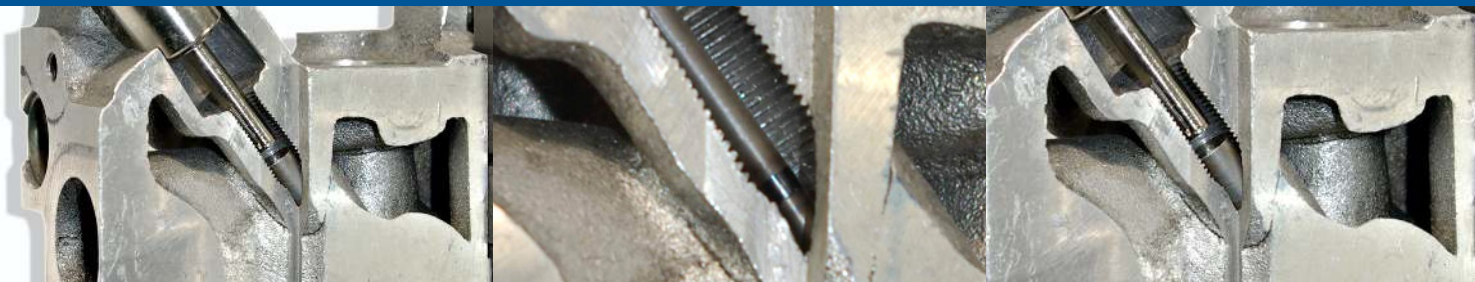




UNIVERSAL GLOW PLUG HEATING ELEMENT REMOVAL KIT

Manual

60417755



PICHLER
tools since 1978.

SAFETY NOTICE

To understand the functioning of the tools, is it necessary to read the manual first!

- > Read these instructions before assembling, during installation and throughout use and in the proper sequence
- > Always refer to the OEM manufacturer's instructions and service manuals for the latest data and to maintain the correct sequence
- > These work instructions and the recommended tools are meant to serve as aides only and are by no means a guarantee for certain results.
- > This tool kit is a special collection and it has been tested and used successfully on several occasions. It is of the utmost importance to maintain the correct procedure as per the instructions
- > The use of the tools should only be carried out by qualified personnel!



