI and 2.4 DI, -TDCI





100		D1 mm	D2 mm	L	å	
150.9541	21	32.0	34.0	90.0	300	- 10

243

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- •12-point
- · Ideal for assembly and disassembly of injectors
- Internal square to DIN 3120/ISO 1174 with ball reception
- ·With a side window for guiding the cable of the motion sensor and the return pipe
- · For manual operation
- Burnished
- · Special steel

Application range: Alfa Romeo, Chrysler, Rover, MAN 2.5TD





-						
		D1 mm	mm DS	L mm	å	
150.2322	28	40.0	33.0	78.0	280	

Diesel injector socket

- •6 point
- Special socket key for dismantling and assembly of injectors

- Correct easy and damage free usage
 Internal square to DIN 3120 / ISO 1174 with ball reception
 Ideally suited for commercial vehicles, light commercial, SUV,
- · Black, tempered surface
- ·Special steel

Application range: Mercedes Benz, Motor 604 / 605 / 606







Diesel injector socket

- •12 point
- · Special socket key for dismantling and assembly of injectors
- Correct easy and damage free usage
 Internal square to DIN 3120 / ISO 1174 with ball reception
- · Ideally suited for commercial vehicles, light commercial, SUV,
- · Black, tempered surface
- ·Special steel

Application range: Mercedes Benz Actros, Motor 457 / 541 / 542, Ford Maverik 2,7 TDI, Nissan Terrano TD 2,5L / 2,7L, Opel Corsa 1,5D / 1,7 TD, Isuzu







Diesel injector socket

- •12 point
- · Special socket key for dismantling and assembly of injectors
- Correct easy and damage free usage
 Internal square to DIN 3120 / ISO 1174 with ball reception
- · Ideally suited for commercial vehicles, light commercial, SUV,
- · Black, tempered surface

Application range: Suitable for diesel engines from Fiat, Ford, Mercedes Benz and Volkswagen (vans and passenger cars),





		L mm	å	
455.0032	27	78.0	250	

- •12 point
- · Special socket key for dismantling and assembly of injectors
- Correct easy and damage free usage
 Internal square to DIN 3120 / ISO 1174 with ball reception
- Ideally suited for commercial vehicles, light commercial, SUV,
- · Black, tempered surface
- ·Special steel

Application range: MAN 6 cylinder in line D 0226, Chrysler Voyager, Jeep Cherokee, Opel Frontera VM 41 B, Rover, Landrover Discovery Motor VM 2,5L TD





•				
	mim	L mm	å	
455.0031	28	78.0	250	

Diesel injector socket set

- Special socket key for dismantling and assembly of injectors
- · Correct easy and damage free usage
- Internal square to DIN 3120 / ISO 1174 with ball reception
- · Ideally suited for commercial vehicles, light commercial, SUV,
- Black, tempered surface
 Special steel
- In durable plastic storage case

Application range: MAN, Mercedes Benz Transporter and commercial vehicles. Opel. Fiat. Volkswagen. Ford. Nissan.





			8	
455.0030	4 pcs	Diesel injector socket set	1.10	

		å	
455.0031	1/2" Diesel injector socket 12 point, 28mm	250	%
455.0032	1/2" Diesel injector socket 12 point, 27mm	250	
455.0033	1/2" Diesel injector socket 12 point, 22mm	250	8
455.0034	1/2" Diesel injector socket 6 point, 22mm	250	

Injector-socket with bore hole

- · Hexagon socket with bore hole
- · Ideal for assembly and disassembly of Common Rail couplings
- Internal square to DIN 3120/ISO 1174 with ball reception
- · For manual operation
- · Chrome plated and mirror polished
- · Chrome vanadium

Application range: Bosch injectors in DCI and HDI engines,





		D mm	L mm	T mm	å
152.1057	10	22.0	75.0	35.0	100

Injector socket

- · 6-point
- · Ideal for assembly and disassembly of injectors
- · With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- · External drive hexagonal socket 22.0 mm
- · For manual operation
- Burnished
- · Special steel

Application range: PSA, Ford, Toyota







		ø	Total length state.	å	
152.1195	25,0	37,0	100.0	270	

Œ

- ·6-point
- · Ideal for assembly and disassembly of injectors
- ·With side window and opening for connection to nozzle head (E-connection)
- •Internal square to DIN 3120/ISO 1174 with ball reception
- External drive hexagonal socket 22.0 mm
- · For manual operation
- Burnished
- Special steel

Application range: 2.0 I DW 10 HDI engines, etc.



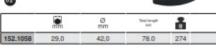
		Ø mm	Total longth	å	
152,1196	27.0	38.0	100.0	270	

Injector socket

- •6-point
- · Ideal for assembly and disassembly of injectors
- ·With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- Opened design
- For damage-free assembly and disassembly
- Tempered surface
- Special steel

Application range: Mercedes A- and B-Class, Fiat 1.3MJ





Injector socket

- •6-point
- · Ideal for assembly and disassembly of injectors
- ·With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- External drive hexagonal socket 22.0 mm
- For manual operation
- Burnished
- Special steel

Application range: Mercedes A- and B-Class, Fiat 1.3MJ



	mm	Ø	Total tength mill	8	
152.1197	29,0	42,0	100.0	342	

- ·6-point
- · Ideal for assembly and disassembly of injectors
- ·With side window and opening for connection to nozzle head (E-connection)
- Internal square to DIN 3120/ISO 1174 with ball reception
- External drive hexagonal socket 22.0 mm
- · For manual operation
- Burnished
- Special steel

Application range: Renault, Nissan, 1.9 I F9Q engines, etc.



		Ø	Total longth	å	
152.1198	30,0	43,0	100.0	358	

Crows foot spanner

- 6-point
- ·With internal square drive
- · For tightening and loosening pipe connections
- · For manual operation
- ·Slim design
- · For hard-to-access areas
- Burnished
- ·Special steel



		å	
913.1321	17	72	
913.1322	18	74	
913.1323	19	75	

- •6-point
- · With internal square drive
- · For tightening and loosening pipe connections
- · For manual operation
- ·Slim design
- · For hard-to-access areas
- Burnished
- ·Special steel



		å	
913.1324	22	109	
913.1325	24	127	
913.1326	27	135	
913.1327	30	163	
913.1328	32	181	

Crows foot spanner

- ·With internal square drive
- · For tightening and loosening pipe connections
- · For manual operation
- · For hard-to-access areas
- Burnished
- · Special steel



<u></u>	å	
36	275	
41	392	0
46	390	
	41	36 275 41 392

PRE-COMBUSTION CHAMBER SOCKET WRENCH

Special tooth socket for pre chamber

- · Ideal for removing the diesel pre-combustion chamber sealing ring nuts
- Internal square to DIN 3120/ISO 1174 with ball reception
- · With 58 notched teeth
- Phosphate
- · Special steel

Application range: Mercedes engines OM 601, OM602, OM603, OM604, OM605 and OM606



	No.	L	2	
455.0005	58	60.0	215	

Pin wrench for pre-chamber

- · Ideal for removing the diesel pre-combustion chamber sealing ring nuts
- Internal square to DIN 3120/ISO 1174 with ball reception
- Includes screw Phosphate
- · Special steel

Application range: Mercedes engines OM 615, OM616 and





-		
	Length fills	8
455,0006	65.0	280

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mpact extractor for pre-chamber

- · Ideal for removing trapped diesel pre-combustion chambers
- Robust design
- Enables short and intensive impact through impact weight
- · Includes impact weight, adapter and tension bolts
- · Special steel

Application range: Mercedes engines OM615, OM616, OM617, OM601, OM602, OM603, OM604, OM605 and OM606



			kg	
150.2510	6 pcs	Impact extractor for pre-chamber	3.76	

		8	
150.2511	Connecting rod	460	
150.2512	Impact weight of 2.4 kg	2400	
150.2513	Nut M14	20	
150.2514	T-handle	400	
150.2515	M14 to M12 adapter	100	
150.2516	Tension bolts for Mercedes pre-chamber	360	

INSPECTION AND TEST TOOLS

- · Professional test assortment to the misdiagnosis through measurement of the return stroke quantities of high pressure injectors
- · Measurement of up to 8 high pressures Injectors simultaneously possible
- Ideal supplement to the engine diagnosis device
- Diesel sutible silicone tubes
- · Tube end with coupling and original adapter for safe connection
- . Double sealed brass connections in the test tube
- ·Stable acrylic test block with filli g line scale
- · Precise measurement result through 25 ml volumetric capacity in the test tube
- · In durable plastic storage case

Application range: Mercedes, BMW, Ford, Renault, Opel, Vauxhall, Toyota, Nissan, Citroen, Volvo, Peugeot etc.





			8	
150.1580	65 pcs	Common rail injector test assortment with 8 measurement pipes	3.16	

	X		8	
150.1581	1	Acrylic-Block	800	
150.1582	8	Silicone tube 5,2 x 8,8 x 600 mm	40	
150.1584	8	Adapter to acrylic block with O ring	24	
150.1594	8	Adaptor for Bosch	10	
150.1595	8	Adaptor for Siemens	10	
150.1596	8	Adaptor for Denso	10	
150.1597	8	Adaptor for Delphi	10	
150.1598	8	Double nipple Adaptor for Bosch	30	
150.1599	8	Fast fastener coupling	30	

Plastic pipe with adapter

- · Fitted directly on the injector
- Perfect supplement to set 150.1580



	Length	å	
150.1571	165.0	18	

Cylinder leak detector tester set

- · For diagnosis of compression pressure loss
- Suitable for analysing inlet and outlet valves, piston rings or cylinder liner, cylinder head or head seal
- · Better alternative for compression measurement
- Universal usage
- Integrated pressure reducer
 Necessary working pressure: 1.0 bar
- · For use on engines at operating temperature
- · In durable plastic storage case

Test results:

Outlet valves not tight:

Air noises in exhaust, manifold and cylinder head on the outlet

Inlet valves not tight:

Air noises in intake, on cylinder head on the inlet side

Piston rings, pistons, cylinder bore damaged:

Air noises on the crankcase breather or on the dipstick

Cylinder head seal defective:

Air noises in the adjacent cylinder, spark plug bore

Cylinder head seal defective or tear in cylinder head Air noises or bubble formation in the cooling system or



			8	
150.1780	9 pcs	Cylinder leak detector tester set	2.30	

	-	8
150.1781	Test device with dual display: Input pressure 0-7 bar + pressure loss display 0-100%	570
150.1782	Hose 14/18 mm	132
150.1783	House with adaptor	108
150.1784	Adapter M10 x 1.0 mm	280
150.1785	Adaptor M12 x 1.25 mm	310
150.1786	Adapter M14 x 1.25 mm	330
150.1787	Adapter M14 x 1.25 mm, long design	550
150.1788	Spark plug adapter M12 x 1.25 mm	251
150.1789	Spark plug adaptor M14 x 1.25 mm	255

- Complete test tool set with or without direct injection
- · Compact adaptor pieces with quick couplings
- · Includes extensive adaptor assortment
- · Very fl xible tube for hard to access places
- · In durable plastic storage case



Technical data:

0.0-70.0 bar Tube length: 355.0 mm bar, psi or KPA

		j).	å	
150.1680	13 pcs	Compression pressure test instru- ment for diesel engines	2.56	

consists of:

		å
150.1680-1	Manometer with tube	640
150.1680-2	Glow plug adaptor, M10x1,25	40
150.1680-3	Glow plug adaptor, M12x1,25	40
150.1680-4	Glow plug adaptor, M14x1,25	70
150.1680-5	Compression pressure test adaptor, 114mm	220
150.1680-6	Compression pressure test adaptor, M24x2	160
150.1680-7	Compression pressure test adaptor	60
50.1680-8	Glow Plug Adaptor M 10 x 1,25	60
50.1680-9	Glow plug adaptor, M10x1	45
50.1680-10	Compression pressure test adaptor	145
50.1680-11	Replacement sealings and washers	15
50.1680-12	Angle connecting piece	50
50.1680-13	Clamp arch	70

Digital compression pressure test set for petrol engines

- · For dry and wet compression tests
- · Compact adaptor pieces with quick couplings
- · Includes extensive adaptor assortment and analogue ma-
- Digital manometer with reading storage up to 12 cylinders · By means of brass coupling the repair is possible on valve
- seals without dismantling of the cylinder head Very fl xible tube for hard to access places
- · In durable plastic storage case



			8	
150.1650	10 pcs	Digital compression pressure test set for petrol engines	2.20	0.0

consists	of:		
		å	
150.1650-	Manometer digital	420	- 00
150.1650-	Replacement seals and valve assortment	5	
150.1650-	Manometer analogue	120	
150.1650-	Adaptor tube M18 x 1,5	100	
150.1650-	Adaptor tube M14 x 1,25 long	90	
150.1650-	Adaptor tube M14 x 1,25 short	110	
150.1650-	Adaptor bush L=64 mm, M18 x 1.5	105	
150.1650-	Adaptor bush L=42 mm, M12 x 1.25	40	- 3
150.1650-	Adaptor bush L=42 mm, M10 x 1,0	40	
150.1650-	Coupling 1/4" IG	80	

Diesel injector test device set 0-600 bar

- · Table device for the testing of diesel injectors for opening
- pressure, density and jet shape

 During testing the fluid is i jected back in to the storage tank with spray guard
- Fluid container volume 330 cm³
- Piston displacement 35 cm³
- Bolted precision manometer Ø 100.0 mm with protective rubber parts 0-600 bar
- Includes two high pressure pipe adapters
 Device body made from sturdy metal cast
- Test container from shock-proof and diesel resistant plastic with fine fi er
- Feet (118 mm x 97 mm) with four bore holes for sturdy mounting onto work bench

For testing the following methods: Jet free or blocked

Opening pressure

Jet nozzle pattern/nebulisation

Clasp drip behaviour

Acoustic inspection (chattering)

Densty of the pressure tube between injection pump and nozzla

Application range:

M14 x 1.5 universa

M12 x 1.25 VAG TDI engines



	H mm	å	
455.01 20	345.0	2.90	

consists of:

		å	
455.0121	Connection pipe M14 x M14, 210 mm	80	
455.0122	Connection pipe M14 x M12, 210 mm	72	
455.0123	Diesel injector test device 0-600 bar	2700	1

Low fuel pressure diagnosis set

- · Ideal for the quick and easy testing of low pressure circuit (fl w pressure and return pressure measurement)

 • Quick to find I aks
- · Fits all common vehicles
- The pressure loss inspection is carried out via the manometer
- · Quick and efficient us
- · For the diagnosis of the following basic tests: the supply of fuel from the tank, air bubbles in the fuel system, impurities in the fuel
- In durable plastic storage case

Application range: Commercial vehicles, transporters and



			kg	
150.1845	14 pcs	Low fuel pressure diagnosis set	4.00	

consists of:

	X		g
150.1846	2	Adaptor hose Ø 6.0 mm, 2 m long	320
150.1847	1	Manometer 1.0-5.0 bar incl. connection nipple and safety cover	140
150.1848	1	Manometer 1.0-15.0 bar incl. connection nipple and safety cover	140
150.1849	1	T-piece SAE 8 x 20 mm (red)	100
150.1851	1	T-piece SAE 9.5 x 20 mm (grey)	100
150.1852	1	T-piece SAE 10 x 20 mm (green)	120
150.1853	1	T-piece SAE 10 x 30 mm (blue)	120
150.1854	1	T-piece NG8 Type 246 (white)	100
150.1855	1	T-piece Ø 6.0 mm (brown)	60
150.1856	1	T-piece Ø 8.0 mm (orange)	60
150.1857	1	T-piece Ø 10.0 mm (purple)	60
150.1858	1	T-piece 11.8 x 25 mm (light blue)	140
150.1859	1	T-piece SAE 8 x 30 mm (yellow)	100

Fuel system testing and cleaning set

- Makes possible quick, simple and correct operation of the engine, without using the tank fi ted to the vehicle
- · Suitable for diagnosing faults between the tank and highpressure tank, fuel fil er, etc.
- · Ideal for fuel systems to release soiling and gunk in the injection system with an exact mix of fuel/cleaning agent
- In durable plastic storage case

Application range: Universally suitable for all vehicles with a turally aspirated engine





			ŝ	
150.1860	43 pcs	Fuel system testing and cleaning set	8.00	

	X		9
150.1861	1	10 litre container	1000
150.1661	1	Hand pump with male coupling	280
150.1862	2	Adapter hose Ø 8.0 mm, 4 m long	650
150.1864	1	Adapter set 3 part SAE 8 x 20 mm (red)	120
150.1865	1	Adapter set 3 part SAE 8 x 30 mm (yellow)	120
150.1866	1	Adapter set 3 part SAE 9.5 x 20 mm (grey)	120
150.1867	1	Adapter set 3 part SAE 10 x 20 mm (green)	120
150.1868	1	Adapter set 3 part SAE 10 x 30 mm (blue)	160
150.1869	1	Adapter set 3 part NG8 Type 246 (white)	120
150.1870	1	Adapter set 3 part Ø 6.0 mm (light blue)	200
150.1871	1	Adapter set 3 part Ø 8.0 mm (pink)	180
150.1872	1	Adapter set 3 part Ø 10.0 mm (purple)	100
150.1873	1	Adapter set 3 part 11.8 x 25 mm (brown)	80
150.1874	1	Adapter set 3 part NG12 Type 246 (orange)	100
150.1875	- 1	Adapter set 3 part Ø 12.0 mm (black)	140
150.2324	2	Double-sided adapter 3/8", short	36
150.2323	1	Double-sided quick coupling 3/8"	74

PNEUMATIC ADAPTER FOR GLOW PLUG BORES

Pneumatic adapter for M8 x 1.0 glow plug holes

- · Ideal for boring in the glow plug bores
- The injection of air prevents contaminants building up in the combustion chamber
- Enables simple and professional work
- Air supply can be set with lever
- Special steel

Application range: Citroën, Fiat, Ford, Lancia, Opel, Mercedes, Suzuki, Volvo, etc. with M8 x 1.0 glow plug thread





	Committee threat min	Langth	D		
152.1511	M8 x 1,0	178.0	12 x 80	180	

Pneumatic adapter for M10 x 1.0 glow plug holes

- · Ideal for boring in the glow plug bores
- . The injection of air prevents contaminants building up in the combustion chamber
- Enables simple and professional work
- · Air supply can be set with lever
- Robust design
- · Special steel

Application range: BMW, Chrysler, Opel, Mercedes, Nissan, Renault, etc. with glow plug thread M10 x 1.0





	Committee thread min	Length	D mm	å	
152,1512	M10 x 1.0	178.0	15 x 100	180	

Pneumatic adapter for M10 x 1.25 glow plug holes

- · Ideal for boring in the glow plug bores
- . The injection of air prevents contaminants building up in the combustion chamber
- Enables simple and professional work · Air supply can be set with lever
- Robust design
- · Special steel

Application range: Toyota, Lexus, etc. with glow plug thread





Connection thread mm		Length mm	D mm	g	
152.1513	M10 x 1,25	207.0	15	190	

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INJECTOR REMOVAL TOOLS

Injector grab hook extractor with 1.25 kg impact weight

- For Mercedes CDI Bosch common rail injectors
- For the extraction of the firm y burned injectors in the cylinder
- · Arched lever area on the handle hook for exact extraction
- ·Tilting and jamming of the injector is avoided
- · Claw and impact weight can be used separately
- Includes impact weight
- ·Special steel





	Impact weight fig.	Thread impact swight	L mm	Replacement sten	Replacement Impact seight	å	- 2
152.1050	1.25	M10 x 1,5	410.0	152.1045	152.1040	1.45	

Injector extractor with 6 + 3 kg impact weight

- •Ideal for Bosch injectors with M17 x 1.0 internal thread
- Robust design
- · For the extraction of the firm y burned injectors in the cylinder head
- · Enables short and intensive impact through impact weight
- · Cylinder head does not work against the thrust bearing
- Avoids tilting of the injectors
- Includes impact weight
- · Special steel

Application range: Bosch injectors with M17 x 1.0 internal





			8	
152.1055	3 pcs	Injector extractor with 6 + 3 kg impact weight	12.50	

		8	
700.1415	Universal slide hammer 6 + 3 kg, 850mm	12.00	
152.1056	Single screw adaptor AG M17 x 1	0.24	
152.1057	Hexagon socket, tamperproof 10 mm	0.10	

njector-extractor for 1.5 kg impact weight

- Ideal for Siemens injectors with M 25 x 1.0 internal thread
- Robust design
- · For the extraction of the firm y burned injectors in the cylinder head
- Enables short and intensive impact through impact weight
- Cylinder head does not work against the thrust bearing
- · Avoids tilting of the injectors
- ·Short design for hard-to-reach areas
- Includes impact weight
- •Thread on impact extractor 5/16" x 16 mm
- · Special steel

Application range: Siemens injectors with M25 x 1.0 internal



			8	
152.1200	2 pcs	Injector-extractor for 1.5 kg impact weight	2.52	

		å	
152.1255	Slide hammer 1.5 kg, thread 5/16" x 16 mm	2340	
152.1455	Screw-in adapter for Siemens, M25 x 1	180	

Injector-extractor for 1.5 kg impact weight

- •Ideal for Denso injectors M20 x 1.0
- · Robust design
- · For the extraction of the firm y burned injectors in the cylinder head
- · Enables short and intensive impact through impact weight
- Cylinder head does not work against the thrust bearing
- · Avoids tilting of the injectors
- ·Short design for hard-to-reach areas
- Includes impact weight
- •Thread on impact extractor 5/16" x 16 mm
- Special steel

Application range: Denso injectors with M20 x 1.0 internal



2.52

Injector-extractor for 1.5 kg impact

consists of:

152.1265 2 pcs

		å	
152.1255	Slide hammer 1.5 kg, thread 5/16" x 16 mm	2340	
152.1456	Screw-in adapter for Denso, M20 x 1	180	

jector-extractor for 1.5 kg impact weight

- •Ideal for Siemens injectors M27 x 1.0
- Robust design
- · For the extraction of the firm y burned injectors in the cylinder head
- · Enables short and intensive impact through impact weight
- · Cylinder head does not work against the thrust bearing
- · Avoids tilting of the injectors
- ·Short design for hard-to-reach areas Includes impact weight
- •Thread on impact extractor 5/16" x 16 mm
- · Special steel

Application range: Siemens injectors with M27 x 1.0 internal



	_		8	
152.1270	2 pcs	Injector-extractor for 1.5 kg impact weight	2.58	

		å	
152.1255	Slide hammer 1.5 kg, thread 5/16" x 16 mm	2340	
152.1457	Screw-in adapter for Siemens, M27 x 1	240	

jector-extractor for 1.5 kg impact weight

- Ideally suited Bosch injectors M27/M17 and 10 mm
- Robust design
- · For the extraction of the firm y burned injectors in the cylinder head
- · Enables short and intensive impact through impact weight
- Cylinder head does not work against the thrust bearing
- · Avoids tilting of the injectors
- · Short design for hard-to-reach areas
- Includes impact weight
 Thread on impact extractor 5/16" x 16 mm
- Special steel

Application range: Fiat, BMW, Mercedes, Renault engines with Bosch injectors with M27/M17 and 10 mm internal thread



		**************************************	8	
152.1275	4 pcs	Injector-extractor for 1.5 kg impact weight	2.64	

		8
152.1255	Slide hammer 1.5 kg, thread 5/16" x 16 mm	2340
152.1458	Screw-in adapter set for Bosch M27/M17 and 10 mm, 3 pitch	300

Injector-extractor for 1.5 kg impact weight

- · Ideal for older high pressure injectors with M12 thread
- Robust design
- · For the extraction of the firm y burned injectors in the cylinder head
- · Enables short and intensive impact through impact weight
- Cylinder head does not work against the thrust bearing
- Avoids tilting of the injectors
- Short design for hard-to-reach areas
 Includes impact weight
- •Thread on impact extractor 5/16" x 16 mm
- Special steel

Application range: for older high pressure injectors with M12



		8	
152.1255	Slide hammer 1.5 kg, thread 5/16" x 16 mm	2340	
152,1459	Screw-in adapter for M12	140	

jector-extractor for 1.5 kg impact weight

- · Ideal for Bosch and Delphi injectors M14
- Robust design
- · For the extraction of the firm y burned injectors in the cylinder head
- · Enables short and intensive impact through impact weight
- Cylinder head does not work against the thrust bearing
- Avoids tilting of the injectors
- · Short design for hard-to-reach areas
- · Includes impact weight
- •Thread on impact extractor 5/16" x 16 mm
- · Special steel

Application range: Bosch and Delphi injectors with M14



	_		8	
152.1285	2 pcs	Injector-extractor for 1.5 kg impact weight	2.54	

		å	
152.1255	Slide hammer 1.5 kg, thread 5/16" x 16 mm	2340	
152.1461	Screw-in adapter for Bosch and Delphi, M14	200	

Universal injector-extractor

- · For the extraction of the firm y burned injectors in the cylinder
- ·With arched contact surface on the handle hook for exact positioning
- · Avoids tilting of the injectors
- · Claw and impact weight can be used separately
- Includes impact weight
- · Special steel

Application range: Common Rail engines with Denso, Bosch, nens, Delphi injectors



	Impact emight (kg)	Longin	*6	
152.2070	1.55	395.0	3.22	- 8

Air chisel injector pump puller set with adaptors

- · Suited to the dismantling of injectors
- · Robust design
- · For the extraction of the firm y burned injectors in the cylinder
- · Enables short and intensive impacts by supporting a pneumatic power chisel with 10 mm adapter
- · Cylinder head does not work against the thrust bearing
- Avoids tilting of the injectors
- · Includes extensive range of adapters
- •Thread on injector extractor 5/16" x 16 mm
- Special steel



			8	
152.1450	10 pcs	Air chisel injector pump puller set with adaptors	3.54	8

		å
152.1455	Screw-in adapter for Siemens, M25 x 1	180
152.1456	Screw-in adapter for Denso, M20 x 1	180
152.1457	Screw-in adapter for Siemens, M27 x 1	240
152.1458	Screw-in adapter set for Bosch M27/M17 and 10 mm, 3 pitch	300
152.1459	Screw-in adapter for M12	140
152.1461	Screw-in adapter for Bosch and Delphi, M14	200
152.1462	Universal adapter	150
152.1463	Pneumatic power chisel extractor	1400

Universal injector removal kit

- · Suited to the dismantling of injectors
- Robust design
- · For the extraction of the firm y burned injectors in the cylinder head
- · enables short and intensive impact through impact weight
- Cylinder head does not work against the thrust bearing
- Avoids tilting of the injectors
- including extensive range of adapters
- Includes impact weight
- Receiving thread on injector extractor M18 x 1.5 mm
- · Special steel
- · In durable plastic case







			8	
152.1085	14 pes	Universal injector removal kit	13.00	- 8

consists of:

		8
152.1086	Injector nozzles hexagon socket with borehole 10 mm, Ø 6 mm	78
152.1087	Injector nozzles hexagon socket with borehole 10 mm, Ø 7 mm	80
152.1088	M14 x 1.5 mm adapter, BMW M47, MB W211cdi	68
152.1089	M16 x 1.0 mm adapter, Toyota 2.2	110
152.1190	M17 x 1.0 mm adapter, MB Bosch	114
152.1191	M20 x 1.0 mm adapter, Denso	110
152.1192	M25 x 1.0 mm adapter, Siemens	126
152.1193	M27 x 1.0 mm adapter, Siemens	136
152.1194	Slide hammer 3 + 5 kg	7840
152.1195	1/2" injector socket, 25.0 mm, I = 100 mm	270
152.1196	1/2" injector socket, 27.0 mm, I = 100 mm	270
152.1197	1/2" injector socket, 29.0 mm, I = 100 mm	342
152.1198	1/2" injector socket, 30.0 mm, I = 100 mm	358
152.1199	M18 x 1.5 mm universal joint	474

Pump/nozzle and TDI injector extractor set

- · Ideal for disassembly of pumps/nozzle units
- Robust design
- · For the removal of the firm y burned pump/nozzle unit from the cylinder head
- Cylinder head does not work against the thrust bearing
- Avoids tilting of the injectors
- Special steel

Application range: Audi, Volkswagen, Seat, Škoda, etc.



			8
152.1405	6 pcs	Pump/nozzle and TDI injector extractor set	1.16

		å
152.1352	Impact weight for 152.1350	809
152.1354	Guide rod with nut for 152.1350	110
152.1359	T-type extractor for 152.1350	49
152.1360	T-type extractor for 152.1360	62
152.1363	Hex bolts for 152.1350	102
152.1364	Hex bolts for 152.1350	38

Injector nozzle extractor set for VAG

- · Suited to the dismantling of injectors
- *suitable for FSI, SDI, TDI, Common Rail and pump injector engines
- Robust design
- · For the extraction of the firm y burned injectors in the cylinder head
- · Cylinder head does not work against the thrust bearing
- Avoids tilting of the injectors
- · including extensive range of adapters
- ·Special steel

Application range: Audi, Volkswagen, Seat, Škoda, etc.



153 1350 24 per Injector payala extractor set for VAC 2.00				kg	
132.1330 24 pcs Injector nozzle extractor sector vacs 3.00	152.1350	24 pcs	Injector nozzle extractor set for VAG	3.00	

		å
152.1351	Handle for 152.1350	379
152.1352	Impact weight for 152.1350	809
152.1353	Guide rod for 152.1350	51

consists of:

		9
152.1354	Guide rod with nut for 152.1350	110
152.1355	Injector pump extractor for 152.1350	258
152.1356	Brass casing no 1 for 152.1350	73
152.1357	Brass casing no 2 for 152.1350	74
152.1358	Brass casing no 3 for 152.1350	74
152.1359	T-type extractor for 152.1350	49
152.1360	T-type extractor for 152.1360	62
152.1361	Adjustable extracting tool for 152.1350	100
152.1362	Socket extracting tool for 152.1350	90
152.1363	Hex bolts for 152.1350	102
152.1364	Hex bolts for 152.1350	38
152.1365	Brass cone for 152.1350	7
152.1366	Brass casing 14 x 40 mm	46
152.1367	Brass casing 12.5 x 40 mm	49
152.1368	Brass casing 12.5 x 20 mm	19
152.1369	Connector extraction tool type I	52
152.1379	Injector extraction sleeve	173
152.1451	Connector extraction tool type U	47
152.1452	Brass cone 10 x 7 x 35 mm	15
152.1453	Stainless steel wrench for 152.1350	6
152.1454	Bracket injector extracting tool for 152.1350	173

INJECTOR SEALING RING EXTRACTOR

jector sealing ring extractor

- · Ideal for removing firm y burned injector copper sealing rings from the injector shaft
- · No damage to the cylinder head
- Universal usage
 Precision pressing on the sealing ring
- ·Simple handling and guiding
- · Special steel

Application range: BMW, Mercedes, Opel, Renault, Nissan,

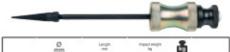


	L mm	å	
152.1173	260	425	

Injector sealing ring extractor with impact weight

- · Ideal for removing firm y burned injector copper sealing rings from the injector shaft
- No damage to the cylinder head
- Universal usage
- · precision pressing on the sealing ring due to cone-shaped gear tooth system
- Simple handling and guiding
- · Special steel

Application range: BMW, Mercedes, Honda, Peugeot, Opel, Renault, Nissan, etc.



mm	Length	Impact weight	NO.
4 - 16	370.0	850.00	1.36
	4 - 16	4 - 16 370.0	4 - 16 370.0 850.00

niector test equipment

- · For the diagnosis of fuel pipes and faults in electronic injec-
- · Pulse generator may be used with fuel manometer



		å	
150.9010	Injector test equipment	200	

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INJECTOR AND INJECTOR SEAT CLEANING

Injector sealing surface cleaner

- · Ideal for cleaning the injector head
- Clean, professional and fast work
 Simple handling
- · Special steel

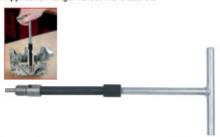


1.0	D mm	L mm	å	
152.1179	20.0	49.0	97	

njector seal seat cutter Ø 15/19 mm

- · Ideally suited to cleaning the injector seat
- · Clean, professional and fast work
- Simple handling
- With T-handle
- · Special steel

Application range: various manufacturers



		å	
152.1465	Injector seal seat cutter Ø 15/19 mm	481	

		å	
152.1171	3/8" Milling head pilot, 19.0 mm, 175 mm	185	
152.1172	1/2" T-handle key for milling machine, 150mm	240	
152.1175	Injector gasket milling seat head Ø 15/19mm, 38mm	550	

Injector seal seat cutter Ø 17/17 mm

- · Ideally suited to cleaning the injector seat
- ·Clean, professional and fast work
- · Simple handling
- With T-handle
- ·Special steel

Application range: BMW, PSA, Renault



		å	
152.1466	Injector seal seat cutter Ø 17/17 mm	471	

-		•	
		9	
152.1171	3/8" Milling head pilot, 19.0 mm, 175 mm	185	
152.1172	1/2" T-handle key for milling machine, 150mm	240	
152.1176	Injector gasket milling seat head Ø 17/17mm, 38mm	47	

jector seal seat cutter Ø 17/19 mm

- · Ideally suited to cleaning the injector seat
- · Clean, professional and fast work
- Simple handling
- · With T-handle
- Special steel

Application range: Mercedes



52 1467	Injector seal seat cutter Ø 17/19 mm	460
52.1467	Injector seal seat cutter to 17/19 mm	460

		å
152.1171	3/8" Milling head pilot, 19.0 mm, 175 mm	185
152.1172	1/2" T-handle key for milling machine, 150mm	240
152.1177	Injector gasket milling seat head Ø 17/19mm, 38mm	58

ector seal seat cutter Ø 19/21 mm

- Ideally suited to cleaning the injector seat
 Clean, professional and fast work
- · Simple handling · With T-handle
- ·Special steel

Application range: Fiat, Iveco



152.1464

	9	
3/8" Milling head pilot, 19.0 mm, 175 mm	185	
1/2" T-handle key for milling machine, 150mm	240	
Injector gasket milling seat head Ø 19/21mm, 38mm	68	
	1/2" T-handle key for milling machine, 150mm Injector gasket milling seat head Ø	1/2" T-handle key for milling machine, 150mm 240 Injector gasket milling seat head Ø 68

Injector seal seat cutter Ø 19/21 mm

Injector density seat cleaning set

- · Assortment to the cleaning of the density seat of the diesel injector
- ·Simple handling
- · For a correct and damage free use
- In durable plastic storage case

Application range: Mercedes Benz CDI Engine, Bosch/Delphi Injectors, (BMW, Renault, Ford, Fiat, Iveco)



			kg	
152.1170	13 pcs	Injector density seat cleaning set	2.38	

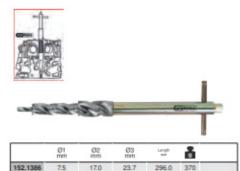
consists of:

		å	
152.1171	3/8" Milling head pilot, 19.0 mm, 175 mm	185	
152.1172	1/2" T-handle key for milling machine, 150mm	240	
152.1173	Injector sealing ring, 260mm	425	
152.1174	Injector milling re-seating tool, 225mm	370	
152.1175	Injector gasket milling seat head Ø 15/19mm, 38mm	550	
152.1176	Injector gasket milling seat head Ø 17/17mm, 38mm	47	
152.1177	Injector gasket milling seat head Ø 17/19mm, 38mm	58	
152.1178	Injector gasket milling seat head Ø 19/21mm, 38mm	68	
152.1180	Cleaning brush	45	
152.1181	Milling head cleaning brush, nylon	13	

njector seat cleaning tool

- Ideally suited to cleaning the injector seat
- The special design enables cleaning of the nozzle seat, the mounting hole of the injection nozzles and the small openings to the combustion chamber in one single process
- · Clean, professional and fast work
- Simple handling
 With T-handle
- · Special steel

Application range: BMW Common Rail diesel engines M47TU, M57 and M57TU



njector seat cleaning tool

- · Ideally suited to cleaning the injector seat
- . The special design enables cleaning of the nozzle seat, the mounting hole of the injection nozzles and the small openings to the combustion chamber in one single process
- ·Clean, professional and fast work
- ·Simple handling
- ·With T-handle
- · Special steel

Application range: BMW Common Rail M47 diesel engines



			CI.		
	Ø1 mm	Ø2 mm	Longth	å	
152.1387	7.5	17.0	290.0	370	- 10

jector seat cleaning tool

- · Ideally suited to cleaning the injector seat
- . The special design enables cleaning of the nozzle seat, the mounting hole of the injection nozzles and the small openings to the combustion chamber in one single process
- Clean, professional and fast work
- Simple handling
- · With T-handle
- · Special steel

Application range: Mercedes Common Rail diesel engines OM611, OM612, OM 613, OM639, OM640, OM642, OM646, OM647, OM648, OM651, OM668, Smart R660; PSA 2.7 HDI, Motor DT17 and 3.0 HDI, DT20 engine; Chrysler 2.5 crd, engine OM664; Toyota 3.0 D-4D, engine 1 KD-FTV and 2.2 D-4D, engine 2 AD-FHV and 2 AD-FTV; Lexus 2.2 diesel, engine 2 AD-FHV



Injector seat cleaning tool

- Ideally suited to cleaning the injector seat
- The special design enables cleaning of the nozzle seat, the mounting hole of the injection nozzles and the small openings to the combustion chamber in one single process
- · Clean, professional and fast work
- ·Simple handling
- · With T-handle
- ·Special steel

Application range: Opel, Fiat, Lancia, Suzuki 1.3 JTD, 1.3 CDTi, 1.3 JTD, 1.3 DDis Common-Rail diesel engines Z13DT, 188A9.000.



