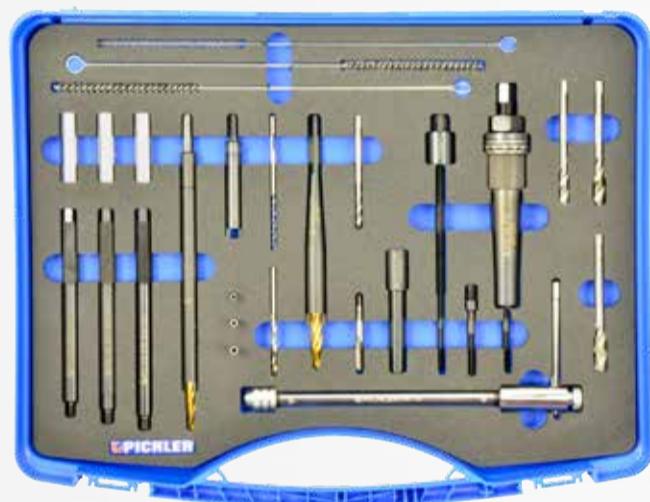


2017 TOOL SELECTION



UNIVERSAL



UNIVERSAL GLOW PLUG DRILLING OUT SET

M8x1, M10x1, M10x1.25



99705190

Tools for removing glow plugs and for cleaning glow plug holes.

SLIDE HAMMER 0.7 KG

For fast removal of glow plug applications or for removing slightly rusted injectors.

1030210

ADAPTER M10-M8

Use on sliding hammer for fast removal of glow plugs.



6041798



UNIVERSAL GLOW PLUG ELEMENT REMOVAL SET

M8x1, M9x1, M10x1 & M10x1.25

Use to remove broken elements of glow plug tips: During the removal of glow plugs, it is possible that delicate elements break off and the tip remains in the shaft. This comprehensive, universal kit contains several combinations of thread and tip diameters. The kit contains various tools such as centering aids, variable depth stops, drills, etc.

This unique, high quality kit is capable of removing most combinations of broken glow plug tips on most vehicles.

Suitable for All models	Suitable for PSA DV6, Ford DLD416	Suitable for Toyota 1CD-FTV, M10x1.25
90417900	90417910	90417920



location

drill out

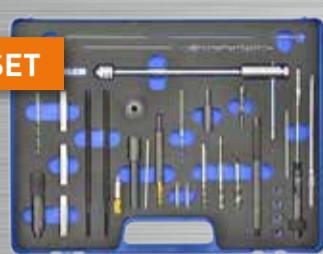
pulling

removing

cleaning

2017 TOOL SELECTION

COMPLETE SET



60416300

UNI M8X1
COMPLETE GLOW PLUG DRILLING OUT SET

COMPLETE SET



90417400

UNI M10X1
COMPLETE GLOW PLUG DRILLING OUT SET

COMPLETE SET



90417500

UNI M10X1,25
COMPLETE GLOW PLUG DRILLING OUT SET

Customized for your needs, these kits can be assembled in various ways.
Choose from only drill out kit or with thread repair, cleaning and repairing tools.

UNIVERSAL

COMPLETE GLOW PLUG DRILLING OUT SET

Includes thread repair/cleaning tools

	SIZE	M8x1	M8x1	M10x1	M10x1	M10x1	M10x1.25	M12x1.25
	CODE	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		✓	✓	✓	✓	✗	✓	✗
Refreshing 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		✓	✗	✓	✗	✓	✓	✗



THREADED COILS AND DRILL SLEEVES

FOR SET M8X1

6044080 Spare coil M8x1x11mm short, 1pc

6041641 Guiding sleeve Ø2,7mm for drill out glow plug electrode



FOR SET M10X1, M10X1,25

60441000 Spare coil M10x1x10mm short, 1pc

60441050 Spare coil M10x1x19mm long, 1pc

60441150 Spare coil M10x1.25x17mm, long, 1pc

6041749 Guiding sleeve Ø3,5mm for drill out glow plug electrode

6041751 Guiding sleeve Ø2,6mm for drill out glow plug electrode

SLIDE HAMMER 0.7 KG

- Hammer weight: 0.7 kg
- Sliding Rod IT M10

1030210



ADAPTERS

6041798

Adapter M10,M8 for use on Sliding Hammer for fast glow plug removal.



60384404

Adapter M10/M18x1.5 for use on Sliding Hammer for Denso Injector removal.

MILLING BITS

FOR SET M8X1

6041635 Spare milling bit Ø7,0 mm



FOR SET M10X1/M10X1,25

60417355 Spare milling bit Ø9,0mm, long 84mm

60418758 Spare milling bit Ø9,0mm, short 53mm



long



short

Other models on request!

