

TOOL SELECTION

2018/19

SELECTED
PROBLEM SOLVERS
—
FROM SPECIALISTS
TO AUTOMOTIVE
PROFESSIONALS



UNIVERSAL GLOW PLUG REMOVAL KIT BASIC M8X1, M9X1, M10X1 & M10X1.25 90417800

Universal tool kit for removing broken glow plugs from the cylinder head:

1. Removing the centre electrode
2. Drilling-out the core of the glow plug thread
3. Tapping the extractor-thread in the glow plug
4. Retapping the thread in the cylinder head
5. Removing the damaged glow plug



UNIVERSAL GLOW PLUG THREAD TAP SET M8X1, M9X1, M10X1 & M10X1.25 90411200

Special TAP's with guiding-pin.

The cleaning and rethreading process will be 100% guided and centered. Cleaning & renewing of the thread should be done anytime the glow plug will take out of the cylinder head!

Suitable to M8x1, M9x1, M10x1 and M10x1.25 glow plug threads



UNIVERSAL GLOW PLUG ELEMENT REMOVAL SET M8X1, M9X1, M10X1 & M10X1.25 90417900

For removing of broken elements of glow plugs tips: It is possible that during the removal of the glow plug the delicate element breaks off and the tip remains in the shaft. This is a comprehensive universal kit as there are several combinations of thread and tip diameter. In the kit there are various tools such as the centering aids, variable depth stops, drills, etc. This unique comprehensive high quality kit is capable of removing most combinations of broken glow plug tips on most vehicles.

Also available:

90417910 - Suited for PSA DV6, Ford DLD416

90417920 - Suited for Toyota 1CD-FTV, M10x1.25



UNI M8X1
GLOW PLUG DRILLING OUT KIT
60416300



UNI M10X1
GLOW PLUG DRILLING OUT KIT
90417400



UNI M10X1,25
GLOW PLUG DRILLING OUT KIT
90417500



	M8x1 60416300	M8x1 60416305	M10x1 90417400	M10x1 90417300	M10x1 6041740	M10x1.25 90417500	M12x1.25 6041760
Removing the central electrode	✓	✓	✓	✓	✓	✓	✓
Drilling out the glow plug thread	✓	✓	✓	✓	✓	✓	✓
Extracting the glow plug	✓	✓	✓	✓	✓	✓	✓
Cleaning the glow plug hole with brushes	✓	✓	✓	✓	✗	✓	✗
Recutting the fastening thread in the cylinder head	✓	✓	✓	✓	✓	✓	✓
Cleaning the sealing seat in the glow plug hole with a reamer	✓	✗	✓	✗	✗	✓	✗
Renewing the fastening thread in the glow plug hole	✓	✗	✓	✗	✗	✓	✗



GLOW PLUG DRILLING-OUT
UPGRADE SET M9
INCL. THREAD REPAIR
60416320

Upgrade to 60416300 M8 glow plug drilling-out set incl. Thread Repair

This kit will upgrade the M8 Kit to M9 and allows the drilling-out of the broken glow plug & the repairing of the broken glow plug thread with new tap-inserts.



GLOW PLUG DRILLING-OUT
UPGRADE SET M9
WITHOUT THREAD REPAIR
60416325

Upgrade to 60416305 M8 glow plug drilling-out set

This kit will upgrade the M8 Kit to M9 and allows the drilling-out of the broken glow plug.



UNIVERSAL GLOW PLUG BRUSHES SET
14 PCS.
90490300

To clean glow plug holes and to prepare for the use of reamers.
Brush made of steel and brass wire Ø 4.7 mm - 11 mm.

Suitable to M8x1, M9x1, M10x1 and M10x1.25 Glow plug tip & shaft

14 PIECES





UNIVERSAL GLOW PLUG SEALING-SEAT
& SHAFT CLEANING SET

60417300

This optimal reamer set includes common reamers for different engines for cleaning the glow plug hole and especially the sealing seat in the cylinder head.