- Ideally suited to cleaning the injector seat
- The special design enables cleaning of the nozzle seat, the mounting hole of the injection nozzles and the small openings to the combustion chamber in one single process
- · Clean, professional and fast work
- · Simple handling
- · With T-handle
- · Special steel

Application range: Renault, Nissan, Opel, Suzuki, Mitsubishi, 1.9 dTl, 1.9 dCi, 1.9 CDTl, 1.9 Di, 1.9 DDis, 1.9Di-D Common Rail diesel engines



Injector seat cleaning tool

- . Ideally suited to cleaning the injector seat
- The special design enables cleaning of the nozzle seat, the mounting hole of the injection nozzles and the small openings to the combustion chamber in one single process
- · Clean, professional and fast work
- · Simple handling · With T-handle
- Special steel

Application range: Renault, Suzuki, Nissan, Dacia, 1.5 dCl, 1.5 DDis Common Rail diesel engines K9K



njector seat cleaning tool

- · Ideally suited to cleaning the injector seat
- The special design enables cleaning of the nozzle seat, the mounting hole of the injection nozzles and the small openings to the combustion chamber in one single process
- · Clean, professional and fast work
- ·Simple handling
- · With T-handle
- ·Special steel

152.1393

Application range: Peugeot, Citroën, Fiat, Lancia, Suzuki, 2.0 HDI, 2.0 JTD, engine code DW10 Common Rail diesel engines, Mercedes, OM646 EVO, Renault, Nissan, Opel, 2.2 DTI, CDTI, CDI, engine code G9T and 2.5 DTI, CDTI, CDI, engine code G9U



17.0

360

261.0

ector seat cleaning tool

- · Ideally suited to cleaning the injector seat
- The special design enables cleaning of the nozzle seat, the mounting hole of the injection nozzles and the small openings to the combustion chamber in one single process
- · Clean, professional and fast work
- Simple handling With T-handle

Application range: Peugeot, Citrõen, Fiat, Lancia, 2.2 HDI, 2.2 JTD, Common-Rail diesel engines



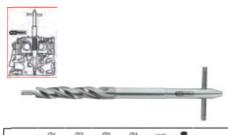
	Ø1 mm	Ø2 mm	693 mm	Length	å
152.1394	7.5	17.0	19.6	275.0	360

njector seat cleaning tool

- Ideally suited to cleaning the injector seat
 The special design enables cleaning of the nozzle seat, the nting hole of the injection nozzles and the small openings to the combustion chamber in one single process
- · Clean, professional and fast work
- Simple handling

Special steel

Application range: 1.6 I PSA Common Rail diesel engines, Fiat 1.6 I HDI, engine code DV6, 9HX, 9HY, 9HZ; Ford 1.6 I TDCi, engine code G8DA, G8DB, HHDA, HHJA, HHJB; Volvo 1.6 I D, engine code D4164T; Mazda 1.6 I D, engine code Y6



	Ø1 mm	Ø2 mm	Ø3 mm	Ø4 mm	Langth (ICR)	å
152.1395	7.5	17.0	17.6	18.7	195.0	330

INJECTOR SHAFT CLEANING

Injector pump cleaning set

- Range for cleaning the injector shaft
 Also suitable for various other applications
- · Cleaning brushes with various diameters
- · Simple handling
- · For correct and damage-free use
- · In durable plastic storage case



152.1370 23 pcs Injector pump cleaning set



consists of:

	X		g	
152.1173	1	Injector sealing ring extractor	425	
152.1372	1	Sealing plugs assembly rod	30	Ξ
152.1373	6	Sealing plugs for M5 internal thread	4	
152.1374	1	Bit receptacle with fl xible shaft	80	
152.1375	2	Brush for nozzle channel Ø 7.24 mm	16	
152.1376	2	Brush for injector shaft Ø 18 mm	10	
152.1381	2	Brush for injector shaft Ø 19 mm	10	
152.1382	2	Brush for injector shaft Ø 21 mm	10	
152.1383	2	Brush for injector shaft Ø 24 mm	10	
152.1377	1	Special holder for injector shaft brushes	71	
152.1384	2	End brush with corrugated brass wire	32	
152.1385	1	Plastic sleeve for end brush	22	

MASTER cleaning brush set

- For cleaning and deburring threads, cylinders, connectors, pipes and other components with nylon, brass and steel
- With external hexagon drive to DIN 3126/ISO 1173 C 6.3
- With locking and quick-change mechanism on the handle grip and extension
- · Can be used by hand or with an electric screwdriver
- · Can be used with an electric screwdriver in a clockwise direction
- Nickel plated
- · In durable plastic storage case

Application range: For cleaning all types of thread, spreader bar seals on injection lines of cylinder heads, brake calliper sliding sleeves, O-ring entries, injector seal seats, valves of exhaust gas recirculation systems, inlet and outlet openings, etc.





			kg	
340.0010	38 pcs	MASTER cleaning brush set	1.43	

consists of:

		9	
340.0061	1/4" handle with quick action lock	71	
340,0062	1/4" extension with quick action lock	51	
340.0063	1/4" brass brush Ø 8 mm	15	
340.0064	1/4" brass brush Ø 9 mm	15	
340.0065	1/4" brass brush Ø 10 mm	15	
340.0066	1/4" brass brush Ø 11 mm	16	
340.0067	1/4" brass brush Ø 12 mm	16	
340.0068	1/4" brass brush Ø 13 mm	16	
340.0069	1/4" brass brush Ø 14 mm	17	
340.0070	1/4" brass brush Ø 15 mm	17	
340.0071	1/4" brass brush Ø 16 mm	17	
340.0072	1/4" brass brush Ø 17 mm	18	
340.0073	1/4" brass brush Ø 18 mm	18	
340.0074	1/4" brass brush Ø 19 mm	18	
340.0075	1/4" steel brush Ø 8 mm	15	
340.0076	1/4" steel brush Ø 9 mm	15	
340.0077	1/4" steel brush Ø 10 mm	15	
340.0078	1/4" steel brush Ø 11 mm	15	
340.0079	1/4" steel brush Ø 12 mm	16	
340.0080	1/4" steel brush Ø 13 mm	16	
340.0081	1/4" steel brush Ø 14 mm	17	
340.0082	1/4" steel brush Ø 15 mm	17	
340.0083	1/4" steel brush Ø 16 mm	17	
340.0084	1/4" steel brush Ø 17 mm	17	
340.0085	1/4" steel brush Ø 18 mm	18	
340.0086	1/4" steel brush Ø 19 mm	18	
340.0087	1/4" nylon brush Ø 8 mm	15	
340.0088	1/4" nylon brush Ø 9 mm	15	
340.0089	1/4" nylon brush Ø 10 mm	15	
340.0090	1/4" nylon brush Ø 11 mm	15	

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		å	
340.0091	1/4" nylon brush Ø 12 mm	15	
340.0092	1/4" nylon brush Ø 13 mm	15	- 3
340.0093	1/4" nylon brush Ø 14 mm	15	
340.0094	1/4" nylon brush Ø 15 mm	15	18
340.0095	1/4" nylon brush Ø 16 mm	15	
340.0096	1/4" nylon brush Ø 17 mm	15	
340.0097	1/4" nylon brush Ø 18 mm	15	
340.0098	1/4" nylon brush Ø 19 mm	15	

INJECTOR PUMP WRENCH

Injector pump wrench

- · Ideal for assembly and disassembly of securing screws on the injection pump
- · Also required when changing the tooth belt or to adjust the beginning of the injection process
- •90° angled
- · Matt finis
- · Chrome vanadium

Application range: Audi 1.6 I diesel, Citroën, Volkswagen Golf, Jetta, Caddy, Passat, etc.



	mm	L mm	8	
152.1396	13	165.0	140	

njection pump multi-tooth socket

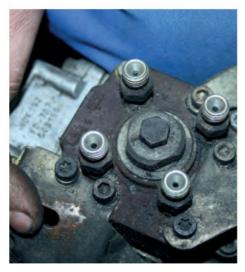
- · Ideal for assembly and disassembly of the pressure Valve
- holder on the in-line injection pump

 Also required for start of fuel delivery inspection
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- · Matt finis
- Chrome vanadium

Application range: Mercedes diesel engines 601, 602, 603, 605, 606, 615, 616, 617



- 11	Tuelli	L mm	D	8	
152.1397	33	40.0	27.0	104	



Bosch injector pump socket set

- Ideal for Bosch high pressure pumps (VP37) and distributor injection pumps
- · For loosening the cover screws
- · Required for disassembling and tightening the pump
- ·Special steel

Application range: Bosch VP37, Bosch VE pumps



			å	
152.1380	2 pcs	Bosch injector pump socket set	114	

consists of:

		8	
152.1347	Bosch injector pump socket, Ø 18 mm, I = 36 mm	44	
152.1348	Bosch injector pump socket, Ø 19.7 mm, I = 45 mm	70	

PUMP WHEEL EXTRACTOR

njection pump sprocket removal tool for BMW

- · Ideal for loosening the injection pump sprocket from the shaft when disassembling the injection pump
- Robust design
- Special steel

Application range: BMW engine 4 cylinder M41 and 6 cylinder M51, Opel Omega B 2.5 TD





	mm	Longiti	8	
150.1506	32,5	79,0	220	

Injection pump sprocket removal tool for BMW

- · Ideal for securing the injection pump sprocket and for pushing out the injection shaft
- Necessary for disassembling the injection pump
- ·With extractor sleeve and hexagon adapter
- · Robust design
- Special steel

Application range: BMW 116d, 118d, 120d, 123d (E81, E82, E87, E88, F20)/316d, 318d, 320d, 325d, 330d (E90, E91, E92, E93, F30)/520d, 525d, 530d, 530d GT, 535d, 535d GT, M550d (E60, E61, F07, F10, F11)/640d (F12)/730d, 740d, 750d (F01)/ X1 - 1.8d, 2.0d, 2.3d (E84)/X3 - 1.8d, 2.0d, 3.0d, 3.5d (E83, F25)/X5 - 3.0d, 4.0d, M5.0d (E70)/X6 - 3.0d, 4.0d, M5.0d (E71)





jection pump sprocket removal tool set for BMW

- Ideal for securing the injection pump sprocket and for pushing out the injection shaft
- Necessary for disassembling the injection pump
- · Robust design
- · Special steel

Application range: BMW engines M47, M47T2, M47TU, M57, M57TU (E38, E39, E60, E61, E46, E53)



			å	
150.1575	4 pcs	Injection pump sprocket removal tool set for BMW	520	

consists of:

		8	
150.1576	Casing	160	
150.1577	Spindle M18 x 1.5 mm	60	
150.1578	Threaded sleeve, M40 x 1.5 mm	120	
150.1579	Threaded sleeve, M42 x 1.5 mm	180	

LOCKRING DRIVER AND ADJUSTMENT TOOLS

njection pump locking pin

- · Ideal for securing the injection pump for adjustment work on
- · Simple handling
- ·Special steel

Application range: Ford



	ø	L1 mm	L2 mm	å	
400.0251	6.0	78.0	49.0	30	

In-line injector pump adjusting screw

- · Ideal for setting the start of fuel delivery of the in-line injector pump
- · Simple handling
- · Special steel

Application range: Mercedes diesel engines 601, 602, 603, 605, 606 and 617



	Ø mm	Length	å	
400.9050	6,0	52.0	60	- 4

- · Ideal for locking the distributor injection pump when starting to deliver fuel when assembling and disassembling
- ·Simple handling
- · Special steel

Application range: Mercedes diesel engine 604 with Lucas distributor injection pump, Renault with Delphi distributor injection pump



	Ø	Longth	å	
400.9055	6,5	62.0	20	

Valve injector pump alignment pin

- · Ideal for locking distributor injection pump e.g. when changing
- · Simple handling
- · Special steel

Application range: Fiat Ducato 2.5, 2.8D, 2.8TD, Croma TD; eugeot; Opel Movano 2.5D; Citroën



100	Ø mm	Longth	å	
400.9060	5,0	70.0	80	

Injection pump locking pin

- · Ideal for securing the injection pump for adjustment work on
- · Simple handling

Application range: Opel, Isuzu, Vauxhall, General Motors



5	Ø mm	L mm	8	
400.0678	6,0	110.0	41	

tion pump wheel fixi g tool

- · Ideal for locking the sprocket wheel of the injection pump
- Simple handling
- · Special steel

Application range: Renault Clio, Megane, Laguna, Kangoo 1.9 DTi, MC: F9Q



		å	
400.9016	Injection pump wheel fixi g tool	166	

Injection pump locking pin

- · Ideal for securing the injection pump
- ·Simple handling
- · Special steel

Application range: Audi, Volkswagen



	Ø mm	Length (Mr)	8	
400.9015	15,4	67.0	126	

VAG Injection pump locking pin

- · For the professional engine repair
- · Ideally suited to securing the injection pump
- ·With air inlet
- ·Simple handling
- Special steel
- · Very high degree of accuracy

Application range: Volkswagen Lupo 3L, 1.2/1.4 TDi, Polo 1.4 TDi, Golf / Bora 1.9 SDi / TDi, Passat 1.9 TD (1994-1996), Beetle 1.9 TDi (>1999) and Transporter 1.9TD



	Ø mm	L mm	8	
400.9018	6,0	80.0	20	

ction pump locking pin

- · Ideal for setting up the injection pump
- · Simple handling
- · Special steel

Application range: Renault



	mm Ø	mm.	8
400.1805	5,0	75.0	20

- · Ideal for locking the injection pump when carrying out adjustment work on the engine
- Simple handling
- · Special steel

Application range: Ford



110	Ø	å	
400.0807	104,0	2	

Injector pump locking pin set

- · Ideal for securing the injection pump for adjustment work on
- engines ·Simple handling
- · Special steel

Application range: Austin Maestro, Maestro Van, Montego



		mm	mm	ŏ	
400	0.0289	6,0	70.0	14	

Camshaft locking pir

- · Ideal for securing the injection pump for adjustment work on engines
- Simple handling
- Special steel

Application range: Citroen AX, Jumper, Jumper II, Saxo, XM, Xsara, Ducato

MC: 8140.43, 8140.43S, 8140.63, F1AE0481C, F1AE0481D, F1AE0481N, THY (DK5ATE/L), THY (DK5ATED), VJX (TUD5B/L4), VJY (TUD5/Y), VJY (TUD5/Y/L3), VJZ (TUD5/L/ L3), VJZ (TUD5/L/Y/L3), VJZ (TUD5/L3)



	Ø	Length Inn	8
400.0165	5,0	70.0	19

INJECTOR PUMP ADJUSTING TOOLS

Pump injector setting gauge, 3 cylinders

- · Simple adjustment of the pump injector unit during assembly
- Adjustment unit for old and new magnetic valve bolts
- · Precision positioning through slotted holes on the cylinder head
- · Professional inspection of the assembly position
- · Can be used in variety of situations

Application range: Audi, Volkswagen, Seat, Škoda, Ford, with 3 cylinder pump nozzle engines



	Langh		å	
400.9097	305	Pump injector setting gauge, 3 cylinders	520	

ump injector setting gauge, 4 cylinders

- · Simple adjustment of the pump injector unit during assembly
- Adjustment unit for old and new magnetic valve bolts
 Precision positioning through slotted holes on the cylinder
- · Professional inspection of the assembly position
- · Can be used in variety of situations

Application range: Audi, Volkswagen, Seat, Škoda, Ford, with 4 cylinder pump nozzle engines



	Langh	ů	ì
400.9089	410	Pump injector setting 660	0

Diesel pump adjustment tool

- · Secure stand for the pump wheel when assembling and disassembling the high pressure pump
- exact positioning of the pump wheel
- •no need to disassemble the tooth belt
- ·saves work of making further adjustments to the pump
- ·Saves a lot of time
- · Special steel

Application range: Diesel engines F9Q for Opel, Renault, and Nissan vehicles



	-		
		8	
400.9051	Diesel pump adjustment tool	420	- 00

Injector pump adjusting tool set

- For adjusting the start of fuel delivery
- · For diesel engines with adjustable pump wheel
- · For Bosch and CAV pumps

Application range: 1.9 I diesel direct-injector F8Q and F9Q Renault Clio, Laguna, Megane, Scenic, Mitsubishi, Carisma, Opel, Volvo S40, V40, etc.



			å	
400.9065	3 pcs	Injector pump adjusting tool set	365	

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consists of:

		å	
400.9066	Bosch pump adapter, M10 to M8	6	
400.9067	Adjustment tool with 3 x 4 mm pins	300	
400.9068	Special applications, 27 mm hexagon socket, 1/2" drive	59	l k

Mounting sleeve set for pump injectors

- · For changing the O-rings of the pump injection unit without causing any damage
- · Precision positioning of the fuel injection unit
- · In durable plastic storage case

Application range: Volkswagen Phaeton and Touareg > 2003, T5 > 2004 (5 + 10 cylinder diesel engines), Touran > 2004, Audi A3 > 2004 (4 cylinder, 4 valve diesel engines), Seat, Škoda, etc.





			å	
400.9080	6 pcs	Mounting sleeve set for pump injectors	580	9 8

consists of:

		å
400.9083	Adjustment gauge, length 165.00 mm	60
400.9084	Assembly sleeve Ø 17.5 mm, length 28.9 mm	40
400.9085	Assembly sleeve Ø 21.6 mm, length 47.0 mm	60
400.9086	Assembly sleeve Ø 23.3 mm, length 67.2 mm	80
400.9087	Assembly sleeve Ø 31.0 mm, length 28.0 mm	60
400.9088	Assembly sleeve Ø 32.4 mm, length 40.3 mm	60

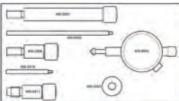
Diesel fuel pump timing set

- · For the professional engine repair
- Precise measuring device
- · Very high degree of accuracy
- In durable steel storage case

Application range: Alfa Romeo, Audi, BMW, Daihatsu, Fiat, Ford, Isuzu, Iveco, Lancia, Land Rover, Mazda, Mitsubishi, Nissan, Renault, Rover and Volkswagen vehicles with Bosch, Kikki, Nippon Denso injection pumps with threads of M8, M10 and M12, with new M10 Adapter in particular for Ford Transit

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			å	
400.0325	7 pcs	universal	301	-8

		8
400.0301	Dial gauge adapter M8 (Bosch), long	71
400.0302	Dial gauge extension, long 99 mm	9
400.0303	Convertor M8 x M12	12
400.9004	Precision-dial indicator gauge 0 - 10 mm	78
400.0309	Dial gauge adapter M8 (Bosch) short, silver	37
400.0310	Dial gauge extension short	4
400.0311	Dial gauge adapter M10 (Bosch) short, black	40

Diesel fuel pump timing set

- · For the professional engine repair
- · Precise measuring device for the upper entry hole
- · For resetting the injection time on diesel engines
- Very high degree of accuracy
 In durable steel storage case

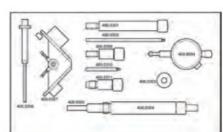
Application range: Alfa Romeo, Audi, BMW, Daihatsu, Fiat, Ford, Isuzu, Iveco, Lancia, Land Rover, Mazda, Mitsubishi, Nissan, PSA (XUD), Renault, Rover, Volkswagen vehicles with Bosch, EP/VE Rotary, Niki, Nippon Denso, CAV Roto-Diesel, Top injection fuel pumps

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			å	
400.0300	11 pes	universal	710	

		8	
400.0301	Dial gauge adapter M8 (Bosch), long	71	
400.0302	Dial gauge extension, long 99 mm	9	
400.0303	Convertor M8 x M12	12	
400.0304	TDC determining pin / dial indicator bracket M14 x 2.0 mm	135	
400.0305	Extension	460	
400.0306	Dial gauge probe for Lukas-CAV-Roto	17	
400.0307	Dial gauge assy for Lukas-CAV-Roto	125	
400.0309	Dial gauge adapter M8 (Bosch) short, silver	37	
400.0310	Dial gauge extension short	4	
400.0311	Dial gauge adapter M10 (Bosch) short, black	40	
400.9004	Precision-dial indicator gauge 0 - 10 mm	78	

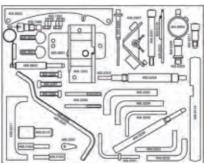
Universal - Engine Timing Tool Set for diesel engines

- · For the professional engine repair
- Special set for adjusting and locking diesel engines
 Very high degree of accuracy
- · In durable steel storage case

Application range: Audi, Citroën, Ford, Opel, Peugeot, Renault, Rover, Volvo, Volkswagen vehicles with diesel engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





		8	
400.1950	40 pcs universal	4.74	

consists of:

		å	
400.0154	Camshaft setting strap	150	
400.0164	Timing pin Ø 6,6 mm (2)	74	
400.0251	Injection pump locking pin Ø 6.0 mm	30	
400.0252	Camshaft locking pin 6.0 mm	26	
400.0253	Locking pin Ø 8.0 mm	41	
400.0254	Locking pin Ø 9.5 mm	60	
400.0255	Locking pin Ø 10.0 mm	60	
400.0257	Crankshaft TDC locking pin	124	
400.0258	Shim tool (2)	3	
400.0281	Timing pin Ø 12,7 mm	569	
400.0285	Crankshaft locking pin Ø 8,0 mm	97	
400.0286	Screw M8 x 35 mm (2)	16	
400.0287	Screw M8 x 40,0 mm	18	
400.0289	Injector pump locking pin (2)	14	
400.0290	Crankshaft setting pin Ø 6,0 mm	55	
400.0301	Dial gauge adapter M8 (Bosch), long	71	
400.0302	Dial gauge extension, long 99 mm	9	
400.0303	Convertor M8 x M12	12	
400.0304	TDC determining pin / dial indicator bracket M14 x 2.0 mm	135	
400.0305	Extension	460	
400.0306	Dial gauge probe for Lukas-CAV-Roto	17	
400.0307	Dial gauge assy for Lukas-CAV-Roto	125	
400.0309	Dial gauge adapter M8 (Bosch) short, silver	37	
400.0310	Dial gauge extension short	4	
400.0311	Dial gauge adapter M10 (Bosch) short, black	40	
400.0651	Camshaft locking tool (3)	169	
400.0652	Flywheel TDC indicator	80	
400.0653	Flywheel locking pin	79	
400.1260	Camshaft locking tool (5)	9	
400.1261	Locking screw M6 x 10.0 mm	4	
400.1263	Mounting bracket assy	330	- 8
400.1968	Special tip	16	
400.9004	Precision-dial indicator gauge 0 - 10 mm	78	
400.9015	Injection pump locking pin Ø 15.4 mm	126	

TRULY THE HIGHEST PERFORMING 1/2" PNEUMATIC IMPACT WRENCH!







	PAGE
SPARK PLUG CONNECTOR PULLER	258
IGNITION COIL PULLER	258 - 259
SPARK PLUG CONNECTOR PLIERS	259 - 260
STANDARD NUT SOCKETS FOR SPARK PLUGS	260 - 262
SPARK PLUG SCREWING AID	262
TORQUE TOOLS	262
REAMER FOR CLEANING	263
SPARK PLUG THREAD REPAIR	263
SPARK PLUG THREAD CUTTING TOOLS	263 - 264
CONTACT CLEANING	264
SENSOR AND THREAD GAUGES	265
TEST DEVICE	265



SPARK PLUG CONNECTOR PULLER

T-handle spark plug connector puller, short

- Short design
- · For almost all common vehicle types
- · Pipe part slotted to ensure optimal guidance of the cable without damage
- · For damage-free removal and insertion of spark plug connectors, even when the engine is warm
- With suspension hole
- •1 piece handle
- · Special steel



	mm.	8	
500.7525	225.0	230	

T-handle spark plug connector puller, long

- · Long design specially for engines with deep seating of the spark plugs
- · For almost all common vehicle types
- · Pipe part slotted to ensure optimal guidance of the cable without damage
- · For damage-free removal and insertion of spark plug connectors, even when the engine is warm
- ·With suspension hole
- 1 piece handle



	L.	å	
500.7535	350.0	270	

T-handle spark plug connector puller, angled, long

- · Angled long design specially for engines with deep seating of the spark plugs
- ·For almost all common vehicle types
- · Pipe part slotted to ensure optimal guidance of the cable without damage
- · For damage-free removal and insertion of spark plug connectors, even when the engine is warm
- ·With suspension hole
- 1 piece handle
- · Special steel

Application range: Volkswagen-Audi, Mercedes, Smart, etc.





IGNITION COIL PULLER

T-handle ignition coil puller for VGA engines

- Ideal for the fast and safe assembly and removal of ignition coils with power output stage
- · Prevents damage to the coil and on the housing
- With suspension hole
- •1 piece handle
- · Matt chrome
- · Chrome vanadium

Application range: 6 cylinder 24 V and 5 cylinder engines, Golf/Bora from 1998, Passat/Touareg from 1997, Sharan from 1996, Phaeton/Touareg 6 cylinder from 2003, Transporter T5 6 cylinder injection from 2004; Audi direct injection A3 from 04, 2.0 I, A4 from 02, 2.0 I, A5 from 08 3.2 I and 4.2 I, A6 from 05, 3.2 I, A8 from 03, 3.2 I - 4.2 I and 5.2 I, TT from 07, 1.8 I and 2.0 I, R8 from 08, 4.2 I, Q5 from 08, 2.0 I and 3.2 I, Q7 from 07, 3.6 I and 4.2 I



	Fork spening	L mm	å	
500.7545	18.0	135.0	130	

T-handle ignition coil puller VAG engines

- · Ideal for the fast and safe assembly and removal of ignition coils with power output stage
- · Prevents damage to the coil and on the housing
- ·With suspension hole •1 piece handle
- Matt chrome

Application range: 6 cyl. (4V) and 5 cyl. petrol injection engines Volkswagen FSI engines: Golf/Bora from 1998, Polo from 2002, Touran, Touareg, Sharan from 2004, New Beetle from

2003, Passat from 1997, Phaeton, T4, T5 + Audi A2 from 2001



T-handle ignition coil puller VAG engines

- · Ideal for the fast and safe assembly and removal of ignition
- coils with power output stage

 Prevents damage to the coil and on the housing
- ·With suspension hole
- 1 piece handle
- Matt chrome
- · Chrome vanadium

Application range: Volkswagen direct injection 2.0: Golf + Touran from 2004, Passat + Eos + Tiguan from 2006, Polo from 2002 4 cyl. 5V, Scirocco from 2009 1.8 I and 2.0 I, Phaeton from 2003 8 cyl., Audi direct injection A3 from 2004 2.0 I, A4 from 2002 2.0 I, A5 3.2 I and S5/RS5 4.2 I + R8 4.2 I + Q5 2.0 I and 3.2 I from 2008, A6 3.2 from 2005, A8 3.2 I and 4.2 I + S8 5.2 I from 2003, TT 1.8 I and 2.0 I + Q7 3.6 I and 4.2 I from 2007



	Fork appring	L mm	å	
500.7550	44.0	105.0	200	

gnition coil puller VAG engines

- · Ideal for the fast and safe assembly and removal of ignition coils with power output stage

 • Prevents damage to the coil and on the housing
- ·With fi ger pull ring
- Matt chrome
- · Chrome vanadiu

Application range: For 1.8 I turbo petrol injection engines with engine code: ARZ, AQA, AUM, AUQ e.g. for Audi A3 2.0 I from 2004, A6 3.2 I from 2005, TT, Volkswagen direct injection 2.0: Golf +Touran from 2004, Passat + Eos from 2006 AUDI direct injection: A3 2.0 I from 2004, A6 3.2 I from 2005





	Fork spening strin	L mm	å	
500.7555	44.0	90.0	100	



- ·Ideal for the fast and safe assembly and removal of ignition coils with power output stage

 • Prevents damage to the coil and on the housing
- · Covers almost all models of VAG and Audi engines
- ·With suspension hole
- 1 piece handle
- Matt chrome
- Chrome vanadium
- · In durable plastic storage case





			å	
500.7560	4 pes	T-handle ignition coil puller set for VAG engines	600	

consists of:

		å
500.7540	T-handle ignition coil puller VAG engines	150
500.7545	T-handle ignition coil puller for VGA engines	130
500.7550	T-handle ignition coil puller VAG engines	200
500.7555	Ignition coil puller VAG engines	100

SPARK PLUG CONNECTOR PLIERS

Spark plug connector pliers, short

- ·Short design
- Universal usage
- 10° angled gripper sleeves
- · Secure handling thanks to gripper sleeves with milled inner profil
- · Short plier arms
- For damage-free removal and insertion of spark plug connectors, even when the engine is warm
- ·With two component handle
- · Chrome vanadium





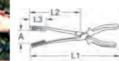


	Ø mm	L mm	9	
500.7532	8,0-15,0	220.0	260	

Spark plug connector pliers, long

- ·Long, angular gripper sleeves
- Gripping sleeves with milled inner profil
 Long plier arms
- ·Wide safety margin to the hot assembly
- · For extracting low lying spark plugs
- · With two component handle
- Chrome vanadium







	Ø mm	L1 mm	L2 mm	L3 mm	å
500.7510	8,0-15,0	290.0	145.0	50.0	280

ark plug connector pliers, long

- *Long design specially for engines with deep seating of the spark plugs
- Universal usage
- · Ideal for heat protection connectors
- •90° angled gripper sleeves
- Secure handling thanks to plier tips with milled inner profil
- · Very long plier arms
- · Wide safety clearance to the hot unit
- · For damage-free removal and insertion of spark plug connec-
- tors, even when the engine is warm · With PVC dipped handle
- · Chrome vanadium





99		100	100 100	
	Ø mm	L mm	9	
500.7501	7,9	295.0	336	- 8

Spark plug connector double joint pliers, long

- ·Long design specially for engines with deep seating of the spark plugs
- Universal usage
- · Ideal for heat protection connectors
- · Double joint means the pliers require less space to open and
- grab •45° angled gripper sleeves
- Secure handling thanks to plier tips with milled inner profil
 Very long plier arms
- · Wide safety clearance to the hot unit
- For damage-free removal and insertion of spark plug connectors, even when the engine is warm
- · With PVC dipped handle
- Chrome vanadium



	Ø mm	L	å	
500.7566	8,0	320.0	400	

Spark plug connector pliers, short

- ·Short design
- Universal usage
- Ideal for heat protection connectors
- 45° angled gripper sleeves
 Secure handling thanks to plier tips with milled inner profil
- Short plier arms
- · For damage-free removal and insertion of spark plug connectors, even when the engine is warm
- With two component handle
- Chrome vanadium



	Ø mm	L mm	8	
500.7533	9,0	190.0	220	

Spark plug connector pliers, long

- · Long design specially for engines with deep seating of the spark plugs
- Universal usage
- 90° angled gripper sleeves
 Secure handling thanks to gripper sleeves with milled inner profil
- Very long plier arms
- · Wide safety clearance to the hot unit
- · For damage-free removal and insertion of spark plug connectors, even when the engine is warm
- With PVC dipped handle



|--|

Spark plug connector double joint pliers, long

- · Long design specially for engines with deep seating of the spark plugs
- Universal usage
- · Ideal for heat protection connectors
- · Double joint means the pliers require less space to open and grab
- 45° angled gripper sleeves
- Secure handling thanks to plier tips with milled inner profil
 Very long plier arms
- · Wide safety clearance to the hot unit
- · For damage-free removal and insertion of spark plug connectors, even when the engine is warm
- · With PVC dipped handle
- Chrome vanadium



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Spark plug connector pliers set

- ·For removing and inserting diffi ult to access spark plug connectors
- · Requires less space when opening due to double joint
- •For all engine temperatures •45° angled
- Long design
- PVC dipped handle



			å	
500.7565	2 pes	Spark plug connector pliers set	800	

consists of:

		8	0
500.7566	Spark plug connector double joint pliers, Ø 8.0 mm, long	400	
500.7567	Spark plug connector double joint pliers, Ø 13.0 mm, long	400	

STANDARD NUT SOCKETS FOR SPARK PLUGS

T-handle spark plug spanner with joint

- •6-point
- Universal usage
- ·with joint
- · With rubber stop for holding the spark plugs
- Chrome plated and mirror polished
- Chrome vanadium



min.	•	L	å	
16,0	5/8"	235.0	250	
21,0	13/16"	235.0	280	
	16,0 21,0	16,0 5/8"	16,0 5/8" 235.0	mm 0 16,0 5/8" 235.0 250

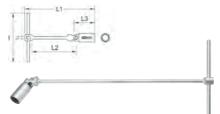


T-handle spark plug spanner with joint, long

- •12-point
- Double hexagon profile all ws the pickup of hexagon and 12-point spark plugs
- · Long design specially for engines with deep seating of the spark plugs
- Universal usage
- · with joint
- · With rubber stop for holding the spark plugs
- Matt finis
- · Chrome vanadium







	Profile	Ö	mm	L1 mm	L2 mm	L3 mm	å
517.1131	0	14,0	200.0	500.0	418.5	81.5	490
517.1132	0	16,0	200.0	500.0	418.5	81.5	500
517.1133	0	18,0	200.0	500.0	418.5	81.5	580
517.1134	0	21,0	200.0	500.0	418.5	81.5	590

T-handle spark plug spanner set with joint, long

- · Double hexagon profile all ws the pickup of hexagon and 12-point spark plugs
- · Long design specially for engines with deep seating of the spark plugs
- Universal usage
- · with joint
- ·With rubber stop for holding the spark plugs
- · Matt finis
- · Chrome vanadium

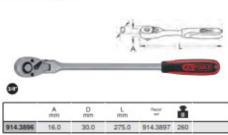




			8	
517.1130	4 pcs	14 - 16 - 18 - 21 mm	2.42	

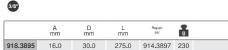
Flexible head reversible ratchet

- ·According to DIN 3122 / ISO 3315
- · Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- •180° revolving head
- Reversible
- Exact gearing 72 teeth ratchet mechanism
- · Ejection mechanism on the ratchet head
- · Ergonomic dual component handle
- · Recessed reverse lever
- · Matt finis
- · Chrome vanadium



- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock •180° revolving head
- ·Cranked shaft
- Reversible
- Fine gearing 72 teeth ratchet mechanism
- · Eiection mechanism on the ratchet head
- · Ergonomic dual component handle
- Lightweight recessed reverse leverChrome plated and mirror polished
- · Chrome vanadium





Telescopic spark plug socket, adjustable length

- •6-point
- Length adjustable to 146 / 161 / 176 / 191 / 206 mm
- Long design if required for engines with deep seated spark
- plugs
 Universal usage
- With rubber stop for holding the spark plugs
 Internal square in accordance with DIN 3120/ISO 1174
- For manual operation
- Matt finis





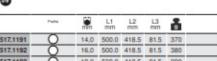
	Profile	mm	L mm	9	
500.3801	0	14,0	146/161/176/191/206	240	8 8
500.3802	0	16,0	146/161/176/191/206	250	
500.3803	0	21,0	146/161/176/191/206	260	

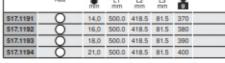
Spark plug socket with joint, long

- •12-point
 •Double hexagon profile all ws the pickup of hexagon and 12-point spark plugs
- Very long design specially for engines with deep seated spark plugs
- Universal usage ·with joint
- With rubber stop for holding the spark plugs
 Internal square drive to DIN 3120/ISO 1174
- · Matt finis
- · Chrome vanadium











Spark plug socket

- •6-point
- DIN 3124/ISO 3315
- FlankTraction-Profil
- Internal square to DIN 3120/ISO 1174 with ball reception
- ·With rubber stop for holding the spark plugs
- Long design
- For manual operation
 Matt finis
- · Chrome vanadium



	Pulls		•	D1 mm	D2 mm	,L	å
11.3804	0	16,0		20.0	18.0	63.0	60
11.3823	0	18,0		26.0	21.0	63.0	135
11.3805	0	21,0		22.0	19.0	63.0	60
911.3909	0		5/8"	22.0	20.0	63.0	60
911.3908	0	- 8	13/161	27.0	20.0	63.0	60

CHROMEplus® Spark plug socket

- 6-point
- DIN 3124/ISO 3315 FlankTraction-Profil
- Internal square to DIN 3120/ISO 1174 with ball reception ·With rubber stop for holding the spark plugs
- Long design
- · For manual operation
- . Chrome plated and mirror polished
- ·Chrome vanadium



	Profile		•	D1 mm	D2 mm	L	å	
918.3804	0	16,0	i i	22.0	19.0	63.0	60	
918.3805	0	18,0		26.0	20.0	63.0	60	
918.3806	0	21,0	3	28.0	21.0	63.0	60	
918.3991	0		13/16"	27.0	20.0	63.0	60	
918.3992	0		5/8"	22.0	20.0	63.0	60	

Special spark plug socket, extremely thin walled

- •12-point
- · Double hexagon profile all ws the pickup of hexagon and 12-point spark plugs
- Extra slim design
- · For spark plugs with platinum electrodes for example Bosch 14 7R
- ·With rubber stop for holding the spark plugs
- Internal square in accordance with DIN 3120/ISO 1174
- For manual operation Chrome vanadium

Application range: BMW E90 N 54 engine 335i from 2006, 1 Series (F20) 118i

Renault Modus, Twingo, Clio, Kangoo with 1.2 I 16V engine Peugeot 207, 307

Citroen C4 1.4 and 1.6 I 16V engine, C5 2.0 I HPi engine Mercedes Motor M156, engine M 276 Nissan Micra, Note

MINI 1.2 - 1.4 | 4 cyl from 2007 FORD 1.0 EcoBoost engine

Alfa 1.8 TBI engine

KIA.



CHROMEplus® special spark plug socket, extremely thin

- •12-point
- · Double hexagon profile all ws the pickup of hexagon and
- 12-point spark plugs
- ·Extra slim design
- · For spark plugs with platinum electrodes for example Bosch
- With rubber stop for holding the spark plugs
 Internal square in accordance with DIN 3120/ISO 1174
- · For manual operation
- Chrome plated and mirror polished

Application range: BMW E90 N 54 engine 335i from 2006, 1

Series (F20) 118i Renault Modus, Twingo, Clio, Kangoo with 1.2 I 16V engine Peugeot 207, 307

Citroën C4 1.4 and 1.6 I 16V engine, C5 2.0 I HPi engine Mercedes Motor M156, engine M 276

Nissan Micra, Note

MINI 1.2 - 1.4 I 4 cyl from 2007 FORD 1.0 EcoBoost engine

Alfa 1.8 TBI engine

918.3990



18.0 63.0

Special spark plug socket, thin walled

- •12-point
- · Double hexagon profile all ws the pickup of hexagon and 12-point spark plugs
- · Extra slim design
- · For spark plugs with platinum electrodes for example Bosch 14 7R
- ·With rubber stop for holding the spark plugs
- Internal square in accordance with DIN 3120/ISO 1174
- For manual operation
- Chrome vanadium

Application range: BMW E90 N 54 engine 335i from 2006, 1 Series (F20) 118i Renault Modus, Twingo, Clio, Kangoo with 1.2 I 16V engine Peugeot 207, 307

Citroen C4 1.4 and 1.6 I 16V engine, C5 2.0 I HPi engine Mercedes Motor M156, engine M 276

Nissan Micra, Note

MINI 1.2 - 1.4 | 4 cyl from 2007 FORD 1.0 EcoBoost engine

Alfa 1.8 TBI engine

KIA



Special spark plug socket with joint

- 12-point
- Double hexagon profile all ws the pickup of hexagon and 12-point spark plugs

18,0

- ·Extra slim design
- · with joint
- ·With rubber stop for holding the spark plugs
- For manual operation
- Matt finis



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Spark plug socket, long

- •12-point
- · Double hexagon profile all ws the pickup of hexagon and 12-point spark plugs
- · Long design specially for engines with deep seating of the spark plugs
- Universal usage
- · Extra slim design
- With strong, integrated magnets for holding the spark plugs
- Internal square in accordance with DIN 3120/ISO 1174
- For manual operation
- Matt finis
- · Chrome vanadium

Application range: Citroën C5 (HPI); Peugeot 207,308 (1.6 16V); 406 (HPI); Mini One 1.4 I; Renault Clio (1.2 16V); Twingo (1.2 16V); Volkswagen-16 valve; Mazda 626, 2.0 I, 16 valve with DOHC engine from 87; Mazda 323, 1.6 I and 1.9 I from 89; MX 5, 1.6 I from 90









	Profile	mm	L mm	9	
517.1143	0	14,0	250.0	300	
517.1141	0	16,0	250.0	360	
517.1142	0	21,0	250.0	560	

CHROMEplus® s park plug service set

- · Chrome plated and mirror polished
- Chrome vanadium
- In durable plastic case



			Ng.	
918.0607	7 pes	CHROMEplus" spar k plug service set	1.44	

Comanata	ui.		
		8	
918.3802	3/8" CHROMEplus" W obble -Extension, knurled Length 150 mm	145	
919.3804	3/8" CHROMEplus" L OKPLUS lengthener with lock, 150 mm	140	
918.3990	3/8" CHROMEplus" Spar k plug-Socket, 14 mm, 12 point	60	
918.3804	3/8" CHROMEplus" Spar k plug-Socket, 16 mm, 6 point	60	
918.3805	3/8" CHROMEpius" Spar k plug-Socket, 18 mm, 6 point	60	
918.3806	3/8" CHROMEplus" Spar k plug-Socket, 21 mm, 6 point	60	
918.3895	3/8" CHROMEplus" F lexible-Reversible ratchet, 72 teeth, Length 270 mm	230	

SPARK PLUG SCREWING AID

Spark plug screw in tool, double sided

- · For universal applications spark plug and glow plugs
- For the clean and preparing of the fi st thread gears
 Especially in common rail glow plugs
- Double sided usage
- · Solid rubber



	L mm	å	
500.7520	240.0	75	

TORQUE TOOLS

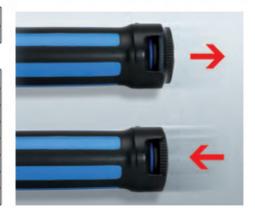
ERGOTORQUE® precision torque wrench with rotary mushroom ratchet head

- Actuation accuracy: ±3 % tolerance of the set scale value Precise reading accuracy for a minimum 5.000 tightening
- · For controlled fastening in clockwise and counter clockwise directions
- . Torque setting by pulling out and pushing in the slide in knob at the end of the handle
- •The direction of rotation (clockwise and counter clockwise)
- can be changed by simply rotating the square drive piece
- Double scale in N-m and lbf-ft divisions for precise adjustment . Includes micrometer scale in N·m divisions for precise and
- fine a justment · Large vision panel, precise adjustment using a magnifying
- glass
- · An audible and palpable signal when the desired torque value is achieved
- Exact gearing 72 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- · Secure locking function within the handle
- ·Two component handle with a soft zone, is ergonomic in
- design and comfortable in the hand Square drive adaptor to DIN 3120 ISO 1174 with ball lock
- · Individually marked with serial number unique product identifi ation
- · Includes test certifi ate in accordance with DIN EN ISO 6789:2003 national standard









- High accuracy
- · For controlled fastening in a clockwise direction with 18 Nm or 24 Nm
- · Clearly perceptible torque through the ratchet
- · It is not possible to over tighten the set value
- ·Without scale with a fi ed adjustable value · Can untighten without any torque restraint thanks to the
- anticlockwise latch Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- In durable steel storage case





			å	
516.1500	2 pcs	18 - 24 Nm	410	18

		ě	
516.1501	3/8" torque limiter for spark plugs, 18 Nm	165	
516.1502	3/8" torque limiter for spark plugs, 24 Nm	166	

Torque limiter spark plug socket set

- · For the controlled screwing of sparks plugs
- Includes 2 magnetic 250 mm long sparks plug socket
- High accuracy
- · For controlled fastening in a clockwise direction with 18 Nm or 24 Nm
- Clearly perceptible torque through the ratchet
- It is not possible to over tighten the set value
 Without scale with a fi ed adjustable value
- · Can untighten without any torque restraint thanks to the anticlockwise latch
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- In durable steel storage case





			8	
517.1140	5 pcs	Torque limiter spark plug socket set	2.07	- 7

		å
516.1501	3/8" torque limiter for spark plugs, 18 Nm	165
516.1502	3/8" torque limiter for spark plugs, 24 Nm	166
517.1141	3/8" spark plug socket, long 16 mm	360
517.1142	3/8" spark plug socket, long 21 mm	560
918.3890	3/8" CHROME changeover ratchet, 72 teeth	130

Special thread cleaner with integrated seal seat milling

- · Ideal for cleaning the internal thread of the spark plugs on the cylinder head
- · Optimum cleaning of the spark plug seat using a compression spring with integrated seal seat milling tool
- Simple handling
- Internal square drive to DIN 3120/ISO 1174
- External hexagon drive
- ·Special steel







	Ē	•	8	
150.5017	M14 x 1,25	1/2"	60	
150.5016	M16 x 1,25	1/2"	65	
150.5018	M18 x 1,5	1/2"	70	

SPARK PLUG THREAD REPAIR

THREADfix epair set M12 x 1.25 for glow and spark plugs

- . Unique assortment for the repair of worn or damaged threads
- · Ideal for spark plugs and glow plugs
- Simple handling and correct repair
 Provides an entirely firm and astight seat of the inserts
- · Extremely thin walled inserts with rustproofi g protection · Includes thread tap and assembly tool
- · Fast repair option without costly warehousing of components · In durable plastic storage case

M12 x 1.25 x 120 mm M12 x 1.25 x 130 mm

M12 x 1.25 x 150 mm



		å	
150.5060 21 pcs	THREADfix epair set M12 x 1.25 for glow and spark plugs	920	

consists	OF:		
		8	
150.5061	Threaded drill with guide pin M12 x 1.25	47	
150.5062	Threaded drill with guide pin M14 x 1.25	53	
150.5063	Reamer for guide pin	52	
150.5064	Screw for Bushes (S) L= 89 mm, M12 x 1.5, GL= 108 mm	230	
150.5068	Screw for Bushes (M) L= 95 mm, M12 x 1.25, GL= 114 mm	238	
150.5069	Screw for Bushes (L) L= 103 mm, M12 x 1.25, GL= 122 mm	246	
150.5077	Threaded bush with collar L=12 mm, IG= M12x1,25 / AG=M14x1,25 (5 per Pack)	20	
150.5078	Threaded bush with collar L=19 mm, IG= M12x1,25 / AG=M14x1,25 (5 per Pack)	20	
150.5079	Threaded bush with collar L=26 mm, IG= M12x1,25 / AG=M14x1,25 (5 per Pack)	20	

Spark plug thread repair set M14 x 1,25 for spark plugs

- · Proven and sturdy repair system for spark plug threads that have been torn out or damaged (e.g. in light alloy cylinder
- · Greatly cuts down on time and money as the repair can be carried out without having to remove the cylinder head.
- ·Thanks to the special tap, the remains of the old thread are cleared out and the new thread cut in one process.
- The threaded inserts are seated very firm y and gas-tight.
- They cannot unscrew during subsequent plug changes.
 The special steel threaded inserts have extremely thin walls
- and feature a rust protection layer (M14×1.25 inner thread / M16×1.25 outer thread).
- Delivery includes inserts for tapered sealing seats (without seal ring), e.g. Ford, Peugeot, MB etc.
- · In durable plastic storage case







			å
150.1280	16 pcs	Spark plug thread repair set M14 x 1,25 for spark plugs	200

150.1281	Tap, M16 x 1,25 mm	80
150.1282	Tap adaptor, M14 x 1,25 mm, 11,2 mm	20
150.1283	Tap adaptor, M14 x 1,25 mm, 17,5 mm	40
150.1284	Tap adaptor,for tapered sealing seat	40

THREADfix epair set M14 x 1.25 for spark plugs

- · Unique assortment for the repair of worn or damaged threads
- · Ideal for spark plugs
- Simple handling and correct repair
 Provides an entirely firm and astight seat of the inserts
- ·Extremely thin walled inserts with rustproofi g protection
- Includes thread tap and assembly tool
- · Fast repair option without costly warehousing of components
- · In durable plastic storage case

M14 x 1.25 x 120 mm M14 x 1.25 x 135 mm



			kg
150.5080	21 pcs	THREADfix epair set M14 x 1.25 for spark plugs	1.16

		å	
150.5081	Threaded tap M14 x 1.25 L=70 mm	59	
150.5082	Threaded tap M16 x 1,25 L= 70 mm	74	
150.5083	Reamer L= 70 mm	71	
150.5084	Screw for Bushes (S) L= 90 mm, M14 x 1.25, GL= 109 mm	343	
150.5085	Threaded bushing with collar L = 11.2 mm, IG = M14 x 1.25/AG = M16 x 1.25 (10 per pack)	41	
150.5086	Threaded bushing with collar L = 17.5 mm, IG = M14 x 1.25/AG = M16 x 1.25 (10 per pack)	64	
150.5087	Threaded bushing with cone L = 17.5 mm, IG = M14 x 1.25/AG = M16 x 1.25 (10 per pack)	62	
150.5088	Screw for Bushes (S) L= 90 mm, M14 x 1.25, GL= 117 mm	355	

ess steel thread repair set for spark plug threads M14 x 1,25 mm

- · Unique assortment for the repair of worn or damaged threads
- Ideal for spark plugs
- Simple handling and correct repair
- · Provides an entirely firm and astight seat of the inserts
- Extremely thin walled inserts made from stainless steel
 Includes thread tap and assembly tool
- Fast repair option without costly warehousing of components
 In durable steel storage case



			å	
150.6140	17 pcs	Stainless steel thread repair set for spark plug threads M14 x 1,25 mm	457	

		å
150.6141	Threaded insert M14 x 1.25, 16.4 mm, 5 pcs.	16
150.6142	Threaded insert M14 x 1.25, 12.4 mm, 5 pcs.	12
150.6143	Threaded insert M14 x 1.25, 8.4 mm, 5 pcs.	7
150.6144	Threaded tap/fla ing tool M14 x 1.25	72
150.6145	Mounting tool for M14 x 1.25	80

SPARK PLUG THREAD CUTTING TOOLS

Special hand thread cutter, extra long

- For cleaning and re-cutting M12 x 1.25 spark plug or glow plug threads
- Special length for deep seated thread
- · Quick and easy thread repair

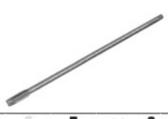
Application range:

Opel, Fiat, Mercedes, etc. M8 x 1.0:

M9 x 1.0: Opel, Fiat, etc.