ATTENTION
Special caution



CORRECT



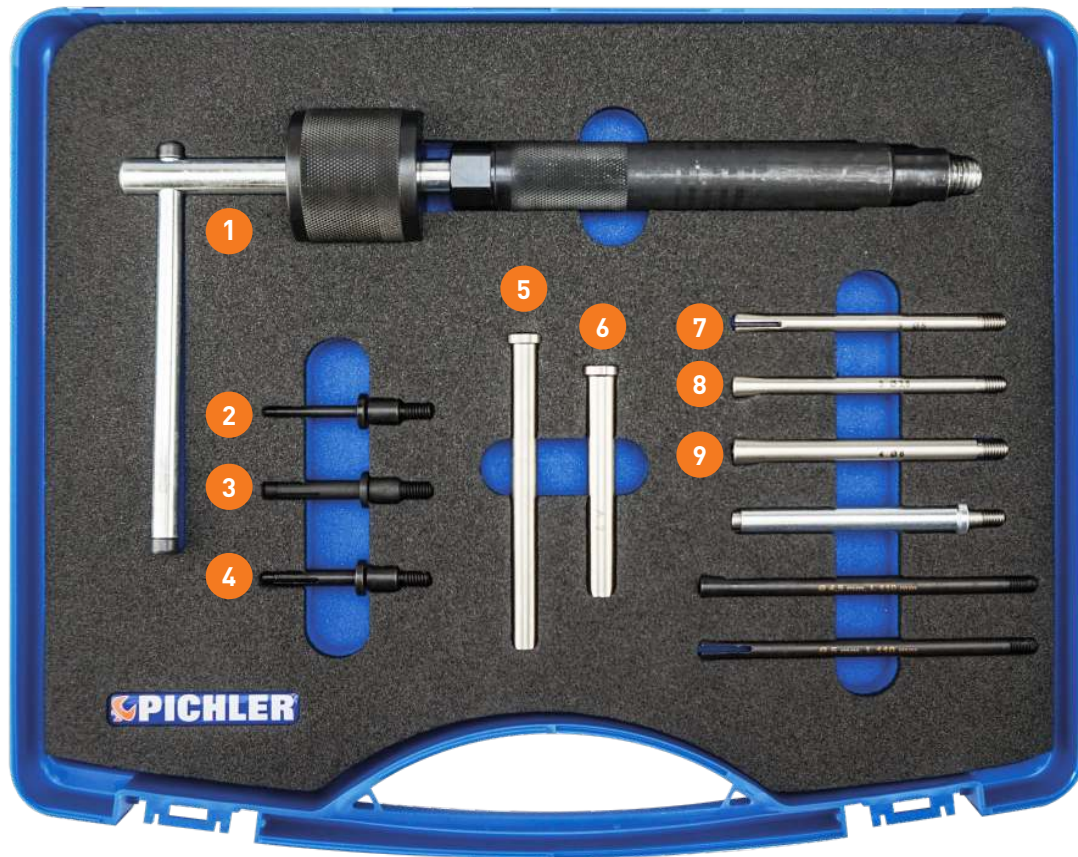
LIGHT BULB
Hint or recommendation



WRONG



SAFETY GOGGLES
Wearing safety goggles
necessary



Nr.	PART.-NR.	Description	60382095
1	60417741	Glow pin extractor basic unit	1
2	60417752	Expanding extractor insert 4.0 mm	1
3	60417743	Expanding extractor insert 5.0 mm	1
	60417753	Expanding extractor insert 6.0 mm	1
	60417754	Extraction sleeve A3 - 100 mm long	1
	60417747	Clamping sleeve outside A2 for insert 6.0 mm	1
	60417745	Annealing tip pull-out insert	1
	60417749	Clamping sleeve 5.0 mm	1
	60417748	Clamping sleeve Clamping sleeve 6.0 mm	1
	60417746	Glow tip extraction insert Clamping sleeve 3.6 mm	1
	60417744	Glow tip extraction insert Sleeve A1 d=2.6/3.7	1
	60417756	Clamping sleeve Ø 4.5 mm Length 110 mm	1
	60417757	Clamping sleeve Ø 5.0 mm Length 110 mm	1

For removing the remaining glow plug tip from the cylinder head when it is only still in the hole to the combustion chamber. The glow plug tip extractor insert is used to grip over the glow plug tip, the insert is clamped over the base unit and the glow plug tip is pulled out with light taps. The glow plug sleeve can be pulled out with the internal extractor if it is not possible to cut a thread into the glow plug sleeve remaining in the cylinder head after drilling out, as it rotates in the cylinder head.

Suited for: Uni e.g. MB, Opel

When changing the glow plug, it often happens that the glow plug housing can be unscrewed, but the glow plug tip (partly with the center electrode) remains stuck in the hole to the combustion chamber. With the glow plug extractor set, this glow plug residue can be removed from the cylinder head if the tool is handled carefully.

EXPANSION

- a. If only the glow plug tip with electrode remains in the hole, the clamping jaws grip over the glow plug tip and pick up the center electrode inside.
- b. The glow plug sleeve can be pulled out with the internal extractor if it is not possible to cut a thread into the glow plug sleeve remaining in the cylinder head after drilling out, as this will also rotate. (Rear side

A. REMOVING THE GLOW PLUG TIP WITH ELECTRODE IN THE HOLE

1. Turn the base unit back slightly (left-hand thread!) until 2-3 threads are visible (Fig. 1). Screw the glow plug extraction insert no. 2 by hand into the base unit no. 1 as far as it will go (Fig. 1). Turn the base unit back towards the (left-hand thread!) extractor insert until it rests against the large edge of the glow plug tip extractor insert (Fig. 2).

