

K15



KS TOOLS



ENGINE - SPARK PLUGS



Innovation is
our mission!



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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



	L mm	
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
- Special steel



	L mm	
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



	L mm	
500.7530	280.0	90

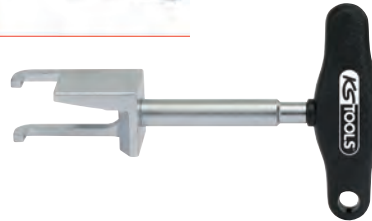


IGNITION COIL PULLER

T-handle ignition coil puller for 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: 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 opening mm	L mm	
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
- Chrome vanadium

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

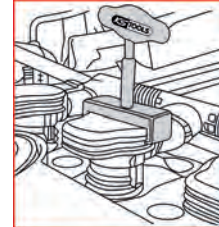


	Fork opening mm	L mm	
500.7540	26.0	135.0	150

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

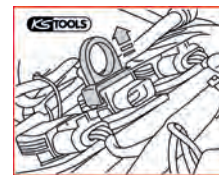


	Fork opening mm	L mm	
500.7550	44.0	105.0	200

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 finger pull ring
- Matt chrome
- Chrome vanadium

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 opening mm	L mm	
500.7555	44.0	90.0	100



T-handle ignition coil puller set for 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
- Covers almost all models of VAG and Audi engines
- With suspension hole
- 1 piece handle
- Matt chrome
- Chrome vanadium
- In durable plastic storage case



500.7560	4 pcs	T-handle ignition coil puller set for VAG engines	600
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consists of:

500.7540	T-handle ignition coil puller VAG engines	150
500.7545	T-handle ignition coil puller for VAG 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 profile
- 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



500.7532	Ø mm	L mm	Weight
	8,0-15,0	220,0	260

Spark plug connector pliers, long

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



500.7510	Ø mm	L1 mm	L2 mm	L3 mm	Weight
	8,0-15,0	290,0	145,0	50,0	280

Spark 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 profile
- 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



500.7501	Ø mm	L mm	Weight
	6,0	295,0	336

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 profile
- 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



500.7566	Ø mm	L mm	Weight
	8,0	320,0	400

Spark plug connector pliers, short

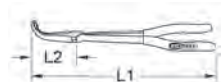
- Short design
- Universal usage
- Ideal for heat protection connectors
- 45° angled gripper sleeves
- Secure handling thanks to plier tips with milled inner profile
- Short plier arms
- For damage-free removal and insertion of spark plug connectors, even when the engine is warm
- With two component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



500.7533	Ø mm	L mm	Weight
	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 profile
- 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



500.7504	Ø mm	L1 mm	L2 mm	Weight
	12,0	285,0	65,0	315

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 profile
- 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



500.7567	Ø mm	L mm	Weight
	13,0	320,0	400

Spark plug connector pliers set

- For removing and inserting difficult 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



500.7565	2 pcs	Spark plug connector pliers set	800
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consists of:

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

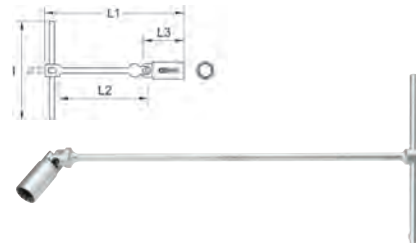


	mm	inch	L mm	kg
517.1170	16,0	5/8"	235,0	250
517.1175	21,0	13/16"	235,0	280



T-handle spark plug spanner with joint, long

- 12-point
- Double hexagon profile allows 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 finish
- Chrome vanadium



	Profile	mm	L mm	L1 mm	L2 mm	L3 mm	kg
517.1131	○	14,0	200,0	500,0	418,5	81,5	490
517.1132	○	16,0	200,0	500,0	418,5	81,5	500
517.1133	○	18,0	200,0	500,0	418,5	81,5	580
517.1134	○	21,0	200,0	500,0	418,5	81,5	590

T-handle spark plug spanner set with joint, long

- 12-point
- Double hexagon profile allows 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 finish
- Chrome vanadium