Audi/Volkswagen, Seat, Škoda, Ford, Mercedes. M10 x 1.0: BMW, etc.

M10 x 1.25: Audi/Volkswagen, Seat, Škoda, Ford, etc. M14 x 1.25: Audi/Volkswagen, Opel, Mercedes, Seat, Škoda, BMW, etc.



	Ē	mm	Longth	8	
150.5011	M8 x 1,0	5.5	200.0	80	
150.5012	M9 x 1,0	5.5	200.0	80	
150.5013	M10 x 1,0	5.5	200.0	85	
150.5014	M10 x 1,25	5.5	200.0	85	
150.5015	M14 x 1,25	9.0	200.0	90	

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Spark plug thread cutting tool M14 x 1.25

- For cleaning and re-cutting M14 x 1.25 glow plug threads
- Simple handling due to eccentric function
 Special length for deep seated thread
- · Quick and low-cost thread repair Centring shaft
- ·With conical mounting shaft for thread repair sleeves
- ·With external hexagon drive
- · With knurled knob









	E	iii.	Length mm	å	
150.6505	M14 x 1,25	13.0	140.0	120	
150.6506	M14 x 1,25	13.0	270.0	280	

Glow plug and spark plug thread cutting tool set

- •For cleaning and re-cutting M12 x 1.25 spark plug or glow plug threads
- Simple handling due to eccentric function
- Special length for deep seated thread
 Quick and low-cost thread repair
- · Centring shaft
- ·With conical mounting shaft for thread repair sleeves
- ·With external hexagon drive
- ·With knurled knob
- In durable plastic storage case

Application range: BMW, Mini, Citroen, Peugeot, Renault, Mercedes, Volkswagen, etc.







	_		8	
150.6500	7 pcs	Glow plug and spark plug thread cutting tool set	1.40	Į.

consists	of:		
		å	
150.6501	Thread cutting tool, M8 x 1.0, 115 mm	80	
150.6502	Thread cutting tool, M10 x 1.0, 115 mm	100	
150.6503	Thread cutting tool, M12 x 1.25, 140 mm	120	100
150.6504	Thread cutting tool, M12 x 1.25, 270 mm	280	
150.6505	Thread cutting tool, M14 x 1.25, 140 mm	120	
150.6506	Thread cutting tool, M14 x 1.25, 270 mm	280	
150.6507	Thread cutting tool, M18 x 1.5, 90 mm	100	

CONTACT CLEANING

Steel wire spark plug wire brush 2 rowed

- · For delicate cleaning of electrodes and contacts on spark plugs
 • For surface preparation
- ·Steel wire





	H	L1 mm	L2 mm	å	
201.2315	14.8	170.0	24.5	20	

Brass wire spark plug wire brush 2 rowed

- •2-rowed
- · For delicate cleaning of electrodes and contacts on spark plugs
 •For surface preparation
- · Brass wire



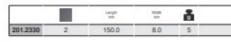


	H	L1 mm	L2 mm	å
201.2316	14.8	170.0	24.5	20

Contact file or spark plug contacts

- · For delicate cleaning of spark plug contacts
- ·Second cut
- · For surface preparation
- ·Special steel







MASTER cleaning brush set

- · For cleaning and deburring threads, cylinders, connectors, pipes and other components with nylon, brass and steel edging
- With external hexagon drive to DIN 3126/ISO 1173 C 6.3 With locking and quick-change mechanism on the handle grip and extension
- · Can be used by hand or with an electric screwdriver
- · Can be used with an electric screwdriver in a clockwise direction
- Nickel plated
- · In durable plastic storage case

Application range: For cleaning all types of thread, spreader bar seals on injection lines of cylinder heads, brake calliper sliding sleeves, O-ring entries, injector seal seats, valves of exhaust gas recirculation systems, inlet and outlet openings, etc.





			8	
340.0010	38 pcs	MASTER cleaning brush set	1.43	

		å	
340.0061	1/4" handle with quick action lock	71	
340.0062	1/4" extension with quick action lock	51	
340.0063	1/4" brass brush Ø 8 mm	15	
340.0064	1/4" brass brush Ø 9 mm	15	
340.0065	1/4" brass brush Ø 10 mm	15	
340.0066	1/4" brass brush Ø 11 mm	16	
340.0067	1/4" brass brush Ø 12 mm	16	
340.0068	1/4" brass brush Ø 13 mm	16	
340.0069	1/4" brass brush Ø 14 mm	17	
340.0070	1/4" brass brush Ø 15 mm	17	
340.0071	1/4" brass brush Ø 16 mm	17	18
340.0072	1/4" brass brush Ø 17 mm	18	
340.0073	1/4" brass brush Ø 18 mm	18	
340.0074	1/4" brass brush Ø 19 mm	18	
340.0075	1/4" steel brush Ø 8 mm	15	
340.0076	1/4" steel brush Ø 9 mm	15	
340.0077	1/4" steel brush Ø 10 mm	15	
340.0078	1/4" steel brush Ø 11 mm	15	
340.0079	1/4" steel brush Ø 12 mm	16	
340.0080	1/4" steel brush Ø 13 mm	16	
340.0081	1/4" steel brush Ø 14 mm	17	
340.0082	1/4" steel brush Ø 15 mm	17	
340.0083	1/4" steel brush Ø 16 mm	17	1
340.0084	1/4" steel brush Ø 17 mm	17	
340.0085	1/4" steel brush Ø 18 mm	18	
340.0086	1/4" steel brush Ø 19 mm	18	
340.0087	1/4" nylon brush Ø 8 mm	15	
340.0088	1/4" nylon brush Ø 9 mm	15	
340.0089	1/4" nylon brush Ø 10 mm	15	9
340.0090	1/4" nylon brush Ø 11 mm	15	
340.0091	1/4" nylon brush Ø 12 mm	15	
340.0092	1/4" nylon brush Ø 13 mm	15	
340.0093	1/4" nylon brush Ø 14 mm	15	
340.0094	1/4" nylon brush Ø 15 mm	15	1
340.0095	1/4" nylon brush Ø 16 mm	15	
340.0096	1/4" nylon brush Ø 17 mm	15	
340.0097	1/4" nylon brush Ø 18 mm	15	
340.0098	1/4" nylon brush Ø 19 mm	15	9

SENSOR AND THREAD GAUGES

Feeler gauge

- · For the testing of intervals, contact distances, etc.
- Feeler gauge conical tapered
 Fixing nut

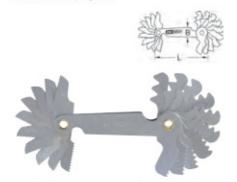
- Leaves individually marked with size
 Blades made out of hardened spring steel



9	Tooth place	Measuring range eren	L	å
300.0600	20	0,05-0,10-0,15-0,20-0,25-0,30- 0,35-0,40-0,45-0,50-0,55-0,60- 0,65-0,70-0,75-0,80-0,85-0,90- 0,95-1,00	100.0	88

Thread gauge

- · For controlling and increasing the interior thread and outside thread
- · Imperial sizes
- Cylindrical tapered
- Leaves fan shaped arrangement
 Leaves individually marked with size
- Out of hardened spring steel



	Took pile	Measuring stripe	B	L mm	å	
301.0090	22	4-4,5-5-6-7-8-9-10-11-12- 13-14-16-18-20-22-24-32- 40-48-56-64mm	12.2	66.5	40	9

Thread gauge

- · For controlling and increasing the interior thread and outside thread
- Cylindrical tapered
- · Leaves fan shaped arrangement
- Leaves individually marked with size
 Out of hardened spring steel



	Took plot	Measuring sarge	mm	mm	å
301.0095	20	0,40 0,45 0,50 0,60 0,70 0,75 0,80 1,00 1,25 1,50 1,75 2,00 2,50 3,00 3,50 4,00 4,50 5,00 5,50 6,00mm	12.2	66.5	40

TEST DEVICE

Test spark plug

- · For checking ignition systems
- No damage to control devices due to earth connection
 Universal usage
- •On vehicles with DIS ignition systems 2 pieces are required





	Lampin nam	å
550.1507	68.0	60



Test lamp for ignition cable

- For quickly findi g defective ignition cables
 No piercing of the insulation, prevents contact with live wires
- · Correct operation of the ignition cable is indicated by a light





	Langth	Cable length mm	å
550,1506	200.0	1200	40

Digital ignition timing gun (stroboscope) with LED

- · For checking and adjustment the ignition timing on petrol engines
 •For 12 V systems on 2, 3, 4, 5, 6 and 8 cylinder engines
- For all current vehicles with high voltage ignition cable
 Specially for engines that have no angle marking on the belt
- pulley

 Can be used for 4-stroke distributor ignition systems, 2-stroke
- and dual spark ignition systems
- Extra bright Xenon lights through special lenses
 Internal power supply through crocodile clips
- Additional crocodile clip and inductive plies for measuring rotation speed, dwell angle and voltage test
- Perfect adjustment of ignition from 0 to 60°
 Dwell angle test from 0 to 99.9% with conversion table
- Engine speed counter from 200 to 9999 rpm
- Voltage drop test
- · Control dial on housing side for adjusting the fl sh delay
- Mode can be chosen using a push-button on the back of the housing





	Lamphy	Note not	Melghi state.	8	
550.1500	270.0	65.0	180.0	885	



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	PAGE
GLOW PLUG CONNECTOR PLIERS	268
STANDARD NUT SOCKETS FOR GLOW PLUGS	268 - 269
GLOW PLUG SCREWING AID	269
TORQUE TOOLS	270
RATCHET RING SPANNER	270
ELECTRODE HEAD EXTRACTION TOOL	270
GLOW PLUG EXTRACTOR TOOLS	270 - 271
REAMER FOR CLEANING	271 - 272
GLOW PLUG DRILL OUT TOOLS	272 - 273
GLOW PLUG THREAD CUTTING TOOL	273 - 274
GLOW PLUG THREAD REPAIR	274 - 276
THREAD GAUGES	276
TEST DEVICE	276

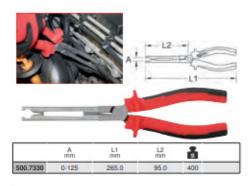


GLOW PLUG CONNECTOR PLIERS

Glow plug pliers

- ·Suitable for very firm y seated glow plugs
- . For the expert installation and removal of glow plugs
- Specially milled plier profile or positive holding
- · For diffi ult to access areas
- ·With two component handle
- · Special tool steel

Application range: Modern diesel engines, e.g. Mercedes, BMW, Volkswagen-Audi



Glow plug pliers, angled

- · Glow plug-plier, angled
- ·Suitable for very firm y seated glow plugs
- · For the expert installation and removal of glow plugs
- · Specially milled plier profile or positive holding
- Angled head
- · For diffi ult to access areas
- ·With two component handle
- · Special tool steel

Application range: Modern diesel engines, e.g. Mercedes, BMW, Volkswagen-Audi



	A mm	L1 mm	L2 mm	å	
500.7310	0-105	235.0	120.0	400	

Glow plug dismantling pliers

- ·With rubber dipped handle
- ·Serrated jaws
- · Length wise mounted handle arranged at the plier jaw
- With self-opening mechanism
- In order to pull out the glow plugs from the glow plug canal in the cylinder head · Allows the removal of firm y seated and diffi ult to access
- glow plug connectors
- Also possible to extract incomplete glow plugs
- Optimum power transmission with rotary and train movements
- Universal usage
- Special tool steel



STANDARD NUT SOCKETS FOR GLOW PLUGS

Glow plug special socket 8 mm

- For installing and removing the glow plugs
- · For use on engines with glow plugs at the top of the cylinder head below the valve cover, standard fl xible spanners cannot be used here
- · FlankTraction profil
- Internal square to DIN 3120/ISO 1174 with ball reception
- Long design
- For manual operation
- · Matt finis
- Chrome vanadium

Application range: Volkswagen-Audi 2.0 TDI engines (engine code: BKP, etc.) e.g. Volkswagen Passat 3C



		D1 mm	mm DS	L	T	å
917.3828	8,0	12.0	16.0	63.0	10.0	110

Glow plug special socket 10 mm

- ·6-point
- · For installing and removing the glow plugs
- · Very narrow design
- · FlankTraction profil
- Internal square to DIN 3120/ISO 1174 with ball reception
- Long design
- For manual operation · Matt finis
- Chrome vanadium



(PP			N				5
	mm	D1 mm	D2 mm	L	T	å	_
500.1410	10,0	13.5	11.0	50.0	10.0	110	

Glow plug special socket 10 mm

- · For installing and removing the glow plugs
- · For use on engines with glow plugs at the top of the cylinder head below the valve cover, standard fl xible spanners cannot be used here
- · FlankTraction profil
- Internal square to DIN 3120/ISO 1174 with ball reception
- Long design
- · For manual operation
- · Matt finis
- · Chrome vanadium

Application range: 1.5 dCi engines (engine code: K9K) for Renault, Dacia, Nissan



PSG glow plug socket 12 mm, incl. 5 PSG protection caps

- · 6-point
- · For the safe assembly and removal of PSG glow plugs
- · Can also be used for removal/assembly of standard glow plus with 12 mm
- · Supplied 5 PSG glow plug protective caps prevent electrostat-
- ic charging and contamination of the PSG glow plugs
 Integrated ball and outer ring for secure holding of the glow
- plug
- · Breaking moment of the PSG glow plugs at 22 Nm
- ·Glow plugs must only be strained up to 12 Nm
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- · Matt finis
- · Chrome vanadium

Application range: A4/S4 (Avant/Quattro) 3.0 I from 11/09; Q7 3.0 I from 11/08; Touareg 3.0 I from 02/09; Golf (Variant/4motion) 2.0 I from 09/09; Insignia (Sports Tourer) 2.0 CDTI from 03/09; Insignia (Bi Turbo) 2.0 CDTI from 07/08; Meriva B (CDTI) 1.3 I from 03/10; Astra J 1.3 I 03/10







	min	Payticement protective cap	8	
500.7345	12.0	500.7345-01	49	

Special glow plug socket

- · For the safe assembly and removal of glow plugs
- · Socket with side slot
- · Does not destroy the connector cable
- · Simple handling
- For diffi ult to access areas
 External drive hexagonal socket 10.0 mm
- ·Simple handling
- · Special steel

Application range: Alfa Romeo 147,156,159, GT; Fiat Bravo, Stilo; Opel Astra, Signum, Vectra-C, Zafi a; Saab 93,95





		Congli- min	å	
500.7351	8,0	50.0	20	- 80
500.7352	9,0	50.0	20	
500.7353	10,0	50.0	20	100

- •For the safe assembly and removal of glow plugs
- Socket with side slotDoes not destroy the connector cable
- •Simple handling •For diffi ult to access areas
- ·Simple handling
- ·Special steel

Application range: Alfa Romeo 147,156,159, GT; Fiat Bravo, Stilo; Opel Astra, Signum, Vectra-C, Zafi a; Saab 93,95





44			å	
500.7350	3 pcs	Special glow plug socket set	120	i i

		g	
500.7351	Special glow plug socket, 8 mm	20	
500.7352	Special glow plug socket, 9 mm	20	
500,7353	Special glow plug socket, 10 mm	20	

Glow plug fl xible socket

- •6 point
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Short execution
- For the safe disassembly and assembly of glow plugs
- · For diffi ult to access areas
- · Suitably for all current glow plugs
- Screwed universal joint
 Inclusive rubber rings for safe holding of the glow plug
- Matt finis
- Chrome vanadium



	mm	L mm	g	
500.7301	8,0	75.0	70	
500,7302	9,0	75.0	70	
500.7303	10,0	75.0	70	
500.7304	12,0	75.0	70	
500.7305	14,0	80.0	80	
500.7306	16,0	80.0	100	

Glow plug fl xible socket set

- •6 point
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- ·Short execution
- · For the safe disassembly and assembly of glow plugs
- · For diffi ult to access areas
- · Suitably for all current glow plugs
- Screwed universal joint
- Inclusive rubber rings for safe holding of the glow plug
- Matt finis
- · Chrome vanadium





			9	
500.7300	6 pcs	Glow plug fl xible socket set	610	

consists of:

		g	
500.7301	3/8" glow plug articulated socket, short, 75 mm, 8 mm	70	
500.7302	3/8" glow plug articulated socket, short, 75 mm, 9 mm	70	
500.7303	3/8" glow plug articulated socket, short, 75 mm, 10 mm	70	
500.7304	3/8" glow plug articulated socket, short, 75 mm, 12 mm	70	
500.7305	3/8" glow plug articulated socket, short, 75 mm, 14 mm	80	
500.7306	3/8" glow plug articulated socket, short, 75 mm, 16 mm	100	

Glow plug fl xible socket, long

- •6 point
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long execution
- For the safe disassembly and assembly of glow plugs For diffi ult to access areas
- Suitable for all current glow plugs
- Screwed universal joint
- Inclusive rubber rings for safe holding of the glow plug
- Matt finis
- · Chrome vanadium





	mm	L mm	g	
500.7311	8,0	150.0	190	
500,7312	9,0	150.0	190	
500.7313	10,0	150.0	190	
500.7314	12,0	150.0	190	
500.7315	14,0	160.0	190	
500.7316	16,0	160.0	190	

Glow plug swivel wrench set, long

- •6 point
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- · Long execution
- · For the safe disassembly and assembly of glow plugs
- For diffi ult to access areas
- Suitable for all current glow plugs
- · With screwed universal joint
- Inclusive rubber rings for safe holding of the glow plug • Matt finis
- Chrome vanadium
- In durable plastic storage case







			kg	
500.7320	6 pcs	Glow plug swivel wrench set, long	1.40	

consists of

001101010	•		
		g	
500.7311	3/8" glow plug articulated socket, long, 150 mm, 8 mm	190	
500.7312	3/8" glow plug articulated socket, long, 150 mm, 9 mm	190	
500.7313	3/8" glow plug articulated socket, long, 150 mm, 10 mm	190	
500.7314	3/8" glow plug articulated socket, long, 150 mm, 12 mm	190	
500.7315	3/8" glow plug articulated socket, long, 150 mm,	190	
500.7316	3/8" glow plug articulated socket, long, 150 mm, 16 mm	190	

GLOW PLUG SCREWING AID

Spark plug screw in tool, double sided

- For universal applications spark plug and glow plugs
- For the clean and preparing of the fi st thread gears Especially in common rail glow plugs
- Double sided usageSolid rubber



	L mm	9	
500.7520	240.0	75	

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TORQUE TOOLS

ERGOTORQUE®precision torque wrench with rotary mushroom ratchet head

- Actuation accuracy: ±3 % tolerance of the set scale value
- Precise reading accuracy for a minimum 5.000 tightening cycles
- · For controlled fastening in clockwise and counter clockwise directions
- · Torque setting by pulling out and pushing in the slide in knob at the end of the handle
- •The direction of rotation (clockwise and counter clockwise)
- can be changed by simply rotating the square drive piece

 Double scale in N-m and lbf-ft divisions for precise adjustment
- Includes micrometer scale in N·m divisions for precise and fine a justment
- · Large vision panel, precise adjustment using a magnifying glass
- · An audible and palpable signal when the desired torque value is achieved
- · Exact gearing 72 teeth ratchet mechanism
- Torque setting is quick and easy using the locking knob in the handle end
- · Secure locking function within the handle
- . Two component handle with a soft zone, is ergonomic in design and comfortable in the hand
- · Square drive adaptor to DIN 3120 ISO 1174 with ball lock
- · Individually marked with serial number unique product identifi ation
- ·Includes test certifi ate in accordance with DIN EN ISO 6789:2003 national standard







		N-m	Drussen Next	birit	mm.	D mm	H	8
516.1422	3/8"	5-50	0.25	4 - 37	350.0	45.0	23.0	0.61

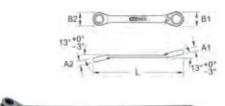
RATCHET RING SPANNER

Glow plug double ring ratcheting spanner, offset

- · FlankTraction profil
- 45° angled
- Very narrow design
- Long design
- · For installing and removing the glow plugs
- Ideal for use in diffi_ult to access areas
- •8 mm for actuation of the power rails screw
- . With stop for guiding the 8 mm nut
- •12 mm for actuation of the glow plugs
- Matt finis
- · Chrome vanadium

Application range: Audi, BMW, Mercedes, Peugeot, Renault, Seat, Škoda, Volkswagen, etc.





31	Ö	A1 mm	A2 mm	B1 mm	B2 mm	L.	å	
503.0812	8x12	11.0	11.0	26.0	21.0	300.0	260	

Glow plug T-handle ring ratchet wrench

- · 6 point
- T-handle
- · For extremely heavily deposited glow plugs
- · Right or left handed usage through the turning of the head
- Special steel

Application range: dim. 8 for electric cable nut in diesel motors (Volkswagen, Audi, Seat etc.) dim. 10 + 12 for glow plugs and hand brake adjustment





		L mm	å	
500.7340	8,0	295.0	175	
500.7341	10,0	295.0	180	
500.7342	12,0	300.0	195	
500.7343	14,0	300.0	200	

ELECTRODE HEAD EXTRACTION TOOL

Glow plug electrode head extraction tool

- · Special profil
- · For removing the electrode head or protruding central electrode
- For electrode diameters 2.5 3.5 4.0 mm
- Safe clamping due to rollers
- Internal square drive to DIN 3120/ISO 1174 with ball stop
- With external drive hexagonal socket 12.0 mm
- Special steel



	mm	Outer 27 non	L	å
500.1401	2,5	13.4	50.0	41
500.1402	3,5	13.4	50.0	41
500 1403	4.0	13.4	50.0	53



GLOW PLUG EXTRACTOR TOOLS

Glow plug extractor for CDI engines

- · For turning off and pulling out the glow plugs from the glow
- plug canal in the cylinder head Removal of the cylinder head is not necessary for disassem-
- · Can be used on glow plugs jammed by corrosion and/or soot coal
- · Optimum power transmission with rotary and train movements
- · Fits all glow plugs with hexagonal connector 10.0 mm
- · Correct easy and damage free removal of the glow plug
- Chrome vanadium

Application range: Mercedes CDI engines OM 611, 612, 613







		L	å	
152.1080	3/8"	190.0	315	

Glow plug impact extraction set for CDI engines

- · Ideal for unscrewed, but firm y seated glow plugs
- Can be used universally for M10 glow plugs
 Reaches into the electrical connection of the glow plugs with the support sleeve or impact hammer the glow plug is removed
- ·On engines for which the support sleeve cannot be used, the impact hammer is used
- · Easy to fi
- ·Safe to use
- No sharp edges
- · Saves a lot of time
- Special steel

Application range: Mercedes CDI engines OM 611, 612, 613





			å	
700.1330	4 pcs	Glow plug impact extraction set for CDI engines	2.00	

		R R	
700.1331	Special impact hammer	1.50	
700.1332	Glow plug puller set, 3 pcs.	0.50	

- · Ideal for unscrewed, but firm y seated glow plugs
- Can be used universally for M10 glow plugs
 Reaches into the electrical connection of the glow plugs with the support sleeve or impact hammer the glow plug is removed
- · Easy to fi
- · Safe to use
- No sharp edges
- · Saves a lot of time ·Special steel

Application range: Mercedes CDI engines OM 611, 612, 613, 646 (excluding 646 EVO), 647, 648, etc.





	Ø mm	L mm	å	
152.1096	10,0	133.0	280	

Glow plug service set

- · For removing the glow plugs from the glow plug channel in the cylinder head
- · Reamer for cleaning the glow plug channel in the cylinder head
- · Removes deposits and carbonisation between glow plug and cylinder head
- · Can be used for glow plugs jammed by corrosion and/or soot
- · In durable plastic storage case

Application range: Reamer M10 x 1.00: Mercedes 4, 5 and 6 cylinder CDI engines, Smart CDI (660) reamer M12 x 1.25: Mercedes 4 valve technology engines (OM604/605/606) glow plug puller: Glow plugs 10.0 mm e.g. Mercedes CDI (OM 611/612/613)





			å	
152.1095	3 pcs	Glow plug service set	596	

		å	- 35
152.1096	Glow plug extractor for dim. 10 mm	280	- 93
152.1097	Glow plug reamer M10 x 1,00:	50	
152.1098	Glow plug reamer M12 x 1.25:	80	- 8

Glow plug vibration extractor set

- · Ideal for loosening and extracting jammed glow plugs
- Especially suitable in glow plugs jammed by corrosion and/ or soot coal
- Produces controlled vibration impulse
- · Suitable for all current glow plugs
- . Loosening torque in 4 stages in accordance with manufacturer guidelines
- · Extensive cost intensive repairs can be avoided through dismantling glow plugs
 • Includes 1/4" coupling connector
- In durable steel storage case







Technical data:

Square drive:	1/4
Max. tightening torque:	40 Nm
Max. loosening torque:	1 = 10 Nm
	2 = 20 Nm
	3 = 30 Nm
	4 = 40 Nm
No load current:	7500 r.p.m.
Vibration:	< 2,69 ms ²
Noise performance level:	104 dbA
Noise pressure level:	88 dbA
Recomended torque:	42 Nm
Air consumption:	128 l/min
Operating pressure:	max. 6,3 (90 psi)
Max. screw size:	M16
Min. tube diameter:	3/8" - 10 mm
Connection thread:	1/4"PT

			8	
152.1060	5 pcs	Glow plug vibration extractor set	1.80	

consists of:

		8
52.1061	1/4" Vibration extractor 10-40 N+m	900
152.1062	1/4" Impact wrench socket long 8 mm	30
152.1063	1/4" Impact wrench socket long 10 mm	40
152.1064	1/4" Impact wrench socket long 12 mm	50
152.1065	1/4" Universal joint	40



REAMER FOR CLEANING

3 in 1 glow plug reamer M8 x 1.0

- ·Special reamer geometry cleans the glow plug shaft, sealing seat and glow rod channel in a single step
- · For professional cleaning of glow plug channels in the cylinder head of sizes M8 x 1.0
- Removes deposits between the glow plugs and cylinder head
- Damage due to deep penetration and slipping of the reamer is prevented by fi able stoppers
- Includes a centring sleeve with thread of the corresponding glow plug
- · Prior to fi ting new glow plugs it is recommended to clean the glow plug shafts
- Universal usage
- External hexagon drive 10.0 mm with milled manual drive head
- · Multi-level reamer made out of one piece

Application range: For all vehicles with glow plugs of sizes



	8	min	Length mm.	8	
152.1121	M8x1,0	10	195.0	230	

3 in 1 glow plug reamer M9 x 1.0

- · Special reamer geometry cleans the glow plug shaft, sealing seat and glow rod channel in a single step
- · For professional cleaning of glow plug channels in the cylinder head of sizes M9 x 1.0
- Removes deposits between the glow plugs and cylinder head Damage due to deep penetration and slipping of the reamer is
- prevented by fi able stoppers · Includes a centring sleeve with thread of the corresponding
- glow plug
- · Prior to fi ting new glow plugs it is recommended to clean the glow plug shafts Universal usage
- External hexagon drive 17.0 mm with milled manual drive
- · Multi-level reamer made out of one piece

Application range: For all vehicles with glow plugs of sizes



	8		Length mm.	å	
152.1122	M9x1,0	17	200.0	230	

3 in 1 glow plug reamer M10 x 1.0

- · Special reamer geometry cleans the glow plug shaft, sealing seat and glow rod channel in a single step
- · For professional cleaning of glow plug channels in the cylinder head of sizes M10 x 1.0
- ·Removes deposits between the glow plugs and cylinder head Damage due to deep penetration and slipping of the reamer is prevented by fi able stoppers
- Includes a centring sleeve with thread of the corresponding glow plug
- · Prior to fi ting new glow plugs it is recommended to clean the glow plug shafts
- Universal usage
- External hexagon drive 17.0 mm with milled manual drive
- · Multi-level reamer made out of one piece

Application range: For all vehicles with glow plugs of sizes M10 x 10



	8		Length mm	8	
152.1123	M10x1,0	17	200.0	230	

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3 in 1 glow plug reamer M10 x 1.25

- · Special reamer geometry cleans the glow plug shaft, sealing seat and glow rod channel in a single step
- · For professional cleaning of glow plug channels in the cylinder head of sizes M10 x 1.25
- · Removes deposits between the glow plugs and cylinder head
- Damage due to deep penetration and slipping of the reamer is prevented by fi able stoppers
- · Includes a centring sleeve with thread of the corresponding glow plug
- Prior to fi ting new glow plugs it is recommended to clean the glow plug shafts
- Universal usage
- External hexagon drive 17.0 mm with milled manual drive
- · Multi-level reamer made out of one piece

Application range: For all vehicles with glow plugs of sizes M10 x 1.25





. 10	8	min	Length IIII	å	
152.1124	M10x1,25	17	200.0	230	

3 in 1 glow plug reamer M12 x 1.25

- ·Special reamer geometry cleans the glow plug shaft, sealing seat and glow rod channel in a single step
- · For professional cleaning of glow plug channels in the cylinder head of sizes M12 x 1.25
- · Removes deposits between the glow plugs and cylinder head Damage due to deep penetration and slipping of the reamer is
- prevented by fi able stoppers · Includes a centring sleeve with thread of the corresponding
- glow plug . Prior to fi ting new glow plugs it is recommended to clean the
- glow plug shafts
- Universal usage
- External hexagon drive 17.0 mm with milled manual drive head
- · Multi-level reamer made out of one piece

Application range: For all vehicles with glow plugs of sizes





	Ē		Length	8	
152.1125	M12x1,25	17	180.0	230	



MASTER 3 in 1 glow plug reamer set

- · Special reamer geometry cleans the glow plug shaft, sealing
- seat and glow rod channel in a single step •For professional cleaning of glow plug channels in the cylinder head of sizes M8 x 1.0, M10 x 1.0, M10 x 1.25 and M12 x 1.25
- Removes deposits between the glow plugs and cylinder head . Damage due to deep penetration and slipping of the reamer is
- prevented by fi able stoppers · Includes a centring sleeve with thread of the corresponding
- glow plug

 Prior to fi ting new glow plugs it is recommended to clean the glow plug shafts
- Universal usage
- · For most vehicle types
- •External hexagon drive 10.0 or 17.0 mm with milled manual
- · Multi-level reamer made out of one piece



consists of:

		8
152.1120-01	17 mm adapter M12 x 1.25	50
152.1120-02	17 mm adapter M10 x 1.25	50
152.1120-03	17 mm adapter M10 x 1.0	50
152.1120-04	17 mm adapter M8 x 1.0	18
152.1120-05	Reamer M12	110
52.1120-06	Reamer M10	106
152.1120-07	Reamer M8	103
152.1120-08	Stopper for reamers	20
52.1120-09	Drive head	55

GLOW PLUG DRILL OUT TOOLS

Universal glow plug drill out kit M8 x 1,0

- · Universal repair system with innovative principle for dismantled glow plugs
- · Simple and user friendly repair method
- · Fast and economical solution of the dismantling problems of glow plugs
- · Using a special left-cutting 3-blade stepped drill avoids the need to use drilling sleeves compared to other systems
- Optionally upgradeable with standard impact hammers (M10
- · In durable metal case

Application range: Volkswagen, Audi, Seat, Škoda, Mitsub-ishi, Mercedes, Fiat, Peugeot, Volvo, Ford, Mazda, Citroën,

Application:

- . Shear off centre electrode
- 2. Drill out with left-cutting stepped drill
- 3. Cut left thread M6
- 4. Clean thread gears M8 x 1
- 5. Clear the remains of the glow plug with impact weight





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152.1020	8 pcs	Universal glow plug drill out kit M8 x 1.0	800	

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152.1021	TIN Thread tap, M8 x 1	20	
152.1022	Puller left, M6 x 1 x 120 mm	30	
152.1023	Thread tap left, M6 x 1, TIN	20	
152.1024	Stepped drill left, M5 x 7 x 150 mm	90	
152.1026	Extractor for glow plug electrode 3.20 mm	20	
152.1032	Extractor for glow plug electrode 4.50 mm	20	
152.1027	Extractor for glow plug electrode 6.50 mm	30	
152.1037	Removal adapter	62	



Universal glow plug drill out kit M9 x 1.0

- · Universal repair system with innovative principle for disman-
- tled glow plugs
- Simple and user friendly repair method
- · Fast and economical solution of the dismantling problems of glow plugs
- · Using a special left-cutting 3-blade stepped drill avoids the need to use drilling sleeves compared to other systems
- Optionally upgradeable with standard impact hammers (M10 x 1.5)
- In durable metal case

Application:

- Shear off centre electrode
- 2. Drill out with left-cutting stepped drill
- 3. Cut left thread M7
- 4. Clean thread gears M9 x 1.0
- 5. Clear the remains of the glow plug with impact weight





	-		å	
152.1620	8 pcs	Universal glow plug drill out kit M9 x 1.0	900	- 3

		8	
152.1022	Puller left, M6 x 1 x 120 mm	30	
152.1023	Thread tap left, M6 x 1, TIN	20	
152.1624	Stepped drill left, M7	240	
152.1625	Thread drill M9 x 1.0	20	
152.1621	Extractor for glow plug electrode 2.60 mm	30	
152.1032	Extractor for glow plug electrode 4.50 mm	20	
152.1033	Extractor for glow plug electrode 8.25 mm	30	
152.1037	Removal adapter	62	

Universal glow plug drill out kit M10 x 1.0

- · Universal repair system with innovative principle for dismantled glow plugs
- · Simple and user friendly repair method
- · Fast and economical solution of the dismantling problems of glow plugs
- · Using a special left-cutting 3-blade stepped drill avoids the need to use drilling sleeves compared to other systems
- Customer-oriented solution
- · Cylinder head does not need to be removed
- Optionally upgradeable with standard impact hammers (M10 x = 1.5
- · In durable metal case

Application range: Volkswagen, Audi, Seat, Škoda, Mitsubishi, Mercedes, Fiat, Peugeot, Volvo, Ford, Mazda, Citroen, Opel

Application:

- 1. Shear off centre electrode
- Drill out with left-cutting stepped drill
 Cut left thread M7
- 4. Clean thread gears M10 x 1
- 5. Clear the remains of the glow plug with impact weight





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152.1030	8 pcs	Universal glow plug drill out kit M10 x 1.0	900	b

consists of:

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152.1034	Thread tap left, M7, TIN	30
152.1035	Puller left, M7 x 120 mm	40
152.1038	Thread tap M10 x 1	30
152.1036	Stepped drill left, 9 x 180 mm	114
152.1031	Extractor for glow plug electrode 3.50 mm	14
152.1032	Extractor for glow plug electrode 4.50 mm	20
152.1033	Extractor for glow plug electrode 8.25 mm	30
152.1037	Removal adapter	62

Universal glow plug drill out kit M10 x 1.25

- . Universal repair system with innovative principle for dismantled glow plugs
- · Simple and user friendly repair method
- · Fast and economical solution of the dismantling problems of
- · Using a special left-cutting 3-blade stepped drill avoids the need to use drilling sleeves compared to other systems
- Optionally upgradeable with standard impact hammers (M10
- · In durable metal case

Application:

- 1. Shear off centre electrode
- 2. Drill out with left-cutting stepped drill
- 3. Cut left thread M7
- 4. Clean thread gears M10 x 1.25
- 5. Clear the remains of the glow plug with impact weight





Г		_		å	
152	2.1610	8 pcs	Universal glow plug drill out kit M10 x 1.25	900	

		8
152.1615	Thread tap M10 x 1.25	30
52.1035	Puller left, M7 x 120 mm	40
52.1034	Thread tap left, M7, TIN	30
152.1036	Stepped drill left, 9 x 180 mm	114
52.1031	Extractor for glow plug electrode 3.50 mm	14
52.1032	Extractor for glow plug electrode 4.50 mm	20
52.1033	Extractor for glow plug electrode 8.25 mm	30
52.1037	Removal adapter	62

Universal glow plug drill out kit M12 x 1.25

- · Universal repair system with innovative principle for dismantled glow plugs
- · Simple and user friendly repair method
- · Fast and economical solution of the dismantling problems of glow plugs

 - Using a special left-cutting 3-blade stepped drill avoids the
- need to use drilling sleeves compared to other systems

 Optionally upgradeable with standard impact hammers (M10
- x 1.5)
- In durable metal case

Application:

- 1. Shear off centre electrode
- 2. Drill out with left-cutting stepped drill
- 3. Cut left thread M7
- 4. Clean thread gears M12 x 1.25
- 5. Clear the remains of the glow plug with impact weight





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152.1630	8 pcs	Universal glow plug drill out kit M12 x 1.25	900	

consists of:

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152.1634	Stepped drill left, 10.8 x 180 mm	250	
152.1635	Thread tap M12 x 1.25	47	
152.1636	Glow plug thread tap left, M8	40	
152.1637	Puller left, M8	50	
152.1031	Extractor for glow plug electrode 3.50 mm	14	
152.1032	Extractor for glow plug electrode 4.50 mm	20	
152.1033	Extractor for glow plug electrode 8.25 mm	30	
152.1037	Removal adapter	62	

Impact weight and guide rod

- ·With arched contact surface on the handle hook for exact
- Includes impact weight
- ·Special steel



	Impact weight lag	8	mm.	kg
152.1040	1.25	M10x1,5	280.0	1.45

GLOW PLUG THREAD CUTTING TOOL

Glow plug thread cutting tool M8 x 1.0

- · For cleaning and re-cutting M8 x 1.0 glow plug threads
- Simple handling due to eccentric function
 Special length for deep seated thread
- · Quick and low-cost thread repair
- Centring shaft
- · With conical mounting shaft for thread repair sleeves
- · With external hexagon drive
- ·With knurled knob





	8		Length mm	å	
150.6501	M8 x 1,0	13.0	115.0	80	

Glow plug thread cutting tool M10 x 1.0

- For cleaning and re-cutting M10 x 1.0 glow plug threads
- Simple handling due to eccentric function
- Special length for deep seated thread
- Quick and low-cost thread repair
- · Centring shaft
- · With conical mounting shaft for thread repair sleeves
- · With external hexagon drive
- · With knurled knob





	8		Longih min.		
150.6502	M10 x 1,0	13.0	115.0	100	

Glow plug thread cutting tool M12 x 1.25

- For cleaning and re-cutting M12 x 1.25 glow plug threads
- Simple handling due to eccentric function
 Special length for deep seated thread
- · Quick and low-cost thread repair
- · Centring shaft
- With conical mounting shaft for thread repair sleeves
 With external hexagon drive
- ·With knurled knob





	8		Longih mm	8	
150.6503	M12 x 1,25	13.0	140.0	120	- 8
150.6504	M12 x 1,25	13.0	270.0	280	- 18

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Glow plug thread cutting tool M14 x 1.25

- •For cleaning and re-cutting M14 x 1.25 glow plug threads
- Simple handling due to eccentric function
 Special length for deep seated thread
- · Quick and low-cost thread repair
- · Centring shaft
- With conical mounting shaft for thread repair sleeves
- · With external hexagon drive
- · With knurled knob





	Ē		Longth	å	
150.6505	M14 x 1,25	13.0	140.0	120	

Glow plug and spark plug thread cutting tool set

- For cleaning and re-cutting M12 x 1.25 spark plug or glow plug threads
- Simple handling due to eccentric function
- Special length for deep seated thread Quick and low-cost thread repair
- Centring shaft
- · With conical mounting shaft for thread repair sleeves
- · With external hexagon drive
- · With knurled knob
- In durable plastic storage case

Application range: BMW, Mini, Citroën, Peugeot, Renault, Mercedes, Volkswagen, etc.