Content	reamers with actuator, adapter guide and 7 brushes (Ø 4.7 mm - 11 mm)
Suited for	M8x1-90°, M8x1-120°, M9x1-90°, M10x1-60°, M10x1-90°, M10x1.25-60°, M10x1.25-90°, M12x1.25-60°



GLOW PLUG SHAFT REAMER

6041625	for M8x1 sealing seat angle 90°
60416225	for M8x1 sealing seat angle 120°
60416215	for M9x1 sealing seat angle 90°
6041725	for M10x1 sealing seat angle 60°
60417125	for M10x1 sealing seat angle 60° tip 4,2 mm
60417025	for M10x1 sealing seat angle 90°
6041715	for M10x1 sealing seat angle 60° M10x1.25 sealing seat angle 60°
60417225	for M10x1.25 sealing seat angle 60°
60417029	for M10x1.25 sealing seat angle 90°
60417105	for M10x1, M10x1.25 sealing seat angle 120°
60417115	for M10x1.25 sealing seat angle 60° tip 3.5 mm
6041615	for M12x1.25 sealing seat angle 60°



UNIVERSAL COMPRESSION-TEST
ADAPTER SET

M8X1, M9X1, M10X1 & M10X1.25










60920000

Universal tool for conducting the compression test through the glow plug hole. Kit includes guides, sealing cones & thread adapters. Connecting thread for the compression tester: M12x1.5



PROPRIETARY



60915800	Adapter: NW5 to Internal Thread M12x1.5 (with valve)	
60918900	Adapter: R1/4" to Internal Thread M12x1.5 (without valve)	
60917050	Adapter: Euro Coupling to Internal Thread M12x1.5 (without valve)	
91220500	Adapter: NW5 to Internal Thread M12x1.5 (without valve)	
60917080	Adapter: CT Coupling to External Thread M12x1.5 (without valve)	
60917010	Adapter: Internal Thread 12x1.5 to External Thread 12x1.5 (with valve)	
60917070	Adapter: AG G1/4" (Facom e.g. 911B) to Internal Thread M12x1.5 (with valve)	
60917075	Adapter: Plug-In Nipple "Facom new" to Internal Thread M12x1.5 (with valve)	
60917090	Adapter: Plug-In Nipple AST to Internal Thread M12x1.5 (with valve)	

