

2017 TOOL SELECTION



ÖSTERREICH

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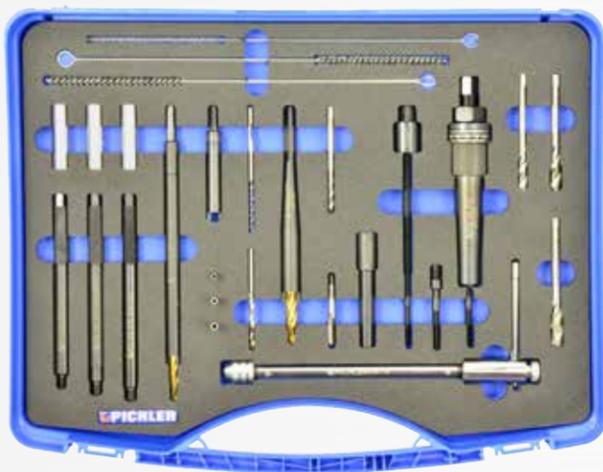
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UNIVERSAL



UNIVERSAL GLOW PLUG DRILLING OUT

M8x1, M10x1, M10x1.25



Tools for removing glow plugs and for cleaning or reworking the glow plug hole.

99705190

PROPRIETARY



UNIVERSAL GLOW PLUG ELEMENT REMOVAL SET

M8x1, M9x1, M10x1 & M10x1.25

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.

Suited for
Universal

Suited for
PSA DV6, Ford DLD416

Suited for
Toyota 1CD-FTV, M10x1.25

90417900

90417910

90417920



2017 TOOL SELECTION



60416300

**UNI M8X1
GLOW PLUG DRILLING OUT KIT**



90417400

**UNI M10X1
GLOW PLUG DRILLING OUT KIT**



90417500

**UNI M10X1,25
GLOW PLUG DRILLING OUT KIT**



UNIVERSAL GLOW PLUG DRILLING OUT KIT

	M8x1	M8x1	M10x1	M10x1	M10x1	M10x1.25	M12x1.25
	60416300	60416305	90417400	90417300	6041740	90417500	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	✓	✗	✓	✗	✗	✓	✗



14 PIECES



GLOWPLUG HOLE BRUSHES SET

- Brush made of steel and brass wire
- Ø 4.7 mm - 11 mm
- Two brushes for each size

90490300



UNIVERSAL GLOW PLUG SEALING SEAT REAMER

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°

60417300

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



UNIVERSAL COMPRESSION TEST ADAPTER

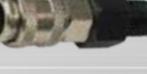
M8x1, M9x1, M10x1 & M10x1.25



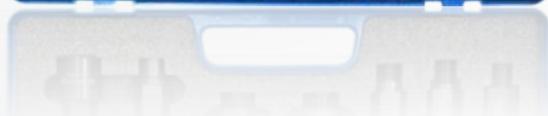
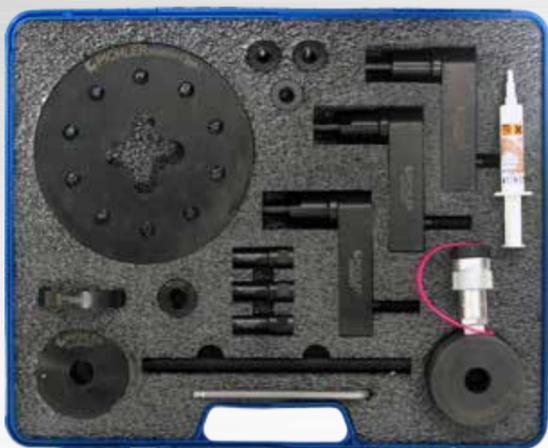
- Versatile because of the combinations of guides, sealing cones and adapters.
- Connection for the compression tester: M12x1.5

60920000

ADAPTER

60915800	Adapter: NW5 to Internal Thread M12x1.5 (with valve)	
60918900	Adapter: R 1/4" 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 G 1/4" (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)	

INJECTOR REMOVAL ...



UNIVERSAL INJECTOR REMOVAL KIT

with Hydraulic Hollow Piston Cylinder 12 t



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) connect the CR-injectors from the various manufacturers (Bosch, Siemens, Delphi, etc.) to the extraction spindle. The injector is extracted from the cylinder head with the tensile force of the 12 ton hydraulic cylinder

- Spindle with connecting thread M18x1.5
- Height adjustable pivot system
- For straight and angled mounted injectors

60385395

INJECTOR REMOVAL AND DISMANTLING SET 24 PCS.