			8	
150.6500	7 pcs	Glow plug and spark plug thread cutting tool set	1.40	

		9	
150.6501	Thread cutting tool, M8 x 1.0, 115 mm	80	
150.6502	Thread cutting tool, M10 x 1.0, 115 mm	100	
150.6503	Thread cutting tool, M12 x 1.25, 140 mm	120	
150.6504	Thread cutting tool, M12 x 1.25, 270 mm	280	.8
150.6505	Thread cutting tool, M14 x 1.25, 140 mm	120	
150.6506	Thread cutting tool, M14 x 1.25, 270 mm	280	
150.6507	Thread cutting tool, M18 x 1.5, 90 mm	100	

GLOW PLUG THREAD REPAIR

THREADfix epair set M8 x 1.0 for glow plugs

- Unique assortment for the repair of worn or damaged threads
- Ideal for glow plugsSimple handling and correct repair
- Provides an entirely firm and astight seat of the inserts
- Extremely thin walled inserts with rustproofi g protection
- Includes thread tap and assembly tool
- · Fast repair option without costly warehousing of components
- In durable plastic storage case

M8 x 1.0 x 110 mm



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150.5020	9 pcs	THREADfix epair set M8 x 1.0 for glow plugs	300	

		9	
150.5021	Threaded drill with guide pin M 8x 1,0	18	
150.5022	Threaded drill with guide pin M10 x 1,0	21	
150.5023	Reamer with guide pin	19	
150.5024	Screw for Bushes L= 90 mm, M8 x 1,0, GL= 106 mm	124	
150.5026	Threaded bush with collar L=11 mm, IG= M8x1,0 / AG=M10x1,0 (5 per Pack)	20	

THREADfix epair set M9 x 1.0 for glow plugs

- · Unique assortment for the repair of worn or damaged threads
- · Ideal for glow plugs
- Simple handling and correct repair Provides an entirely firm and astight seat of the inserts
- Extremely thin walled inserts with rustproofi g protection Includes thread tap and assembly tool
- · Fast repair option without costly warehousing of components
- · In durable plastic storage case

M9 x 1.0 x 115 mm



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150.5030	9 pcs	THREADfix epair set M9 x 1.0 for glow plugs	380	

		8	
150.5031	Threaded drill with guide pin M9 x 1,0	19	
150.5032	Threaded drill with guide pin M11 x 1,0	24	
150.5033	Reamer with guide pin	24	
150.5034	Screw for Bushes L=93 mm, M9 x 1,0; GL= 109 mm	180	
150.5036	Threaded bush with collar L=11 mm, IG= M9x1,0 / AG=M11x1,0 (5 per Pack)	20	

THREADfix epair set M10 x 1.0 for glow plugs

- Unique assortment for the repair of worn or damaged threads
- Ideal for glow plugsSimple handling and correct repair
- Provides an entirely firm and astight seat of the inserts
 Extremely thin walled inserts with rustproofi g protection
- Includes thread tap and assembly tool
- Fast repair option without costly warehousing of components
- In durable plastic storage case

M10 x 1.0 x 120 mm M10 x 1.0 x 128 mm



			å	
150.5040	15 pcs	THREADfix epair set M10 x 1.0 for glow plugs	810	

		9	
150.5041	Threaded drill with guide pin M10 x 1,0	26	
150.5042	Threaded drill with guide pin M12 x 1.0	30	
150.5043	Reamer with guide pin	29	
150.5044	Screw for Bushes (S) L= 85 mm, M10 x 1.0, GL= 103 mm	175	
150.5047	Screw for Bushes L= 91 mm, M10 x 1.0, GL= 109 mm	180	5
150.5048	Threaded bush with collar L=12 mm, IG= M10x1,0 / AG=M12x1,0 (5 per Pack)	20	
150.5049	Threaded bush with collar L=19 mm, IG= M10x1,0 / AG=M12x1,0 (5 per Pack)	20	

THREADfix epair set M10 x 1.25 for glow plugs

- · Unique assortment for the repair of worn or damaged threads
- · Ideal for glow plugs
- •Simple handling and correct repair
 •Provides an entirely firm and astight seat of the inserts
- Extremely thin walled inserts with rustproofi g protection Includes thread tap and assembly tool
- Fast repair option without costly warehousing of components
- In durable plastic storage case

M10 x 1.25 x 125 mm



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150.5050	9 pcs	THREADfix epair set M10 x 1.25 for glow plugs	630	

consists	or:		
		g	000 17 074 15
150.5051	Threaded drill with guide pin M10 x 1.25	24	
150.5052	Threaded drill with guide pin M12 x 1.25	25	
150.5053	Reamer with guide pin	25	
150.5054	Screw for Bushes L= 84 mm, M10 x 1.25, GL= 107 mm	183	×
150.5056	Threaded bush with collar L=12 mm, IG= M10x1,25 / AG=M12x1,0 (5 per Pack)	20	

THREADfix epair set M12 x 1.25 for glow and spark plugs

- · Unique assortment for the repair of worn or damaged threads
- Ideal for spark plugs and glow plugs
 Simple handling and correct repair

- Provides an entirely firm and astight seat of the inserts
 Extremely thin walled inserts with rustproofi g protection
- · Includes thread tap and assembly tool
- · Fast repair option without costly warehousing of components
- In durable plastic storage case

M12 x 1.25 x 120 mm M12 x 1.25 x 130 mm M12 x 1.25 x 150 mm



			å	100
150.5060	21 pcs	THREADfix epair set M12 x 1.25 for glow and spark plugs	920	

consists of:

		å
150.5061	Threaded drill with guide pin M12 x 1.25	47
150.5062	Threaded drill with guide pin M14 x 1.25	53
150.5063	Reamer for guide pin	52
150.5064	Screw for Bushes (S) L= 89 mm, M12 x 1.5, GL= 108 mm	230
150.5068	Screw for Bushes (M) L= 95 mm, M12 x 1.25, GL= 114 mm	238
150.5069	Screw for Bushes (L) L= 103 mm, M12 x 1.25, GL= 122 mm	246
150.5077	Threaded bush with collar L=12 mm, IG= M12x1,25 / AG=M14x1,25 (5 per Pack)	20
150.5078	Threaded bush with collar L=19 mm, IG= M12x1,25 / AG=M14x1,25 (5 per Pack)	20
150.5079	Threaded bush with collar L=26 mm, IG= M12x1,25 / AG=M14x1,25 (5 per Pack)	20

Stainless steel repair set M8 x 1,00 for glow plugs

- · Unique assortment for the repair of worn or damaged threads
- · Ideal for glow plugs
- Simple handling and correct repair
- · Provides an entirely firm and astight seat of the inserts
- · Extremely thin walled inserts made from stainless steel · Includes thread tap and assembly tool
- · Fast repair option without costly warehousing of components
- · In durable steel storage case



		å	
150.6030 24 pcs	Stainless steel repair set M8 x 1,00 for glow plugs	268	- 19

consists of:

		8	
150.6031	Thread insert set M8 x 1,0, VPE 10 pcs, L=11 mm	120	
150.6032	Twist drill for M8, Ø 8.3 mm	34	- 8
150.6033	Threaded tap M8 x 1,0	36	
150.6034	Mounting tool for M8	48	3
150.6025	Cone mill M6 - M8	16	

Stainless steel repair set M10 x 1.0 for glow plugs

- · Unique assortment for the repair of worn or damaged threads
- Ideal for glow plugs
 Simple handling and correct repair
- Provides an entirely firm and astight seat of the inserts
 Extremely thin walled inserts made from stainless steel
- Includes thread tap and assembly tool
- · Fast repair option without costly warehousing of components
- In durable steel storage case

· Unique assortment for the repair of worn or damaged threads

- Ideal for glow plugs and spark plugs
 Simple handling and correct repair

Stainless steel repair set M12 x 1.25 for glow plugs

- Provides an entirely firm and astight seat of the inserts
 Extremely thin walled inserts made from stainless steel
- Includes thread tap and assembly tool
- · Fast repair option without costly warehousing of components
- In durable steel storage case



		9	å	
150.6060	19 pcs	Stainless steel repair set M10 x 1.0 for glow plugs	318	

consists of:

		å
150.6061	Thread insert set, 150.6060,5pcs,M10x1.0	47
150.6062	Twist drill, M10,Ø 10.3mm	58
150.6063	Threaded tap f.150.6060, M10x1.0	33
150.6064	Mounting tool 1.150.6060, M10	62
150.6065	Insertion pin breaker f.150.6060, M10	26

Stainless steel repair set M10 x 1.25 for glow plugs

- · Unique assortment for the repair of worn or damaged threads
- Ideal for glow plugs
- Simple handling and correct repair
 Provides an entirely firm and astight seat of the inserts
- Extremely thin walled inserts made from stainless steel
 Includes thread tap and assembly tool
- Fast repair option without costly warehousing of components
 In durable steel storage case



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150.6110	14 pcs	Stainless steel repair set M12 x 1.25 for glow plugs	453	

150.6111	Thread insert set f.150.6110, 5pcs	85	
150.6102	Twist drill, M12, Ø 12.3mm	84	
150.6113	Threaded tap f.150.6110, M12x1.25	67	
150.6104	Mounting tool 1.150.6100, M12	104	
150.6105	Insertion pin breaker f.150.6100, M12	46	

Stainless steel repair set M5 - M12 for glow plugs

- Unique assortment for the repair of worn or damaged threads
 Ideal for glow plugs and spark plugs
- · Simple handling and correct repair
- · Provides an entirely firm and astight seat of the inserts
- Extremely thin walled inserts made from stainless steel
- Includes thread tap and assembly tool
- · Fast repair option without costly warehousing of components
- In durable steel storage case



			8	
150.6070	19 pcs	Stainless steel repair set M10 x 1.25 for glow plugs	328	

		8	
150.6071	Thread insert set M10 x 1.25, VPE 5 pcs., L=13,8 mm	62	
150.6062	Twist drill for M10, Ø 10,3 mm	58	
150.6073	Threaded tap M10 x 1.25	33	
150.6064	Mounting tool for M10	62	
150.6065	Cone mill M10	26	



			8
150.6150	130 pcs	Stainless steel repair set M5 - M12 for glow plugs	2.05

		å	
150.6001	Thread insert set f.150.6000, 10pcs	14	
150.6002	Twist drill, M5, Ø 5.2mm	9	
150.6003	Threaded tap f.150.6000, M5x0,8	12	
150.6004	Mounting tool f.150.6000, M5	20	

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consists	or:		
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150.6005	Insertion pin breaker f.150.6000, M5	9	
150.6011	Thread insert set f.150.6010, 10pcs	17	
150.6012	Twist drill, M6,Ø 6.3mm	17	
150.6013	Threaded tap f.150.6010, M6x1.0	21	
150.6014	Mounting tool 1.150.6010, M6	24	
150.6015	Insertion pin breaker f.150.6010, M6	10	
150.6025	Insertion pin breaker f.150.6020, M7	16	
150.6032	Twist drill, M8,Ø 8.3mm	34	
150.6034	Mounting tool 1.150.6030, M8	48	
150.6041	Thread insert set f.150.6040, 10pcs	26	
150.6043	Threaded tap f.150.6040, M8x1.25	36	
150.6064	Mounting tool 1.150.6060, M10	62	
150.6065	Insertion pin breaker f.150.6060, M10	26	
150.6081	Thread insert set f.150.6080, 5pcs	24	- 8
150.6082	Twist drill, M10, Ø 10.4mm	61	
150.6083	Threaded tap f.150.6080, M10x1.5	41	
150.6104	Mounting tool 1.150.6100, M12	104	
150.6105	Insertion pin breaker f.150.6100, M12	46	
150.6122	Twist drill, M12, Ø 12.4mm	88	
150.6123	Threaded tap f.150.6120, M12x1.5	67	
150.6131	Thread insert set f.150.6130, 5pcs	33	

Stainless steel thread repair set M6 - M10

- Assortment of for repairing thread damaged or worn threads indispensably use for Materials with sight stability e.g. aluminum alloy or magnesium alloy
 - Ideally for the mechanical engineering, vehicle technology,
- electro and medical technology
- Resistant to corrosion effects and temperature resistant thread uses
- · Includes threaded tap and assembly tool
- · Fast repair possibility without costly replacement of bearing housings and components • Special stainless steel
- In durable steel storage case



			8	
150.6155	87 pcs	Stainless steel thread repair set M6 - M10	1.53	,

		8	
150.6011	Thread insert set f.150.6010, 10pcs	17	
150.6012	Twist drill, M6,Ø 6.3mm	17	
150.6013	Threaded tap f.150.6010, M6x1.0	21	
150.6014	Mounting tool 1.150.6010, M6	24	- 33
150.6015	Insertion pin breaker f.150.6010, M6	10	
150.6025	Insertion pin breaker f.150.6020, M7	16	
150.6032	Twist drill, M8,Ø 8.3mm	34	
150.6034	Mounting tool 1.150.6030, M8	48	
150.6041	Thread insert set f.150.6040, 10pcs	26	
150.6043	Threaded tap f.150.6040, M8x1.25	36	- 1
150.6064	Mounting tool 1.150.6060, M10	62	
150.6065	Insertion pin breaker f.150.6060, M10	26	
150.6081	Thread insert set f.150.6080, 5pcs	24	
150.6082	Twist drill, M10, Ø 10.4mm	61	
150.6083	Threaded tap f.150.6080, M10x1.5	41	

- · Assortment of for repairing thread damaged or worn threads indispensably use for Materials with sight stability e.g. aluminum alloy or magnesium alloy
- Ideally for the mechanical engineering, vehicle technology, electro and medical technology
- · Resistant to corrosion effects and temperature resistant thread uses
- · Includes threaded tap and assembly tool
- Fast repair possibility without costly replacement of bearing housings and components
- Special stainless steel
- · In durable steel storage case



			8	
150.6160	113 pcs	Stainless steel thread repair set M6 - M14	2.52	

		ŏ
150.6011	Thread insert set f.150.6010, 10pcs	17
150.6012	Twist drill, M6,Ø 6.3mm	17
150.6013	Threaded tap f.150.6010, M6x1.0	21
150.6014	Mounting tool 1.150.6010, M6	24
150.6015	Insertion pin breaker f.150.6010, M6	10
150.6025	Insertion pin breaker f.150.6020, M7	16
150.6032	Twist drill, M8,Ø 8.3mm	34
150.6034	Mounting tool 1.150.6030, M8	48
150.6041	Thread insert set f.150.6040, 10pcs	26
150.6043	Threaded tap f.150.6040, M8x1.25	36
150.6064	Mounting tool 1.150.6060, M10	62
150.6065	Insertion pin breaker f.150.6060, M10	26
150.6081	Thread insert set f.150.6080, 5pcs	24
150.6082	Twist drill, M10, Ø 10.4mm	61
150.6083	Threaded tap f.150.6080, M10x1.5	41
150.6104	Mounting tool 1.150.6100, M12	104
150.6105	Insertion pin breaker f.150.6100, M12	46
150.6122	Twist drill, M12, Ø 12.4mm	88
150.6131	Thread insert set f.150.6130, 5pcs	33
150.6133	Threaded tap f.150.6130, M12x1.75	68
150.6141	Thread insert set f.150.6140, 5pcs	16
150.6142	Thread insert set f.150.6140, 5pcs	12
150.6143	Thread insert set f.150.6140, 5pcs	7
150.6144	Threaded tap f.150.6140, M14x1,25	72
150.6145	Mounting tool 1.150.6140, M14x1,25	80

THREAD GAUGES

- · For controlling and increasing the interior thread and outside thread
- Imperial sizes
- · Cylindrical tapered
- Leaves fan shaped arrangement
 Leaves individually marked with size
- Out of hardened spring steel



	Tooth pitch	Measuring sange	B mm	L mm	å
301.0090	22	4-4,5-5-6-7-8-9-10-11-12- 13-14-16-18-20-22-24-32- 40-48-56-64mm	12.2	66.5	40

Thread gauge

- · For controlling and increasing the interior thread and outside thread
- Metric sizes
- Cylindrical tapered
- · Leaves fan shaped arrangement
- Leaves individually marked with size
 Out of hardened spring steel





	Footh pitch	Mosouring range	B	L mm	å	
301.0095	20	0,40-0,45-0,50-0,60-0,70- 0,75-0,80-1,00-1,25-1,50- 1,75-2,00-2,50-3,00-3,50- 4,00-4,50-5,00-5,50- 6,00mm	12.2	66.5	40	

TEST DEVICE

Glow plug tester

- · Quick identifi ation of defective glow plugs independent of the voltage
- · Testing is carried out when installed, no need to remove the
- glow plugs
 For 12.0 V glow plugs in diesel engines
- With integrated LED display for the state of the glow plugs
 Automatic switch off
- Voltage supply from 12.0 V starter battery on the vehicle
 1280.0 mm cable length with crocodile clips
- 300.0 mm cable length with test probe
- In a practical storage case

Application range: All vehicles with diesel engines with 12.0 V glow plugs





	Lamphy	With	Mospie 	8	
550.1401	135.0	80.0	35.0	340	

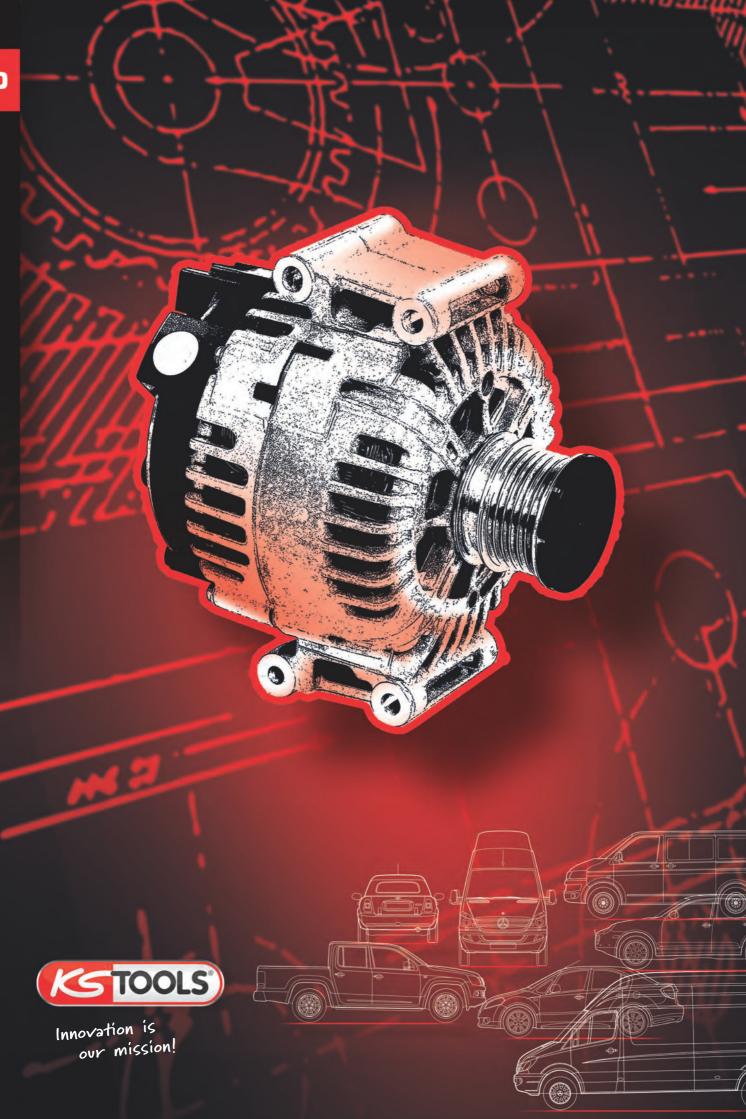




THE ACCUMULATED PULLER EXPERTISE

MADE IN GERMANY FROM SMALL TO LARGE OVER 1,000 PULLER VARIANTS UP TO 50 TO SOR PARTS WITH A DIAMETER OF 5-1000 MM





PAGE	
280 - 281	TENSION PULLEY WRENCH V/V RIBBED BELTS
281	ELASTIC BELT TOOL
281 - 282	COUNTER HOLD TOOL
283 - 284	VISCO FAN TOOL
284	SLOGGING SPANNER
284	ALTERNATOR WRENCH
284 - 286	FREE-RUNNING BELT DISC TOOL
286	BELT TENSION CHECKER
286 - 287	PULLING TOOL
287	STETHOSCOPE

TENSION PULLEY WRENCH V/V RIBBED BELTS

Bit socket for TX screws

- · Suitable for installing and removing the V belt
- For operating the tension pulley securing screws
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- ·With press fi ted nickel plated insert bit
- For manual operation Matt finis
- · Chrome vanadii

Application range: Japanese vehicles, etc.







		D mm	mm L	T	å	
911.1361	T20	22.0	55.0	17.0	70	
911.1362	T25	22.0	55.0	17.0	700	
911.1363	T27	22.0	55.0	17.0	710	
911.1364	T30	22.0	55.0	17.0	710	
911.1365	T40	22.0	55.0	17.0	730	
911.1366	T45	22.0	55.0	17.0	90	
911.1367	T50	22.0	55.0	17.0	90	
911.1368	T55	22.0	55.0	17.0	770	
911.1369	T60	22.0	55.0	17.0	90	

V-belt and tooth belt wrenches

- •12-point
- . For loosening the automatic clamping device · Problem free changing of the belt
- ·Saves the cooling unit service on VAG
- · For hard to reach places
- · With plastic-coated handle Chrome vanadium

Application range: Audi A4, Volkswagen Passat > 97 with TDI or pump injector engines Opel, DOHC 4- / 6 cylinder (e.g., Astra F with cooling), Saab V6 engines, Mitsubishi



	mm	L mm	8
150.1206	10	460.0	320
150.1207	11	460.0	320
150.1208	12	460.0	320
150.1201	13	460.0	320
150.1209	14	460.0	320
150.1202	15	460.0	320
150.1203	16	460.0	320
150.1204	17	460.0	320
150.1213	18	460.0	320
150.1205	19	460.0	320

- •12 point
- · For relaxing the automatic clamping device
- · Problem free changing of the belt
- · For VAG in the service position for the cooling system
- · For hard to reach places
- ·With plastic coated handle
- Chrome vanadium

Application range: Audi A4, Volkswagen Passat after 97 with TDI or Pump-Nozzle Engine Opel DOHC 4- / 6-Cylinder (e.g. Astra F with air conditioning), Saab V6-Engines, Mitsubishi



			86	
150.1200	5 pcs	Universal wedge and timing belt wrench set	2.18	

		å
150.1201	Wedge and timing belt wrench, dim. 13, length 460 mm	320
150.1202	Wedge and timing belt wrench, dim. 15, length 460 mm	320
150.1203	Wedge and timing belt wrench, dim. 16, length 460 mm	320
150.1204	Wedge and timing belt wrench, dim. 17, length 460 mm	320
150.1205	Wedge and timing belt wrench, dim. 19, length 460 mm	320



Universal V-belt and tooth belt wrenches

- •TX-E-Profil
- · For loosening the automatic clamping device
- · Problem free changing of the belt
- · For hard to reach places
- ·With plastic-coated handle
- · Chrome vanadium



		L	å	
150.1214	E8	460.0	320	
150.1216	E10	460.0	320	
150.1217	E12	460.0	320	- 5
150.1218	E14	460.0	320	8
150.1219	E16	460.0	320	į.
150.1221	E18	460.0	320	į.
150.1222	E20	460.0	320	
150.1223	E22	460.0	320	

VAG V belt and timing belt wrench

- · For loosening the automatic clamping device
- Problem free changing of the belt
 For hard to reach places
- · With plastic-coated handle
- · Chrome vanadium

Application range: Audi, Seat, Škoda and Volkswagen with 2.0 TDI and 1.4 TSI engines Volkswagen Beetle (2011-2013), Eos (2007-2013), Golf

(2003-2008), Golf (>2008), Golf Estate (2007-2009), Golf Estate (>2009), Gold Plus (2005-2009), Golf Plus (>2009), Golf VI Cabrio (>2011), Jetta (2005-2011), Jetta (>2011), Scirocco (>2008); Passat (2005-2011), Passat (>2011), Tiguan (2010-2013), Polo (>2009), Touran (2007-2013), Audi A1 (2010-2013), Škoda Octavia (>2004), Yeti (2010-2013), engine code: CAVD, CAXA, CAVB, CAVC





		Congrit mm	å	
400.4300	16	380.0	501	

Renault V belt wrench TX T45

- · Suitable for installing and removing the V belt
- · Required to tension the automatic tension pulley and to relax the V wedge
- · For hard-to-reach places
- ·With plastic-coated handle
- Chrome vanadium

Application range: Renault 2.2 L Diesel engines (G8T), e.g. Safrane, Laguna, Espace, etc.



150.1226 2 pcs Renault V belt wrench TX T45 460

consists of:

		å	
150.1227	Special wrench with 8.0 mm hexagonal drive, 450 mm	440	
150.1228	Bit with 8.0 mm hexagonal drive for TX screws T45	20	

VAG V belt wrench TX T60

- · Suitable for installing and removing the V belt
- · Required to tension the automatic tension pulley and to relax the V wedge
- · For hard-to-reach places
- ·With plastic-coated handle
- Chrome vanadium

Application range: Audi and Volkswagen 2.7 and 3.0 V6 TDI diesel engines, e.g. Audi A5, A6, A8, Q5, Q7, Volkswagen Phaeton and Touareg



			å	
150.1229	2 pcs	VAG V belt wrench TX T60	470	3

		å	
150.1227	Special wrench with 8.0 mm hexagonal drive, 450 mm	440	- 72
150.1233	Bit with 8.0 mm hexagonal drive for TX screws T60	20	(4)

BMW and Mercedes V belt wrench TX T60

- · Suitable for installing and removing the V belt
- · Required to tension the automatic tension pulley and to relax the V wedge
- For hard-to-reach places
- ·With plastic-coated handle
- Chrome vanadium

Application range: BMW 5 series (E60) 2.0 L petrol engine M54 and Mercedes C class (W203, W204) 1.8 L petrol engine





			ŏ
150.1234	2 pcs	BMW and Mercedes V belt wrench TX T60	460

		å	
150.1227	Special wrench with 8.0 mm hexagonal drive, 450 mm	440	
150.1236	Bit with 8.0 mm hexagonal drive for TX screws T60	20	

Mercedes V wedge assembly lever

- · Suitable for installing and removing the V belt
- Required to operate the automatic pulley
- · For hard-to-reach places
- ·Bronzed bolts
- Chrome vanadium

Application range: Mercedes Type 168, 169 (A class) and Type 245 (B class)



610,0

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Mercedes V belt tension wrench

- •Suitable for installing and removing the V belt
- . Required to pull back the automatic tension pulley and to relax the V wedge
- · For hard-to-reach places
- · Special steel

150.1238

Application range: Mercedes Transporter 208 D and 410 D range (engine code: OM601 and OM602), also for Mercedes passenger cars with hydraulic pump for the new regulations



70		å	
150.1239	Mercedes V belt tension wrench	60	

VAG V belt tension lever

- ·Suitable for installing and removing the V belt
- Required to release the automatic pulley
 Universal usage thanks to the attachable head piece
- · For hard-to-reach places
- · Chrome vanadium

Application range: Audi, Seat, Škoda, Volkswagen Polo, Golf, assat, T4, etc.





ELASTIC BELT TOOL

Elastic strap tool set

- Suitable for the assembly and disassembly of the elastic V ribbed discs
- Also suitable use with double ribbed discs
- Quick, problem-free and correct changing of the belt
 No damage to the pulley wheel and the belt
- · Minimal force required
- · Large working range thanks to various assembly and disassembly tools
- · In durable plastic storage case

Application range: Audi, BMW, Chrysler, Citroën, Fiat, Ford, Iveco, Peugeot, Lancia, Mazda, Mercedes, Seat, Škoda, Volvo, Volkswagen, etc.







			å	
150.3180	11 pes	Elastic strap tool set	2.24	

consists of:

		8
150.3181	Engine turning adaptor	441
150.3182	Adaptor f. water pump, Ford/Volvo	370
150.3183	Adaptor f. Crankshaft Pulley	75
150.3184	Belt attachmenttool type 1	225
150.3185	Belt attachmenttool type 2	100
150.3186	Spacer screw, 65mm	250
150.3187	Spacer screw, 40mm	15
150.3188	Spacer screw, 25mm	12
150.3189	Belt attachmenttool type3	23
150.3198	Belt stretcher	230
150.3199	Cover	210

COUNTER HOLD TOOL

Universal counter holder for V ribbed belt discs

- ·With strong belt that has an adjustable fl xible diameter
- For securing belt discs
- Ideal for water pumps, alternators, drive pulleys for pumps, fans, etc.
- · Can be used for discs with a diameter 50.00-200.00 mm



	L mm	Replacement bolt	å
150.3152	360.0	150.3153	506

Universal counter holder for V ribbed discs

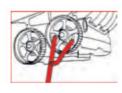
- ·With strong belt that has an adjustable fl xible diameter
- 5.0 mm groove spacing
- · For securing toothed-belt discs
- · Ideal for water pumps, alternators, drive pulleys for pumps, fans, etc.
- · Can be used for discs with a diameter 50.00-200.00 mm



	L mm	Paytaceneral bolt	8	
150.3150	360.0	150.3151	542	

Pulley wheel counter hold wrench

- · Suitable for counter holding the timing belt wheel on the cam shaft
- · Hole distance can be varied Adjustable, universal usage
- · With plastic-coated handle
- · Chrome vanadium





	Length	å	
400.9007	410.0	525	

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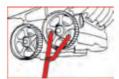
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Universal timing gear holder set

- · Ideally suited for almost all vehicle types
- Universal usable tool for locking, turning and fastening for stepped timing belts
- The overall length of 520 mm guarantees an optimal lever for loosening the timing belts reinforcement screws
- Stepless adjustment of Ø 40 220 mm pin height: 35 mm
- · Includes 4 pairs of screw on plugs
- ·With plastic coated handle
- Special steel

Application range: Timing belt wheels on camshafts and Injection pumps bleeding of wheels and couplings etc.







	_		8	
150.3000	11 pcs	Universal timing gear holder set	2.20	

consists of:

		8
150.3001	Loosening lever 520 mm, adjustable	1120
150.3002	Peg. Ø 6 - 10 mm	100
150.3003	Peg. Ø 8 - 11 mm	50
150.3004	Peg. Ø 10 - 12 mm	40
150.3005	Peg. Ø 11 - 16 mm	40
150.3006	Fixing nut for pegs, knurled	20

Universal locking tool / counter tool for crank shaft wheels

- · Ideally suited to almost all vehicle types
- For working areas with gear diameters 45 190 mm
 With quick adjustment for setting the working area
- · Universally used tool for locking, turning and securing locked
- pulley wheels

 Allows the crank shaft drive wheels to turn or for releasing the
- securing screws on the pulley wheel
 Ideal leverage thanks to 390 mm total length
- Very narrow tool for maximum access
- Very narrow tool for maxin
 Quick and easy usage
- Maximum holding force
- With plastic-coated handle
- ·Special steel







	Ø mm	L mm	8	
150.2990	45-190	390.0	500	



Mercedes belt disc counter hold tool

- · Damage-free and secure counter holding of the belt disc
- · Long lever
- ·With suspension hole
- · Chrome vanadium

Application range: Mercedes engines 602, 603, 604, 605, 606



	Length	å	
150.1252	350.0	440	

Mercedes belt disc counter hold tool set

- For counter holding the crank shaft belt drive when releasing
- or tightening the crank shaft central screw
- Required when changing the belt disc or repairing the engine
 Special steel

Application range: Mercedes engines, e.g. M112, M113 and OM 642, etc.



			8	
150.3310	7 pcs	Mercedes belt disc counter hold tool set	2.24	

consists of:

	X		8	
150.3311	1	Perforated disc	1219	
150.3312	3	Bolts, Ø 15 mm	126	
150.3313	3	Bolts, Ø 20 mm	215	

VAG counter hold wrench for water pump belt discs

- Ideal for locking and releasing during assembly and disassembly of water pump belt pulleys
- For easy releasing of secured screws
- Chrome vanadium

Application range: Audi, Volkswagen, etc.







	L. mm	8	
150.3026	250.0	490	

Holding wrench for water pump belt pulleys for low-down water pumps

- Ideal for locking and releasing during assembly and disassembly of water numb helt nulleys.
- sembly of water pump belt pulleys • Easy to remove fi ed screws
- · For low-down water pumps on engines with air condition
- · Chrome vanadium

Application range: Audi, Volkswagen (engines with air condition), etc.





	L mm	å	
150.3028	300.0	560	

VAG belt disc counter hold wrench

- Simple assembly and disassembly of the crank shaft belt disc and the crank shaft toothed-belt wheel
- · Versatile usage
- · Long lever
- · With plastic-coated handle
- Chrome vanadium

Application range: Audi A2, A4, A6, Seat, Škoda, Volkswagen Lupo, Polo, Golf 4, Bora, Passat, Beetle, Sharan, etc. engine code: AGP, AGR, AMF, AJM, ATJ, AEE, AEX, APE, AEH, AKL, APF, AWH, ALN, ANA, ARM, AUA, ADX, AEA, AFH, AFK, AHW, etc.



	Length	å	
150.1244	687.0	2.06	

Universal belt pulley rotary lever

- · Universal adjustable lever
- · For the spinning of the endine by means of the belt pulley
- ·With plastic coated handle
- Chrome vanadium

Application range: Audi/Volkswagen, BMW, Ford, Opel, Peugeot, Renault, Rover, Japanese Models etc.





	L mm	å	
150.3029	325.0	650	

VISCO FAN TOOL

Universal Visco ventilator wrench

- · For removing the hubs and bleeding with viscous couplings
- Especially slim design
- · Enables easy access
- PVC dipped handle
- Special steel

Application range: BMW, Ford, Opel, GM etc.







	•	Studiable for	å
150.3022	32	for clamping the viscous coupling drive shaft on BMW, Ford	300
150.3027	36	For counter holding the Visco coupling drive shaft BMW, Ford, GM	340
150.3023	41	for twisting the water pump on Opel and GM	422
150.3024	46	for twisting the water pump on Opel and GM	405

Ford fan hub wrench

- · For the professional engine repair
- Simple assembly and disassembly of the Visco coupling rotor
 Makes it possible to secure the pulley wheel of the water
- pump and at the same time release the heating fil er
- · Special steel
- · Very high degree of accuracy

Application range: Ford Transit (2001 - 2006)



	Per lang	å	
400.9014	69.0	133	

Visco ventilator wrench

- · Ideally suited to removing the hubs on ventilators with viscous coupling
- · Especially slim design · Allows for easy access
- ·With suspension hole
- · Special steel

Application range: Mercedes engines M103 (6 cylinder), M104 (6 cylinder 4 valve), M119 (8 cylinder 4 valve), M120 (12 cylinder 4 valve)



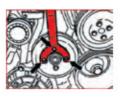


	mm	Length mm	g	
150.3301	65	400.0	472	

Visco ventilator wrench

- · Ideally suited to removing the hubs on ventilators with viscous coupling •Especially slim design
- · Allows for easy access
- · Specially curved
- · With suspension hole
- Special steel

Application range: Mercedes (engine: M 111.979, 112, 113,





410.0

370

Holding wrench for Visco ventilator

- · For counter holding the ventilation valve when disassembling the Visco ventilator
- Especially slim design
- · Allows for easy access
- · Special steel

150,3008

Application range: BMW engine M10, M20, M21, M30, M50, M51, M52, M52TU, M54, M56, M70, M73, S14 and S38

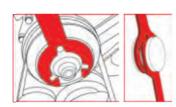




Land Rover fan hub wrench set

- · For counter holding the Visco coupling drive shaft
- · Makes it possible to secure the pulley wheel of the water pump and at the same time release the heating fil er
- · Also suitable for the removal of the viscous connecting socket on the cooler ventilator
- · Special steel

Application range: Land Rover Discovery II, Range Rover, fender 1990-2006 with Td5 or V8 engines





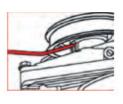
			kg	
400.4175	2 pcs	Landrover	18.29	

		kg	73 .4
400.0176	Holding wrench for Visco fan for Land Rover	1.05	8
400.0177	Visco fan wrench 36.0 mm for Land Rover	14.78	

Ventilator coupling counter hold for Mercedes

- · Ideally suited to securing the ventilator coupling
- •Especially slim design
- · Allows for easy access
- · Especially curved for use
- ·Special steel

Application range: Mercedes (engine: M 103, 104)





Mercedes belt disc wrench 8.0 mm

- · Suitable for the installation and removal of the fan coupling and the belt disc
- Required when changing the water pump
- · For hard-to-reach places
- With plastic-coated handle
- · Chrome vanadium

Application range: Mercedes engines M102, M103, OM601, OM602, OM603, OM605, OM606





consists of:

		9	
150.1227	Special wrench with 8.0 mm hexagonal drive, 450 mm	440	
150.1307	Bit with 8.0 mm hexagonal drive for internal hexagonal screws 8.0 mm	20	



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Mercedes compressor belt disc wrench 10.0 mm

- · Suitable for releasing the screws on the compressor belt disc
- Required when changing the water pump
 For hard-to-reach places
- ·With plastic-coated handle
- · Chrome vanadium

Application range: Mercedes engines M102, M103, OM601, OM602, OM603, OM605, OM606





consists of:

		8	
150.1227	Special wrench with 8.0 mm hexagonal drive, 450 mm	440	
150.1308	Bit with 8.0 mm hexagonal drive for internal hexagonal screws 10.0 mm	20	7

Ventilator hub wrench set

- · For counter holding the Visco coupling drive shaft
- Makes it possible to secure the water pump's belt pulley and release the heating ventilator at the same time
- · Also suitable for the removal of the viscous connecting socket on the cooler ventilator
- · In durable plastic storage case

Application range: BMW, Mercedes and Ford





			å	
150.3320	12 pcs	Ventilator hub wrench set	1.89	

onsists of:

	8	
Visco ventilator wrench	370	
Ventilator coupling counter hold for Mercedes Benz	105	
Viscous fan spanner, BMW, Ford, 32mm	300	
Viscous fan spanner, Opel, GM, 46mm	405	
Viscous fan spanner, BMW, Ford, GM, 36mm	340	
Visco ventilator wrench	472	
Holding wrench for Visco ventilator	330	- 3
Adapter, short, Ø 20 mm	5	
Adapter, Ø 8 mm	22	
Adapter, Ø 10 mm	29	
1/2" Holding wrench	635	
BASIC key wrench, hex, short, 2.5mm	10	- 3
	Ventilator coupling counter hold for Mercedes Benz Viscous fan spanner, BMW, Ford, 32mm Viscous fan spanner, Opel, GM, 46mm Viscous fan spanner, BMW, Ford, GM, 36mm Visco ventilator wrench Holding wrench for Visco ventilator Adapter, short, Ø 20 mm Adapter, Ø 8 mm Adapter, Ø 10 mm 1/2" Holding wrench	Visco ventilator wrench 370 Ventilator coupling counter hold for Mercedes Benz 105 Viscous fan spanner, BMW, Ford, 32mm 300 Viscous fan spanner, Opel, GM, 48mm 405 Viscous fan spanner, BMW, Ford, GM, 36mm 340 Visco ventilator wrench 472 Holding wrench for Visco ventilator 330 Adapter, short, Ø 20 mm 5 Adapter, Ø 8 mm 22 Adapter, Ø 10 mm 29 1/2" Holding wrench 635

SLOGGING SPANNER

- · Ideal for loosening extremely jammed screws
- Also usably to the tightening of screws and/or nuts
 Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- Optimal 8:1 torque ratio
- •360° rotating head
- ·Impact screw can be combined with every 1/2" drive nut
- ·With one component handle





- · For the installation and extension of compensational corrugat-
- ed discs without extension of the struts
- · For loosening of stuck stop screws
- · Especially suitable for narrow hard to access areas
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- ·Can be combined with every any 1/2" drive nut
- Optimal loosening moment through blow effect
- · Hand protection grip
- · Special steel



		L mm	8	
150.2090	1/2"	560.0	1.32	

ALTERNATOR WRENCH

CHROMEplus* Starter and block spanner

- ·FlankTraction profil (12 point)
- · Especially suitable for narrow hard to access areas
- · Chrome plated and mirror polished
- Chrome vanadium





		A1 mm	A2 mm	B1 mm	B2 mm	L	å
518.0852	10x12	6.5	6.6	15.6	17.9	142.0	57
518.0853	11x13	8.0	8.2	17.9	20.7	164.0	90
518.0856	14x17	8.2	9.2	21.4	25.1	190.0	133
518.0857	16x18	8.8	9.6	24.8	27.7	216.0	166
518.0859	19x22	10.0	11.1	27.6	33.0	255.0	244

CHROMEplus® half moon - and manifold spanner set

- ·FlankTraction profil
- · Especially suitable for narrow hard to access areas
- Chrome plated and mirror polished
- · Chrome vanadium



			8	
518.0850	5 pcs	10x12 - 11x13 - 14x17 - 16x18 - 19x22 mm	890	

- · Suitable for engines in which the V ribbed belt is only tensioned via the spring-loaded alternator

 •With strengthened and ribbed pins to relax the V ribbed belt
- · Ribs prevent the pins from displacing from the bore holes of the alternator
- · Special steel

Application range: Volkswagen engines





	Per hay	å	
150.3037	157.0	440	

FREE-RUNNING BELT DISC TOOL

V-Ribbed Alternator combination key - internal hexagon

- · For the assembly and disassembly of free-running belt discs when changing alternator or the belt disc
- · Locking the alternator is done with the special bit
- · Actuation of the screws is carried out with the union nut
- Also for checking screws
 Allows for the releasing and securing of the central nut at the same time as counter holding the belt disc shaft Internal square drive to DIN 3120/ISO 1174 with ball reception





		Har B	Sun	L	å
150.3155	8,0	22,0	33	96.0	163

- · For the assembly and disassembly of free-running belt discs when changing alternator or the belt disc

 - Locking the alternator is done with the special bit
- · Actuation of the screws is carried out with the union nut
- · Also for checking screws
- · Allows for the releasing and securing of the central nut at the same time as counter holding the belt disc shaft
- Internal square drive to DIN 3120/ISO 1174 with ball reception



V-Ribbed Alternator combination key - XZN

22,0

· For the assembly and disassembly of free-running belt discs when changing alternator or the belt disc

- Locking the alternator is done with the special bit

33

- · Actuation of the screws is carried out with the union nut
- Also for checking screws

150.3156

- Allows for the releasing and securing of the central nut at the same time as counter holding the belt disc shaft
- Internal square drive to DIN 3120/ISO 1174 with ball reception

Application range: Audi, BMW, Seat, Škoda, Mercedes, Opel, Peugeot, Porsche, Renault, etc.



mm	9	
150.3102 M10 19,5 33 115.0	170	

V-Ribbed Alternator combination key - XZN

- · For the assembly and disassembly of free-running belt discs when changing alternator or the belt disc

 - Locking the alternator is done with the special bit
- Actuation of the screws is carried out with the union nut
 Also for checking screws
- · Allows for the releasing and securing of the central nut at the same time as counter holding the belt disc shaft
- Internal square drive to DIN 3120/ISO 1174 with ball reception

Application range: Renault Megane, Scenic, Kangoo



		Nut Ø mm	Tooth	L mm	9	
150.3135	M10	28,0	33	96.0	300	

- · For the assembly and disassembly of free-running belt discs when changing alternator or the belt disc • Locking the alternator is done with the special bit
- · Actuation of the screws is carried out with the union nut
- · Also for checking screws
- · Allows for the releasing and securing of the central nut at the same time as counter holding the belt disc shaft
- mal square drive to DIN 3120/ISO 1174 with ball reception

Application range: BMW F20, Mercedes A class, C class, nault 1.9 DTI



ed Alternator combination key - internal hexa-

- ·For the assembly and disassembly of free-running belt discs when changing alternator or the belt disc •Locking the alternator is done with the special bit
- · Actuation of the screws is carried out with the union nut
- · Also for checking screws
- · Allows for the releasing and securing of the central nut at the same time as counter holding the belt disc shaft
- Internal square drive to DIN 3120/ISO 1174 with ball reception

Application range: Volvo, etc.



	20.00175					
		Not 00 min.	Section	L	8	
150.3157	10,0	22,0	33	70.0	163	

V-Ribbed Alternator combination key - internal hexagor

- · For the assembly and disassembly of free-running belt discs when changing alternator or the belt disc
- · Locking the alternator is done with the special bit
- · Actuation of the screws is carried out with the union nut
- · Also for checking screws
- Allows for the releasing and securing of the central nut at the same time as counter holding the belt disc shaft
- Internal square drive to DIN 3120/ISO 1174 with ball reception

Application range: Volvo C30, Toyota, etc.



consists of:

		9	
150.3176	Union nut 17.00 mm	40	
150.3177	Union nut with 3 pins	120	3
150.3201	Socket 10mm	40	

V-Ribbed Alternator combination key set

- For the assembly and disassembly of free-running belt discs when changing alternator or the belt disc
- · Locking the alternator is done with the special bit
- · Actuation of the screws is carried out with the union nut
- Also for checking screws
- · Allows for the releasing and securing of the central nut at the same time as counter holding the belt disc shaft
 • Internal square drive to DIN 3120/ISO 1174 with ball reception
- Suitable for a wide range of applications
- Saves the removal of additional parts, e.g. cooler

Application range: Audi, BMW, Fiat, Ford, Mercedes, Opel, Porsche, Renault, Peugeot, Seat, Škoda, Volkswagen, etc.