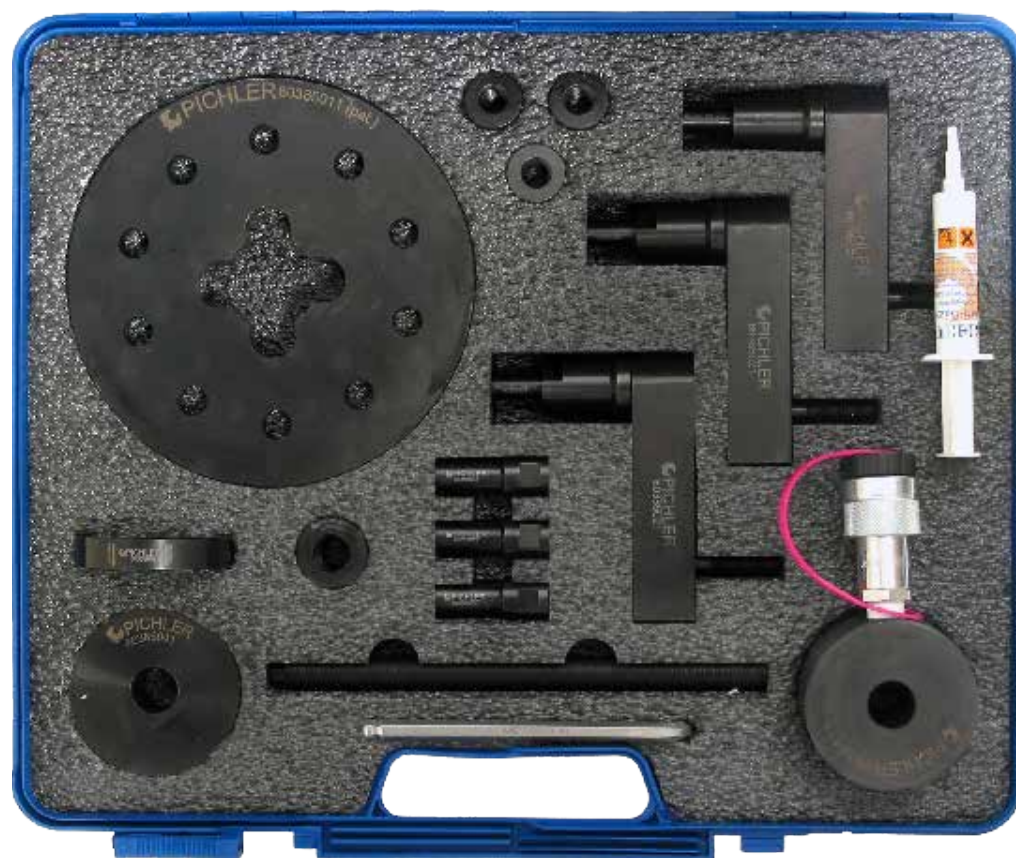


UNIVERSAL INJECTOR REMOVAL KIT WITH 12 TON HYDRAULIC CYLINDER

60385395

The legs/arms can be adjusted to fit each position in a circle of 300 mm and are individually height adjustable.

The adaptors (optionally available, part-no. 60384660) connect CR-injectors from various manufacturers (e.g. Bosch, Siemens, Delphi, etc.). The injector will be extracted from the cylinder head with the tensile force of the 12 ton hydraulic cylinder.



INJECTOR REMOVAL ADAPTER SET 15 PCS.

60384660

Adapterset

Suitable for our Universal Hydraulic Injector Extractor 60385395 or 8kg Slide Hammer 6148800.

Suited for: Bosch, Denso, Siemens / Continental & Delphi Injektoren



FLEXIBLE MAGNETIC LIFTER SET

52601100

For retrieving heavy metal parts from small spaces, Adhesion force 120g - 1800g



UNIVERSAL REMOVER KIT FOR BROKEN INJECTORS

60382400

If the injector breaks after an unsuccessful removal attempt at the lower screw connection, the remainder of the injection nozzle can be pulled out with this set. With the two support sleeves that can be used on both sides and the two different taps, this kit can be used universally. After successful extraction, it is recommended to use the cleaning kit 9038100 to clean the injector shaft & remove fouling and soot deposits.



UNIVERSAL INJECTOR REMOVAL SET, MANUAL OPERATION

60384435

For non-destructive removal of various slightly and moderately seized injectors. The impact weight is connected with the injector by means of the joint adaptor and a loosening lever screwed into the rail line connection. The injector does not need to be destroyed to be removed.

Also available without adjustable claw:

60384535 - Universal Injector Removal Set II, manual actuation, without adjustable claw



INJECTOR SERVICE KIT DV6

60385420

For removing the injector and replacing the injector shaft sleeves and the shaft seals on the PSA DV6 and Ford DLD-416 engines. The kit also includes all required tools for installing the injector shaft sleeves and shaft seals correctly without damage.

Consisting of:

- > Injector removal tools
- > Cleaning scrapers for removing adhesive residues
- > Cleaning aids
- > Four original injector shaft sleeves and special adhesive
- > Injector shaft sleeve and oil seal press in tools

Suited for: Citroën, Peugeot, Ford, Fiat, Volvo, BMW, Mazda and Suzuki Engine code PSA DV6 / Ford DLD-416

PROPRIETARY



INJECTOR REMOVAL SET SOFIM

60385345

For removing seized common rail injectors from the cylinder head using a 20 ton hollow piston cylinder. If the injector breaks during the extraction at the bottom screw connection, is it possible to pull the rest of the injector using the additional extraction spindles. Supplied with an illustrated manual.

Suited for:

SOFIM 2,3lt engine code: F1AE-2.3l in the: Fiat Ducato, Iveco Daily, (Euro 3, 4 & 5)

SOFIM 3,0lt engine code: F1CE-3.0l in the: Fiat Ducato, Iveco Daily, Massif, Peugeot Boxer, Citroën Jumper (Euro 3, 4 & 5), Mitsubishi Fuso Canter

After the successful extraction we recommend to remove carbon and soot deposits from the injector-shaft with our cleaning kit 9038100.