517.1130	4 pcs	14 - 16 - 18 - 21 mm	2,42
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Flexible head reversible ratchet

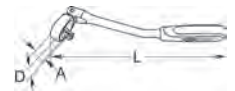
- According to DIN 3122 / ISO 3315
- Square drive adaptor to DIN 3120 / ISO 1174 with ball lock
- 180° revolving head
- Reversible
- Exact gearing 72 teeth ratchet mechanism
- Ejection mechanism on the ratchet head
- Ergonomic dual component handle
- Recessed reverse lever
- Matt finish
- Chrome vanadium



	A mm	D mm	L mm	Repair set	kg
914.3896	16,0	30,0	275,0	914.3897	260

CHROMEplus® flexible head reversible ratchet with cranked shaft

- 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
- Ejection mechanism on the ratchet head
- Ergonomic dual component handle
- Lightweight recessed reverse lever
- Chrome plated and mirror polished
- Chrome vanadium



	A mm	D mm	L mm	Repair set	kg
918.3895	16,0	30,0	275,0	914.3897	230

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 finish
- Chrome vanadium



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

Spark plug socket with joint, long

- 12-point
- Double hexagon profile allows 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 finish
- Chrome vanadium



	Profile	mm	L1 mm	L2 mm	L3 mm	kg
517.1191	○	14,0	500,0	418,5	81,5	370
517.1192	○	16,0	500,0	418,5	81,5	380
517.1193	○	18,0	500,0	418,5	81,5	390
517.1194	○	21,0	500,0	418,5	81,5	400



Spark plug socket

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



	Profile	mm	D1 mm	D2 mm	L mm	g
911.3804	○	16,0	20,0	18,0	63,0	60
911.3823	○	18,0	26,0	21,0	63,0	135
911.3805	○	21,0	22,0	19,0	63,0	60
911.3909	○	5/8"	22,0	20,0	63,0	60
911.3908	○	13/16"	27,0	20,0	63,0	60

CHROMEplus® Spark plug socket

- 6-point
- DIN 3124/ISO 3315
- FlankTraction-Profile
- 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	mm	D1 mm	D2 mm	L mm	g
918.3804	○	16,0	22,0	19,0	63,0	60
918.3805	○	18,0	26,0	20,0	63,0	60
918.3806	○	21,0	28,0	21,0	63,0	60
918.3991	○	13/16"	27,0	20,0	63,0	60
918.3992	○	5/8"	22,0	20,0	63,0	60

Special spark plug socket, extremely thin walled

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

Application range: BMW E90 N 54 engine 335i from 2006, 1 Series (F20) 118i
 Renault Modus, Twingo, Clio, Kangoo with 1.2 l 16V engine
 Peugeot 207, 307
 Citroën C4 1.4 and 1.6 l 16V engine, C5 2.0 l HPI engine
 Mercedes Motor M156, engine M 276
 Nissan Micra, Note
 MINI 1.2 - 1.4 l 4 cyl from 2007
 FORD 1.0 EcoBoost engine
 Alfa 1.8 TBI engine
 KIA



	Profile	mm	D1 mm	D2 mm	L mm	g
911.3990	○	14,0	26,0	20,0	63,0	60

CHROMEplus® special spark plug socket, extremely thin walled

- 12-point
- Double hexagon profile allows the pickup of hexagon and 12-point spark plugs
- Extra slim design
- For spark plugs with platinum electrodes for example Bosch 14 ZR
- 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
- Chrome vanadium

Application range: BMW E90 N 54 engine 335i from 2006, 1 Series (F20) 118i
 Renault Modus, Twingo, Clio, Kangoo with 1.2 l 16V engine
 Peugeot 207, 307
 Citroën C4 1.4 and 1.6 l 16V engine, C5 2.0 l HPI engine
 Mercedes Motor M156, engine M 276
 Nissan Micra, Note
 MINI 1.2 - 1.4 l 4 cyl from 2007
 FORD 1.0 EcoBoost engine
 Alfa 1.8 TBI engine
 KIA