			å	
150.3200	5 pcs	V-Ribbed Alternator combination key set	310	

		•	
150 3110	10 mm special bit multi-tooth, M10, 75 mm	60	
	10 mm Special-bit TX, T50, 75 mm	60	
150.3201	Insert wrench insert 10 mm	40	
150.3202	Hexagonal adapter Ø 19 mm	110	
150,3203	Multi-toothed Adapter, Ø 17 mm	40	



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V-Ribbed Alternator combination key set

- · For the assembly and disassembly of free-running belt discs
- when changing alternator or the belt disc

 -Locking the alternator is done with the special bit
- · Actuation of the screws is carried out with the union nut
- · Also for checking screws
- · Allows for the releasing and securing of the central nut at the same time as counter holding the belt disc shaft
- Internal square drive to DIN 3120/ISO 1174 with ball reception
- Suitable for a wide range of applications
 Saves the removal of additional parts, e.g. coole

Application range: Bosch and Magneti Marelli alternators, Audi, BMW, Fiat, Ford, Mercedes, Opel, Porsche, Renault, Peugeot, Seat, Škoda, Volkswagen, etc.





			å	
150.3100	13 pcs	V-Ribbed Alternator combination key set	1.20	- 22

		å
150.3101	Combination wrench 1/2", TX 50 x 33 teeth, I = 110 mm	170
150.3102	Combination wrench 1/2", XZN" M10 x 33 teeth , I = 110 mm	170
150.3103	Multi tooth usage SW 15 x 33 tooth, bored	50
150.3104	Multi tooth usage SW 22 x 33 tooth, bored	30
150.3105	Adaptor for Belt Pulley wrench, SW 22, 1 = 30 mm, bored	70
150.3106	Special adaptor SW 17 with 4 lugs Ø4mm, bored	120
150.3107	Special 10 mm hexagon socket 8 mm, 1 = 75 mm	60
150.3108	Special 10 mm hexagon socket 10 mm, I = 75 mm	60
150.3109	Special bit 10 mm, XZN* M8, I = 75 mm	60
150.3110	Special bit 10 mm, XZN* M10, I = 75 mm	60
150.3111	Special Bit 10 mm, TX 40, I = 75 mm	60
150.3112	Special Bit 10 mm, TX 50, I = 75 mm	60
918.1271	1/2" CHROMEplus" Bit-Adapter-Socket with clamping ring, 1/2" x 10 mm	40

BELT TENSION CHECKER

Timing belt tensions test instrument

- · For inspection of the timing post tensioning
- · For the timing belt on the combustion engine · With mm scale
- •10N (~1kp corresponds a revolution)
- Special steel

Application range: Can be used everywhere there is the technical data for the allowable through bend of the timing belt in mm in a certain power in N or kp revolutions





Scale division

Measurement mode:

Adjusting nut revolution around 360° 1.0 Adjusting nut pitch: 1.0/10.0 mm

7.0	L	200	å	
150.3015	100.0	0,0-20,0 mm	260	- 3

Electronic timing belt tension tester

- · For testing the tension of toothed belts and V-ribbed belts
- · Measurement using the latest method = frequency measurement in Hertz
- ·With data log, setting values and correct position of the measuring sensor on the belt drive
- . One man operation, easy to use
- · LED display and acoustic measuring signal
- Automatic shutdown after 120 seconds
- · In durable plastic storage case

Application range: Maintenance of vehicles, replacement of belts, suitable for passenger cars up to LCV





Technical data:

Power requirement Working range: Cable length

9V block battery 30,520 Hz 1.2 m

			No.	
150.3165	8 pcs	Electronic timing belt tension tester	1.11	

PULLING TOOL

Draw off lining

- · For drawing off the shoulder housings interior ring of light machines, motor parts and other machine parts
- ·Special steel



	Ø	L	max N-m		mm	Ng.	
670.0221	5-32	135	60	17	M14x1,5 x 130	1.40	

Universal camshaft solid wheel puller 2 arm

- · Four special hooks for 5 and 6 armed spoked wheels
- · Suitable for many VAG models
- Extremely robust spindle with inductively hardened thread
- · Special steel





	A	В	max	mm		D	E	F	G	å
	_	_	t	1111-1-15	_	_	_	_	_	
670.0211	130	44	2,5	x 55	17	4	9	20	15	900

Universal 2 arm puller

- · Legs are adjustable in the working depth
- Independent pressure of the hooks
- · Extremely robust spindle with inductively hardened thread
- · Special steel





	A mm	B mm	max 1	mm	Ä	D	E	F	G mm	ŝ
				M10 x 105						
620.5202	10- 140	85/120	3,5	M14x1,5 x 130	17	3,5	5	10	31	0.90
620.5203	15- 140	125/155	4,5	M14x1,5 x 200	17	3,5	5	10	31	1.10

Universal 2 arm puller set with narrow legs

- · Legs are adjustable in the working depth
- · Ideal for confined spa es
- · Independent pressure of the hooks
- Extremely robust spindle with inductively hardened thread
- · Special steel



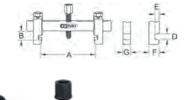


	A mm	B mm	max 1	mm	Ä	D	E	F	G mm	ŝ
620.5301	6-100	70/85	1	M10 x 105	12	2,5	4,5	8,5	11	0.40
620.5302	15-	125/155	2	M14x1,5 x 200	17	3,5	5	11	12	1.00

- For grooved belt pulleys
- Draw-off arms with locking device
 Clamp compresses hooks firm y
- Prevents slippage
- · Less space requirement through compact method of building
- ·Suited for working on and finishi g engines
- Special steel









	A mm	B mm	mm	٠	D	E	F mm	G	kg
150.3170	40-165	30	M12 x 75	17	10	9	18	35	1.60



Universal belt pulley puller 3 arn

- For the damage free drawing off of pulley belts
 Universal suitable for several diameters and different hole divisions
 •Less space requirement through compact method of building
- •Suited for working on and finishi g engines
- · Special steel





	A mm	B	mm	mm	D mm	E mm	F mm	G mm	9	
150.3130	90	30	M16x1,5 x 75	24	10	6	11	12	900	

Universal belt pulley puller 3 arm

- For the damage free drawing off of pulley belts
- · Universal suitable for several diameters and different hole divisions
- Less space requirement through compact method of building
 Suited for working on and finishi g engines
- ·Special steel







	A mm	B	mm	۰	D	E	F	G	8
150.3194	30-60	30	M14x1,5 x 75	19	10	6	11	11	745

STETHOSCOPE

Mechanics stethoscope

- Very fl xible
- Serves the acoustic test and evaluation of a component under load
- •Quick and precise error detection from the sound
- With steel tip

Application range:

Engine: Valves, bearings, piston pins Alternator: Bearing sounds Differential: Barrel sounds Bodywork: Creak and squeak sounds





	L mm	8
150.1645	1120.0	200
150.1645	1120.0	200

Mechanic's stethoscope, electronic

- Very fl xible
- · Serves the acoustic test and evaluation of a component under load
- Quick and precise error detection from the sound
 Includes 9 V block battery
- With steel tip

Application range:

Engine: Valves, bearings, piston pins Alternator: Bearing sounds Differential: Barrel sounds

Bodywork: Creak and squeak sounds





S 120	Cobio length even	Longh	8	
150.1410	1160.0	190.0	100	

Electronic professional stethoscope

- For the professional defect diagnosis
- Serves the acoustic test and judgment of a component under load
- Delivers fast, absolutely clear and unambiguous test results over sounds
- · Contains 6 independent sensors that can mounted for example on the vehicle floor or in the engine compartment for ease • Simple coordination of the defect source through colour coded cable and colour table on the box
- In durable plastic storage case

Application range:

Engine: Valves, baerings, piston pins Alternator: Bearing sounds Differential: Barrel sounds Bodywork: Creak and squeak sounds





			kg
150.1695	18 pcs	Electronic professional stethoscope	2.50

150.1695-1 Headset for 150.1695 350	
150.1695-2 Amplifier or 150.1695	
150.1695-3 Hand held stethoscope for 150.1695 165	
150.1695-4 Velcro strap for 150.1695, 8 pcs 9	
150.1695-5 Sensor for 150.1695	
150.1695-6 Coulour coded cable for 150.1695, 6 pcs 755	

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23

24

25

26

	PAGE
ALFA ROMEO	291 - 293
AUDI	293 - 302
BMW	303 - 307
CHRYSLER	307
CITROËN	308 - 310
FIAT	311 - 315
FORD	316 - 320
GM	320 - 321
HONDA	321
HYUNDAI	321
ISUZU	321 - 322
IVECO	322 - 323
JAGUAR	323 - 324
KIA	324
LANCIA	324 - 325
LAND ROVER	325 - 327
MAZDA	327 - 328
MERCEDES	328
MINI	328 - 329
MITSUBISHI	329
NISSAN	330 - 331
OPEL	331 - 336
PEUGEOT	336 - 339
PSA	339 - 342
RENAULT	343 - 346
ROVER	346 - 347
SAAB	347 - 349
SEAT & ŠKODA	350 - 354
VOLKSWAGEN	355 - 363
VOLVO	364 - 365
UNIVERSAL	365 - 369
BELT TENSION CHECKER	369

1 2

THE RIGHT SPECIAL TOOL **FOR EVERY USE!**

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- directly from the OE number
- from the vehicle selection
- from the engine code.



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Innovation is our mission!

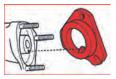
ALFA ROMEO

Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set

- *For the professional engine repair
- For locking the crank shaft and cam shaft
 Suitable for pre-tensioning timing belt tensioner on the automatic pulley
- For changing the timing belt Very high degree of accuracy
- In durable steel storage case

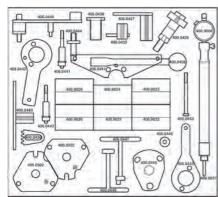
Application range: universal usage on many Italian vehicles, in particular **Alfa Romeo, Fiat, Lancia** vehicles with 1.4 / 1.6 / 1.8 / 2.0 / Twinspark 1.2 / 1.4 / 1.6 / 1.8 16 V petrol engines 1.6 / 1.8 / 1.9D / TD / 2.0 / 2.1 12V / 2.4 diesel engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400,0425	34 pcs	Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	7.57	

consists of

		g	
400.0428	Tensioning tool - pry	170	
400.0435	Flywheel locking tool	57	
400.0436	Flywheel locking tool	135	
400.0437	Flywheel locking tool	100	
400.0438	Flywheel locking tool	51	
400.0439	Flywheel locking tool	317	
400.0440	Flywheel locking tool	136	
400.0441	Crankshaft timing tool (2)	154	
400.0442	Crankshaft timing tool (2)	154	
400.0443	Crankshaft timing tool (3)	160	
400.0444	Tensioning tool	240	
400.0445	Camshaft locking tool (2)	530	
400.0446	Balancer shaft belt tensioning tool	97	
400.0447	Tensioning tool - pry	70	
400.0502	Camshaft locking tool (2)	400	
400.9004	Precision-dial indicator gauge 0 - 10 mm	78	
400.9027	TDC determining pin Ø 5,0 mm / dial indicator bracket M14 x 1.25	288	
400.9029	Camshaft locking tool (2)	276	

consists of:

		g	
100.9030	Camshaft locking tool (2)	251	
100.9031	Camshaft locking tool (2)	272	
100.9032	Camshaft locking tool (2)	269	
100.9033	Camshaft locking tool (2)	276	
100.9034	Crankshaft timing tool	178	
100.9032	Camshaft locking tool (2) Camshaft locking tool (2)	269 276	

Alfa Romeo / Fiat / Lancia camshaft alignment tools

- For the professional engine repair
- •For locking the cam shaft wheels (TDC position)
- ·Secure hold thanks to optimal positioning
- · Very high degree of accuracy

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





	X	Suitable for	å
00.9028	4	156 2.5 V6 (> 1997)	690
400.9029	2	145/146 1.8, 2.0 Twin Spark (> 1996), Spider/GTV 2.0 16v (> 1995)	276
100.9030	2	145/146 1.4, 1.6 Twin Spark (> 1996), 155/156 Twin Spark (> 1996)	251
400.9037	2	147 1.6 (105bhp) (>2004)	267
400.9038	2	147 1.6 (120bhp) (>2004)	270
400.9039	2	156 2.0 JTS (>2006)	267

Alfa Romeo / Fiat / GM / Opel - Engine Timing Tool Set

- For the professional engine repair
- For changing the timing belt
- Very high degree of accuracy

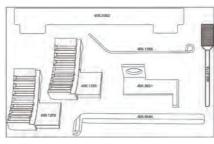
Application range: Chevrolet Cruze, Orlando with 1.4 / 1.6 / 1.8 engines, **Opel** Astra-G, Astra-H, Corsa-D, Insignia, Meriva, Signum, Vectra-C, Zafi a-B, **Fiat** Croma, **Alfa Romeo** 159 (engine code: Z / A / 939A4.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			g	
400.3050	7 pcs	Alfa Romeo / Fiat / GM / Opel - Engine Timing Tool Set	424	

consists of:

		g	
400.0778	Locking pin	20	
400.1255	Camshaft locking tool (2)	56	
400.1256	Tensioner locking pin	3	
400.3051	Flywheel holding tool	32	
400.3052	Camshaft Locking Bar	148	
400.9046	Flywheel locking tool	80	

Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set

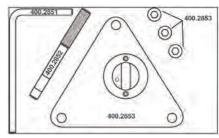
- •For the professional engine repair •Especially for chain-driven engines
- Very high degree of accuracyIn durable steel storage case

Application range: Fiat Panda, Punto, 500, 500c, Alfa Romeo Mito, Lancia Ypsilon (engine code: 313A2.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



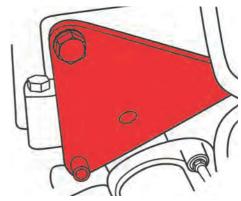




			kg	
400.2850	6 pcs	Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	1.60	

consists of:

		g	
400.2851	Flywheel locking tool	460	
400.2852	Pulley locking pin	550	
400.2853	Camshaft Locking Plate with screws	490	



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Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set

- •For the professional engine repair •For locking the crank shaft

- For changing the timing belt
 Very high degree of accuracy
- In durable steel storage case

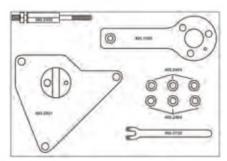
Application range: Alfa Romeo Mito, Giulietta MultiAir 105 , MultiAir Turbo 135 , 163 / 170 (2009-2013) Fiat Punto Evo, Punto, Bravo (2009-2013) Lancia Delta (2010-2013) - (engine code: 955A6.000 / 955A7.000 / 955A8.000 / 955A2.000 / 940A2.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	85
400.2900	10 pcs	Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	1.40	

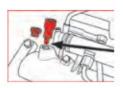
		å	
400.0728	Tensioner adjusting tool	30	- 10
400.1005	Crankshaft locking tool	7	- 19
400.2403	Stud assembly	33	- 8
400.2404	Socket head screw M8 x 20 mm	13	
400.2901	Tensioner adjusting tool	504	

Alfa Romeo / Fiat - Engine Timing Tool Set

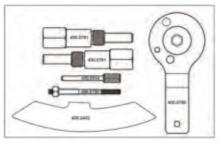
- · For the professional engine repair
- For locking the crank shaft or cam shaft and injection pump
 Very high degree of accuracy
- · In durable steel storage case

Application range: Fiat vehicles with 1.6 / 1.9 / 2.4 JTD Multi-jet diesel engines, Alfa Romeo with 2.0 JTD diesel engines (engine code: 939B3.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de

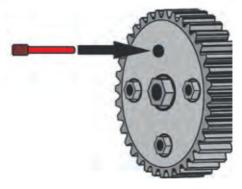






			8	
400.2400	7 pcs	Alfa Romeo / Flat - Engine Timing Tool Set	1.46	

	å	
Locking pin Ø 6.0 mm	19	
Crankshaft pulley setting tool (3)	260	
Camshaft timing pin set (2)	180	
Flywheel sprocket alignment tool	130	
	Locking pin Ø 6.0 mm Crankshaft pulley setting tool (3) Camshaft timing pin set (2) Flywheel sprocket alignment tool	Crankshaft pulley setting tool (3) 260 Camshaft timing pin set (2) 180



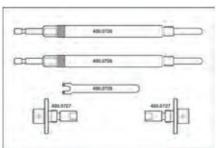
Alfa Romeo / Fiat - Engine Timing Tool Set

- · For the professional engine repair
- For locking the cam shaft
 Very high degree of accuracy
- · In durable steel storage case

Application range: Alfa Romeo Giulietta, Mito, Fiat 500, Brava, Bravo, Grande Punto, Marea, Marea Weekend, Marengo, Palio Weekend, Panda, Punto Classic, Ritmo, Stilo, Idea, Lancia Delta, Susa, Ypsilon with 1.2 16V engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			å	
400.0725	5 pcs	Alfa Romeo / Flat - Engine Timing Tool Set	989	

		å	
400.0726	Piston height gauge (2)	250	
400.0727	Camshaft locking tool (2)	130	
400.0728	Tensioner adjusting tool	30	

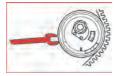


- For the professional engine repair
- For changing the timing beltVery high degree of accuracy
- In durable steel storage case

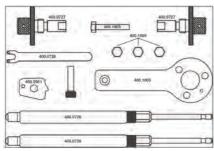
Application range: Alfa Romeo Giulietta, MiTo Fiat 500, Brava. Bravo, Grande Punto, Marea, Marea Weekend, Marengo Palio Weekend Panda, Punto, Punto Classic, Ritmo, Stilo, Idea Lancia Delta, Musa, Ypsilon

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.2950	12 pcs	Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	1.22	

consists of

	х		g	
400.0726	1	Piston height gauge (2)	250	
400.0727	1	Camshaft locking tool (2)	130	
400.0728	1	Tensioner adjusting tool	30	
400.1005	5	Crankshaft locking tool	7	
400.2951	1	Camshaft pulley holding tool(2)	126	

Alfa Romeo phase adjuster

- For the professional engine repair
- · For the safe removal of the cam shaft phase adjuster
- ·Special steel
- Very high degree of accuracy

Application range: Alfa Romeo 145/145 Twin Spark with 1.4 engines with cam shaft variator

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	Suitable for	D mm	mm	9	
400.9005	Alfa Romeo	57.0	24.0	283	

Alfa Romeo automatic tension pulley wrench

- Suitable for the assembly and disassembly of the timing belt
 For adjusting the timing belt tension on the automatic pulley
- ·Not suitable for balancing belts
- · With t-handle
- · With plastic-coated handle
- · Chrome vanadium

Application range: Alfa Romeo 145, 146 for 1.4L and 1.6L Twin Spark engines >1996, Alfa Romeo 155, 156 for 1.6L Twin Spark engines >1996



	Subset to	Garagin Into	8	
150.1253	Alfa Romeo	83.0	80	

AUDI

VAG - Engine Timing Tool Set

- For the professional engine repair
- For locking the crank shaft or cam shaftVery high degree of accuracy
- In durable steel storage case

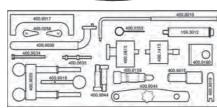
Application range: Audi, Seat, Škoda, Volkswagen with 1.4 / 1.6 / 1.8 / 2.0 Turbo / 2.2 / 2.3 / 1.8 / 2.0 16V, 2.6 / 2.8 with petrol engines and 1.0 / 1.2 / 1.3 / 1.4 / 1.9 TDi / 1.7 / 1.9 SDi / 2.5 TDi / 2.8 30V diesel engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			200	
			kg	
400.2225	19 pcs	VAG - Engine Timing Tool Set	2.23	

consists of:

		9	
400.0159	Crankshaft timing pin	120	

consists of:

		9	
400.9044	Camshaft setting strap	309	
400.9020	Camshaft locking tool	340	
400.9019	Tensioner locking tool	20	
400.9018	Injection pump locking pin Ø 6.0 mm	20	
400.9017	Camshaft setting strap	120	
400.9015	Injection pump locking pin Ø 15.4 mm	126	
400.9010	Automatic pulley wrench for pin-type face	230	
400.9008	Automatic pulley wrench for pin-type face	206	
400.1415	Crankshaft pulley setting tool	192	
400.0635	Stud and nut M5 x 55,0 mm	8	
400.0634	Locking screw M5 x 55.0 mm	8	
400.0615	Crankshaft pulley setting tool	190	
400.0355	Tensioner pushrod retension pin	1	
400,0258	Shim tool (2)	3	
400.0160	Camshaft timing tool (2)	118	
150.3012	VAG front mask push back	170	

VAG - Engine Timing Tool Set

- For the professional engine repair
- For locking the cam shaftFor changing the timing belt
- Very high degree of accuracyIn durable steel storage case

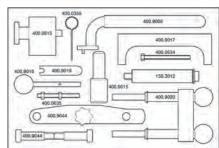
Application range: Audi A2 with 1.2, 1.4 TDI engines, A3 with 1.9 TDI engines (> 1996), A3, A4, A6 with 1.9 TDI engines (>1999), Seat Toledo with 1.9 TDI engines (>1999), Škoda Octavia with 1.9 SDI/TDI engines (>1996), Volkswagen Golf, Bora with 1.9 SDI/TDI engines, New Beetle with 1.9 TDI engines (>1997), Lupo with 3L 1.2 TDI, Lupo, Polo 1.4 TDI, Golf, Bora 1.9 TDI engines (>1999)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









400 0005 10 and VAC Engine Timing Tool Cat 1.70				kg	
400.0625 12 pcs VAG - Engine Hilling 1001 Set 1.73	400.0625	12 pcs	VAG - Engine Timing Tool Set	1.73	

consists of:

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400.0355	Tensioner pushrod retension pin	1	
400.9044	Camshaft setting strap	309	
400.9020	Camshaft locking tool	340	

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Consists	ui.		_
		å	
400.9019	Tensioner locking tool	20	
400.9018	Injection pump locking pin Ø 6.0 mm	20	- 4
400.9017	Camshaft setting strap	120	
400.9015	Injection pump locking pin Ø 15.4 mm	126	
400.9008	Automatic pulley wrench for pin-type face	206	
400.0635	Stud and nut M5 x 55,0 mm	8	
400.0634	Locking screw M5 x 55.0 mm	8	
400.0615	Crankshaft pulley setting tool	190	
150.3012	VAG front mask push back	170	

- For the professional engine repair
 Comprehensive set for locking timing chains
 Very high degree of accuracy
- In durable steel storage case

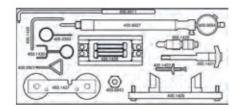
Application range: Audi A3, A4, A6, A8, Škoda Octavia, Volkswagen Polo, Golf, Touran, Passat (engine code: AXW / AXU / BAG / BLF / BKG / BLN / BLP / BUL / BPJ / BGB / BWA / BWE)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	
400.2300	17 pcs	VAG - Engine Timing Tool Set	2.83	- 18

consists of:

		8	
400.0355	Tensioner pushrod retension pin	1	- 8
400.0901	Tensioning locking pin	4	
400.1420	Camshaft alignment tool	802	- 8
400.1421	Chain tensioner retainer	40	
400.1422	Chain tensioner retainer	17	
400.1425	Tensioning locking pin	11	
400.1427	Camshaft alignment tool	433	- 8
400.1428	Camshaft locking tool (4)	665	
400.1429	Crankshaft timing pin	80	
400.1430	Timing chain tensioner locking pin	10	
400.9004	Precision-dial indicator gauge 0 - 10 mm	78	
400.9011	Automatic pulley wrench for pin-type face	259	
400.9027	TDC determining pin Ø 5,0 mm / dial indica- tor bracket M14 x 1.25	288	1
400.9043	VAG Crankshaft pulley bolt adaptor	140	- 8



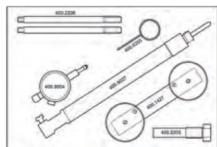
- · For the professional engine repair
- For chain-driven vehicles Very high degree of accuracy
- In durable steel storage case

Application range: Audi A3, Volkswagen Polo, Golf, Jetta. Passat, Eos, Tiguan, Touran (engine code: AXU / BAG / BKG / BLF / BLN / BLP / BMY / BWK / CAXA)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.2200	7 pcs	VAG - Engine Timing Tool Set	2.11	

consists of:

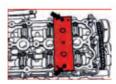
	å	
Camshaft alignment tool	433	
TDC determining pin Ø 5,0 mm / dial indicator bracket M14 x 1.25	288	
Precision-dial indicator gauge 0 - 10 mm	78	
Crankshaft locking pin (2)	53	
Crankshaft locking pin	111	
Tensioner pushrod retension pin	1	
	TDC determining pin Ø 5,0 mm / dial indica- tor bracket M14 x 1.25 Precision-dial indicator gauge 0 - 10 mm Crankshaft locking pin (2) Crankshaft locking pin	Camshaft alignment tool 433 TDC determining pin Ø 5,0 mm / dial indicator bracket M14 x 1,25 288 Precision-dial indicator gauge 0 - 10 mm 78 Crankshaft locking pin (2) 53 Crankshaft locking pin 111

VAG - Engine Timing Tool Set

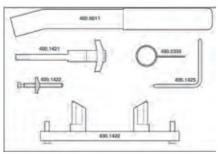
- · For the professional engine repair
- For changing the timing belt or the chain
 Very high degree of accuracy
- · In durable steel storage case

Application range: Audi vehicles (2003-2010) with 2.0 FSI and TFSI engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de

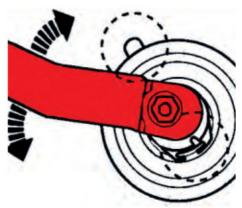






			kg	
400.2175	6 pcs	VAG - Engine Timing Tool Set	1.35	

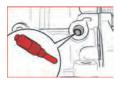
		ň
00.0355	Tensioner pushrod retension pin	1
400.1420	Camshaft alignment tool	802
400.1421	Chain tensioner retainer	40
400.1422	Chain tensioner retainer	17
400.1425	Tensioning locking pin	11
400.9011	Automatic pulley wrench for pin-type face	259



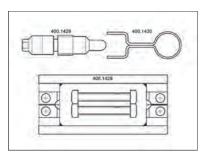
- •For the professional engine repair
- For locking the crank shaft or cam shaft
 Very high degree of accuracy
- In durable steel storage case

Application range: Audi vehicles with V6, V8, V10 FSI engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			9	
400.2250	6 pcs	VAG - Engine Timing Tool Set	899	

consists of:

		g	
400.1428	Camshaft locking tool (4)	665	
400.1429	Crankshaft timing pin	80	
400.1430	Timing chain tensioner locking pin	10	



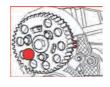


VAG - Engine Timing Tool Set

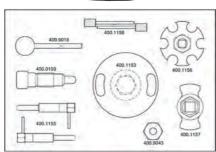
- •For the professional engine repair •For locking the cam shaft
- For changing the timing chainVery high degree of accuracy
- In durable steel storage case

Application range: Audi A4 (2005-2009) with 2.7 TDI engine, A4 Quattro (2005-2006) with 2.0 TDI engine, O7 with 3.0 TDI engine, Volkswagen Touareg (>2008), Phaeton (>2006) with 3.0 TDI V6 engine (engine code: BPP / BMZ / BUG / BUN)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.1150	10 pcs	VAG - Engine Timing Tool Set	2.41	

consists of:

		g	
400.0159	Crankshaft timing pin	120	
400.1153	Crankshaft turning tool	354	
400,1155	Camshaft locking pin (2)	47	
400.1156	Camshaft alignment/locking tool	366	
400.1157	Camshaft sprocket holding tool	120	
400.1158	Timing pin Ø 3,3 mm (2)	12	
400.9018	Injection pump locking pin Ø 6.0 mm	20	

consists of:

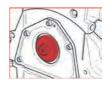
		g	
400.9043	VAG Crankshaft pulley bolt adaptor	140	

VAG - Engine Timing Tool Set

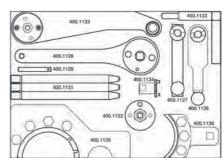
- · For the professional engine repair
- Especially for timing wheel-driven vehicles
 For adjusting the injection adjuster via the cam shaft follower
- · Very high degree of accuracy
- •In durable steel storage case

Application range: Volkswagen Touareg, Transporter (> 2003) with 2.5 TDI engines (engine code: BAC / BLK / BPD / AXD / AXE / BLJ / BNZ / BPC) and 4.9D / TDI (engine code: AYH)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.1125	12 pcs	VAG - Engine Timing Tool Set	9.45	

consists of:

		g	
400.1126	Camshaft locking tool	226	
400.1127	Camshaft locking tool	174	
400.1128	Crankshaft timing tool (2)	1194	
400.1129	Camshaft gear retaining tool (big)	2769	
400.1130	Camshaft gear retaining tool (small)	677	

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		9	
400.1131	Guide pin set (3)	769	
400.1132	Crankshaft turning tool (TDC-cylinder 1)	141	
400.1133	Crankshaft alignment tool (TDC-cylinder 1)	998	
400.1134	Camshaft compensation gear pre-tensioning tool	75	

- For the professional engine repair
- For changing the timing belt or the timing chain Very high degree of accuracy
- In durable steel storage case

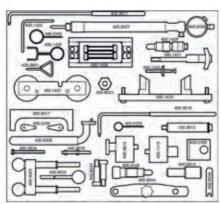
Application range: Audi, Seat, Škoda, Volkswagen vehicles including FSI and TFSI engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			1	
400.1400	35 pcs	VAG - Engine Timing Tool Set	7.94	

consists of:

		å
400.0159	Crankshaft timing pin	120
400.9044	Camshaft setting strap	309
400.9043	VAG Crankshaft pulley bolt adaptor	140
400.9027	TDC determining pin Ø 5,0 mm / dial indica- tor bracket M14 x 1.25	288
400.9020	Camshaft locking tool	340

consists of:

		9	
400.9019	Tensioner locking tool	20	
400.9018	Injection pump locking pin Ø 6.0 mm	20	
400.9017	Camshaft setting strap	120	
400.9015	Injection pump locking pin Ø 15.4 mm	126	
400.9011	Automatic pulley wrench for pin-type face	259	
400.9010	Automatic pulley wrench for pin-type face	230	
400.9008	Automatic pulley wrench for pin-type face	206	
400.9004	Precision-dial indicator gauge 0 - 10 mm	78	
400.1430	Timing chain tensioner locking pin	10	
400.1429	Crankshaft timing pin	80	
400.1428	Camshaft locking tool (4)	665	
400.1427	Camshaft alignment tool	433	
400.1425	Tensioning locking pin	11	
400,1422	Chain tensioner retainer	17	
400.1421	Chain tensioner retainer	40	
400.1420	Camshaft alignment tool	802	
400.1415	Crankshaft pulley setting tool	192	
400.0901	Tensioning locking pin	4	
400.0635	Stud and nut M5 x 55,0 mm	8	
400.0634	Locking screw M5 x 55.0 mm	8	
400.0615	Crankshaft pulley setting tool	190	
400.0355	Tensioner pushrod retension pin	1	
400.0258	Shim tool (2)	3	
400.0160	Camshaft timing tool (2)	118	
150.3012	VAG front mask push back	170	

VAG - Engine Timing Tool Set

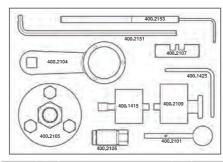
- •For the professional engine repair
- For changing the timing belt or the chain
 Very high degree of accuracy
 In durable steel storage case

Application range: Audi A3, A4, A5, A6, Q5, Volkswagen Golf, Tiguan, Passat, Eos, Seat Exeo

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.2100	9 pcs	VAG - Engine Timing Tool Set	2.61	

consists of:

		9	
400.1415	Crankshaft pulley setting tool	192	
400.1425	Tensioning locking pin	11	
400.2101	Injection pump/camshaft alignment pin	14	
400,2104	Sprocket holding tool	179	
400.2105	Cam sprocket hub puller	581	
400.2107	Setting tool	72	
400.2109	Crankshaft pulley locking tool (bored)	300	
400.2153	Tensioner adjuster Ø 2.5 mm	70	
400.2151	Tensioner adjuster Ø 6.0 mm	20	

VAG - Engine Timing Tool Set

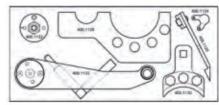
- For the professional engine repair
- For timing wheel-driven engines Very high degree of accuracy
- In durable steel storage case

Application range: Volkswagen Touareg, Transporter (engine code: AXE / AXD / BAC / BLK / BLJ / BNZ / BPC / BPE / BPD)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			8	
400.2500	6 pcs	VAG - Engine Timing Tool Set	6.50	

		å
400.1126	Camshaft locking tool	226
400.1129	Camshaft gear retaining tool (big)	2769
400.1130	Camshaft gear retaining tool (small)	677
400.1132	Crankshaft turning tool (TDC-cylinder 1)	141
400.1133	Crankshaft alignment tool (TDC-cylinder 1)	998
400.1134	Camshaft compensation gear pre-tensioning tool	75



- •For the professional engine repair
- Especially for chain-driven engines
 Very high degree of accuracy
- In durable steel storage case

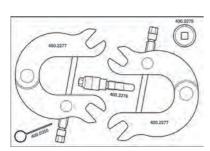
Application range: Audi A4, A6 (engine code: ASN / BBJ)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









	_		kg	
400.2275	5 pcs	VAG - Engine Timing Tool Set	2.46	

consists of:

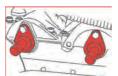
		g	
400.0355	Tensioner pushrod retension pin	1	
400.2276	Crankshaft locking tool	80	
400.2277	Camshaft locking tool (2)	1050	
400.2278	Camshaft sprocket adjusting tool	80	

VAG - Engine Timing Tool Set

- For the professional engine repair
- For locking the cam shaftFor changing the timing belt
- Very high degree of accuracy
- In durable steel storage case

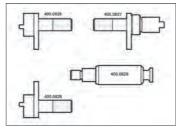
 $\label{eq:Application range: Volkswagen} \ \ \text{Lupo, Polo with 1.2 6V / 12V} \ \ \text{engines, Seat Cordoba, Ibiza with 1.2 engines (2002-2009)},$ Škoda Fabia II, Roomster with 1.2P engines (engine code: AWY / BMD / AZQ / BME / BZG)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			9	
400.0825	4 pcs	VAG - Engine Timing Tool Set	747	

consists of

		9
400.0826	Camshaft aligning tool 12V (2)	97
400.0827	Camshaft aligning tool 6V	113
400.0828	Crankshaft locking pin 6V/12V	115

VAG - Engine Timing Tool Set

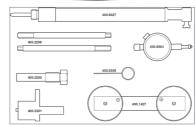
- For the professional engine repair • For locking the cam shaft
- For changing the timing beltVery high degree of accuracy
- In durable steel storage case

Application range: Volkswagen and other VW Group vehicles 1.4 / 1.6 FSi and 1.4 TSi and 1.2 TFSi / FSi engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.3300	8 pcs	VAG - Engine Timing Tool Set	2.14	

consists of:

		9	
400.0355	Tensioner pushrod retension pin	1	
400.9027	TDC determining pin Ø 5,0 mm / dial indicator bracket M14 x 1.25	288	
400.1427	Camshaft alignment tool	433	
400.2205	Crankshaft locking pin	111	
400.2206	Crankshaft locking pin (2)	53	
400.3301	Camshaft locking tool	174	
400.9004	Precision-dial indicator gauge 0 - 10 mm	78	

VAG - Engine Timing Tool Set

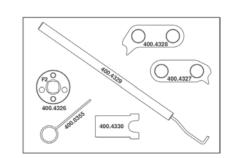
- For the professional engine repair Expansion set for use alongside 400.2300 / 400.3300
- Very high degree of accuracy
- In durable steel storage case

Application range: Audi, Seat, Škoda, Volkswagen vehicles with 1.8 / 2.0 TFSI and FSI engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.4325	7 pcs	VAG - Engine Timing Tool Set	1.87	

		g	
400.0355	Tensioner pushrod retension pin	1	
400.4326	Cam shaft control valve removal tool	60	
400.4327	Cam shaft clamp external	130	
400.4328	Cam shaft clamp internal	130	
400.4329	Oil pumps securing pin	160	
400.4330	Timing chain wrench	30	

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- · For the professional engine repair
- Necessary to separate the V6 2 valve engine cam shafts from each other
- · Very high degree of accuracy

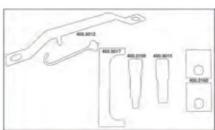
Application range: Audi 80 (1991-2002) with 2.6 / 2.8 engines, A4 with 2.6 / 2.8 engines, 100 with 2.6 / 2.8 engines, A8 with 2.8 engines, Cabrio, Coupe with 2.6 / 2.8 engines (engine code: AAH, ABC)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			å	
400.0225	6 pcs	VAG - Engine Timing Tool Set	3.02	

consists of:

		8	
400.0159	Crankshaft timing pin	120	- 9
400.0160	Camshaft timing tool (2)	118	
400.9012	Camshaft locking tool	2012	
400.9015	Injection pump locking pin Ø 15.4 mm	126	
400.9017	Camshaft setting strap	120	

VAG Camshaft fixi g tool

- · For the professional engine repair
- For locking the cam shafts
- Allows for correct engine adjustment
- · Very high degree of accuracy

Application range: Audi 80, 90, A4, A6, A8 with 2.6 V6 12V engines (engine code: ABC, ACZ) and with 2.8 V6 12V engines (AAH, AEJ)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



		8	
400.9012	VAG Camshaft fixi g tool	2.01	

VAG Camshaft fixi g tool

- · For the professional engine repair
- · For locking the cam shafts
- · Allows for correct engine adjustment
- · Very high degree of accuracy

Application range: Audi A4 2.4 and 2.8 1997-2002, A6 2.4 1997-2002, A6 2.8 1997-2002, A8 2.8 1997-2002, S4 2.7 Turbo 1997-2001 and Volkswagen Passat 2.4 1996-2002, Passat 2.8 30V 1996-2001 (engine code: ACK, ALG, APR, AOD)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



		8	
400.9013	VAG Camshaft fixi g tool	2.41	

VAG - Engine Timing Tool Set

- · For the professional engine repair
- Range for changing timing belts or for working on timing devices
- Very high degree of accuracy
- In durable steel storage case

Application range: VAG group vehicles with 2.4 engines, in particular Volkswagen T2, T3, T4 Transporter, LT, Golf, Passat and Audi (engine code: AAB, AJA, ADG, ABL, 1X, 1Y, 1W, 1V, CS, CW, KY, JR, JX, JD, JP, 1Z, AAT, AEL, AAZ, AHU, AFN, AEY, AVG, ALE, AFF, AHH, ACV, AHY, AJT, AUF, AXG, AXL, AYC)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			8	
400.2125	5 pcs	VAG - Engine Timing Tool Set	951	

consists of:

		å	
400.0258	Shim tool (2)	3	
400.9015	Injection pump locking pin Ø 15.4 mm	126	
400.9017	Camshaft setting strap	120	
400.9042	Pulley wheel counter hold wrench	714	

VAG pulley wheel counter hold wrench

- · For the professional engine repair
- Simple assembly and disassembly of the crank shaft pulley wheel or vibration dampers
- Special profil s allows for counter holding when releasing or securing the crank shaft central screw
- •The handle can be lengthened via the 3/4" internal square
- Very high degree of accuracy

Application range: VAG group vehicles with 2.4 engines, in particular Volkswagen T2, T3, T4 Transporter, LT, Golf, Passat and Audi (engine code: AAB, AJA, ADG, ABL, 1X, 1Y, 1W, 1V, CS, CW, KY, JR, JX, JD, JP, 1Z, AAT, AEL, AAZ, AHU, AFN, AEY, AVG, ALE, AFF, AHH, ACV, AHY, AJT, AUF, AXG, AXL, AYC)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



		å	
400.9042	VAG pulley wheel counter hold wrench	714	

VAG Camshaft ruler

- · For the professional engine repair
- Ideally suited to fixi g the cam shaft
- Simple handling
 Special steel
- · Very high degree of accuracy

Application range: VAG group vehicles with diesel engines, in particular Volkswagen T2, T3, T4, LT, Golf, Passat, Audi with 2.4D 6 cylinder and 2.4 TD 5 cylinder TDI engines, as well as all older diesel engines such as 1.6 D and 1.7 D GTD (engine code: CS, CW, JD, JX, JP, JR, 1X, 1Y, 1Z, KY, AAZ, AAT, AEL, AFN, AFF, AHU, AHH, AVG, AAB, AJA, AHY)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



		9	
400.9017	VAG Camshaft ruler	120	- 23

VAG fixi g pin injection pump wheel

- · For the professional engine repair
- Ideally suited to securing the injection pump
- · Simple handling
- ·Special steel
- Very high degree of accuracy

Application range: VAG group vehicles with diesel engines, in particular Volkswagen T2, T3, T4, LT, Golf, Passat, Audi with 2.4D 6 cylinder and 2.4 TD 5 cylinder TDI engines, as well as all older diesel engines such as 1.6 D and 1.7 D GTD (engine code: CS, CW, JD, JX, JP, JR, 1X, 1Y, 1Z, KY, AAZ, AAT, AEL, AFN, AFF, AHU, AHH, AVG, AAB, AJA, AHY)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



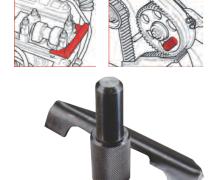


	Suitable for	Ø mm	Longth	å	
400.9015	VAG	15,4	67.0	126	

- For the professional engine repair
- For locking the crank shaft or cam shaftFor changing the timing belt
- Very high degree of accuracy

Application range: Audi, Seat, Volkswagen, Volvo vehicles

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			-	
			g	
400.1725	2 pcs	VAG / Volvo - Engine Timing Tool Set	251	

consists of

		g	
400.9015	Injection pump locking pin Ø 15.4 mm	126	
400.9017	Camshaft setting strap	120	

VAG - Engine Timing Tool Set

- For the professional engine repair
- For locking the cam shaftFor changing the timing belt
- · Very high degree of accuracy

Application range: Volkswagen Crafter (2006-2009) with 2.5 TDi engine (engine code: BJJ / BJK / BJL / BJM)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			g	
400.0975	5 pcs	VAG - Engine Timing Tool Set	255	

COHSISIS	ui.		
		g	
150.3016	Drive pulley wrench, 32, 175mm	110	
400.0258	Shim tool (2)	3	
400.0978	Crankshaft timing pin	103	
400.9017	Camshaft setting strap	120	

VAG Drive pulley wrench 32.0 mm

- For the professional engine repair
- Open 12-point
 For tightening and loosening the automatic timing belt pulley
- With plastic-coated handle
- · With suspension hole
- Special steel
- Very high degree of accuracy

Application range: Audi 100, A4, A6 TDI 5 cylinder engines, **Volkswagen** Polo / Lupo from 1999 onwards, LT 2.5 TDI

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





	Suitable for	mm	L mm	Thickness mm	g	
150.3016	VAG	32,0	175.0	3,0	110	

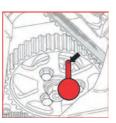
VAG - Engine Timing Tool Set

- · For the professional engine repair
- •For TDI pump injection engines •For changing the timing belt
- ·Secure hold for changing the timing belt or engine repairs

Application range: universal usage for many VAG group vehicles, in particular Audi A3, A4, A6, Škoda Octavia 2, Fabia,

Volkswagen Golf, Golf Plus, Jetta, Touran, Lupo, Fox, Bora, Beetle, Caddy, Sharan, Passat, **Seat** Leon, Toldeo, Althea, Alhambra with 1.4 / 1.9 / 2.0 TDi engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





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400.2700	7 pcs	VAG - Engine Timing Tool Set	455	

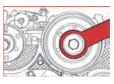
COHSISTS	UI.		
		g	
400.0615	Crankshaft pulley setting tool	190	
400.0901	Tensioning locking pin	4	
400.1415	Crankshaft pulley setting tool	192	
400.1425	Tensioning locking pin	11	
400.9018	Injection pump locking pin Ø 6.0 mm	20	

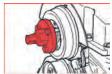
VAG Camshaft hub removal tool set

- For the professional engine repair
- Suitable for the simple and correct removal of the cam shaft hub
- Counter hold wrench allows for a precise release or tightening of the cam shaft hub securing screw
- Special steel
- · Very high degree of accuracy

Application range: Audi, Seat, Škoda and **Volkswagen** with 1.6 TDI and 2.0 TDI engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			å	
400.2110	2 pcs	VAG Camshaft hub removal tool set	760	

consists of:

		9	
400.2104	Sprocket holding tool	179	
400.2105	Cam sprocket hub puller	581	

VAG - Engine Timing Tool Set

- For the professional engine repair For locking the crank shaft or cam shaft
- For changing the timing belt
- · Very high degree of accuracy

Application range: Audi A4, A6, A8 with 2.5 TDI engines, Volkswagen Passat, Sharan with 2.5 TDI engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			9	
400.1550 5	5 pcs	VAG - Engine Timing Tool Set	560	

consists of

COHSISTS	01.			
	Х		g	
150.3012	2	VAG front mask push back	170	
400.0159	1	Crankshaft timing pin	120	
400.0160	1	Camshaft timing tool (2)	118	

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VAG small tension plate for arresting the automatic pulley

- · For the professional engine repair
- Especially designed for fixing the hydraulic timing belt spanner
 Secure hold for changing the timing belt or engine repairs
- · Very high degree of accuracy

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





		å	
400.9019	VAG small tension plate for arresting the automatic pulley	20	

VAG Crankshaft pulley bolt adapto

- · For the professional engine repair
- · For turning the crank shaft on VAG engines
- · Required for adjusting and turning the crank shaft when working on engine timing
- Can also be used as a counter holder
- Includes centring pin
- Burnished
- · Very high degree of accuracy

Application range: Audi A4, A6, A8, Q7, 6 and 8 cylinder 2.4 nd 3.2 L FSI as well as 6 and 8 cylinder TDI Common Rail

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





		å	
400.9043	VAG Crankshaft pulley bolt adaptor	140	

VAG crank shaft timing belt puller

- · For the professional engine repair
- · For damage-free removal of crank shaft timing belt wheels
- · Less space requirement through compact method of building · Suited for work on engines in the vehicle or removed
- Very high degree of accuracy

Application range: Audi and Volkswagen with 4 and 5 cylinder engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





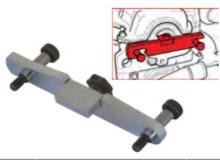
	Suitable for	mm	Hogs	8
150.3154	VAG	65,0	75.0	440

VAG Camshaft setting bracket

- · For the professional engine repair
- · For locking the cam shafts
- · Allows for correct engine adjustment
- · With central centring screw
- Removal of the valve cover and seal no longer required
- · Very high degree of accuracy

Application range: Audi A4, Volkswagen Golf, Bora, New Beetle, Seat Ibiza, Cardoba, Alhambra, Inca, Skoda Octavia with 1.9 SDI or TDI engines (engine code: AHF, ALH, ASY, ASV, AGP, AGR, AQM, AHR, AYQ)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



		å	
400.9044	VAG Camshaft setting bracket	309	

VAG Crank and camshaft locking tool set

- · For the professional engine repair
- · For TDI pump injection engines
- · For changing the timing belt
- Secure hold for changing the timing belt or during engine repairs
- · Special plastic
- Very high degree of accuracy

Application range: Volkswagen Golf, Passat, Lupo / Audi A2

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



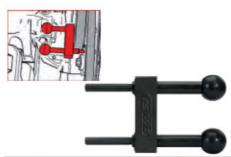
			ň	
150.3066	2 pcs	VAG Crank and camshaft looking tool set	370	

VAG Camshaft locking device

- · For the professional engine repair
- · For locking both cam shaft wheels (TDC setting)
- Secure hold thanks to optimal positioning
- Very high degree of accuracy

Application range: VAG 1.4 / 1.6 L petrol engines - Volkswagen Lupo, Polo, Golf IV, Bora, Audi A2, Seat, Škoda etc.