14 PIECES



GLOW PLUG HOLE BRUSH SET

- Brushes are made of steel and brass wire
- Ø 4.7 mm - Ø 11 mm
- Two brushes for each size
- Contains extra long and thin brushes for TOYOTA

90490300

Individual sizes on request.



UNIVERSAL GLOW PLUG SEALING SEAT REAMER SET

This optimal reamer set includes common reamers for different engines. Use for cleaning and refacing glow plug holes and especially useful for conical sealing seat in cylinder head.



Kit also contains guiding tool, cleaning brushes and glow plug hole finder.

Content

Ramers with actuator, adapter guide and 7 brushes (Ø 4.7 mm - Ø 11 mm)

Suitable for:

M8x1-90°, M8x1-120°, M9x1-90°, M10x1-60°, M10x1-90°, M10x1.25-60°, M10x1.25-90°, M12x1.25-60°

60417300

GLOW PLUG SHAFT AND SEALING SEAT REAMER, INDIVIDUALLY

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°
60417115	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°



THREAD REPAIR TAP WITH CUTTING FUNCTION

5758	Special tap inner M8x1 x outer M10x1
5576	Special tap inner M9x1 x outer M11x1
5577	Special tap inner M10x1 x outer M12x1
10730	Special tap inner M10x1,25 x outer M12x1,25
10731	Special tap inner M12x1,25 x outer M14x1,25

Specially designed tap with guider.
Contains front guiding part, original pulling thread, middle pre-cutting part, thread cutting part for thread coil and hexagonal drive for ratchet use.



THREAD COIL INSERT TOOL

6042104	Tool for inserting spare coil M8x1
6041704	Tool for inserting spare coil M10x1
6041504	Tool for inserting spare coil M10x1,25

Hexagon drive for ratchet use.
Extra long for hard-to-reach places.

2017 TOOL SELECTION



Fastest solution for injector removing.

SLIDE HAMMER 8.0 KG

- Hammer weight: 8 kg
- Sliding Rod 570mm long, OT M18x1.5
- Anti-shock side handles.

6148800

Suitable for more than 15 different connecting adaptors.



INJECTOR REMOVAL AND DISMANTLING SET 24 PCS.

Universal tool set for disassembling injector and for preparing to remove the injector. Optimal actuation tools for removing an injector are e.g. the Slide Hammer 5 or 8 kg or Universal Hydraulic Injector Removal Set.



Contents: 10 Adapters (see table), 4 Slotted Sockets to remove and install the solenoids (25, 27, 29, 30 mm). Allen Socket 10mm with Hole, 2 Releasing Levers (IT M12x1.5 and OT M12x1), Ball Joint Adapter IT M18x1.5 & IT M18x1.5 to increase hammer access to injector while removing. Pin Socket, Socket 7/8" hexagon (flat milled).

60384650

Suitable for: Bosch, Denso, Siemens / Continental / VOD & Delphi Injectors.



INJECTOR REMOVAL ADAPTER SET 15 PCS.

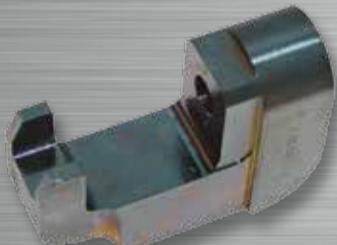
Universal tool set for disassembling the injector and for preparing to remove an injector. Suitable for our Universal Hydraulic Injector Extractor **60385395** or 8kg. Slide Hammer **6148800**.



Set contains the most popular 3 part Bosch adapter CRI1 and CRI2.

60384660

Suitable for: Bosch, Denso, Siemens / Continental & Delphi Injectors.



INJECTOR GRIPPER OM651, FOR PIEZO INJECTORS

For removing extreme seized injectors from the cylinder head with Slide Hammers 5 or 8 kg. or the Universal Injector Removal Tool. Receiving Thread IT M18x1.5

60384881

Suitable for: Mercedes Benz OM651

INJECTOR REMOVAL BRACKET DENSO 3 PCS.

For removing extreme seized injectors from the cylinder head with Slide Hammers 5 or 8 kg. or the Universal Removal Tools **60385395** or **60385445**.



90384865

Suitable for: Denso

TAP M17X1



After removing the injector needle, use this tool to increase the depth of inner thread M17x1. This tool significantly increases the tensile strength which aids in successfully pulling the injector. The tensile strength increases with each new thread.