Also available without hydraulic cylinder:

60385340 - Injector Removal Set SOFIM without 20 ton hydraulic cylinder for F1AE-2,3 l and F1CE-3,0 l

**TORN-OFF
INJECTORS CAN
ALSO BE
REMOVED**



INJECTOR REMOVAL SET M9R / M9T / R9M

20 TON PULLING FORCE

60382095

Suited for:

M9R (2.0): Nissan: Primastar, Qashqai, X-Trail, Opel: Vivaro, Renault: Espace IV, Grand Scenic II, Grand Scenic III, Koleos, Laguna II, Laguna III, Latitude, Megane CC, Megane II, Megane III, Scenic II, Scenic III, Trafic II, Vel Satis
M9T (2.3): Nissan: NV400, Opel: Movano, Renault: Master III
R9M (1.6): Mercedes C-Klasse: C 180d / C 200d, Nissan: Qashqai, X-Trail, Opel: Vivaro, Renault: Espace V, Fluence, Grand Scenic III, Kadjar, Megane CC, Megane III, Mégane IV, Scénic III, Talisman II, Trafic, Trafic III

For removing frozen common rail injectors from the cylinder head using 20 tons hollow piston cylinder. In case the injector breaks off during pulling on the lower screw connection can the additional pull spindles be used to pull out the rest of the injector.

- > For piezo and solenoid valve controlled Bosch injectors
- > Because of the patented construction, where force is distributed on six places on the cylinder head, is pulling with 20 tons pulling force made possible
- > Additionally are the injectors clamped multiple times. Through this multiple clamping is a safe pulling with 20 tons pulling force assured
- > Including illustrated operating instructions

Also available without hydraulic cylinder:

60382105 - Injector Removal Set M9R / M9T / R9M without 20t hydraulic cylinder



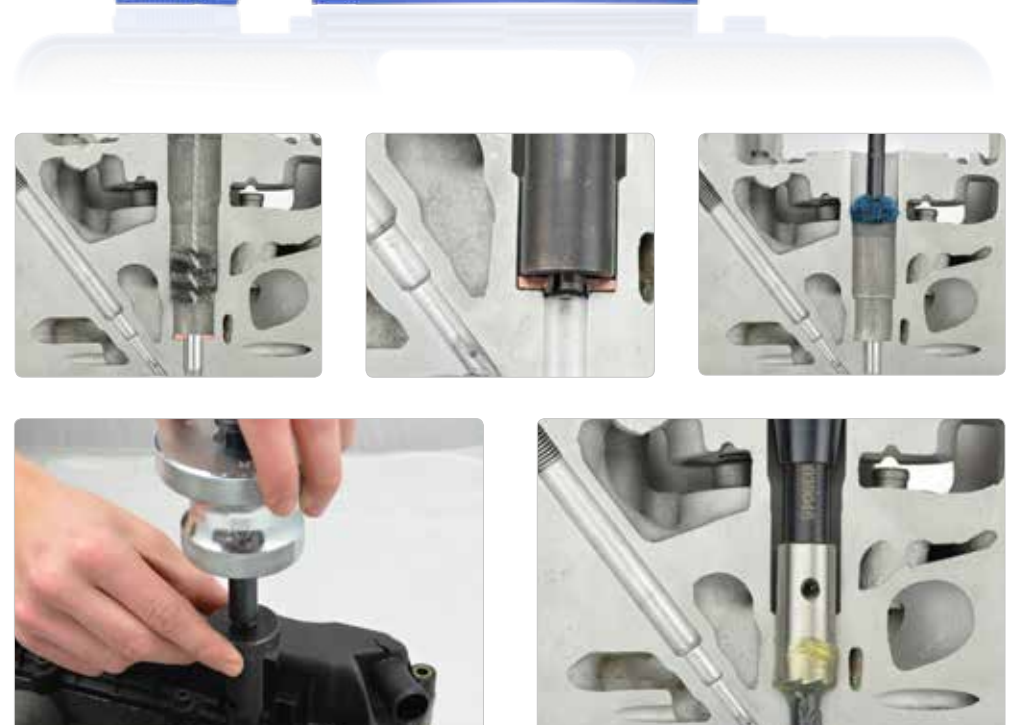
INJECTOR SHAFT CLEANING SET

COMPLETE WITH 5 MODULES

9038100

Suited for: Universal

For optimal cleaning and revising the injector shaft. The injector shaft wall, the sealing seat for the injector and the bore for receiving the injector nose are all cleaned with special brushes. In case of severe contamination or damage is the sealing seat precise and controlled revised with the milling tool, in such a way that a perfect sealing surface is reobtained. Seized copper sealing rings can be removed from injector shaft simply and without damage to the cylinder head. Consists of modules 1, 1.1, 2, 3 & basic module.