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



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		8	
150.3034	VAG Camshaft locking device	370	

VAG Crank shaft locking device

- · For the professional engine repair
- For locking the oval crank shaft timing belt wheel
 Secure hold thanks to optimal positioning
- · Very high degree of accuracy

Application range: VAG 4 cylinder diesel / Pump injection engines from 2005 onwards and VAG 2.0 I Common Rail

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



		å	
150.3067	VAG Crank shaft looking device	60	

VAG timing chain tensioning wrench

- · For the professional engine repair
- · For adjusting the timing chain tension
- · For putting on the chain tensioner
- · Very high degree of accuracy

Application: VAG Group vehicles with 4 valve engines 1.8 and 2.0 TFSI 4 cylinder from the 3rd generation (engine code: CCZA, CCZB, CCZC, CCZD, CDAA, CCAB)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



		å	
400.4350	VAG timing chain tensioning wrench	562	

VAG Injection pump locking pin

- · For the professional engine repair
- · Ideally suited to securing the injection pump
- · Simple handling · Special steel
- · Very high degree of accuracy

Application range: Volkswagen Lupo 3L, 1.2/1.4 TDi, Polo 1.4 TDi, Golf / Bora 1.9 SDi / TDi, Passat 1.9 TD (1994-1996), Beetle 1.9 TDi (>1999) and Transporter 1.9TD





	Suitable for	Ø mm	L mm	å	
400.9018	VAG	6,0	80.0	20	- 1

- · For the professional engine repair
- Device for a secure hold to change the timing belt
- · For locking the cam shaft
- ·Secure hold thanks to optimal positioning
- · Very high degree of accuracy

Application: VAG chain-driven Group vehicles with 2.3 / 2.8 and 2.9 engines, in particular Volkswagen Golf, Bora, Vento, Corrado, Passat, Sharon, Transporter, Seat Toledo

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	A SOLD		
		å	
400.9040	VAG Camshaft adjustment plate	57	

VAG 4/3 way cam shaft adjustment too

- For the professional engine repair
- · For the installation and removal of the central cam shaft adjustment
- · Saves removing the timing chain or removing the engine
- · Very high degree of accuracy
- Serviceable from both sides

Application range: VAG Group vehicles 1.8 and 2.0 litre TFSI TSI engines with timing chains (engine codes: BYT / BZB / CABA / CABB / CABD / CAWB / CBFA / CCTA / CCZA / CCZB / CCZC / CDAA / CDHA / CDHB / CDNB / CDNC / CDND / CFKA / CGYA / CCZA / CCZB / CCZD / CDAA / CDABBYT BZB / CABA / CABB / CABD / CAWB / CBFA / CCTA / CCZA / CCZB / CCZC / CDAA / CDHA / CDHB / CDNB / CDNC / CDND / CFKA / CGYA / CCZA / CCZB / CCZD / CDAA / CDABBYT)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



		å	
400.9094	VAG 4/3 way cam shaft adjustment tool	63	

VAG automatic pulley wrench for pin-type face

- · For tightening and relaxing the timing belt on VAG vehicles · For pin spacers with driver bores (pin-type face)
- · Cranked shape
- ·With plastic-coated handle

Application range: Audi, Volkswagen, Seat, Škoda 4 and 5 cylinder TDI engines, also Volkswagen T4 power steering pumps

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



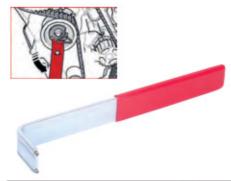
	Substitute for	L	8	
400.9008	VAG	140.0	206	
400.9009	VAG	210.0	263	

VAG automatic pulley wrench for pin-type face

- · For the professional engine repair
- · For tightening and relaxing the timing belt on VAG vehicles
- · For pin spacers with driver bores (pin-type face)
- Angled shape
- With plastic-coated handle
- · Very high degree of accuracy

Application range: Audi, Volkswagen, Seat, Škoda 4 and 5 cylinder TDI engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



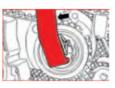
		å	
400.9010	VAG automatic pulley wrench for pin-type face	230	

VAG automatic pulley wrench for pin-type face

- · For tightening and relaxing the timing belt on VAG vehicles
- For pin spacers with driver bores (pin-type face)
 15° angled
- · With plastic-coated handle

Application range: Audi, Volkswagen, Seat, Škoda 2,0 FSI/

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			10	99 99	
	Suitable for	Per lang man	Steel (2 min.	8	
400.9011	VAG	18.0	3.0	259	

VAG Pin wrench 3 mm, adjustable

- Universal usage
- ·For the actuation of belt tensioners in VAG
- Phosphate
- Special steel

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





	Suitable for	ø mm	L	å
150.3018	VAG	9.0-45.0	150.0	100

VAG automatic pulley wrench for pin-type face

- · For tightening and relaxing the timing belt on VAG vehicles
- •180° adjustable handle
- · For pin spacers with tappet tolerances
- ·Normal and extra fl t ideal for hard to access areas
- ·With plastic coated handle

Application range: VAG 4 and 5 cylinder TDI-Model, T4 ervo pump







	Suitable for	L	Stud (Drawn	Finisher me	å
500.4315	VAG	180.0	3.0	18.0	95
150.3017	VAG	185.0	3.0	18.0	105

VAG automatic pulley wrench set for 2.0 RDI PD engines

- · Suitable for the assembly and disassembly of the timing belt
- · For hard-to-reach places due to the modified suppo t frame screws
- · Chrome vanadium

Application range: Audi A3 2.0 TDI PD DPHC (05-08) with the engine ID codes AZU, BKD, BHN, BUY and Volkswagen Caddy, Caddy Maxi 2.0 SDI (09-) with BDJ, BST with engines with hydraulic spanners and Transporter 1.9 TDi Pd (06-09)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			å	
400.2150	3 pcs	VAG automatic pulley wrench set for 2.0 RDI PD engines	160	

		å	
400.2151	Tensioner adjuster Ø 6.0 mm	20	
400.2152	Tensioner adjuster Ø 3.9 mm	70	
400.2153	Tensioner adjuster Ø 2.5 mm	70	

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VAG front mask stub rod

- · For moving the front mask (radiator support) forward in order to carry out service work
- · Allows for timing belt changes or the renewal of the water pump
- · Removes the need for the adjustment of the bonnet lock and the gap measurements

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





100.0

170

M8

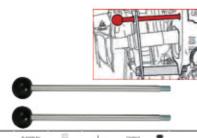
VAG front mask guiding rods

WAG

150.3012

- · For moving the front mask (radiator support) forward in order to carry out service work
- · Allows for timing belt changes or the renewal of the water pump
- · Removes the need for the adjustment of the bonnet lock and the gap measurements

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de

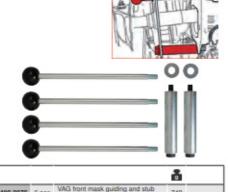


	5.000 tr	2	L	Centerd	å
400.2077	VAG	M8	180.0	1	80
400.2078	VAG	M10	180.0	1	120

VAG front mask guiding and stub rods set

- . For moving the front mask (radiator support) forward in order to carry out service work
- · Allows for timing belt changes or the renewal of the water pump
- · Removes the need for the adjustment of the bonnet lock and the gap measurements

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



consists of:

400.2075 6 pcs

	x		8	
150.3012	2	VAG front mask push back	170	
400.2077	1	Front mask removal aid (2)	80	
400.2078	1	VAG front mask removal aid (2)	120	

VAG V belt and timing belt wrench

- · For loosening the automatic clamping device
- · Problem free changing of the belt
- · For hard to reach places
- · With plastic-coated handle
- Chrome vanadium

Application range: Audi, Seat, Škoda and Volkswagen with 2.0 TDI and 1.4 TSI engines

Volkswagen Beetle (2011-2013), Eos (2007-2013), Golf (2003-2008), Golf (>2008), Golf Estate (2007-2009), Golf Estate (>2009), Gold Plus (2005-2009), Golf Plus (>2009), Golf VI Cabrio (>2011), Jetta (2005-2011), Jetta (>2011), Scirocco (>2008); Passat (2005-2011), Passat (>2011), Tiguan (2010-2013), Polo (>2009), Touran (2007-2013), Audi A1 (2010-2013), Škoda Octavia (>2004), Yeti (2010-2013), engine code: CAVD, CAXA, CAVB, CAVC



VAG Engine support socket set, extra short

12-point

400,4300

· For the assembly and removal of the aluminium engine

501

support (hard to reach sites)

VAG

- · Ideal for timing belt change
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Extra-short design
- · For manual operation
- Matt finis
- · Chrome vanadium

Application range: For timing belt change on Volkswagen Golf IV, Audi, Škoda, Seat etc.



consists of:

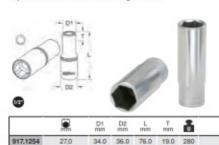
		8	
911.1293	12 point socket, 16.0 mm short	40	
911.1294	12 point socket, 16.0 mm long	67	

Hexagon socket, long for pulley wheel

- · Suited for the assembly and disassembly of the pulley wheel vibration damper, e.g. when changing the timing belt
- · 6-point
- · FlankTraction-Profil
- In accordance with DIN 3124 / ISO 2725
- Internal square to DIN 3120 / ISO 1174 with ball reception
- · Long design
- For manual operation
- · Matt finis
- · Chrome vanadium

Application range: Audi, Seat, Škoda and Volkswagen

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



Bit socket for spline (XZN*) screws, long

- Ideal for releasing and tightening of the securing screws of the high-pressure pumps, timing belt wheels, e.g. when changing timing belt
- · Spline (XZN*)
- Internal square drive to DIN 3120 / ISO 1174 with ball reception
- Long design
- · With press fi ted nickel plated insert bit
- · For manual operation
- · Matt finis
- Chrome vanadium

Application range: Audi, Seat, Škoda and Volkswagen with TDI Common Rail engines, engine code: CAAA, CAAB, CAAC, CAYB, CBAA, CBAB, CBBB etc.

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de

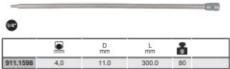


		D	mm L	mm	å
911.1353	M10	22.0	110.0	72.0	112

VAG Bit socket for hexagon screws, extra long

- · Hexagon socket with ball head
- For releasing and tightening the TDC sensor
 Internal square drive to DIN 3120 / ISO 1174 with ball reception
- ·Extra-long design
- Matt finis

Application range: VAG models from 2005, 4-cylinder 2.0I diesel engines



Impact bit socket for spline(XZN*) screws, long

- · Ideally suited to releasing and tightening the securing screws on the cam shaft wheel
- ·Spline (XZN*)
- Internal square in accordance with DIN 3121 / ISO 1174
- Long design
- · For machinery usage
- Phosphate Chrome molybdenum

Application range: Volkswagen Transporter >2004 with 2.5 TDI engines and Touareg >2003 with 2.5 TDI engines, engine code: AXD, BNZ, BAC and BPE

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



BMW - Engine Timing Tool Set

- •For the professional engine repair
- Especially for chain-driven enginesVery high degree of accuracy
- In durable steel storage case

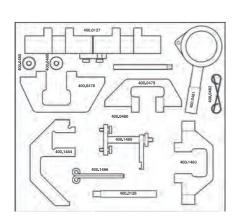
 $\begin{array}{l} \textbf{Application range: BMW}\ 3,\ 5,\ 7,\ X3,\ X5,\ Z3,\ Z4,\ 8\ (E20,\ E28,\ E31,\ E32,\ E34,\ E36,\ E38,\ E46,\ E53,\ E65,\ E66,\ E83,\ E84)\ with \end{array}$ petrol and diesel engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.1475	16 pcs	BMW - Engine Timing Tool Set	5.32	
		0 0		

consists of:

	Х		g	
400.0126	1	Crankshaft TDC locking pin	109	
400.0127	1	Camshaft locking tool exhaust (2)	900	
400.0478	1	Camshaft locking tool	854	
400.0479	1	Camshaft locking tool	425	
400.0480	-1	Primary timing chain pre-load pin (3)	112	
400.0481	1	VANOS unit engagement wrench	357	

consists of:

	х		g	
400.0482	2	Tensioner locking pin set	3	
400.1483	1	Camshaft locking tool	731	
400.1484	1	Camshaft locking tool	468	
400.1485	1	Locking clamp for camshaft align- ment tools	240	
400.1486	-1	Tensioner locking pin (2)	29	

BMW - Engine Timing Tool Set

- •For the professional engine repair •For locking the cam shaft
- For changing the timing chain
- Very high degree of accuracyIn durable steel storage case

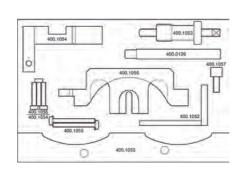
Application range: BMW (E46) 316, 316ti Compact (engine code: N42 B18A / N46 B18), (E46) 318i, 318ti Compact (engine code: M42 B20A / N46 B18 / N46 B20), (E81/82/87) 118i, 120i (engine code: N46 B20B / N46T B20), (E90/91/92/93) 318i, 320i. (engine code: N46 B18B / N46 B20B), (E85) Z4 2,0 (engine code: N46 B20), (E83) X3 2,0 (engine code: N46 B20B

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.1050	10 pcs	BMW - Engine Timing Tool Set	2.10	

consists of:

		g	
400.0126	Crankshaft TDC locking pin	109	
400.1052	Flywheel TDC locking pin	20	
400.1053	Timing chain pre-tensioning tool	219	
400.1054	Camshaft alignment tool (inlet)	262	
400.1055	Sensor gear alignment tool	332	
400.1056	Camshaft alignment tool exhaust (4)	677	
400.1057	Camshaft alignment tool bolt M8 x 25 nn	15	



BMW - Engine Timing Tool Set

- For the professional engine repair Especially for chain-driven vehicles

- For locking the crank shaft or cam shaft Ideal for the installation and removal of the VANOS unit
- $\bullet \, \text{Suitable for tensioning the chain} \\$
- Very high degree of accuracy
 In durable steel storage case

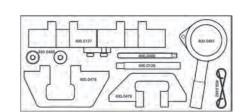
Application range: for all **BMW** vehicles with petrol engines (engine code: M42 / M43 / M50 / M52 / M60) and diesel engines (engine code: M51). Contains a special wrench for controlling the turn of the exhaust cam shaft pinion when removing and installing the VANOS unit There is also a tensioning tool included for tensioning the timing chain

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.0475	11 pcs	BMW - Engine Timing Tool Set	4.08	

consists of:

	Х		g	
400.0126	1	Crankshaft TDC locking pin	109	
400.0127	1	Camshaft locking tool exhaust (2)	900	
400.0478	1	Camshaft locking tool	854	
400.0479	1	Camshaft locking tool	425	
400.0480	1	Primary timing chain pre-load pin (3)	112	
400.0481	1	VANOS unit engagement wrench	357	
400.0482	2	Tensioner locking pin set	3	

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BMW - Engine Timing Tool Set

- · For the professional engine repair
- Expansion set for use in connection with 400.0125
 For changing the timing chain

- Very high degree of accuracy
 In durable steel storage case

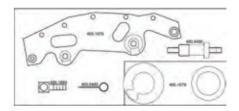
Application range: BMW 528i, X5, E46, Z3, Z4, 325, 525 (engine code: M52 / M54 / M56 / 22 6S1 / 25 6S5 / 30 6S3). Contains a setting gauge from the double VANOS

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			å	
400.1075	7 pcs	BMW - Engine Timing Tool Set	3.56	

consists of:

	x		å
400.0480	1	Primary timing chain pre-load pin (3)	112
400.0482	1	Tensioner locking pin set	3
400.1078	1	Camshaft timing setting tool VANOS	972
400.1079	1	Flywheel sprocket alignment tool	806
400.1080	1	Pneumatic connector	37

BMW - Engine Timing Tool Set

- For the professional engine repair
- · Especially for chain-driven vehicles
- · For locking twin-cam, dual cam shaft
- Very high degree of accuracy
- In durable steel storage case

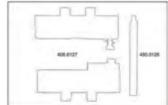
Application range: for all BMW vehicles with petrol engines (engine code: M42 / M43 / M50 / M52 / M60) and diesel engines (engine code: M51)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	
400.0125	3 pcs	BMW - Engine Timing Tool Set	2.66	

consists of:

		ň	
400.0126	Crankshaft TDC locking pin	109	
400.0127	Camshaft locking tool exhaust (2)	900	

BMW / Mini - Engine Timing Tool Set

- For the professional engine repair
- . For locking the cam shaft
- · For changing the timing chain
- Very high degree of accuracy

Application range: BMW Mini (2001-2006) (engine code: W10B16AA/BA)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





	_	·	å
400.9090	7 pcs	BMW / Mini - Engine Timing Tool Set	1.93

consists	OI:		
		8	
400.9091	Camshaft locking tool	575	8
400.9092	Engine support bracket (4)	615	
400,9093	Timing chain pre-tensioning tool	215	

BMW / Mini - Engine Timing Tool Set

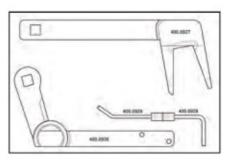
- · For the professional engine repair
- For locking the cam shaft
- · For changing the timing chain
- Very high degree of accuracy
 In durable steel storage case

Application range: BMW Mini One, Cooper, Cooper S with .6 petrol engines (engine code: W10816AA / W10816BA / W11816AA)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.0925	4 pcs	BMW / Mini - Engine Timing Tool Set	2.02	

		å	
400.0926	Serpentine belt tensioner	441	
400.0927	Camshaft pulley loosening tools	421	
400.0928	Tensioning locking pin	19	
400.0929	Locking pin	20	



- For the professional engine repair
- For fixi g the crank shaftSecure fi
- · Very high degree of accuracy

Application range: BMW E81/E82/E87/E88/E46/E60/E61/E83/E90/E91/E92/E93/E65/E66/E53/E70/E71/E72 (engine code: 20 4D 4, 30 6D 2, 30 6D 3, 30 6D 4, 30 6D 5)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



consists	of:

		9	
400.2376	Crankshaft timing tool	52	
400.2377	Crankshaft timing tool	55	

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BMW / Land Rover / Rover - Engine Timing Tool Set

- For the professional engine repair
 For locking the crank shaft or cam shaft

400.2375 2 pcs BMW crank shaft locking tool set

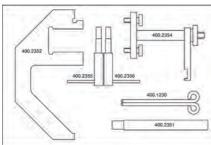
- For changing the timing belt or the timing chain
- · Very high degree of accuracy
- In durable steel storage case

Application range: BMW 1, 3, 5, X3, Land Rover Freelander, Rover 75 (engine code: M47)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.2350	7 pcs	BMW / Land Rover / Rover - Engine Timing Tool Set	1.03	

consists of:

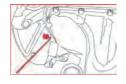
		9	
400.1230	Tensioning locking pin (2)	14	
400.2351	Crankshaft TDC locking pin	108	
400.2352	Camshaft locking tool	461	
400.2354	Camshaft locking holding tool	240	
400.2355	Crankshaft timing tool	52	
400.2356	Crankshaft timing tool	55	

BMW / Mini / PSA - Engine Timing Tool Set

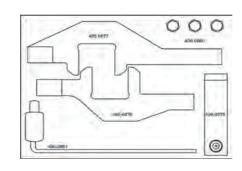
- · For the professional engine repair
- · For locking the cam shaft
- For changing the timing chainVery high degree of accuracy
- In durable steel storage case

Application range: BMW Mini with 1.6 engines (engine code: N14 / R56), **Peugeot** 207, 308 with 1.6 engines (engine code: EP6 / EP6DT / DTS), **Citroën** with 1.6 engines (engine code: EP6 / EP6DT / DTS)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.0875	7 pcs	BMW / Mini / PSA - Engine Timing Tool Set	1.49	

consists of:

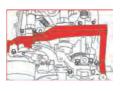
		g	
400.0851	Crankshaft timing pin	52	
400.0876	Camshaft alignment tool (inlet)	270	
400.0877	Camshaft alignment tool (exhaust)	423	
400.0878	Support clamp	93	
400.0880	Screw M6 x 30,0 mm (3)	7	

BMW / Mini / PSA - Engine Timing Tool Set

- For the professional engine repair
- For locking the cam shaft
- For changing the timing chain
- Very high degree of accuracy

Application range: BMW Mini with 1.4 / 1.6 Valvetronic engines (engine code: N12), **Peugeot** 207, 308 with 1.4 / 1.6 engines (engine code: EP3 / EP6), **Citroën** with 1.4 / 1.6 engines (engine code: EP3 / EP6)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





400.0850 7 pcs BMW / Mini / PSA - Engine Timing 1.40				kg	
1001 Set	400.0850	7 pcs	BMW / Mini / PSA - Engine Timing Tool Set	1.40	

consists of:

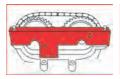
	х		g	
400.0851	1	Crankshaft timing pin	52	
400.0852	1	Camshaft locking tool inlet (2)	812	
400.0853	1	Camshaft locking tool (EX)	358	
400.0854	3	Screwn M6 x 30,0 mm	9	

BMW - Engine Timing Tool Set

- •For the professional engine repair •For locking the cam shaft
- For changing the timing chainVery high degree of accuracy
- In durable steel storage case

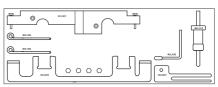
Application range: BMW with 1.6 / 2.0 engines (>2006) (engine codes: N43 / B126A/AA / B16AA / B20KO / B20AY / B20A / B16AA/OO / B20AY / B20UO / B20A / B20A/AA)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.3200	7 pcs	BMW - Engine Timing Tool Set	3.09	

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		9	88
400.1052	Flywheel TDC locking pin Ø 8 mm	20	
400.3203	Balance shaft locking tool	100	- 8
400.3202	Camshaft alignement tool 268 mm	683	
400.3201	VANOS Sensor alignment tool	457	
400.1053	Timing chain pre-tensioning tool Ø 10 mm x 21 mm, 130 mm	219	
400.1486	Tensioner locking pin (2)	29	- 10

BMW / Mini - Engine Timing Tool Set

- For the professional engine repair
- For changing the timing beltVery high degree of accuracy

Application range: BMW Mini with 16V engines (engine code: W16D)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			g	
400.2475	8 pcs	BMW / Mini - Engine Timing Tool Set	126	

consists of:

	Х		g	
400.0165	2	Camshaft locking pin 5.0 mm	19	
400.0580	1	Crankshaft locking pin Ø 8,0 mm, 70 mm	30	
400.2476	1	Flywheel locking pin, BMW-Mini (5)	40	

BMW - Engine Timing Tool Set

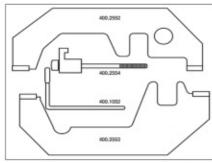
- · For the professional engine repair
- · For chain-driven engines
- Very high degree of accuracy
- · In durable steel storage case

Application range: BMW 5, 6, 7, X5 (engine code: N62 / N73)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			8	
400.2550	4 pcs	BMW - Engine Timing Tool Set	2.74	

consists of:

		å
400.1052	Flywheel TDC locking pin	20
400.2552	Camshaft setting tool (inlet)	698
400.2553	Camshaft setting tool (exhaust)	783
400.2554	Holding screw	105

BMW / Mini - Engine Timing Tool Set

- For the professional engine repair
- · For locking the cam shaft
- For changing the timing chain
 Very high degree of accuracy
- In durable steel storage case

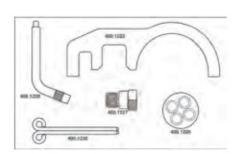
Application range: BMW with 2.0 engines (2007-2010) (engine codes: N47 / N47S), BMW Mini Countryman, Clubman (>2007) (engine code: R55 / R56 / R57 / R60). Contains pumps / pulley wheels disassembly tool

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.1225	6 pcs	BMW / Mini - Engine Timing Tool Set	1.91	

consists of:

		å
400.1226	Crankshaft pulley turning tool	183
400.1227	High pressure pump sprocket removal tool	89
400.1228	Flywheel plate timing pin	109
400.1229	Camshaft alignement tool	242
400.1230	Tensioning locking pin (2)	14

BMW - Engine Timing Tool Set

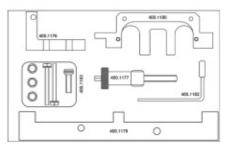
- · For the professional engine repair
- For locking the cam shaft
- · For changing the timing chain
- Very high degree of accuracy
 In durable steel storage case

Application range: BMW (E81/E87) 116i 316i, (E46/E40) 316Ci, (E46) 316Ti with 1.6 engines (engine code: N40 / N45 / N45T)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			No.	
400.1175	8 pcs	BMW - Engine Timing Tool Set	2.70	

		å
400.1176	Camshaft locking tool (inlet)	278
400.1177	Timing chain pre-tensioning tool	55
400.1179	VANOS sensor setting tool	301
400.1180	Camshaft alignment tool (exhaust)	671
400.1182	Flywheel locking pin	20
400.1183	Locking screw (3)	140



BMW - Engine Timing Tool Set

- · For the professional engine repair
- For locking the cam shaft For changing the timing chain
- Very high degree of accuracy
- In durable steel storage case

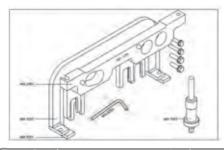
Application range: BMW 323i, 325i, 523i, Z4, X3, 130i, 330i, 530i, 630i, 730i, 528i, X1, 125i, 525i, 740i, X6, 135i, 335i, 3.0 M Coupe with 2.3 / 2.8 / 3.0 / 3.5 / 4.0 engines (engine code: N52 B25A / N52 B25AE / N52 B25AF / N52 B25BE / N52 B25O1 / N52 B25O2 / N52 B30A / N52 B30AF / N52 B30O2 / N52 B30U1 / N52K B25A/O1 / N52K B25AE / N52K B25U1 / N52K B30A / N52K / B30A/O1 / N52K B30AE / N52K B30AF / N53 B25A / N53 B30A / N53 B30A/O0 / N53 B30UO / N54 B30A / N54 B30A/AA / N54 B30A/TO / N54 B30TO)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.3250 5 p	ocs	BMW - Engine Timing Tool Set	5.40	- 3

Consists of:

		å	
400.0253	Locking pin Ø 8.0 mm	41	
400.1053	Timing chain pre-tensioning tool	219	
400.3251	Camshaft alignement tool	1396	
400.3252	Camshaft VANOS sensor alignment tool	527	
400.3254	Camshaft alignement tool	1518	

BMW Vibration damper holding screw set

- · For clamping the crank shaft when loosening and tightening
- the crankshaft central screw Prevents slipping whilst holding
- •With replaceable and tight-fit guide sle ves (Ø 57.0 / 59.5 / 60.5 mm)
- · Minimal force required thanks to extra-long lever
- · Matt finis
- · Chrome vanadium

Application range: When working on the timing drive of BMW M47 TU / TU2 engines with old and new vibration damper design



4.60

911.1720 5 pcs BMW Vibration damper holding screw set

consists of:

	7)	9
911.1721	Extension pipe, 1000 mm	1900
911.1722	Vibration damper holding wrench insert, 22.0 mm	1400
911.1723	Guide sleeve, Ø 57.0 mm	380
911.1724	Guide sleeve, Ø 59.5 mm	440
911.1725	Guide sleeve, Ø 60.5 mm	480

CHRYSLER

Chrysler / Mercedes - Engine Timing Tool Set

- For the professional engine repair
- · For locking the cam shaft
- For changing the timing chain
- Very high degree of accuracyIn durable steel storage case

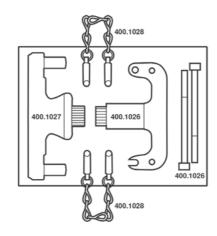
Application range: Mercedes vehicles with 2.2 / 2.7 CRD engines, **Chrysler** PT Cruiser with 2.2 CRD engines, **Jeep** Gran Cherokee with 2.7 CRD engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.1025	6 pcs	Chrysler / Mercedes - Engine Timing Tool Set	1.46	

consists of

		g	
400.1026	Flywheel locking tool (3)	197	
400.1027	Flywheel locking tool	436	
400.1028	Camshaft locking tool (2)	36	

Chrysler - Engine Timing Tool Set

- For the professional engine repair
- For locking the cam shaftVery high degree of accuracy

Application range: Chrysler Voyager, Grand Voyager with 2.5 CRD Common-Rail Diesel engines (engine code: R2516C / R2516I)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			g	
400.2450	7 pcs	Chrysler - Engine Timing Tool Set	514	

consists of:

		g
400.2451	Flywheel locking pin	35
400.2452	Flywheel locking pin	420
400.2453	Camshaft locking pin (inlet)	89
400.2454	Camshaft locking pin (exhaust)	30
400.2455	Camshaft belt holding tool	7
400.9008	Automatic pulley wrench for pin-type face	206

Chrysler - Engine Timing Tool Set

- For the professional engine repair
 For locking the crank shaft and cam shaft
- For changing the timing belt
- Very high degree of accuracy

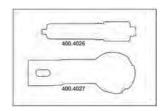
Application range: Jeep Cherokee (2008-2011) with 2.8 CRD (engine code: ENS(51C), Chrysler Grand Voyager (2008-2011) (engine code: VM64C)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			9	
400.4025	2 pcs	Chrysler - Engine Timing Tool Set	500	

		9	
400.4026	Crankshaft locking tool	160	
400.4027	Camshaft locking tool	340	

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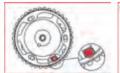
CITROËN

PSA - Engine Timing Tool Set

- · For the professional engine repair
- For changing the timing belt
 Very high degree of accuracy
- In durable steel storage case

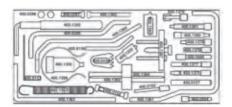
Application range: Citroën, Peugeot vehicles with HPi and HDi engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	- 4
400.1650	34 pcs	PSA - Engine Timing Tool Set	2.17	

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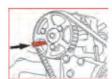
		9	
400.0153	Tensioner adjuster, square 8.0 mm	6	
400.0156	Crankshaft timing pin Ø 6,0 mm	23	
400.0157	Crankshaft locking pin Ø 6.0 mm, short (2)	101	
400.0158	Crankshaft locking pin (2)	30	- 3
400.0165	Camshaft locking pin 5.0 mm	19	
400.0285	Crankshaft locking pin Ø 8,0 mm	97	
400.0286	Screw M8 x 35 mm (2)	16	
400.0436	Flywheel locking tool	135	
400.0554	Locking pin Ø 6.0 mm	19	
400.0580	Crankshaft locking pin Ø 8,0 mm	30	
400.1355	Flywheel locking pin	80	
400.1356	Flywheel locking tool	252	
400.1360	Flywheel locking tool	82	
400.1361	Flywheel locking tool	146	
400.1362	Locking screw M8 x 70.0 mm	31	
400.1363	Flywheel locking pin with spring	126	
400.1375	Injection pump timing pin, M8	32	
400.1376	Camshaft locking pin	24	
400.1377	Tensioning locking pin	35	
400.1378	Camshaft locking pin (2)	21	
400.1379	Camshaft locking pin	37	
400.1380	Camshaft locking pin	43	
400.1381	Camshaft locking pin (VTC)	50	
400.1382	Tensioner adjuster	115	
400.1383	Flywheel locking tool	30	
400.1384	Tensioner adjuster	118	
400.1385	Tensioner adjuster, hex Ø 8.0 mm	177	
400.1386	Belt retaining tool	50	
400.1387	Crankshaft pulley remover	153	

PSA - Engine Timing Tool Set

- · For the professional engine repair
- For changing the timing belt
 Very high degree of accuracy
- · In durable steel storage case

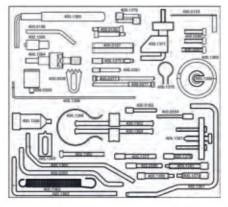
Application range: PSA vehicles including 2nd generation with EW 16V and 2.5 / 2.7 / 2.8 diesel engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	
400.1350	45 pcs	PSA - Engine Timing Tool Set	5.93	

	X		o .
400.0153	1	Tensioner adjuster, square 8.0 mm	6
400.0156	1	Crankshaft timing pin Ø 6,0 mm	23
400.0157	1	Crankshaft locking pin Ø 6.0 mm, short (2)	101
400.0158	1	Crankshaft locking pin (2)	30
400.0165	2	Camshaft locking pin 5.0 mm	19
400.0285	1	Crankshaft locking pin Ø 8,0 mm	97
400.0286	1	Screw M8 x 35 mm (2)	16
400.0287	1	Screw M8 x 40,0 mm	18
400.0377	1	Camshaft sprocket locking pin (2)	68
400.0380	1	Flywheel locking tool	222
400.0381	1	Coolant Pump tensioning locking pin	30
400.0436	1	Flywheel locking tool	135
400.0554	1	Locking pin Ø 6.0 mm	19
400.0580	1	Crankshaft locking pin Ø 8,0 mm	30
400.1355	1	Flywheel locking pin	80

consists of:

	X		å
400.1356	1	Flywheel locking tool	252
400.1360	1	Flywheel locking tool	82
400.1361	1	Flywheel locking tool	146
400.1362	1	Locking screw M8 x 70.0 mm	31
400.1363	1	Flywheel locking pin with spring	126
400.1364	1	Flywheel locking pin	215
400.1365	1	Tensioner pulley adjusting tool	330
400.1366	1	Tensioner adjuster, square, 6.0 mm	44
400.1370	1	Crankshaft sprocket centraliser	2
400.1371	1	Belt retaining tool	99
400.1375	1	Injection pump timing pin, M8	32
400.1376	1	Camshaft locking pin	24
400.1377	1	Tensioning locking pin	35
400.1378	1	Camshaft locking pin (2)	21
400.1379	1	Camshaft locking pin	37
400.1380	1	Camshaft locking pin	43
400.1381	1	Camshaft locking pin (VTC)	50
400.1382	1	Tensioner adjuster	115
400.1383	1	Flywheel locking tool	30
400.1384	1	Tensioner adjuster	118
400.1385	1	Tensioner adjuster, hex Ø 8.0 mm	177
400.1386	1	Belt retaining tool	50
400.1387	1	Crankshaft pulley remover	153
400.1388	1	Tensioner adjuster	41

BMW / Mini / PSA - Engine Timing Tool Set

- For the professional engine repair
 For locking the cam shaft

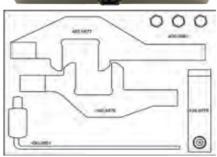
- For changing the timing chain
 Very high degree of accuracy
- In durable steel storage case

Application range: BMW Mini with 1.6 engines (engine code: N14 / R56), Peugeot 207, 308 with 1.6 engines (engine code: EP6 / EP6DT / DTS), Citroën with 1.6 engines (engine code: EP6 / EP6DT / DTS)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







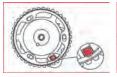
			8	
400.0875	7 pcs	BMW / Mini / PSA - Engine Timing Tool Set	1.49	

Contains of						
		9				
400.0851	Crankshaft timing pin	52				
400.0876	Camshaft alignment tool (inlet)	270				
400.0877	Camshaft alignment tool (exhaust)	423				
400.0878	Support clamp	93				
400.0880	Screw M6 x 30,0 mm (3)	7				

- For the professional engine repair
- · For changing the timing belt
- Very high degree of accuracyIn durable steel storage case

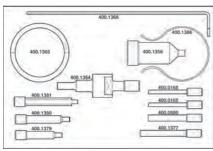
Application range: Citroën Xsara, Picasso, C5, C4, Evasion, Synergie, C8, Jumpy, Dispatch, **Peugeot** 206, 307, 406, 607, 806, 807, Expert (engine code: EW12J4(3FC) EW10D-HPI(RLZ) / EW10J4S(RFK) / EW10J4(RFN/RFR) / EW7J4(6FZ)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.1750	12 pcs	PSA - Engine Timing Tool Set	1.26	

consists of:

		9	
400.0165	Camshaft locking pin 5.0 mm	19	
400.0580	Crankshaft locking pin Ø 8,0 mm	30	
400.1356	Flywheel locking tool	252	
400.1364	Flywheel locking pin	215	
400.1365	Tensioner pulley adjusting tool	330	
400.1366	Tensioner adjuster, square, 6.0 mm	44	
400.1377	Tensioning locking pin	35	
400.1379	Camshaft locking pin	37	
400.1380	Camshaft locking pin	43	
400.1381	Camshaft locking pin (VTC)	50	
400.1386	Belt retaining tool	50	

PSA crank shaft locking tool set

- For the professional engine repair
- For fixing the crank shaftContains special square wrench for adjusting the timing belt on the automatic pulley
- · For changing the timing belt
- Secure hold for changing the timing belt or engine repairs
- · Very high degree of accuracy

Application range: Citroën AX with 1.0/1.1 and 1.4 engines, BX 16, BX 19, BX 16 valve, **Peugeot** 106, 205, 405 with 1.0/1.1 and 1.4 engines, **Peugeot** 205, 305, 309, 405 with 1.6 and 1.9 engines, 309 GTI, 405 Mi1,6

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			g	
400.0200	6 pcs	PSA crank shaft locking tool set	235	

consists of:

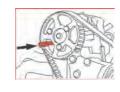
		g	
400.0153	Tensioner adjuster, square 8.0 mm	6	
400.0156	Crankshaft timing pin Ø 6,0 mm	23	
400,0157	Crankshaft locking pin Ø 6.0 mm, short (2)	101	
400.0158	Crankshaft locking pin (2)	30	

Fiat / GM / Opel / PSA / Renault - Engine Timing Tool Set

- For the professional engine repair
- For changing the timing belt
- · Very high degree of accuracy

Application range: Fiat, PSA, Renault, Opel vehicles with

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			9	
400.1775	4 pcs	Fiat / GM / Opel / PSA / Renault - Engine Timing Tool Set	143	

consists of:

		g	
400.0165	Camshaft locking pin 5.0 mm	19	
400.0754	Camshaft locking pin	51	
400.1388	Tensioner adjuster	41	