	Profile	mm	D1 mm	D2 mm	L mm	g
918.3990	○	14	20,0	18,0	63,0	60

Special spark plug socket, thin walled

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

Application range: BMW E90 N 54 engine 335i from 2006, 1 Series (F20) 118i
 Renault Modus, Twingo, Clio, Kangoo with 1.2 l 16V engine
 Peugeot 207, 307
 Citroën C4 1.4 and 1.6 l 16V engine, C5 2.0 l HPI engine
 Mercedes Motor M156, engine M 276
 Nissan Micra, Note
 MINI 1.2 - 1.4 l 4 cyl from 2007
 FORD 1.0 EcoBoost engine
 Alfa 1.8 TBI engine
 KIA



	Profile	mm	Total length mm	mm	g
911.3991	○	14,0	64,0	18,0	60

Special spark plug socket with joint

- 12-point
- Double hexagon profile allows the pickup of hexagon and 12-point spark plugs
- Extra slim design
- with joint
- With rubber stop for holding the spark plugs
- For manual operation
- Matt finish
- Chrome vanadium



	Profile	mm	D mm	L mm	T mm	g
911.3999	○	14,0	19,0	92,0	19,5	110



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

Spark plug socket, long

- 12-point
- Double hexagon profile allows 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 rubber stop for holding the spark plugs
- Internal square in accordance with DIN 3120/ISO 1174
- For manual operation
- Matt finish
- 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



3/8"

	Profile	mm	L mm	kg
517.1143		14,0	250,0	300
517.1141		16,0	250,0	360
517.1142		21,0	250,0	560

CHROMEplus® spark plug service set

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



3/8"

	kg
918.0607 7 pcs CHROMEplus® spark plug service set	1,44

consists of:

	kg
918.3802 3/8" CHROMEplus® Wobble -Extension, knurled Length 150 mm	145
919.3804 3/8" CHROMEplus® LOKPLUS lengthener with lock, 150 mm	140
918.3990 3/8" CHROMEplus® Spark plug-Socket, 14 mm, 12 point	60
918.3804 3/8" CHROMEplus® Spark plug-Socket, 16 mm, 6 point	60
918.3805 3/8" CHROMEplus® Spark plug-Socket, 18 mm, 6 point	60
918.3806 3/8" CHROMEplus® Spark plug-Socket, 21 mm, 6 point	60
918.3895 3/8" CHROMEplus® Flexible-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 first thread gears
- Especially in common rail glow plugs
- Double sided usage
- Solid rubber



	L mm	kg
500.7520	240,0	75

TORQUE TOOLS

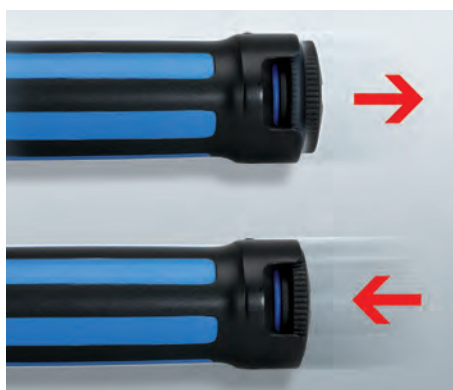
ERGOTORQUE® precision torque wrench with rotary mushroom ratchet head

- Actuation accuracy: $\pm 3\%$ 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 lb•ft divisions for precise adjustment
- Includes micrometer scale in N•m divisions for precise and fine adjustment
- 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 identification
- Includes test certificate in accordance with DIN EN ISO 6789:2003 national standard



3/8"

	N•m	Division	lb•ft	L mm	D mm	H mm	kg	
516.1422	3/8"	5-50	0.25	4 - 37	350,0	45,0	23,0	0,61



Torque limiter adaptor set

- 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 fixed 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



3/8"

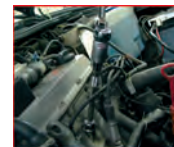
	kg
516.1500 2 pcs 18 - 24 Nm	410

consists of:

	kg
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 fixed 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