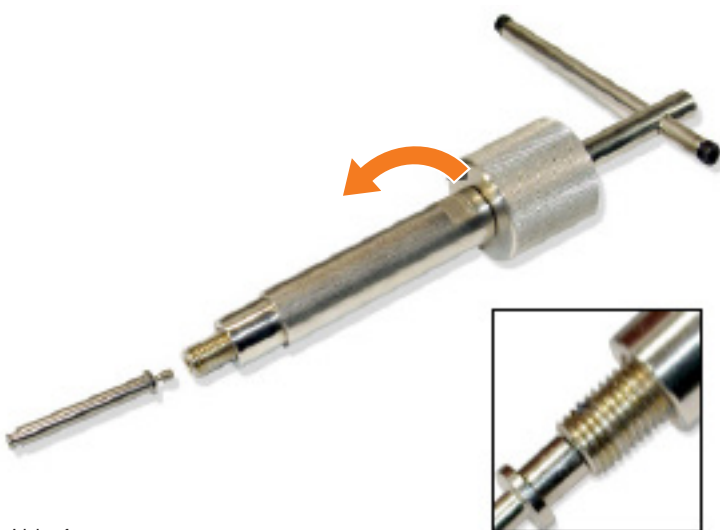


Abb. 1

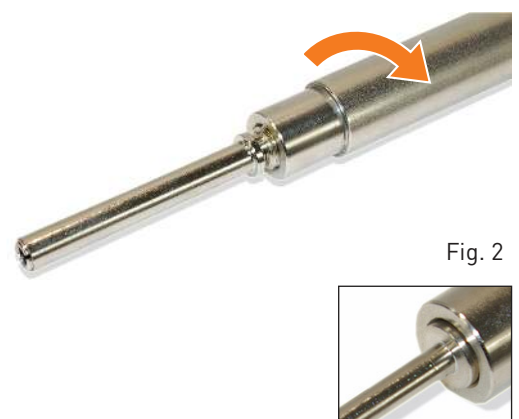


Fig. 2

Edge of the pull-out insert lies against

2. Set the cylinder on which the pin is to be removed to TDC. Now insert the tool into the glow plug shaft and push the glow plug tip extractor insert over the remaining glow plug tip with slight pressure (Fig. 3 & 4). The extractor insert can now be pre-tensioned by hand. To do this, hold the base unit no. 1 and pre-tension the central spindle using the toggle handle. To finally tighten the extractor, turn the wrench flats on the basic unit with an open-end wrench SW17 and hold the toggle (Fig. 5).

The glow plug residue can now be removed by lightly tapping with the impact weight.

Electrode of the glow plug tip



Fig. 3



Fig. 4

Glow plug remnants and extractor

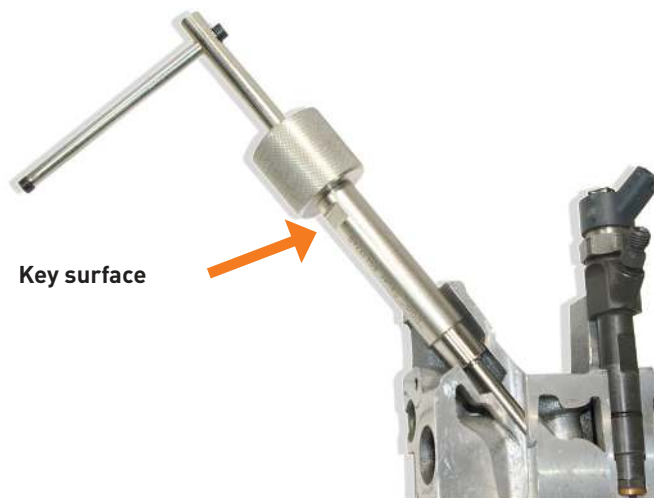


Fig. 5

B. REMOVAL IF THE GLOW PLUG SLEEVE ROTATES IN THE CYLINDER HEAD

1. Turn the base unit back slightly (left-hand thread!) until 2-3 threads are visible (Fig. 1). Screw the glow plug extraction insert no. 3 into the base unit no. 1 by hand as far as it will go (Fig. 6). Turn the base unit back in the direction of the (left-hand thread!) extraction insert until it rests against the large edge of the glow plug extraction insert no. 3 (Fig. 6).

This glow plug extraction insert no. 3 engages in the hole of the remaining glow plug sleeve in the cylinder head (Fig. 7 & 8).

The sleeve is fitted, tensioned and removed in a similar way to that described under point a2).



Fig. 6



Fig. 7

Glow plug remnants and extractor



Fig. 8

NOTES



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