PSA - Valve spring compressor

- For the professional engine repair
- For retaining the valve springs
- Universal usage
- Includes 8 screws with pressure cone and 2 locking screws
- Chrome vanadium
- · Very high degree of accuracy

Application range: Citroën Berlingo, Xsara petrol engines with 1.0, 1.1, 1.4, 1.6l, and **Peugeot** 106, 205, 206, 306, 307, 405 with petrol engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	Suitable for	Length mm	kg	
400.9001	PSA	390.0	2.50	

Fiat / PSA - Engine Timing Tool Set

- · For the professional engine repair
- For adjusting the valve controls For twin cam shaft systems with timing belt/chain combina-· Very high degree of accuracy
- In durable steel storage case

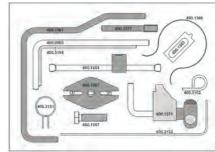
Application range: Citroën and Fiat with 2.0 / 2.2 SOHC and DOHC engines (engine code: DW10 / DW12)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			9	
400.3150	12 pcs	Fiat / PSA - Engine Timing Tool Set	814	

consists of:

		9	
400.0903	Crankshaft locking pin	85	
400.1361	Flywheel locking tool	146	
400.1371	Belt retaining tool	99	

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consists of:

		•
9 98		9
400.1377	Tensioning locking pin	35
400.1383	Flywheel locking tool	30
400.1384	Tensioner adjuster	118
400.1386	Belt retaining tool	50
400.1387	Crankshaft pulley remover	153
400.3102	Tensioner locking pin	4
400.3151	Crankshaft pulley centralisation tool	2
400.3152	Tensioner locking pin	7
400.3154	Auxiliary drive belt tensioner locking pin Ø 4.0 mm	18

PSA - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the crank shaft or cam shaft
- . For changing the timing belt
- Very high degree of accuracy

Application range: PSA vehicles with 1.4 8V and 16V engines (engine code: KFU)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



consists of:

		å	
400.0156	Crankshaft timing pin Ø 6,0 mm	23	
400.0157	Crankshaft locking pin Ø 6.0 mm, short (2)	101	
400.0165	Camshaft locking pin 5.0 mm	19	
400.0580	Crankshaft locking pin Ø 8,0 mm	30	
400.1386	Belt retaining tool	50	
400.3101	Flywheel locking pin Ø 6.0 mm, long	58	
400.3102	Tensioner locking pin	4	

BMW / Mini / PSA - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the cam shaft
- For changing the timing chain
- Very high degree of accuracy

Application range: BMW Mini with 1.4 / 1.6 Valvetronic engines (engine code: N12), Peugeot 207, 308 with 1.4 / 1.6 engines (engine code: EP3 / EP6), Citroën with 1.4 / 1.6 engines (engine code: EP3 / EP6)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



1 15			kg.	
400.0850	7 pcs	BMW / Mini / PSA - Engine Timing Tool Set	1.40	

consists of:

	X		8	
400.0851	1	Crankshaft timing pin	52	
400.0852	1	Camshaft locking tool inlet (2)	812	
400.0853	1	Camshaft locking tool (EX)	358	
400.0854	3	Screwn M6 x 30,0 mm	9	

PSA / Renault - Engine Timing Tool Set

- · For the professional engine repair
- For changing the timing belt
- · Very high degree of accuracy
- In durable steel storage case

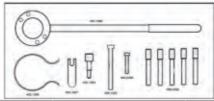
Application range: Citroën XM, Peugeot 605, Renault Safrane, Espace (engine code: L7X 700 / 701 / 713 / 727 / 731 / XFZ / ES9J4)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			10	
400.1900	11 pes	PSA / Renault - Engine Timing Tool Set	2.31	

consists of:

	X		å	
400.0286	1	Screw M8 x 35 mm (2)	16	
400.0580	5	Crankshaft locking pin Ø 8,0 mm	30	
400.1362	1	Locking screw M8 x 70.0 mm	31	
400.1386	1	Belt retaining tool	50	
400.1904	1	Gauge pin	14	
400.1906	1	Camshaft locking tool	896	

PSA / Toyota timing belt tensioning tool

- · For the professional engine repair
- •7.0 mm square
- Suitable for pre-tensioning timing belt tensioner on the automatic pulley
- Chrome vanadium
- Very high degree of accuracy

Application range: universal usage on many Peugeot and Toyota vehicles

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	Substitute for	Sangh sten	å	
150.3011	PSA, Toyota	157.0	80	

PSA timing belt tensioning tool

- · For the professional engine repair
- •8.0 mm square
- Suitable for pre-tensioning timing belt tensioner on the automatic pulley
- · Chrome vanadium
- · Very high degree of accuracy

Application range: universal usage on many Peugeot vehicles

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



150.3014 PSA 157.0 100

Universal fly whe I locking tool set

- · For the professional engine repair
- · For locking the fly whe Is
- · Secure hold thanks to optimal positioning
- Special plastic
- Very high degree of accuracy

A Fly wheel Locking device for: Citroën: Synergie 2.0/
Turbo.ZX 1.9D/TD, Xantia 1.9D/TD, Berlingo 1.9D, Dispatch
1.9D/TD, Synergie1.9D, Relay 1.9D/TD, Flat: Ulysse, 2.0/Turbo
Ducato 2.0, FSO: 1.9D, LDV: 200 1.9D, Pilot 1.9D, Peugeot:
205 1.6/1.9, 305 1.6/1.9, 309 1.6/1.9, 405 1.6/1.9, 405 1.8/2.0
(92-), 605 2.0, Boxer 2.0, c205 1.8/1.9D, 305 1.8/1.9D, 306
1.8/1.9D/TD, 309 1.8/1.9D 1.8TD, 405 1.8/D, 405 1.9/D, 406
1.9D, Partner 1.9D, Talbot / Horizon / Solara 1.9D, J5/Talbot
Express 1.9D, 605D/TD, 806 1.9TD, Expert 1.9D, Boxer 1.9D/
TD, Renault: R5, 1.6D, R9 1.6D, 411 1.6D Express/Extra
1.6D-F8M diesel engines, Clio, Express/Extra, 1.9D earlier
F8Q diesel engines, Espace 2.1D, R21 2.1D, R25 2.1D, Trafic
Master 2.1D-J8S diesel engines, Clio 1.2/1.4, Express/Extra
1.91 1.4, Megane/Scenic 1.4/1.6-E7F/E7J petrol engines, R5
1.7, Clio 1.7/1.8, R19 1.7, R21 1.7 1.7 Megane/Scenic 2.0,
Laguna 1.8/2.0, Trafic .7-F3M/F3P/F2R petrol engines, Clio,
Williams, R19, Megane 2.0 16V Twin-Cam R7P/F7R engines,
Laguna/ Safrane 2.0 16V Twin-Cam N7Q/N7U engines

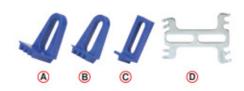
B Fly wheel Locking device for: Renault: Clio, Twingo, Kangoo, Megane/Scenic, 1.2/1.6 D7F + K7M Petrol engine, Megane/Scenic, Kangoo 1.9D FBQ + F9Q Diesel engine (direct injection)

C Fly wheel Locking device for: Citroën: Xsara, Xantia 1.8/2.0XU7 JP/JB petrol engines, Xsara 1.8 16V XU7 JP4 twin cam shaft engines, ZX.Xantia, XM2.0 16V XU10J4 twin cam shaft engines, Xantia 1.9D/TD XUD9BTF diesel engines, Xantia, XM2.1TD XUD 11BTE diesel engines, Peugeot: 406, 1.8/2.0 XU7 JP/JB Petrol engine, 406 1.8 16V XU7 JP4 Double cam shaft engines, 306, 405, 605 2.0 16V XU10J4 Double cam shaft engines, 406, 1.9D/TD XUD9BTF Diesel engines, 406, 605 2.1 TD XUD 11BTE Diesel engines

D Fly wheel Locking device for Vauxhall/Opel: 1.2, 1.4, 1.6, 1.8, 2.0 OHC Petrol engines, 1.6D & 1.7, OHC Diesel engines, 1.5 & 1.7 OHE Diesel(Isuzu)-Engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			å	
150.3025	4 pcs	Universal fly whe I locking tool set	30), a

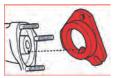
FIAT

Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set

- *For the professional engine repair
- For locking the crank shaft and cam shaft
 Suitable for pre-tensioning timing belt tensioner on the automatic pulley
- For changing the timing belt Very high degree of accuracy
- · In durable steel storage case

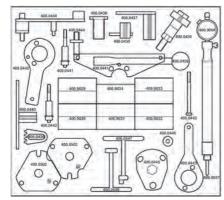
Application range: universal usage on many Italian vehicles, in particular **Alfa Romeo, Fiat, Lancia** vehicles with 1.4 / 1.6 / 1.8 / 2.0 / Twinspark 1.2 / 1.4 / 1.6 / 1.8 16 V petrol engines 1.6 / 1.8 / 1.9D / TD / 2.0 / 2.1 12V / 2.4 diesel engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









Alfa Romeo / Fiat / Lancia - Engine 7.57				kg	
Timing Tool Set 7.57	400.0425	34 pcs	Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	7.57	

consists of:

		g	
400.0428	Tensioning tool - pry	170	
400.0435	Flywheel locking tool	57	
400.0436	Flywheel locking tool	135	
400.0437	Flywheel locking tool	100	
400.0438	Flywheel locking tool	51	
400.0439	Flywheel locking tool	317	
400.0440	Flywheel locking tool	136	
400.0441	Crankshaft timing tool (2)	154	
400.0442	Crankshaft timing tool (2)	154	
400.0443	Crankshaft timing tool (3)	160	
400.0444	Tensioning tool	240	
400.0445	Camshaft locking tool (2)	530	
400.0446	Balancer shaft belt tensioning tool	97	
400.0447	Tensioning tool - pry	70	
400.0502	Camshaft locking tool (2)	400	
400.9004	Precision-dial indicator gauge 0 - 10 mm	78	
400.9027	TDC determining pin Ø 5,0 mm / dial indicator bracket M14 x 1.25	288	
400.9029	Camshaft locking tool (2)	276	
400.9030	Camshaft locking tool (2)	251	
400.9031	Camshaft locking tool (2)	272	
400.9032	Camshaft locking tool (2)	269	
400.9033	Camshaft locking tool (2)	276	
400.9034	Crankshaft timing tool	178	

Alfa Romeo / Fiat / Lancia camshaft alignment tools

- For the professional engine repair
- For locking the cam shaft wheels (TDC position) Secure hold thanks to optimal positioning
- Very high degree of accuracy

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







	X	Suitable for	å
400.9031	2	Barchetta, Coupe 1.8 16v (> 1996)	272
400.9032	2	Brava, Bravo, Marea, Marea Week- end 1.8 16v (> 1995)	269
400.9033	2	Bravo, Marea, Marea Weekend, Coupe 2.0 20v (> 1994)	276
400.9034	1	Brava, Bravo 1.4 12v (> 1995) Lancia Ypsilon 1.4 12v (1996 - 1999)	178
400.9035	2	Lancia Kappa 2.0 2.4 20v (1994 – 1997), Stilo 2.4 20v (> 2001)	269
400.9036	2	Bravo, Marea, Marea Weekend, Coupe 2.0 20v (> 1994)	280

Fiat / Ford / Opel /Suzuki - Engine Timing Tool Set

- *For the professional engine repair
- •Especially for chain-driven engines •For changing the steering chain
- Very high degree of accuracy
- In durable steel storage case

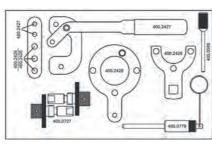
Application range: Fiat 1.3 JTD, Opel 1.3 CDTI, Ford 1.3 TDCi, Suzuki (engine code: Z13DT)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









8			kg	
400.2425	12 pcs	Fiat / Ford / Opel /Suzuki - Engine Timing Tool Set	1.12	

consists of:

		g	
400.0580	Crankshaft locking pin Ø 8,0 mm	30	
400.0727	Camshaft locking tool (2)	130	
400.0779	Crankshaft locking tool	80	
400.2426	Cranshaft pulley fla ge holding tool (4)	88	
400.2427	Timing chain tensioning tool (3)	171	
400.2428	Flywheel timing position tool	398	

Fiat / Iveco - Engine Timing Tool Set

- For the professional engine repair
 For locking the crank shaft and cam shaft
- For changing the timing belt
- · Very high degree of accuracy

Application range: Fiat Ducato, Iveco Daily with 2.3 / 3.0 JTF engines (engine code: F1AE0481C, F1AE0481D, F1AE0481N, F1CE0481D)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			9	
400.0400	5 pcs	Fiat / Iveco - Engine Timing Tool Set	518	

consists of:

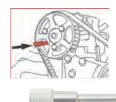
		g	
400.0161	Crankshaft TDC locking pin	75	
400.0165	Camshaft locking pin 5.0 mm	19	
400.0401	Camshaft aligning tool (2)	70	
400.0402	Crankshaft timing pin	200	

Fiat / GM / Opel / PSA / Renault - Engine Timing Tool Set

- •For the professional engine repair •For changing the timing belt
- · Very high degree of accuracy

Application range: Fiat, PSA, Renault, Opel vehicles with 2.5 / 2.8D engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			9
400.1775	4 pcs	Fiat / GM / Opel / PSA / Renault - Engine Timing Tool Set	143

consists of:

		g	
400.0165	Camshaft locking pin 5.0 mm	19	
400.0754	Camshaft locking pin	51	
400.1388	Tensioner adjuster	41	

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Citroën / Fiat - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the cam shaft and the diesel pump
- · Very high degree of accuracy

Application range: Citroën C15, Relais, Visa, Xantia, XM, Xsara, ZW, Fiat Ducato, Scudo, Ulysse

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			å	
400.1700	4 pcs	Citroën / Flat - Engine Timing Tool Set	199	

consists of:

		8	
400.0285	Crankshaft locking pin Ø 8,0 mm	97	
400.0286	Screw M8 x 35 mm (2)	16	
400.0287	Screw M8 x 40,0 mm	18	

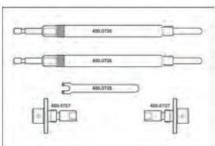
Alfa Romeo / Fiat - Engine Timing Tool Set

- . For the professional engine repair
- · For locking the cam shaft
- Very high degree of accuracy
 In durable steel storage case

Application range: Alfa Romeo Giulietta, Mito, Fiat 500, Brava, Bravo, Grande Punto, Marea, Marea Weekend, Marengo, Palio Weekend, Panda, Punto Classic, Ritmo, Stilo, Idea, Lancia Delta, Susa, Ypsilon with 1.2 16V engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			å	
400.0725	5 pcs	Alfa Romeo / Fiat - Engine Timing Tool Set	989	

1		å	
400.0726	Piston height gauge (2)	250	
400.0727	Camshaft locking tool (2)	130	
400.0728	Tensioner adjusting tool	30	

Fiat - Engine Timing Tool Set

- · For the professional engine repair
- For locking the cam shaft
- · For changing the timing belt
- · Very high degree of accuracy

Application range: Fiat Brava, Bravo with 1.4 12V engines (engine code: 182 A3.000 / 182 A5.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			8	
400.0525	4 pcs	Flat - Engine Timing Tool Set	286	

consists of:

		Ŏ	
400.0441	Crankshaft timing tool (2)	154	
400.0448	Crankshaft locking pin	126	
400.9034	Crankshaft timing tool	178	



Fiat - Engine Timing Tool Set

- · For the professional engine repair
- ·For changing the timing belt
- Very high degree of accuracy

Application range: Fiat with 1.7D, TD engines (engine code: 184 B3.000 / 176 A3.000 / 176 A5.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			8	
400.2000	4 pcs	Flat - Engine Timing Tool Set	619	

		å	
400.0443	Crankshaft timing tool (3)	160	
400.0451	Camshaft locking plate	530	

Fiat - Engine Timing Tool Set

- · For the professional engine repair
- For changing the timing belt
 Very high degree of accuracy

Application range: Fiat Tipo, Tempra, Ducato (engine code: 149 B1.000 / 160 A6.000 / 160 A7.000 / 160 D1.000 / 230 A2.000 / 230 A3.000 / 230 A4.000 / 280 B1.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			å	
400.2025	4 pcs	Flat - Engine Timing Tool Set	629	

		å	
400.0443	Crankshaft timing tool (3)	160	
400.0452	Camshaft locking plate	530	

Fiat - Engine Timing Tool Set

- · For the professional engine repair
- · For changing the timing belt · Very high degree of accuracy

Application range: Fiat Tipo, Tempra, Ducato with 1.9 TD

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			8	
400.2050	4 pcs	Flat - Engine Timing Tool Set	586	

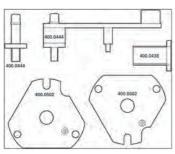
		å	
400.0443	Crankshaft timing tool (3)	160	
400.0453	Camshaft locking plate	530	- 8

- •For the professional engine repair
- For locking the double cam shaftSuitable for pre-tensioning the timing belt tension
- Very high degree of accuracy
 In durable steel storage case

Application range: Fiat Brava, Bravo, Marea, Marea weekend, Multipla, Palio (> 1995) with 1.6 engines. With the tensioning tool the connecting screws can be exchanged from M8 to M10 for one another.

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			kg	
400.0500	5 pcs	Fiat - Engine Timing Tool Set	1.87	

consists of:

		g	
400.0438	Flywheel locking tool	51	
400.0444	Tensioning tool	240	
400.0502	Camshaft locking tool (2)	400	

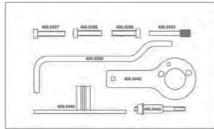
Fiat / Peugeot - Engine Timing Tool Set

- For the professional engine repair
- For locking the crank shaft and cam shaftFor changing the timing belt
- · Very high degree of accuracy
- In durable steel storage case

Application range: Fiat Brava, Bravo, Marea, Marea (sic) and Peugeot with 1.9 D/TD engines (> 1996)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			kg	
400.0550	8 pcs	Fiat / Peugeot - Engine Timing Tool Set	1.25	

consists of:

		9	
400.0285	Crankshaft locking pin Ø 8,0 mm	97	
400.0286	Screw M8 x 35 mm (2)	16	
400.0287	Screw M8 x 40,0 mm	18	
400.0440	Flywheel locking tool	136	
400.0442	Crankshaft timing tool (2)	154	
400.0554	Locking pin Ø 6.0 mm	19	

Fiat - Engine Timing Tool Set

- •For the professional engine repair •For locking the cam shaft
- For changing the timing belt
- · Very high degree of accuracy

Application range: Fiat Punto, Tipo, Tempra, Ducato with 1.7 D/TD / 1.9 D / 1.9 TD diesel engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			kg	
400.0450	4 pcs	Fiat - Engine Timing Tool Set	1.53	

	Х		9	
400.0445	1	Camshaft locking tool (2)	530	
400.0452	2	Camshaft locking plate	530	



Fiat / Ford - Engine Timing Tool Set

- For the professional engine repairFor locking the cam shaft
- For changing the timing beltVery high degree of accuracy
- In durable steel storage case

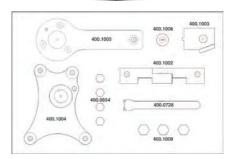
Application range: Fiat 500, Idea, Linea, Punto, Doblo, Panda, Ford Ka with 1.2 / 1.4 8V engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.1000	13 pcs	Fiat / Ford - Engine Timing Tool Set	1.99	

consists of:

	Х		g	
400.0728	1	Tensioner adjusting tool	30	
400.0854	4	Screwn M6 x 30,0 mm	9	
400.1002	- 1	Camshaft setting strap	80	
400.1003	1	Camshaft locking tool M10	86	
400.1004	1	Camshaft cover locking tool	300	
400.1005	1	Crankshaft locking tool	7	
400.1006	- 1	Screw M10 x 20,0 mm	22	
400.1009	3	Locking screw M8 x 20.0 mm	11	

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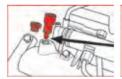


Alfa Romeo / Fiat - Engine Timing Tool Set

- · For the professional engine repair
- For locking the crank shaft or cam shaft and injection pump
 Very high degree of accuracy
- In durable steel storage case

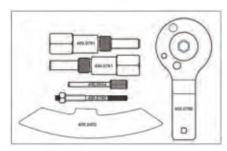
Application range: Fiat vehicles with 1.6 / 1.9 / 2.4 JTD Multijet diesel engines, **Alfa Romeo** with 2.0 JTD diesel engines (engine code: 939B3.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





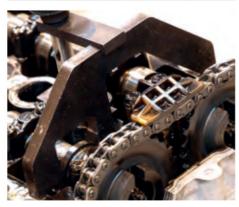




			8	
400.2400	7 pes	Alfa Romeo / Flat - Engine Timing Tool Set	1.46	

consists of:

		å	_
400.0554	Locking pin Ø 6.0 mm	19	
400.0780	Crankshaft pulley setting tool (3)	260	
400.0781	Camshaft timing pin set (2)	180	_
400.2402	Flywheel sprocket alignment tool	130	Ī



Fiat / PSA - Engine Timing Tool Set

- · For the professional engine repair
- · For adjusting the valve controls
- · For twin cam shaft systems with timing belt/chain combina-
- · Very high degree of accuracy
- · In durable steel storage case

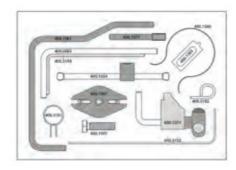
Application range: Citroën and Fiat with 2.0 / 2.2 SOHC and DOHC engines (engine code: DW10 / DW12)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









	_	,	å	_
400.3150	12 pcs	Fiat / PSA - Engine Timing Tool Set	814	

		å	
400.0903	Crankshaft locking pin	85	
400.1361	Flywheel locking tool	146	
400.1371	Belt retaining tool	99	
400.1377	Tensioning locking pin	35	
400.1383	Flywheel locking tool	30	
400.1384	Tensioner adjuster	118	
400.1386	Belt retaining tool	50	
400.1387	Crankshaft pulley remover	153	
400.3102	Tensioner locking pin	4	
400.3151	Crankshaft pulley centralisation tool	2	
400.3152	Tensioner locking pin	7	
400.3154	Auxiliary drive belt tensioner locking pin Ø 4.0 mm	18	

Fiat / Iveco / PSA - Engine Timing Tool Set

- · For the professional engine repair
- For locking the cam shaft or fly whe Is
 Very high degree of accuracy
- · In durable steel storage case

Application range: Fiat Ducato 2.8 TD, JTD, Iveco 2.8 D, TDI, Citroën Relay, Jumper, Peugeot Boxer, Boxer II (engine code: 8140,43 / 8140.43N / 8140.43S / 8140,63)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			8	
400.3000	6 pcs	Fiat / Iveco / PSA - Engine Timing Tool Set	200	

consists of:

		å	
400.0165	Camshaft locking pin 5.0 mm	19	
400.1377	Tensioning locking pin	35	
400.1388	Tensioner adjuster	41	
400.3001	Flywheel holding tool (2)	106	

Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set

- · For the professional engine repair
- · Especially for chain-driven engines
- · Very high degree of accuracy In durable steel storage case

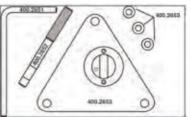
Application range: Fiat Panda, Punto, 500, 500c, Alfa Romeo Mito, Lancia Ypsilon (engine code: 313A2.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			S.	
400.2850	6 pcs	Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	1.60	

		å	
400.2851	Flywheel locking tool	460	
400.2852	Pulley locking pin	550	
400.2853	Camshaft Locking Plate with screws	490	

- · For the professional engine repair
- For locking the crank shaft
- ·For changing the timing belt
- Very high degree of accuracy
- · In durable steel storage case

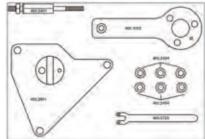
Application range: Alfa Romeo Mito, Giulietta MultiAir 105, MultiAir Turbo 135, 163 / 170 (2009-2013) Fiat Punto Evo, Punto, Bravo (2009-2013) Lancia Delta (2010-2013) - (engine code: 955A6.000 / 955A7.000 / 955A8.000 / 955A2.000 / 940A2.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	
400.2900	10 pcs	Alfa Romeo / Flat / Lancia - Engine Timing Tool Set	1.40	

consists of:

		å	
400.0728	Tensioner adjusting tool	30	
400.1005	Crankshaft locking tool	7	
400.2403	Stud assembly	33	
400.2404	Socket head screw M8 x 20 mm	13	
400.2901	Tensioner adjusting tool	504	

Fiat tension pulley wrench

- Eccentric
- · Suitable for the assembly and disassembly of the timing belt
- ·For adjusting the timing belt tension on the automatic pulley
- Not suitable for balancing belts
- ·With t-handle
- ·With plastic-coated handle
- Chrome vanadium

Application range: Fiat Brava, Bravo and Marea with 1.8L 16V engines >1996, Fiat Barchetta Coupe 1.8L 16V engine >1996

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





	Suitable for	Length mm	9	
150.1254	Fiat	95.0	80	



Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set

- For the professional engine repairFor changing the timing belt
- Very high degree of accuracyIn durable steel storage case

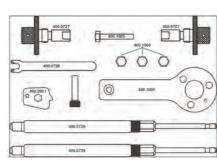
Application range: Alfa Romeo Giulietta, MiTo Fiat 500, Brava, Bravo, Grande Punto, Marea, Marea Weekend, Marengo, Palio Weekend Panda, Punto, Punto Classic, Ritmo, Stilo, Idea Lancia Delta, Musa, Ypsilon

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.2950	12 pcs	Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	1.22	

	Х		g	
400.0726	- 1	Piston height gauge (2)	250	
400.0727	1	Camshaft locking tool (2)	130	
400.0728	1	Tensioner adjusting tool	30	
400.1005	5	Crankshaft locking tool	7	
400.2951	1	Camshaft pulley holding tool(2)	126	

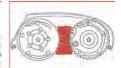
Alfa Romeo / Fiat / GM / Opel - Engine Timing Tool Set

- For the professional engine repair
- For changing the timing beltVery high degree of accuracy

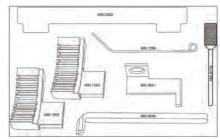
Application range: Chevrolet Cruze, Orlando with 1.4 / 1.6 / 1.8 engines, **Opel** Astra-G, Astra-H, Corsa-D, Insignia, Meriva, Signum, Vectra-C, Zafi a-B, **Fiat** Croma, **Alfa Romeo** 159 (engine code: Z / A / 939A4.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			g	
400.3050	7 pcs	Alfa Romeo / Fiat / GM / Opel - Engine Timing Tool Set	424	

consists of:

		g	
400.0778	Locking pin	20	
400.1255	Camshaft locking tool (2)	56	
400.1256	Tensioner locking pin	3	
400.3051	Flywheel holding tool	32	
400.3052	Camshaft Locking Bar	148	
400.9046	Flywheel locking tool	80	



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FORD

Ford / VAG - Engine Timing Tool Set

- · For the professional engine repair
- For locking the cam shaft
- · For changing the timing belt or the chain
- Very high degree of accuracy
 In durable steel storage case

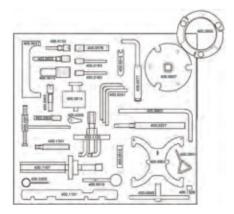
Application range: Ford vehicles with TDDi / TDCi and Duratorq engines and Ford Galaxy with similar engines to Volkswagen

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	
400.1300	31 pcs	Ford / VAG - Engine Timing Tool Set	6.68	

consists	or:		
		å	
400.0155	Crankshaft timing pin	240	
400.0165	Camshaft locking pin 5.0 mm	19	
400.0251	Injection pump locking pin Ø 6.0 mm	30	
400.0257	Crankshaft TDC locking pin	124	
400.0258	Shim tool (2)	3	
400.0355	Tensioner pushrod retension pin	1	
400.0576	Flywheel locking pin	64	
400.0577	Flywheel locking tool	124	
400.0603	Crankshaft timing pin	51	
400.0609	Flywheel locking tool	308	

		8
400.0615	Crankshaft pulley setting tool	190
400.0616	Flywheel locking adaptor	74
400.0806	Locking tool	45
400.0807	Pump cover locking tool	2
400.0901	Tensioning locking pin	4
400.0902	Camshaft locking tool	384
400.0903	Crankshaft locking pin	85
400.0904	Camshaft/injection pump locking pin	26
400.0905	Crankshaft locking pin	33
400.1101	Camshaft setting strap	140
400.1105	Camshaft sprocket puller	552
400.1106	Fuel sprocket remover	80
400.1107	Chain cover alignment tool	497
400.1301	TX T45 bit	31
400.1309	Flywheel locking adaptor	13
400.9015	Injection pump locking pin Ø 15.4 mm	126
400.9017	Camshaft setting strap	120
400.9018	Injection pump locking pin Ø 6.0 mm	20
400.9019	Tensioner locking tool	20

Ford pulley wheel counter hold wrench

- · For the professional engine repair
- ·Simple assembly and disassembly of the crank shaft pulley wheel
- ·Special profile opposi e to the screw head
- Long lever
- · With plastic-coated handle
- Chrome vanadium
- · Very high degree of accuracy

Application range: Ford Mondeo, Transit from 2001 onwards with 2.0 / 2.4 / 3.2 Duratorq TDCi engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





	Suitable for	Congh mm	8	
400.9003	Ford	600.0	1.55	

Ford fan hub wrench

- · For the professional engine repair
- Simple assembly and disassembly of the Visco coupling rotor ·Makes it possible to secure the pulley wheel of the water
- pump and at the same time release the heating fil er
- Very high degree of accuracy

Application range: Ford Transit (2001 - 2006)



1	Suitable for	Pri key mm	8	
400.9014	Ford	69.0	133	

Ford / Mazda - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the crank shaft or cam shaft
- · For changing the timing belt
- Very high degree of accuracy
 In durable steel storage case

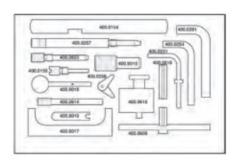
Application range: Ford and Mazda vehicles with 1.2 / 1.3 / 1.4 / 1.6 SOHC and 1.6 / 1.8 / 2.0 16V petrol engines, 1.8 / 1.9 D/TD / 1.9 TDi / 2.5 TDi diesel engines and Zetec engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	
400.0600	18 pcs	Ford / Mazda - Engine Timing Tool Set	1.48	8)

		å
400.0154	Camshaft setting strap	150
400.9018	Injection pump locking pin Ø 6.0 mm	20
400.0155	Crankshaft timing pin	240
400.0251	Injection pump locking pin Ø 6.0 mm	30
400.0254	Locking pin Ø 9.5 mm	60
400.0257	Crankshaft TDC locking pin	124
400.0258	Shim tool (2)	3
400.0281	Timing pin Ø 12,7 mm	569
400.0603	Crankshaft timing pin	51
400.0609	Flywheel locking tool	308
400.0614	Locking pin, Ø 8.25 mm	40
400.0615	Crankshaft pulley setting tool	190
400.0616	Flywheel locking adaptor	74
400.9015	Injection pump locking pin Ø 15.4 mm	126
400.9019	Tensioner locking tool	20
400.9017	Camshaft setting strap	120

Fiat / Ford / Opel /Suzuki - Engine Timing Tool Set

- For the professional engine repair
- Especially for chain-driven enginesFor changing the steering chain
- Very high degree of accuracyIn durable steel storage case

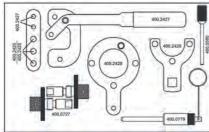
Application range: Fiat 1.3 JTD, **Opel** 1.3 CDTI, **Ford** 1.3 TDCi, **Suzuki** (engine code: Z13DT)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.2425	12 pcs	Fiat / Ford / Opel /Suzuki - Engine Timing Tool Set	1,12	

consists of:

		g	
400.0580	Crankshaft locking pin Ø 8,0 mm	30	
400.0727	Camshaft locking tool (2)	130	
400.0779	Crankshaft locking tool	80	
400.2426	Cranshaft pulley fla ge holding tool (4)	88	
400.2427	Timing chain tensioning tool (3)	171	
400.2428	Flywheel timing position tool	398	

Ford - Engine Timing Tool Set

- For the professional engine repair
- Expansion set for use in connection with 400.0600 For locking the crank shaft or cam shaft
- For changing the timing beltVery high degree of accuracy
- In durable steel storage case

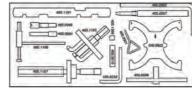
Application range: Ford Focus, C-Max with 1.6 Ti VCT engines, Fiesta, Fusion with 1.4 / 1.6 TDCi engines, Mondeo, S-Max, Transit Connect, Tourneo Connect with 1.8 TDdi / TDCi and 2.0 TDCi engines (engine code: HXADA)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.1200	14 pcs	Ford - Engine Timing Tool Set	2.26	

consists of:

		g	
400.0252	Camshaft locking pin 6.0 mm	26	
400.1107	Chain cover alignment tool	497	
400,1106	Fuel sprocket remover	80	
400.1105	Camshaft sprocket puller	552	
400.1101	Camshaft setting strap	140	
400.0905	Crankshaft locking pin	33	
400.0904	Camshaft/injection pump locking pin	26	
400.0903	Crankshaft locking pin	85	
400.0902	Camshaft locking tool	384	
400.0901	Tensioning locking pin	4	
400.0257	Crankshaft TDC locking pin	124	
400.0609	Flywheel locking tool	308	
400.0616	Flywheel locking adaptor	74	
400.1309	Flywheel locking adaptor	13	

Ford - Engine Timing Tool Set

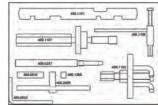
- For the professional engine repair
- · For locking the cam shaft
- For changing the cam belt or the chain Very high degree of accuracy
- In durable steel storage case

Application range: Ford vehicles with 1.8 TDDI / TDCI engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.1100	9 pcs	Ford - Engine Timing Tool Set	2.00	

consists of:

		9	
400.0252	Camshaft locking pin 6.0 mm	26	
400.1107	Chain cover alignment tool	497	
400.1106	Fuel sprocket remover	80	
400,1105	Camshaft sprocket puller	552	
400.1101	Camshaft setting strap	140	
400.0257	Crankshaft TDC locking pin	124	
400.0609	Flywheel locking tool	308	
400.0616	Flywheel locking adaptor	74	
400.1309	Flywheel locking adaptor	13	

Ford - Engine Timing Tool Set

- For the professional engine repair
- For locking the crank shaft or cam shaft
 For changing the timing belt

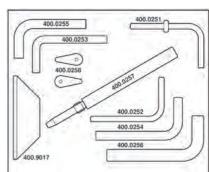
- Very high degree of accuracyIn durable steel storage case

Application range: Ford vehicles with 1.6 / 1.8 / 2.5 diesel

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			g	
400.0250	10 pcs	Ford - Engine Timing Tool Set	590	

consists of:

		g	
400.0251	Injection pump locking pin Ø 6.0 mm	30	
400.0252	Camshaft locking pin 6.0 mm	26	
400.0253	Locking pin Ø 8.0 mm	41	
400.0254	Locking pin Ø 9.5 mm	60	
400.0255	Locking pin Ø 10.0 mm	60	
400.0256	Locking pin Ø 12.0 mm	120	
400.0257	Crankshaft TDC locking pin	124	
400.0258	Shim tool (2)	3	
400.9017	Camshaft setting strap	120	

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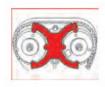


Ford - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the cam shaft
- · For changing the timing belt
- · Very high degree of accuracy

Application range: Ford Focus, C-Max with 1.6 TI-VCT and 2.0 TDCi engines (2003-2007) (engine code: HXDA / G6DA / G6DB / G6DC)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			8	
400.0900	5 pcs	Ford - Engine Timing Tool Set	1.16	

consists of:

		8
400.0901	Tensioning locking pin	4
400.0902	Camshaft locking tool	384
400.0903	Crankshaft locking pin	85
400.0904	Camshaft/injection pump locking pin	26
400.0905	Crankshaft locking pin	33

Ford / Volvo - Engine Timing Tool Set

- For the professional engine repair
- · For locking the crank shaft and cam shaft
- · For changing the timing belt
- Very high degree of accuracy

Application range: Ford B-Max (2012), C-Max (2010), Focus (2011), Galaxy (2010), Grand-C-Max (2010-2011), Mondeo (2010), S-Max (2010), Volvo S60 (2001), S80 (2010-2011), V60 (2011), V70 (2010-2011) with 1.6 Ti-VCT, 2.0 TDCI engines (engine code: IQJA / JQDA / JQDB / JQDA / JTDB / JQDA / JQDB / JTWA / JTWB / JQDA / JTDB / JTBA / JTBB / B4164T3 / B4164T7 / B41464T2)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			å	
400.4125	4 pcs	Ford / Volvo - Engine Timing Tool Set	498	

consists of

		å	
400.0902	Camshaft locking tool	384	- 3
400.0905	Crankshaft locking pin	33	
400.4126	Crank shaft discs adjustment tool	50	
400.4127	Pin for chain tensioner	10	- 8

VAG - Engine Timing Tool Set

- · For the professional engine repair
- · For TDI pump injection engines
- For changing the timing belt
- ·Secure hold for changing the timing belt or engine repairs

Application range: universal usage for many VAG group vehicles, in particular Audi A3, A4, A6, Škoda Octavia 2, Fabia, Volkswagen Golf, Golf Plus, Jetta, Touran, Lupo, Fox, Bora, Beetle, Caddy, Sharan, Passat, Seat Leon, Toldeo, Althea, Alhambra with 1.4 / 1.9 / 2.0 TDi engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			å	
400.2700	7 pcs	VAG - Engine Timing Tool Set	455	

consists of:

		å	
400.0615	Crankshaft pulley setting tool	190	
400.0901	Tensioning locking pin	4	
400.1415	Crankshaft pulley setting tool	192	
400.1425	Tensioning locking pin	11	
400.9018	Injection pump locking pin Ø 6.0 mm	20	

Ford / Mazda - Engine Timing Tool Set

- For the professional engine repair
- · For locking the crank shaft and cam shaft
- · For changing the timing belt
- Very high degree of accuracy

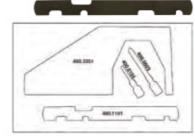
Application range: Ford Mondeo with 1.8 engines and Mazda 3, 5, 6, CV7, MX5, MPV, Tribute with Zetec/Duratec or DISI engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	
400.3350	4 pcs	Ford / Mazda - Engine Timing Tool Set	1.05	

consists o

		å	
400.0155	Crankshaft timing pin	240	
400.0603	Crankshaft timing pin	51	
400.1101	Camshaft setting strap	140	
400.3351	Camshaft Locking Plate	780	

Ford / Volvo - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the crank shaft or cam shaft
- For changing the timing belt
- Very high degree of accuracy

Application range: Ford, Volvo with petrol engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			8	
400.1525	4 pcs	Ford / Volvo - Engine Timing Tool Set	291	

consists of:

		å	
400.0155	Crankshaft timing pin	240	
400.0603	Crankshaft timing pin	51	
400.0905	Crankshaft locking pin	33	
400.1101	Camshaft setting strap	140	

Ford / Mazda - Engine Timing Tool Set

- · For the professional engine repair
- For locking the crank shaft
 Especially for Ford 16V vehicles
- Especially for Ford 16V vehicle
 Very high degree of accuracy

Application range: Ford Fiesta 1.25 / 1.4 engines, Puma 1.4 / 1.7 engines, Mondeo 1.6 / 1.8 / 2.0 engines, Mazda 121 with 1.25 engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			å	
400.0175	2 pcs	Ford / Mazda - Engine Timing Tool Set	180	

		å	
400.0154	Camshaft setting strap	150	
400.0155	Crankshaft timing pin	240	- 59

Ford - Engine Timing Tool Set

- •For the professional engine repair
- Expansion set for Ford Duratorque enginesFor locking the crank shaft and cam shaft
- For changing the timing belt or the chainVery high degree of accuracy
- In durable steel storage case

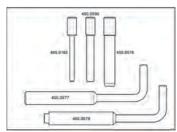
Application range: Ford Duratorq-engines Fiesta and Fusion with 1.4 D/TDCi engines with timing belt, Mondeo, Transit 2.0 D/Di with timing chain, Puma, Transit with 2.4 D/Di/TDDi with timing chain, Mondeo with 2.0 / 2.2 TDCi with timing chain, Transit (2000-2008) with 2.0 / 2.2 TDCi, 2.4 TDi with timing

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			9	
400.0575	5 pcs	Ford - Engine Timing Tool Set	319	

consists of:

		g	
400.0165	Camshaft locking pin 5.0 mm	19	
400.0576	Flywheel locking pin	64	
400.0577	Flywheel locking tool	124	
400.0578	Flywheel locking pin	122	
400.0580	Crankshaft locking pin Ø 8,0 mm	30	

Ford - Engine Timing Tool Set

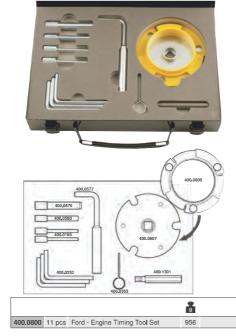
- For the professional engine repair
- For locking the cam shaft For changing the timing belt or the chain
- Very high degree of accuracyIn durable steel storage case

Application range: Ford vehicles with chain-driven 2.0 / 2.4 Duratory engines (2002-2010), also for the belt change on 1.4 / 1.6 engines. Contains tool for the removal and exchanging of fuel injection pumps on Ford 2.0 / 2.4 Duratory Di/TDDI and 2.2 / 2.4 Duratorq TDCI diesel engines

Please carry out an up-to-date test for the specific ehicle on www.timingtool.de







consists of:

	Х		g	
400.0165	2	Camshaft locking pin 5.0 mm	19	
400.0252	2	Camshaft locking pin 6.0 mm	26	
400.0355	1	Tensioner pushrod retension pin	1	
400.0576	1	Flywheel locking pin Ø 12 mm	64	
400.0577	1	Flywheel locking tool Ø 8 mm, 126 mm	124	
400.0580	1	Crankshaft locking pin Ø 8,0 mm, 70 mm	30	
400.0806	1	Locking tool	45	
400.0807	1	Pump cover locking tool	2	
400.1301	1	TX T45 bit, 75 mm	31	

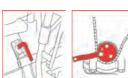
Ford - Engine Timing Tool Set

- •For the professional engine repair •For locking the cam shaft

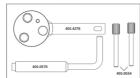
- For changing the timing belt Very high degree of accuracy

Application range: Ford Transit 2.2 TDCi engines (> 2006), including Econetic and HDT engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			9	
400.4275	4 pcs	Ford - Engine Timing Tool Set	415	

consists of:

	Х		g	
400.0554	2	Locking pin Ø 6.0 mm	19	
400.0578	1	Flywheel locking pin	122	
400.4276	1	Crank shaft chain wheel holding tool	200	

Ford - Engine Timing Tool Set

- For the professional engine repair For locking the crank shaft and cam shaft
- For changing the timing belt
- Very high degree of accuracy
- In durable steel storage case