Universal toolkit for disassembling the injector and for preparing the removal of the injector. Optional actuation tools for removing the injector are e.g. the Slide Hammers 5 or 8 kg.



Contents: 10 Adapters (see table), 4 Slotted Sockets to remove and install the solenoids, 2 Allen Sockets 10 with Hole, 2 Releasing Levers (IT M12x1.5 and OT M12x1), Ball Joint Adapter IT M18x1.5 & IT M18x1.5, Pin Socket, Socket 7/8" hexagon (flat milled).

60384650

INJECTOR REMOVAL ADAPTER SET 15 PCS.

Adapterset
suitable for our Universal Hydraulic Injector Extractor **60385395** or 8kg Slide Hammer **6148800**.



60384660

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

FLEXIBLE MAGNETIC LIFTER SET

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

52601100

UNIVERSAL INJECTOR REMOVAL SET II, MANUAL ACTUATION



For non-destructive removal of various slightly and moderately jammed injectors.

60384435

Universal Injector Removal Set II, manual actuation, **with** adjustable claw

60384535

Universal Injector Removal Set II, manual actuation, **without** adjustable claw



INJECTOR REMOVAL, INJECTOR SLEEVE AND SEALING RING FITTING TOOL PSA DV6

Supplementary Set for removal of CR injectors, cleaning and replacement of shaft seal and the injector sleeves in PSA DV6 engines. For the operation the Injector Universal Removal Set (p/n **60385395**) is recommended. However, our 8kg slide hammer with connecting thread M18x1,5 (p/n **6148800**) can also be used.

Contents:

- Extraction adapter for Bosch, Siemens and Denso CR-injectors.
- 25 Cotton Bud Swabs for removing oil and dirt.
- Cleaning Cutter to remove the adhesive and carbon deposits.
- Pressing Tool for the injector sleeves and the sealing ring.
- 2 injector sleeves.
- Adhesive and sealant.

60385433

Suited for: PSA DV6 engine

INJECTOR REMOVAL SET SOFIM

PROPRIETARY



Use: For removing frozen common rail injectors from the cylinder head using a 20 ton hollow piston cylinder. If the injector tears during the extraction at the bottom screw connection, it is possible to pull the rest of the injector using the additional extraction spindles.

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**



Torn-off injectors can also be removed



60385345

Injector Removal Set SOFIM **with** 20 ton hydraulic cylinder for F1AE-2,3 l and F1CE-3,0 l

60385340

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

2017 TOOL SELECTION



INJECTOR SHAFT CLEANING SET COMPLETE WITH 5 MODULES



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

Suited for: Universal

9038100



RECOMMENDED ACCESSORIES:
Variable Depth Gauge for Milling
Cutter Holder 90390485



PROPRIETARY

MODULE 1, BRUSHES



Content:
5 Steel Wire Brushes, Brush Holder, Bit Holder Flexible, 2 End Brushes, Plastic guide for end brushes, Setting tool and sealing plugs 8 & 10 mm

9038010

MODULE 1.1, BRUSHES PLUS



Content:
5 Steel Wire Brushes Ø18, 19, 21, 24 & 26mm, 8 Injector Seat Tex Brushes (Coarse and fine), Tex Brush Holder, 1 Pipe Brush

9038011

MODULE 2, MILLING



Content:
3 Injector Seat Milling Cutters: 180° Ø17mm / 180° Ø15/17mm & 120° Ø17/18,8mm - conical, Basic Unit with 3 Cones and Depth Stop, Cutting Grease and Allen Key 3mm

9038020

MODULE 3, EQUIPMENT



Content:
Universal Sealing Ring Extractor -To extract the seized copper sealing rings from injector shaft, Slide Hammer 1.35 kg, Flexible Lamp BAL

9038030

UNIVERSAL & USER-FRIENDLY



MOTOR-GETRIEBESTÜTZE UNI

A user-friendly universal engine and gearbox support, which is not a base unit with adaptors, but one unit with scissor jack.