3/8"

	kg
517.1140 5 pcs Torque limiter spark plug socket set	2,07

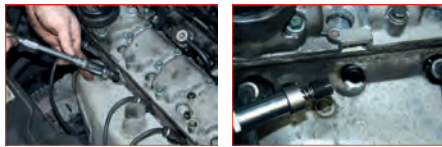
consists of:

	kg
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

REAMER FOR CLEANING

Special thread cleaner with integrated seal seat milling tool

- 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



	1/2"		
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 repair 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 gastight seat of the inserts
- Extremely thin walled inserts with rustproofing 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



150.5060	21 pcs	THREADfix repair set M12 x 1.25 for glow and spark plugs	920
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consists of:

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 M12 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 heads).
- 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 firmly 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 (M14x1.25 inner thread / M16x1.25 outer thread).
- Delivery includes inserts for tapered sealing seats (without seal ring), e.g. Ford, Peugeot, MB etc.
- In durable plastic storage case



150.1280	16 pcs	Spark plug thread repair set M12 x 1,25 for spark plugs	200
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consists of:

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 repair 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 gastight seat of the inserts
- Extremely thin walled inserts with rustproofing 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



150.5080	21 pcs	THREADfix repair set M14 x 1.25 for spark plugs	1.16
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consists of:

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

Stainless 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 gastight 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



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

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/flaring 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:

M8 x 1.0: Opel, Fiat, Mercedes, etc.
 M9 x 1.0: Opel, Fiat, etc.
 M10 x 1.0: Audi/Volkswagen, Seat, Škoda, Ford, Mercedes, BMW, etc.
 M10 x 1.25: Audi/Volkswagen, Seat, Škoda, Ford, etc.
 M14 x 1.25: Audi/Volkswagen, Opel, Mercedes, Seat, Škoda, BMW, etc.



	mm	mm	Length mm	
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

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



	Ø mm	mm	Length mm	g
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



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

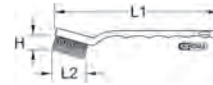
consists of:

	g
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
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

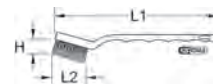
- 2-rowed
- For delicate cleaning of electrodes and contacts on spark plugs
- For surface preparation
- Steel wire



	H mm	L1 mm	L2 mm	g
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 mm	L1 mm	L2 mm	g
201.2316	14.8	170.0	24.5	20

Contact file for spark plug contacts

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



	Length mm	Width mm	g
201.2330	2	150.0	8.0 5



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.



	g
340.0010 38 pcs MASTER cleaning brush set	1.43

consists of:

	g
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
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
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

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



Teeth pitch	Measuring range mm	L mm	g
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

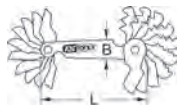
- For controlling and increasing the interior thread and outside thread
- Imperial sizes
- Cylindrical tapered
- Leaves fan shaped arrangement
- Leaves individually marked with size
- Out of hardened spring steel



Teeth pitch	Measuring range	B mm	L mm	g
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



Teeth pitch	Measuring range	B mm	L mm	g
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



Length mm	g
550.1507	68,0
	60



Test lamp for ignition cable

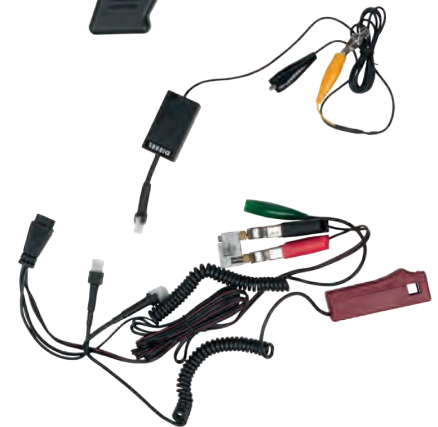
- For quickly finding defective ignition cables
- No piercing of the insulation, prevents contact with live wires
- Correct operation of the ignition cable is indicated by a light



Length mm	Cable length mm	g
550.1506	200,0	1200
		40

Digital ignition timing gun (stroboscope) with LED display

- 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 pliers 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
- Voltmeter
- Control dial on housing side for adjusting the flash delay
- Mode can be chosen using a push-button on the back of the housing



Length mm	Width mm	Height mm	g
550.1500	270,0	65,0	180,0
			885



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