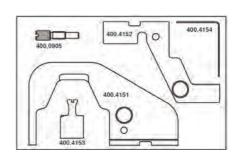
Application range: Ford Galaxy (2010), Mondeo (2010), S Max (2010), Focus (2011) with 2.0 SCTI Ecoboost / Ti-VCT engines (engine code: TNWA / TNWB / TNBA / TPWA / MGDA / XQDA)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.4150	5 pcs	Ford - Engine Timing Tool Set	2.18	

Consists	01;		
		g	
400.0905	Crankshaft locking pin	33	
400.4151	Cam shaft alignment plate	700	
400.4152	Cam shaft alignment plate	250	
400.4153	Pin for aligning the cam shaft	30	
400.4154	Tension pin 2.0 mm	20	

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Ford / Land Rover / PSA / Volvo - Engine Timing Tool Set

- · For the professional engine repair
- For changing the timing belt
- · Very high degree of accuracy

Application range: Ford, Land Rover, PSA, Volvo vehicles with 2,0 / 2,2 DOHC Common-Rail Diesel engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			å	120
400.1625	3 pcs	Ford / Land Rover / PSA / Volvo - Engine Timing Tool Set	473	

consists of:

		8	
400.0580	Crankshaft locking pin Ø 8,0 mm	30	
400.0609	Flywheel locking tool	308	
400.0903	Crankshaft locking pin	85	_

Fiat / Ford - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the cam shaft
- For changing the timing belt
 Very high degree of accuracy
- In durable steel storage case

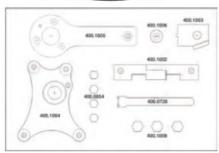
Application range: Fiat 500, Idea, Linea, Punto, Doblo, Panda, Ford Ka with 1.2 / 1.4 8V engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			å	
400.1000	13 pcs	Fiat / Ford - Engine Timing Tool Set	1.99	

consists of

	X		å
00.0728	1	Tensioner adjusting tool	30
400.0854	4	Screwn M6 x 30,0 mm	9
400.1002	1	Camshaft setting strap	80
400.1003	1	Camshaft locking tool M10	86
400.1004	1	Camshaft cover locking tool	300
400.1005	1	Crankshaft locking tool	7
400.1006	1	Screw M10 x 20,0 mm	22
400.1009	3	Locking screw M8 x 20.0 mm	11

GM

GM / Opel - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the cam shaft or chain tensioner
- · Very high degree of accuracy

Application range: Opel Astra-G, Vectra-B, Vectra-C, Signum, Zafi a-A (engine code: Z22SE / Z22YH)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			8	
400.2325	2 pcs	GM / Opel - Engine Timing Tool Set	787	

consists of:

		å	
400.2326	Camshaft locking tool	786	
400.2327	Timing chain tensioner locking pin	1	

GM / Isuzu / Opel / Saab - Engine Timing Tool Set

- For the professional engine repair
- Especially for chain-driven vehicles

and similar Isuzu- and Saab-engines

- For locking dual cam shafts
- Very high degree of accuracy
 In durable steel storage case

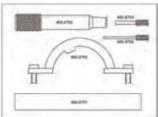
Application range: Opel Agila, Astra-G, Astra-H, Combo-C, Corsa-B, Corsa-C, Corsa-D, Meriva-A, Tigra-B (1993-2010) with 1.0 12V / 1.2 16V engines (engine code: X10XE / Z10XE / Z10 XEP / X12XE / Z12XE / Z12 XEP / Z14XEL / Z14XEA)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			å	
400.0700	5 pcs	GM / Isuzu / Opel / Saab - Engine Timing Tool Set	446	

consists of

		ŝ	
400.0701	Camshaft timing tool	404	
400.0702	Flywheel TDC locking pin	205	
400.0703	Camshaft position (CMP) sensor disc setting tool	102	
400.0704	Tensioner retaining pin	4	
400.0705	Tensioner retaining pin	5	

GM / Opel - Engine Timing Tool Set

- · For the professional engine repair
- Expansion set
- · For engines without thread attachment bore holes
- · Very high degree of accuracy

Application range: Opel Astra-F, Astra-G, Cavalier, Vectra-A (1997 - 2001) with 1.7 engines (engine code: 17DR / X17DT / DTL)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			å	
400.0650	5 pcs	GM / Opel - Engine Timing Tool Set	380	

consists of:

		å	
400.0651	Camshaft locking tool (3)	169	
400.0652	Flywheel TDC indicator	80	
400.0653	Flywheel locking pin	79	

Alfa Romeo / Fiat / GM / Opel - Engine Timing Tool Set

- For the professional engine repair
- For changing the timing belt
- Very high degree of accuracy

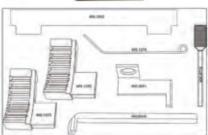
Application range: Chevrolet Cruze, Orlando with 1.4 / 1.6 / 1.8 engines, Opel Astra-G, Astra-H, Corsa-D, Insignia, Meriva, Signum, Vectra-C, Zafi a-B, Flat Croma, Alfa Romeo 159 (engine code: Z / A / 939A4.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









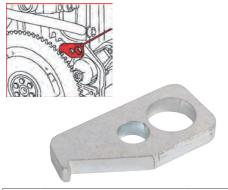
			å	
400.3050	7 pcs	Alfa Romeo / Fiat / GM / Opel - Engine Timing Tool Set	424	

		g	
400.0778	Locking pin	20	
400.1255	Camshaft locking tool (2)	56	
400.1256	Tensioner locking pin	3	
400.3051	Flywheel holding tool	32	
400.3052	Camshaft Locking Bar	148	
400.9046	Flywheel locking tool	80	

GM / Opel Fly wheel locking tool

- For locking the fly whe Is
- · For easily attaching to one of the small fixi g pins next to the fly whe I
- ·Special steel

Application range: for all Opel and GM 4 and 6 cylinder CIH, 24V and OHC engines



			9	
I	400.9045	GM / Opel Fly wheel locking tool	80	

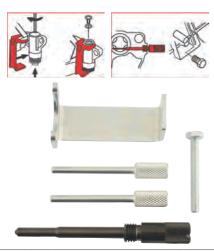
HONDA

Honda - Engine Timing Tool Set

- For the professional engine repair
- For locking the belt drive on twin-cam, dual-cam shaft engines
- · Very high degree of accuracy

Application range: Honda Civic, Accord, Prelude, Shuttle, Odyssey (engine code: F18A3 / F18B2 / F18B4 / F20AF / F20B3 / F20B5 / F20B6 / F20B7 / F20Z1 / F20Z2 / F22Z2 / F22B5 / F22B8 / F22A2 / H22A5 / H22A7 / H22A8 / F23A7 / F23Z5 / H23A2 / H23A3 / J30A1 / B16A2 / F18A3)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			9	
400.2525	5 pcs	Honda - Engine Timing Tool Set	194	

Consists	01:			
	х		9	
400.0165	2	Camshaft locking pin 5.0 mm	19	
400.0753	1	Locking screw M6 x 30.0 mm	10	
400.2526	1	Tensioner locking pin tool	60	
400.2527	- 1	Balance shaft locking tool	46	

HYUNDAI

Hyundai / Mitsubishi / Volvo - Engine Timing Tool Set

- For the professional engine repair
- · For actuating belt tensioners
- · Very high degree of accuracy

Application range: universal usage on many Hyundai, Mitsubishi, Volvo vehicles

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			9	
400.0075	2 pcs	Hyundai / Mitsubishi / Volvo - Engine Timing Tool Set	131	

consists of

		9	
400.0076	Tensioning locking pin	630	
400.0077	Belt tensioner wrench	210	

Hyundai cam shaft locking tool

- •For the professional engine repair
- Clamping device for a secure hold to change the timing belt
- · Special plastic
- · Very high degree of accuracy

Application range: Hyundai Sontana from 1999 onwards

Please carry out an up-to-date test for the specific ehicle on www.timingtool.de



	х		g	
150.3058	1	Hyundai cam shaft locking tool	30	



ISUZU

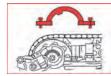
Isuzu / GM / Opel / Saab - Engine Timing Tool Set

- · For the professional engine repair
- For changing the timing beltVery high degree of accuracy
- In durable steel storage case

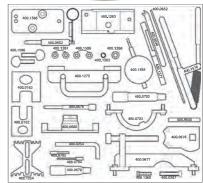
Application range: Opel Agila, Ascona, Astra-F, Astra-G, Corsa-B, Corsa-C, Frontera, Kadett-E, Midi, Monterey, Omega-B, Sintra, Vectra-A, Vectra-B, Vectra-C, Zafi a and similar Isuzu and Saab vehicles

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









				kg	
400.	1575	33 pcs	Isuzu / GM / Opel / Saab - Engine Timing Tool Set	3.91	

consists of:

		9	
400.0162	Opel / Saab Camshaft locking tool	186	
400.0163	Camshaft locking tool	143	
400.0254	Locking pin Ø 9.5 mm	60	
400.0287	Screw M8 x 40,0 mm	18	
400.0652	Flywheel TDC indicator	80	
400.0653	Flywheel locking pin with spring on ring, 103 mm	79	
400.0676	Camshaft turning tool	7	
400.0677	Bracket for timing adjustment wrench	111	
400.0678	Injection pump locking pin	41	
400.0679	Flywheel TDC locking pin	160	
400.0680	Camshaft locking tool	322	
400.0702	Flywheel TDC locking pin	205	
400.0703	Camshaft position (CMP) sensor disc setting tool	102	
400.0704	Tensioner retaining pin, Ø2,5mm	4	
400.0705	Tensioner retaining pin, Ø4,0mm	5	
400.1254	Flywheel locking tool	23	
400.1260	Camshaft locking tool (5)	9	
400.1261	Locking screw M6 x 10.0 mm	4	
400.1262	Special tip	10	
400.1263	Mounting bracket assy	330	
400.1275	Camshaft setting strap (TDC)	404	
400.1360	Flywheel locking tool	82	
400.1576	Belt tensioner adjuster	297	
400.1577	Camshaft setting strap	99	
400.1585	Dial gauge Ø 51 (10 x 0.01 mm)	154	
400.1586	Camshaft position locking tool (5)	170	
400.9045	Flywheel locking tool	80	
400.9046	Flywheel locking tool	80	

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GM / Isuzu / Opel / Saab - Engine Timing Tool Set

- · For the professional engine repair
- For locking the cam shaft
- ·For changing the timing belt
- Very high degree of accuracy
- · In durable steel storage case

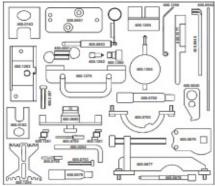
Application range: Opel Agila, Ascona, Astra-F, Astra-G, Astramax, Belmont, Cavalier, Corsa-B, Corsa-C, Frontera, Kadett-E, Midi, Monterey, Omega-B, Sintra, Vectra-A, Vectra-B, Vectra-C, Zafi a with petrol and diesel engines including Eco-Tec engines and similar Isuzu and Saab engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









	_		8	
400.1250	36 pcs	GM / Isuzu / Opel / Saab - Engine Timing Tool Set	6.18	

consists of:

e emanara c			
	x		å
400.0162	1	Opel / Saab Camshaft locking tool, blue	186
400.0163	1	Opel Camshaft locking tool, gold	143
400.0254	1.	Locking pin Ø 9.5 mm	60
400.0287	1	Screw M8 x 40,0 mm	18
400.0651	1.	Camshaft locking tool (3), 110 x 50 mm	169
400.0652	1	Flywheel TDC indicator	80
400.0653	1.	Flywheel looking pin with spring on ring, 103 mm	79
400.0676	1	Camshaft turning tool	7
400.0677	1	Bracket for timing adjustment wrench	111
400.0678	1	Injection pump locking pin, Ø 6 mm, 110 mm	41
400.0679	1	Flywheel TDC locking pin Ø 12 mm, 86 mm	160
400.0680	1	Camshaft locking tool 120 mm	322
400.0702	1	Flywheel TDC locking pin Ø 12 mm, 113 mm	205
400.0703	1	Carrishaft position (CMP) sensor disc setting tool	102
400.0704	1	Tensioner retaining pin, Ø2,5mm	4
400.0705	1	Tensioner retaining pin, Ø4,0mm	5
400.0753	1	Locking screw M6 x 30.0 mm	10
400.1254	1	Flywheel locking tool, 70 x 54 mm	23
400.1255	1	Opel Camshaft locking tool (2), red	56
400.1256	1	Tensioner locking pin for 400.1250	3

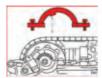
	X		8
400.1260	1	Screw for 400.1263	9
400.1261	4	Locking screw M6 x 10.0 mm	4
400.1262	1	Special tip	10
400.1263	1	Mounting bracket assy	330
400.1264	1	Dial gauge Ø 51 (10 x 0.01 mm), 103 mm	161
400.1275	1	Camshaft setting strap (TDC)	404
400.9045	1	Flywheel locking tool, 62 x 30 mm	80
400.9046	1	Flywheel locking tool, 130 mm	80
400.1577	1	Camshaft setting strap 140 mm	99

GM / Isuzu / Opel / Saab - Engine Timing Tool Set

- · For the professional engine repair
- · Especially for chain-driven vehicles
- · For locking dual cam shafts
- · Very high degree of accuracy
- In durable steel storage case

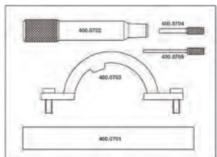
Application range: Opel Agila, Astra-G, Astra-H, Combo-C, Corsa-B, Corsa-C, Corsa-D, Meriva-A, Tigra-B (1993-2010) with 1.0 12V / 1.2 16V engines (engine code: X10XE / Z10XE / Z10 XEP / X12XE / Z12XE / Z12 XEP / Z14XEL / Z14XEA) and similar Isuzu- and Saab-engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			å
400.0700	5 pcs	GM / Isuzu / Opel / Saab - Engine Timing Tool Set	446

consists of:

		å
00.0701	Camshaft timing tool	404
100.0702	Flywheel TDC locking pin	205
400.0703	Camshaft position (CMP) sensor disc setting tool	102
00.0704	Tensioner retaining pin	4
400.0705	Tensioner retaining pin	5

GM / Isuzu / Opel / Saab - Camshaft locking tool

- · For the professional engine repair
- · Clamping device for a secure hold to change the timing belt
- · Very high degree of accuracy

Application range: Opel Tigra 2004 - 2008 (engine code: Z18XE) with 1.8 engines, Frontera, Frontera-B and Sintra-A, Omega-B 1995 - 2004 (engine code: X22SE, X33XE, YEESE, Y22XE Z22XE) with 2.2 16V engines. Saab 9-3 1996 - 2005 with 1.8 engines (engine code: Z18XE) and similar Isuzu and Saab engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	x		å	
400.0162	1	GM / Isuzu / Opel / Saab - Camshaft locking tool	186	

IVECO

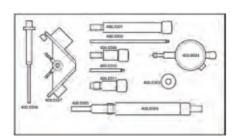
Diesel fuel pump timing set

- · For the professional engine repair
- Precise measuring device for the upper entry hole
 For resetting the injection time on diesel engines
- Very high degree of accuracy
- In durable steel storage case

Application range: Alfa Romeo, Audi, BMW, Daihatsu, Fiat, Ford, Isuzu, Iveco, Lancia, Land Rover, Mazda, Mitsubishi, Nissan, PSA (XUD), Renault, Rover, Volkswagen vehicles with Bosch, EP/VE Rotary, Niki, Nippon Denso, CAV RotoDiesel, Top injection fuel pumps

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			å	
400.0300	11 pcs	Diesel fuel pump timing set	710	

		å	
400.0301	Dial gauge adapter M8 (Bosch), long	71	
400.0302	Dial gauge extension, long 99 mm	9	- 3
400.0303	Convertor M8 x M12	12	18

		g	
400.0304	TDC determining pin / dial indicator bracket M14 x 2.0 mm	135	
400.0305	Extension	460	
400.0306	Dial gauge probe for Lukas-CAV-Roto	17	
400,0307	Dial gauge assy for Lukas-CAV-Roto	125	
400.0309	Dial gauge adapter M8 (Bosch) short, silver	37	
400.0310	Dial gauge extension short	4	
400.0311	Dial gauge adapter M10 (Bosch) short, black	40	
400.9004	Precision-dial indicator gauge 0 - 10 mm	78	

Diesel fuel pump timing set

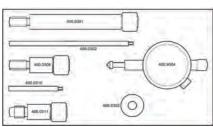
- For the professional engine repair
- · Precise measuring device
- Very high degree of accuracy
- In durable steel storage case

Application range: Alfa Romeo, Audi, BMW, Daihatsu, Fiat, Ford, Isuzu, Iveco, Lancia, Land Rover, Mazda, Mitsubishi, Nissan, Renault, Rover and Volkswagen vehicles with Bosch, Kikki, Nippon Denso injection pumps with threads of M8, M10 and M12, with new M10 Adapter in particular for Ford

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			9	
400.0325	7 pcs	Diesel fuel pump timing set	301	

consists of:

		9	
400.0301	Dial gauge adapter M8 (Bosch), long	71	
400.0302	Dial gauge extension, long 99 mm	9	
400.0303	Convertor M8 x M12	12	
400.9004	Precision-dial indicator gauge 0 - 10 mm	78	
400.0309	Dial gauge adapter M8 (Bosch) short, silver	37	
400.0310	Dial gauge extension short	4	
400.0311	Dial gauge adapter M10 (Bosch) short, black	40	

Fiat / Iveco - Engine Timing Tool Set

- For the professional engine repair
- For locking the crank shaft and cam shaftFor changing the timing belt
- Very high degree of accuracy

Application range: Fiat Ducato, Iveco Daily with 2.3 / 3.0 JTF engines (engine code: F1AE0481C, F1AE0481D, F1AE0481N,

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			g	
400.0400	5 pcs	Fiat / Iveco - Engine Timing Tool Set	518	

consists of:

		g	
400.0161	Crankshaft TDC locking pin	75	
400.0165	Camshaft locking pin 5.0 mm	19	
400.0401	Camshaft aligning tool (2)	70	
400.0402	Crankshaft timing pin	200	

Fiat / Iveco / PSA - Engine Timing Tool Set

- For the professional engine repair
 For locking the cam shaft or fly whe Is
 Very high degree of accuracy
- In durable steel storage case

Application range: Fiat Ducato 2.8 TD, JTD, Iveco 2.8 D, TDI, Citroën Relay, Jumper, Peugeot Boxer, Boxer II (engine code: 8140,43 / 8140.43N / 8140.43S / 8140,63)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



30				
			å	
400.3000	6 pcs	Fiat / Iveco / PSA - Engine Timing Tool Set	200	

consists	of:	
		9
400.0165	Camshaft locking pin 5.0 mm	19
400.1377	Tensioning locking pin	35
400.1388	Tensioner adjuster	41
400,3001	Flywheel holding tool (2)	106

JAGUAR

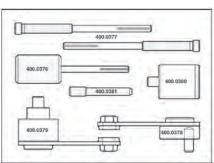
Land Rover / Jaguar - Engine Timing Tool Set

- · For the professional engine repair
- For locking the cam shaftFor changing the timing belt
- Very high degree of accuracy • In durable steel storage case

Application range: Land Rover Discovery, Range Rover Sport with 2.7 TDV6 engines and **Jaguar** S Type with TDVi V6 engines, including fly whe I locking tool for automatic and manual transmissions (engine code: 276D T)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			g	
400.0375	7 pcs	Land Rover / Jaguar - Engine Timing Tool Set	912	

consists of:

		g	
400.0376	Camshaft sprocket locking tool	165	
400.0377	Camshaft sprocket locking pin (2)	68	
400.0378	Flywheel locking tool - automatic tensioner	195	
400.0379	Flywheel locking tool - manual tensioner	268	
400.0380	Flywheel locking tool	222	
400.0381	Coolant Pump tensioning locking pin	30	



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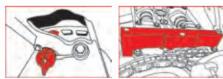


Jaguar / Land Rover - Engine Timing Tool Set

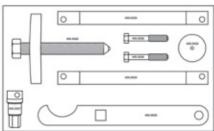
- · For the professional engine repair
- · Especially for chain-driven vehicles
- · Very high degree of accuracy
- · In durable steel storage case

Application range: Jaguar and Daimler V8, Sport 4,0 / 3,2 / 4,2 / 3,5, S-Type, XJ8, XJR, XK8, XKR (< 2010) with 4.0 / 4.2 V8 engines (engine code: BC / LB / LC / GC / AC / KC / DC / CC / CE / NC / EG / PA / HB / 1B / RB / SB / TB / 3B / PC / NB), Land Rover Discovery3, Range Rover 4.2, Supercharged 4.4 (engine code: 4PN / 428PS)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			8	
400.0025	9 pcs	Jaguar / Land Rover - Engine Timing Tool Set	3.51	

consists of:

		å	
400.0026	Crankshaft pulley puller (4)	530	
400.0027	Crankshaft locking tool	70	- 33
400.0028	Camshaft locking tool (2)	740	
400.0029	Timing chain wrench	200	

KIA

KIA cam shaft locking tool

- · For the professional engine repair
- · Clamping device for a secure hold to change the timing belt
- Special plastic
- · Very high degree of accuracy

Application range: Kia Clarus 1.6 - 1.8 from 1997 onwards

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	X		å	
150.3055	1	KIA cam shaft locking tool	40	

KIA cam shaft locking tool

- · For the professional engine repair
- · Clamping device for a secure hold to change the timing belt
- · Special plastic
- · Very high degree of accuracy

Application range: Kia Carnival Diesel from 1998 onwards

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	x		å	
150.3056	1	KIA cam shaft locking tool	80	

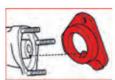
LANCIA

Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set

- · For the professional engine repair
- . For locking the crank shaft and cam shaft
- ·Suitable for pre-tensioning timing belt tensioner on the automatic pulley
- · For changing the timing belt
- Very high degree of accuracy
 In durable steel storage case

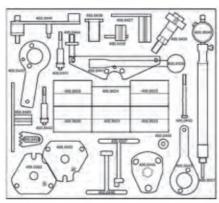
Application range: universal usage on many Italian vehicles, in particular Alfa Romeo, Fiat, Lancia vehicles with 1.4 / 1.6 / 1.8 / 2.0 / Twinspark 1.2 / 1.4 / 1.6 / 1.8 16 V petrol engines 1.6 / 1.8 / 1.9D / TD / 2.0 / 2.1 12V / 2.4 diesel engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			*
400.0425	34 pcs	Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	7.57

consists of:

		å	
400.0428	Tensioning tool - pry	170	
400.0435	Flywheel locking tool	57	
400.0436	Flywheel locking tool	135	
400.0437	Flywheel locking tool	100	
400.0438	Flywheel locking tool	51	
400.0439	Flywheel locking tool	317	
400.0440	Flywheel locking tool	136	
400.0441	Crankshaft timing tool (2)	154	
400.0442	Crankshaft timing tool (2)	154	
400.0443	Crankshaft timing tool (3)	160	
400.0444	Tensioning tool	240	
400.0445	Camshaft locking tool (2)	530	
400.0446	Balancer shaft belt tensioning tool	97	
400.0447	Tensioning tool - pry	70	
400.0502	Camshaft locking tool (2)	400	
400.9004	Precision-dial indicator gauge 0 - 10 mm	78	
400.9027	TDC determining pin Ø 5,0 mm / dial indica- tor bracket M14 x 1.25	288	
400.9029	Camshaft locking tool (2)	276	
400.9030	Camshaft locking tool (2)	251	
400.9031	Camshaft locking tool (2)	272	
400.9032	Camshaft locking tool (2)	269	
400.9033	Camshaft locking tool (2)	276	
400.9034	Crankshaft timing tool	178	

Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set

- · For the professional engine repair
- · Especially for chain-driven engines
- · Very high degree of accuracy
- In durable steel storage case

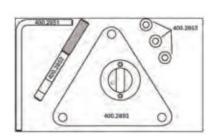
Application range: Fiat Panda, Punto, 500, 500c, Alfa Romeo Mito, Lancia Ypsilon (engine code: 313A2.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	
400.2850	6 pcs	Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	1.60	- 4

		å	
400.2851	Flywheel locking tool	460	
400.2852	Pulley locking pin	550	
400.2853	Camshaft Locking Plate with screws	490	le.

Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the crank shaft
- For changing the timing belt
 Very high degree of accuracy
- In durable steel storage case

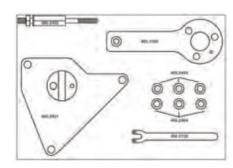
Application range: Alfa Romeo Mito, Giulietta MultiAir 105 , MultiAir Turbo 135 , 163 / 170 (2009-2013) Fiat Punto Evo, Punto, Bravo (2009-2013) Lancia Delta (2010-2013) - (engine code: 955A6.000 / 955A7.000 / 955A8.000 / 955A2.000 / 940A2.000)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			8	
400.2900	10 pcs	Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	1.40	

consists of:

		å
400.0728	Tensioner adjusting tool	30
400.1005	Crankshaft locking tool	7
400.2403	Stud assembly	33
400.2404	Socket head screw M8 x 20 mm	13
400.2901	Tensioner adjusting tool	504

Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set

- · For the professional engine repair
- For changing the timing belt
 Very high degree of accuracy
- · In durable steel storage case

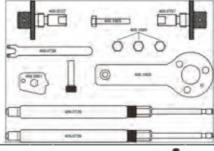
Application range: Alfa Romeo Giulietta , MiTo Fiat 500, Brava, Bravo, Grande Punto, Marea, Marea Weekend, Marengo, Palio Weekend Panda, Punto, Punto Classic, Ritmo, Stilo, Idea Lancia Delta, Musa, Ypsilon

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









400.2950 12 pcs Alfa Romeo / Fiat / Lancia - Engine Timing Tool Set	1.22	

	X		8
400.0726	1	Piston height gauge (2)	250
400.0727	1	Camshaft locking tool (2)	130
400.0728	1	Tensioner adjusting tool	30
400.1005	5	Crankshaft locking tool	7
400.2951	1	Camshaft pulley holding tool(2)	126

Alfa Romeo / Fiat / Lancia camshaft alignment tools

- For the professional engine repair
 For locking the cam shaft wheels (TDC position)
- Secure hold thanks to optimal positioning
- · Very high degree of accuracy

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







	X	Suisole for	å
400.9034	1	Brava, Bravo 1.4 12v (> 1995) Lancia Ypsilon 1.4 12v (1996 - 1999)	178
400.9035	2	Lancia Kappa 2.0 2.4 20v (1994 – 1997), Stilo 2.4 20v (> 2001)	269

LAND ROVER

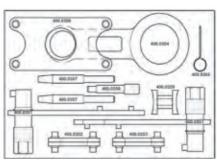
Land Rover / MG / Rover - Engine Timing Tool Set

- · For the professional engine repair
- For locking the cam shaft of all KV6 variants
- · For changing the timing belt
- Very high degree of accuracy
 In durable steel storage case

Application range: Rover 825, 45, 75, Land Rover Freelander 2.5, MG ZS, ZT, ZT-T 160, 180, 190 with 2.0 / 2.5 V6 Quad-Cam petrol engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





<u> </u>				
			8	
400.0350	12 pcs	Land Rover / MG / Rover - Engine Timing Tool Set	3.62	

		å	
400.0351	Crankshaft timing tool (2)	500	
400.0352	Camshaft locking adaptor set, 2.0 L (2)	76	
400.0353	Camshaft locking adaptor set, 2.5 L (2)	80	
400.0354	Rear camshaft sprocket setting tool	480	
400.0355	Tensioner pushrod retension pin	1	
400.0356	Rear camshaft sprocket setting tool	390	
400.0357	Rear camshaft sprocket guide pin	50	
400.0358	Crankshaft locking pin	40	
400.0359	Rear cam sprocket spreader	80	



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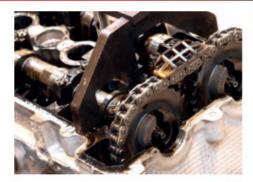
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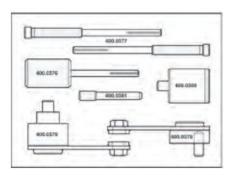
Land Rover / Jaguar - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the cam shaft
- For changing the timing belt
 Very high degree of accuracy
- In durable steel storage case

Application range: Land Rover Discovery, Range Rover Sport with 2.7 TDV6 engines and Jaguar S Type with TDVi V6 engines, including fly whe I locking tool for automatic and manual transmissions (engine code: 276D T)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			å	
400.0375	7 pcs	Land Rover / Jaguar - Engine Timing Tool Set	912	

consists of:

		8
400.0376	Camshaft sprocket locking tool	165
400.0377	Camshaft sprocket locking pin (2)	68
400.0378	Flywheel locking tool - automatic tensioner	195
400.0379	Flywheel locking tool - manual tensioner	268
400.0380	Flywheel locking tool	222
400.0381	Coolant Pump tensioning locking pin	30

BMW / Land Rover / Rover - Engine Timing Tool Set

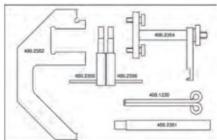
- · For the professional engine repair
- · For locking the crank shaft or cam shaft
- · For changing the timing belt or the timing chain
- Very high degree of accuracy
 In durable steel storage case

Application range: BMW 1, 3, 5, X3, Land Rover Freelander, Rover 75 (engine code: M47)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			100	
400.2350	7 pcs	BMW / Land Rover / Rover - Engine Timing Tool Set	1.03	

consists of:

		8	
400.1230	Tensioning locking pin (2)	14	
400.2351	Crankshaft TDC locking pin	108	
400.2352	Camshaft locking tool	461	
400.2354	Camshaft locking holding tool	240	
400.2355	Crankshaft timing tool	52	
400.2356	Crankshaft timing tool	55	

Land Rover / Rover - Engine Timing Tool Set

- · For the professional engine repair
- For locking the crank shaft or fly dis
- · For changing the timing belt
- · Very high degree of accuracy

Application range: Land Rover Freelander 1.8, Rover Metro, 214, 216, 218 16V, 414, 416 16V, 216, 416 GTi, Rover Diesel 218, 418

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			å	
400.2600	3 pcs	Land Rover / Rover - Engine Timing Tool Set	1.50	

		8	
400.2601	Flywheel locking tool	470	
400.2602	Flywheel locking tool	480	
400.2603	Flywheel locking tool	460	

Jaguar / Land Rover - Engine Timing Tool Set

- · For the professional engine repair
- Especially for chain-driven vehicles
 Very high degree of accuracy
- In durable steel storage case

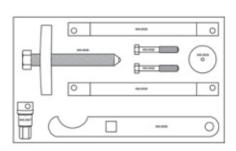
Application range: Jaguar and Daimler V8, Sport 4,0 / 3,2 / Application range. Sagua and Damier Va, 3014,0/3,2/ 4,2/3,5, S-Type, XJ8, XJR, XK8, XKR (< 2010) with 4.0/4.2 V8 engines (engine code: BC/LB/LC/GC/AC/KC/DC/CC/CE/NC/EG/PA/HB/1B/RB/SB/TB/3B/PC/NB), Land Rover Discovery3, Range Rover 4.2, Supercharged 4.4 (engine code: 4PN / 428PS)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









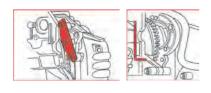
			-	
400.0025	9 pcs	Jaguar / Land Rover - Engine Timing Tool Set	3.51	

		å	
400.0026	Crankshaft pulley puller (4)	530	
400.0027	Crankshaft locking tool	70	
400.0028	Camshaft locking tool (2)	740	
400.0029	Timing chain wrench	200	100

- For the professional engine repair
- For changing the timing beltVery high degree of accuracy

Application range: Ford, Land Rover, PSA, Volvo vehicles with 2,0 / 2,2 DOHC Common-Rail Diesel engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			9	
400.1625	3 pcs	Ford / Land Rover / PSA / Volvo - Engine Timing Tool Set	473	

consists of

		9	
400.0580	Crankshaft locking pin Ø 8,0 mm	30	
400.0609	Flywheel locking tool	308	
400.0903	Crankshaft locking pin	85	

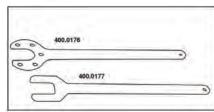
Land Rover fan hub wrench set

- For counter holding the Visco coupling drive shaft
- · Makes it possible to secure the pulley wheel of the water pump and at the same time release the heating fil er
- Also suitable for the removal of the viscous connecting socket
- on the cooler ventilator •Special steel

Application range: Land Rover Discovery II, Range Rover, Defender 1990-2006 with Td5 or V8 engines







			kg	
400.4175	2 pcs	Land Rover fan hub wrench set	18.29	

consists of:

		kg	
400.0176	Holding wrench for Visco fan for Land Rover	1.05	
400.0177	Visco fan wrench 36.0 mm for Land Rover	14.78	

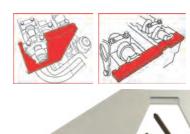
MAZDA

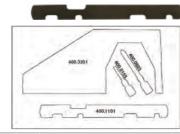
Ford / Mazda - Engine Timing Tool Set

- For the professional engine repair
- For locking the crank shaft and cam shaft For changing the timing belt
- Very high degree of accuracy

Application range: Ford Mondeo with 1.8 engines and Mazda 3, 5, 6, CV7, MX5, MPV, Tribute with Zetec/Duratec or DISI engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			kg	
400.3350	4 pcs	Ford / Mazda - Engine Timing Tool Set	1.05	

consists of:

		9	
400,0155	Crankshaft timing pin	240	
400.0603	Crankshaft timing pin	51	
400.1101	Camshaft setting strap	140	
400.3351	Camshaft Locking Plate	780	

Ford / Mazda - Engine Timing Tool Set

- For the professional engine repair
- For locking the crank shaftEspecially for Ford 16V vehicles
- Very high degree of accuracy

Application range: Ford Fiesta 1.25 / 1.4 engines, Puma 1.4 / 1.7 engines, Mondeo 1.6 / 1.8 / 2.0 engines, **Mazda** 121 with 1.25 engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			g	
400.0175	2 pcs	Ford / Mazda - Engine Timing	180	

consists of

001131313	01.		
		9	
400.0154	Camshaft setting strap	150	
400,0155	Crankshaft timing pin	240	

Ford / Mazda - Engine Timing Tool Set

- For the professional engine repair
- For locking the crank shaft or cam shaft
- For changing the timing belt
- Very high degree of accuracy
- · In durable steel storage case

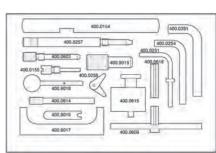
Application range: Ford and **Mazda** vehicles with 1.2 / 1.3 / 1.4 / 1.6 SOHC and 1.6 / 1.8 / 2.0 16V petrol engines, 1.8 / 1.9 D/TD / 1.9 TDi / 2.5 TDi diesel engines and Zetec engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			kg	
400.0600	18 pcs	Ford / Mazda - Engine Timing Tool Set	1.48	

consists of:

		9	
400.0154	Camshaft setting strap	150	
400.9018	Injection pump locking pin Ø 6.0 mm	20	
400.0155	Crankshaft timing pin	240	
400.0251	Injection pump locking pin Ø 6.0 mm	30	
400.0254	Locking pin Ø 9.5 mm	60	
400.0257	Crankshaft TDC locking pin	124	
400.0258	Shim tool (2)	3	
400.0281	Timing pin Ø 12,7 mm	569	
400.0603	Crankshaft timing pin	51	
400.0609	Flywheel locking tool	308	
400.0614	Locking pin, Ø 8.25 mm	40	
400.0615	Crankshaft pulley setting tool	190	
400.0616	Flywheel locking adaptor	74	
400.9015	Injection pump locking pin Ø 15.4 mm	126	
400.9019	Tensioner locking tool	20	
400.9017	Camshaft setting strap	120	

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Mazda cam shaft locking tool

- · For the professional engine repair
- · Clamping device for a secure hold to change the timing belt
- · Special plastic
- · Very high degree of accuracy

Application range: Mazda 626 from 1992 / 323 from 1998, Premacy from 1999 onwards

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



х			å	
150.3050	1	Mazda cam shaft locking tool	50	

MERCEDES

Chrysler / Mercedes - Engine Timing Tool Set

- For the professional engine repair
- · For locking the cam shaft
- · For changing the timing chain
- Very high degree of accuracy
 In durable steel storage case

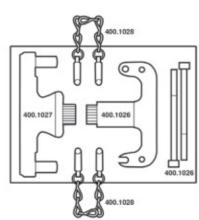
Application range: Mercedes vehicles with 2.2 / 2.7 CRD engines, Chrysler PT Cruiser with 2.2 CRD engines, Jeep Gran Cherokee with 2.7 CRD engines

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de









			å
400.1025	6 pcs	Chrysler / Mercedes - Engine Timing Tool Set	1.46

consists of:

		å
400.1026	Flywheel locking tool (3)	197
400.1027	Flywheel locking tool	436
400.1028	Camshaft locking tool (2)	36

des cam shaft locking tool

- · For the professional engine repair
- · For locking the cam shaft wheels when removing the cylinder head
- · Secure hold thanks to optimal positioning
- · Very high degree of accuracy

Application range: for Mercedes A-, B-, C-, CLC-, CLK-, CLS-, E-, G-, GL-, M-, R-, S-, SLK-, V classes, Sprinter, Vito and Viano with petrol engines (engine code: M104, M111, M112, M119, M120, M272, M273) and diesel engines with 4 valve technology (engine code: OM605, OM606, OM611, OM612, OM613, OM614, OM628, OM629, OM640, OM642, OM643, OM646, OM646 EVO, OM647, OM648, OM649)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



Suitable for		ø	Longth	å	
550.1193	Mercedes	5,8 x 6,0	212.0	38	

MINI

BMW / Mini - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the cam shaft
- · For changing the timing chain
- Very high degree of accuracy

Application range: BMW Mini (2001-2006) (engine code: W10B16AA/BA)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de





			kg
400.9090	7 pcs	BMW / Mini - Engine Timing Tool Set	1.93

consists of:

		å	
400.9091	Camshaft locking tool	575	
400.9092	Engine support bracket (4)	615	
400.9093	Timing chain pre-tensioning tool	215	

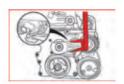
BMW / Mini - Engine Timing Tool Set

- · For the professional engine repair
- · For locking the cam shaft

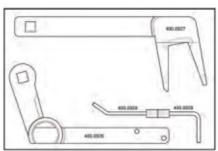
W11816AA)

- · For changing the timing chain
- Very high degree of accuracy
 In durable steel storage case
- Application range: BMW Mini One, Cooper, Cooper S with 6 petrol engines (engine code: W10816AA / W10816BA /

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







	_		8	
400.0925	4 pcs	BMW / Mini - Engine Timing Tool Set	2.02	SS 0

	å	
Serpentine belt tensioner	441	
Camshaft pulley loosening tools	421	
Tensioning locking pin	19	
Locking pin	20	
	Camshaft pulley loosening tools Tensioning locking pin	Camshaft pulley loosening tools 421 Tensioning locking pin 19



BMW / Mini / PSA - Engine Timing Tool Set

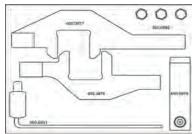
- ·For the professional engine repair
- For locking the cam shaftFor changing the timing chain
- Very high degree of accuracy
- · In durable steel storage case

Application range: BMW Mini with 1.6 engines (engine code: N14 / R56), Peugeot 207, 308 with 1.6 engines (engine code: EP6 / EP6DT / DTS), Citroën with 1.6 engines (engine code: EP6 / EP6DT / DTS)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de







			kg	
400.0875	7 pcs	BMW / Mini / PSA - Engine Timing Tool Set	1.49	

consists of

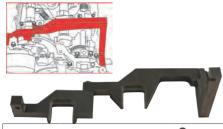
		9	
400.0851	Crankshaft timing pin	52	
400.0876	Camshaft alignment tool (inlet)	270	
400.0877	Camshaft alignment tool (exhaust)	423	
400.0878	Support clamp	93	
400.0880	Screw M6 x 30,0 mm (3)	7	

BMW / Mini / PSA - Engine Timing Tool Set

- · For the professional engine repair
- For locking the cam shaft
- · For changing the timing chain
- · Very high degree of accuracy

Application range: BMW Mini with 1.4 / 1.6 Valvetronic engines (engine code: N12), **Peugeot** 207, 308 with 1.4 / 1.6 engines (engine code: EP3 / EP6), **Citroën** with 1.4 / 1.6 engines (engine code: EP3 / EP6)

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			kg	
400.0850	7 pcs	BMW / Mini / PSA - Engine Timing Tool Set	1.40	
		1001 361		

consists of:

	Х		9	
400.0851	1	Crankshaft timing pin	52	
400.0852	1	Camshaft locking tool inlet (2)	812	
400.0853	1	Camshaft locking tool (EX)	358	
400.0854	3	Screwn M6 x 30,0 mm	9	

BMW / Mini - Engine Timing Tool Set

- · For the professional engine repair
- For changing the timing belt · Very high degree of accuracy

Application range: BMW Mini with 16V engines (engine

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



			g	
400.2475	8 pcs	BMW / Mini - Engine Timing Tool Set	126	

consists of:

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400.0165	2	Camshaft locking pin 5.0 mm	19	
400.0580	1	Crankshaft locking pin Ø 8,0 mm, 70 mm	30	
400.2476	1	Flywheel locking pin, BMW-Mini (5)	40	

MITSUBISHI

Hyundai / Mitsubishi / Volvo - Engine Timing Tool Set

- · For the professional engine repair
- · For actuating belt tensioners
- Very high degree of accuracy

Application range: universal usage on many Hyundai,

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



-				-
			g	
400.0075	2 pcs	Hyundai / Mitsubishi / Volvo - Engine Timing Tool Set	131	

Control on					
		å			
400.0076	Tensioning locking pin	630			
400.0077	Belt tensioner wrench	210			

Mitsubishi cam shaft locking tool

- For the professional engine repair
- Clamping device for a secure hold to change the timing belt
- Special plastic
- · Very high degree of accuracy

Application range: Mitsubishi Space Wagon 1997 onwards

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	Х		g	
150.3051	1	Mitsubishi cam shaft locking tool	30	

Mitsubishi cam shaft locking tool

- · For the professional engine repair
- Clamping device for a secure hold to change the timing belt
- ·Special plastic
- · Very high degree of accuracy

Application range: Mitsubishi Carisma from 1996 onwards, Space Star from 1997 onwards, Galant 2.0GTI from 1991

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	х		g	
150.3052	2	Mitsubishi cam shaft locking tool	60	

Mitsubishi cam shaft locking tool

- For the professional engine repai
- Clamping device for a secure hold to change the timing belt
- Special plastic
- Very high degree of accuracy

Application range: Mitsubishi 24V Galant 2.5 from 1997 onwards, 24V Sigma 3.0 from 1991 onwards, Galant 4 x 4 from

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



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	Х		9	
150.3053	2	Mitsubishi cam shaft locking tool	60	

Mitsubishi cam shaft locking tool

- For the professional engine repair
- · Clamping device for a secure hold to change the timing belt
- · Very high degree of accuracy

Application range: Mitsubishi Pajero 3500 from 1998

Please carry out an up-to-date cross reference test for the specific ehicle on www.timingtools.de



	х		9	
150.3054	2	Mitsubishi cam shaft locking tool	70	

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