- Universally usable
- Practical operation by one person
- Simple supporting thanks to the scissor jack
- Extendable spindles

Max. carrying capacity	250 kg
Tot. length	1050 mm
Tot. Height	100 mm
Max. lifting height of the Scissor jack	260 mm
Weight	10 kg



61136500

PREMIUM TRANSVERSE TRAVERSE

- for Univ. Engine and Gearbox Support **61136500**
- Stronger spindles in two different lengths with hexdrive (245 mm und 495 mm)
- Larger and more flexible spans through extension arms
- Large support buffer for alarger bearing area to protect the underbody



61135510



DIESEL FILTER HOUSING TOOL FORD 1/2"

Mounting and removing of the fuel filter for FORD Duratorq engine 2,2 l.

- from high quality galvanized steel
- there is currently no suitable OEM tool

Suited for:
Transit Custom from 04/2012, Tourneo Custom from 04/2012, Transit from 08/2013

91208980



CAMSHAFT WHEEL REMOVAL TOOL OM 271 1/2"

- with special drilling $\varnothing 10$ mm
- Hole depth 22,5mm
- TXB 100 x 100
- Suited for Mercedes

60831720

NEW

DRAIN PLUG KEY VAG



Use: drive 1/4" key for removing and installing the plastic oil drain plug



91223870



IMPACT SOCKET 1/2" LONG AF 24x77MM



- for high-pressure fuel sensors
- 1/2" drive AF 24x77 with clearance inside

60582400



RECOMMENDED ACCESSORIES:
Plastic oil drain plug VAG, Set 15 pieces **91223855**



NEW



INJECTOR REMOVAL SET M9R / M9T / R9M

Use: 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.

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

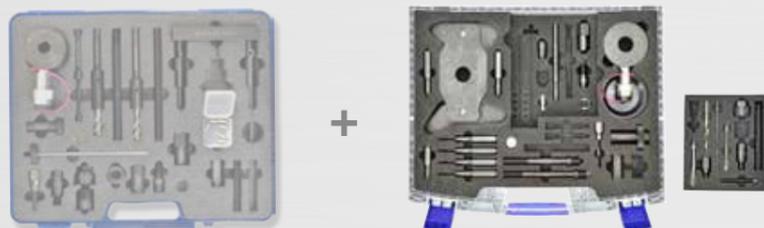
M9T (2.3): Nissan: NV400, **Opel:** Movano, **Renault:** Master III

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

60382095 Injector Removal Set M9R / M9T / R9M with 20t hydraulic cylinder

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

- 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.



UPGRADE SET: FOR M9R 12 TONS TO THE 20 TONS M9R / M9T / R9M (20 TONS) SET

Application: With this set is it possible to upgrade an present Injector Removal Set M9R (60385095/60385105 - 12 tons) to the M9R / M9T / R9M (20 tons) set.

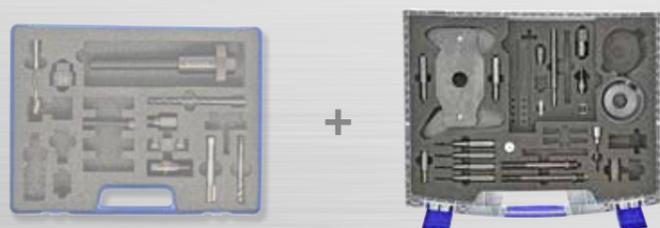
60382115 Injector Removal Upgrade Set from 60385095/60385105 to the M9R / M9T / R9M (20 tons) set



UPGRADE SET: SOFIM TO M9R / M9T / R9M (20 TONS)

Application: With this set is it possible to upgrade an present Injector Removal Set SOFIM (60385345) to the M9R / M9T / R9M (20 tons) set.

60382125 Injector Removal Upgrade Set from 60385345 to 60382095/60382105



UPGRADE SET: 60385050 AND 60385095/105 TO MOD. M9R / M9T / R9M (20 T.)

Application: With this set is it possible to upgrade an present Injector Removal Set „M9R Update“ (60385050) to the M9R / M9T / R9M (20 tons) set.

60382120 Injector Removal Upgrade Set from 60385050 to 60382095



UPGRADE SET: MOD. M9R / M9T / R9M (20 T.) TO INJECTOR REMOVAL SET SOFIM

Application: With this set is it possible to upgrade an present Injector Removal Set M9R / M9T / R9M (60382095) to the SOFIM set.

60385350 Injector Removal Upgrade Set from 60382095 to 60385340/60385345