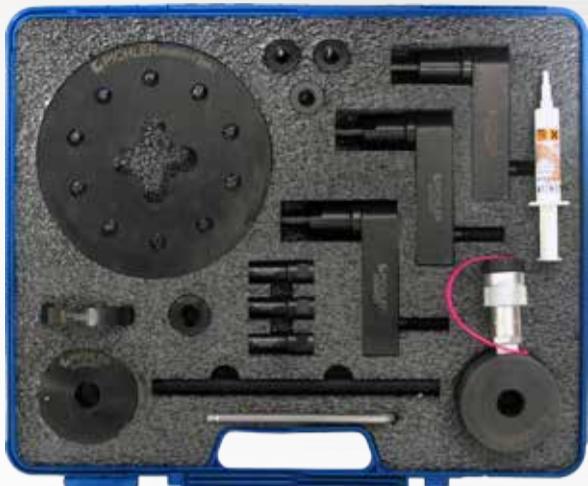
- M17x1
- Extra flat front face for best result
- 7 times fluted Suited for: Bosch injectors



6038472E

60383317

INJECTOR REMOVAL ...



12 TONS
PULLING FORCE

HYDRAULIC PUMP

- Pump pressure 700 Bar
- Sufficient for 12/20 ton hydraulic cylinders
- Manometer as additional part on request
- Suitable to use on light commercial vehicles and vans, thanks to the long hose

80255500



INJECTOR REMOVAL SET CDI

Use with the flat hollow piston of hydraulic cylinder 12ton. Thread adapter M18x1,5 (included in set) is suitable for mechanical injector removal using by slide hammer.
For stepped valve covers (612 MB) use 4-piece set 6038365 to provide horizontal position.

6038410 CDI

6038375 Complete version CDI + A-CLASS

COMPLEMENTARY SUPPORT ELEMENTS 4 PCS. FOR INJECTOR REMOVAL SET CDI



6038365



ONLY CDI SET

Using support elements avoids the cracking of aluminum cylinder head covers.
For removing the injectors from CDI engines with Support Sleeves.

All Pichler sets can be used directly on engines. There is no need to dismount the cylinder head or remove the engine from a car.

2017 TOOL SELECTION

UNIVERSAL REMOVAL SET FOR TORN-TOFF INJECTORS

For rusted nozzle nut removal.

Contains: Loosening tool for injector needle, taps, taps extensions and threaded pulling rods.

Common problem in Ssangyong, Peugeot, Fiat, Citroen injectors.

60382400

Suitable for use with Universal Hydraulic Injector Removal Kit

Torn-off injectors can also be removed



Piezo

Solenoid

20 TONS
PULLING FORCE

NEW



INJECTOR REMOVAL SET FOR RENAULT M9R / M9T / R9M

Use to remove rusted common rail injectors from the cylinder head using 20 tons hollow piston cylinder. In case the injector breaks off while pulling on the lower screw connections, the additional pull handles can be used to pull out the rest of the torn-off injector.

Suitable 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.
- Pulling force 20 tons is allowed because of the patented construction, where force is distributed on six places on the cylinder head.
- Additionally, injectors are clamped multiple times. Through this multiple clamping is a safe pulling with **20 tons** pulling force assured.
- Including illustrated operating instructions.

Torn-off injectors can also be removed.

INJECTOR REMOVAL SET SOFIM FIAT, IVECO

PROPRIETARY



Use: For removing rusted 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 torn-off injector using the additional extraction spindles.

Suitable 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 removing carbon and soot deposits with our Cleaning Kit **9038100**.



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

UPGRADE SETS- DIFFERENT VARIANTS FOR EXISTING KITS



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

Application: With this set it is possible to upgrade a present Injector Removal Set M9R (60385095/60385105 - 12 tons) to 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 it is possible to upgrade a present Injector Removal Set SOFIM (60385345) to 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 it is possible to upgrade a present Injector Removal Set „M9R Update“ (60385050) to 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 it is possible to upgrade a present Injector Removal Set M9R / M9T / R9M (60382095) to SOFIM set.

60385350

Injector Removal Upgrade Set from 60382095 to 60385340/60385345

INJECTOR REMOVAL SET PSA - PEUGEOT, CITROEN



This set allows you to remove the injector either mechanically (with moderate seized injectors) or hydraulically (with significant seized injectors).

Suitable for :

16V-PSA engine, engine codes: DW10ATED4 MC 2.0l (RHW) and DW12TED4 2.2l (4HW) in the:

Fiat Ulysse, Lancia Phedra, Suzuki Vitara, Volvo S40 II and V50, Peugeot 406, 407, 607, 806, 807, Citroën Evasion, C5, C8, Ford Focus '06 etc.