RECOMMENDED ACCESSORIES:

90390485 - ADJUSTABLE DEPTH GAUGE FOR MILLING CUTTER HOLDER



UNIVERSAL INJECTOR SEALING RING SET

60390705

Set consisting of:

Universal Injector Sealing
Ring Assortment 450 pcs.,
Sealing Ring Extractor with Slide
Hammer 1350 gr.



SENSOR SERVICE SET MASTER

60525000

Specialist sockets for the removal of sensors and transmitters.

- > The double casing prevents the socket from bending open
- > The slot prevents damage to the cable
- > Tap for repair and cleaning of the thread
- > Can also be used in confined spaces
- > Can also be used with a combination spanner
- > Made of hardened tool steel



VAG WHEEL HUB AND BEARING TOOL KIT

91694100

For removing and installing wheel hub and bolted wheel bearings of all VAG vehicles

Suitable for all bolted wheel bearing sizes of VAG-cars. Can be used both mechanical and hydraulically. Also available as a upgrade kit, for our VAG wheel bearing tool II 9169585 or 9169590.

- > Wheel hub can be removed without removing the drive shaft
- > Drive shaft is fixed and this way not damaged when removing the hub
- > No clamping screws and wishbone ball pins have to be removed, so a wheel alignment is not necessary anymore
- > Hub is pressed in in-situ, thus the drive shaft can be easily inserted
- > Including special socket to unscrew the hard to reach wheel bearing bolts



UNIVERSAL PULLEY PULLER CONTINUOUS ADJUSTABLE

90487665

For removing camshaft and injection pump pulleys, etc.

Suitable for all bolted wheel bearing sizes of VAG-cars. Can be used both mechanical and hydraulically. Also available as a upgrade kit, for our VAG wheel bearing tool II 9169585 or 9169590.

- > 3 continuous adjustable puller legs, \varnothing 12 mm (puller leg) \varnothing 48 – 90 mm
- > Extra long puller legs for special pulleys (e.g. for Renault 1.5dCi)
- > Strong puller force spindle M14x1.5 with centring ball
- > Suitable for material thickness up to max. 10 mm
- > Compact design allows it to be used in situ
- > Puller bridge disc with 6 slots for use on different hole pitches



SOCKET XZN12

91694112

72 mm long, 1/2" drive, extra slim design

For loosening the screws of the wheel bearing in the knuckle. The extra-slim design allows the screws to be removed without removing the drive shaft or the ball joint.



**PULLER SET
FOR GLOW PLUGS &
INJECTORS OF
PETROL ENGINES**
60417975

Ideally suitable for e.g. frozen glow
plugs and injectors of petrol engines.



UNIVERSAL WHEEL HUB REMOVER
61479005

With hydraulic spindle, adapters, mounting screws & nuts
Flange for use on 4, 5, or 6 bolt stud design. For use on almost all common cars
and light trucks.

6147840	Flange
6149146	Adaptor 1½" x 16G
6148710	Adaptor (1½ x16G to M18 x 1,5)
10416500	Hydraulic Ram 12 ton
61487290	Replacement Wheel Bolts 15 pieces
61487390	Replacement Wheel Bolts 15 pieces
51.2110 & 151.2112	Allen Keys 10 & 12 mm



Also available without spindle: 61468401

HYDRAULIC RAM 17 TON
80251250

Lifting capacity	17 Ton
Stroke	50 mm
Closed height	279 mm
Operating pressure	700 bar
Weight	4,8 kg
External thread	1½"-16



PICHLER
built to succeed.

**HEADQUARTER
AUSTRIA
INNSBRUCK**

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