60383305

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

20 **TONS**
PULLING FORCE



Use 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 can be cleaned with special brushes. In case there is a large amount of carbon and soot or there is damage to the seat, use this milling tool and guider to reface the seat to return to the original condition. Seized Cooper sealing rings can be easily removed in minutes from the injector shaft without damage to cylinder head.

- Consists of modules 1, 1.1, 2, 3 & basic module

Suitable for: Universal

9038100



RECOMMENDED ACCESSORIES:
Variable Depth Gauge for Milling Cutter Holder 90390485



PROPRIETARY



2017 TOOL SELECTION



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 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

UNIVERSAL SEALING RING EXTRACTOR

For removing seized copper sealing rings from injector shafts, without damaging the cylinder head. Without this tool, it is almost impossible to remove the copper ring without damaging the sealing seat. Receiving thread M10 for a Slide Hammer.

Suitable for:

CDI engines e.g. MB, Opel/Vauxhall, Renault especially with 2.2L (engine code G9T) & 2.5L (engine code G9U), Nissan and PSA engines. Mitsubishi Fuso Canter.

6039070

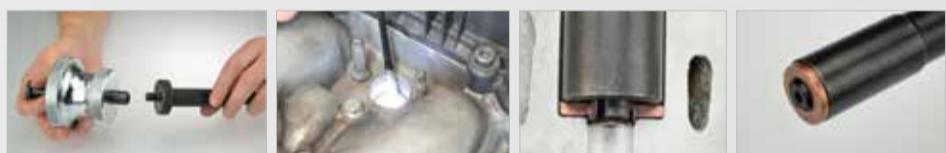
MODULE 1.1, BRUSHES PLUS

**Content:**

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

9038011

MODULE 3, EQUIPMENT

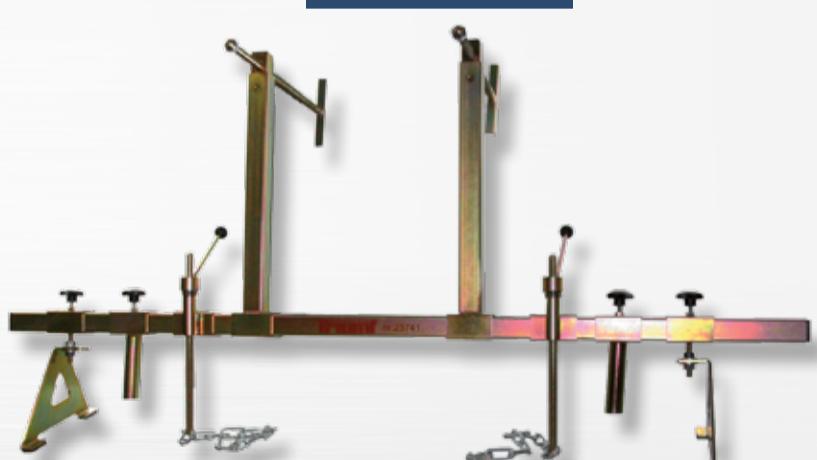
**Content:**

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

9038030

SLIDE HAMMER 1.35 KG

- Hammer weight: 1.35 kg
- Sliding Rod IT M10
- Thanks to small height it is recommended as optional tool for copper washer seal remover.

60390750

STABILIZER BAR ENGINE HOLDER

This professional tool is used for mounting, anchoring and fixing the engine and other heavy components from above, It can also be used to:

- Secure the engine when removing the gearbox
- Secure the engine with one trapezoidal screw securing the gearbox when removing and installing the second trapezoidal screw
- Engine fixation when removing the engine mounts, water pumps, mountings, etc.
- Replace timing belts and chains
- Anchor the engine from top to bottom of the frame when removing the engine
- The holder is designed for hanging the engine when servicing the engine, gearbox and axles, etc.

Content:

1. 2pcs. Foot to trim the fenders
2. 2pcs. Leg to save the struts
3. 2pcs. Leg of the front strut
4. 2pcs. Chain to hang the engine with a carriage beam
5. 1pc. Cross member

90807500**Technical specifications:**

- Heavy construction made of thick-walled closed iron profiles
- Weight of product 8-11 kg according to type
- Possibility of immediate adjustments according to the width the vehicle, inclination angle of the front hood
- Suspended imposition of bolts and nuts for axial bearing
- Trapezoidal thread for fast operation
- Maximum load 100 kg
- Stroke 280 mm
- Finish: zinc

UNIVERSAL & USER-FRIENDLY