



UNIVERSAL PIPE BRUSH SET 14 PCS.

Manual

90490300



SAFETY NOTICE

To understand the functioning of the tools, it is 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



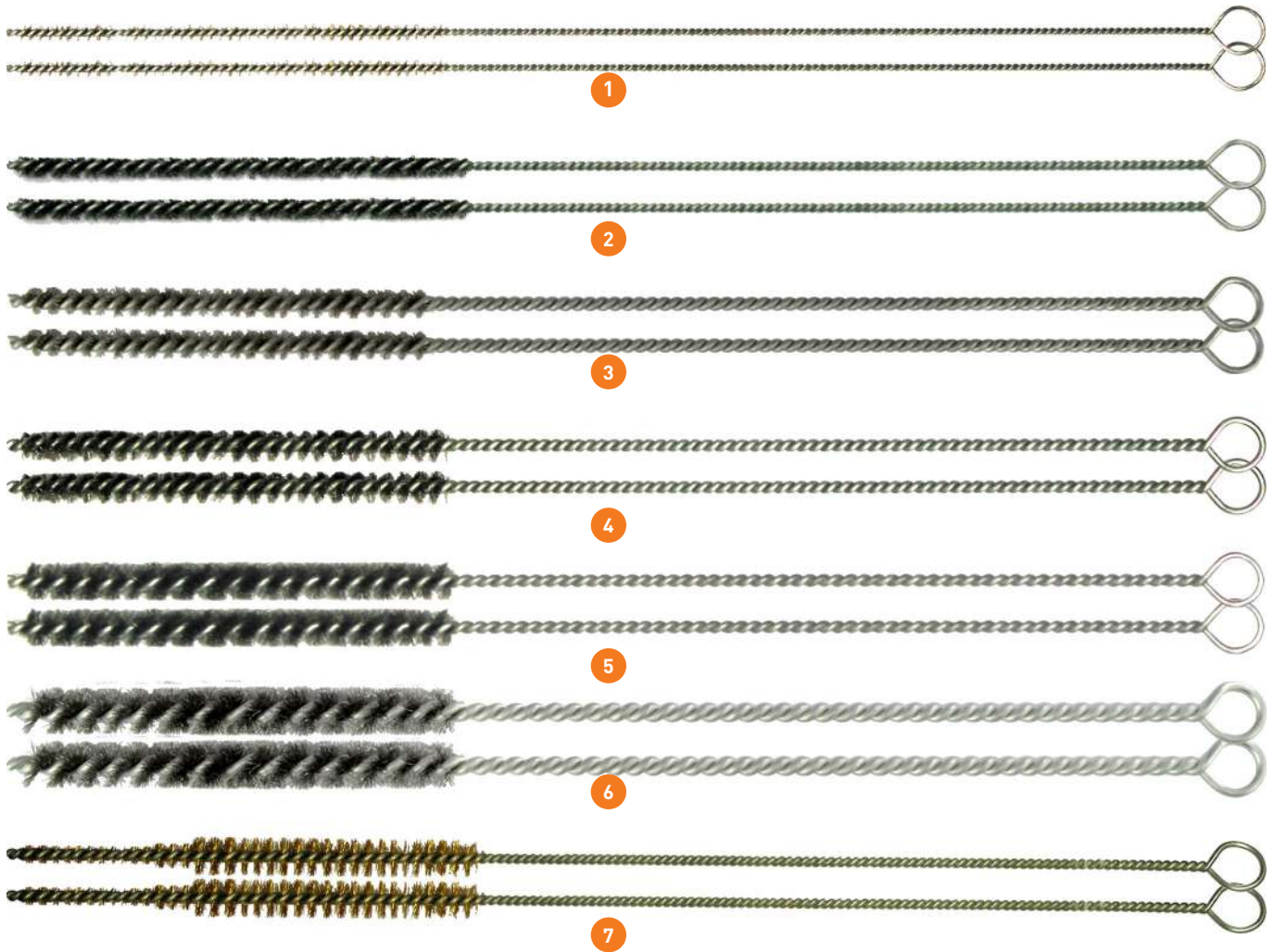
WRONG



SAFETY GOGGLES
Wearing safety goggles
necessary

CONTENT

1. CLEANING THE GLOW PLUG SHAFT WITH A PIPE BRUSH	5
2. CLEANING AND CHECKING	7
RECOMMENDED ACCESSORIES	8



NR.	PART.-NR.	Description	90490300
1	6049024	Steel Wire Pipe Brush Ø4,7 mm	2
2	6049025	Steel Wire Pipe Brush Ø5,3 mm	2
3	6049026	Steel Wire Pipe Brush Ø6,5 mm	2
4	6049027	Steel Wire Pipe Brush Ø7,0 mm	2
5	6049029	Steel Wire Pipe Brush Ø8,5 mm	2
6	6049031	Steel Wire Pipe Brush Ø11,0 mm	2
7	9049026	Brass Wire Pipe Brush Shouldered Ø9 mm, Ø6 mm and Ø4 mm	2

1. CLEANING THE GLOW PLUG SHAFT WITH A PIPE BRUSH

1.1 Clean the removed glow plug (this is not needed with a new part).



1.2 Measure the diameter of the heating element and the glow plug body.



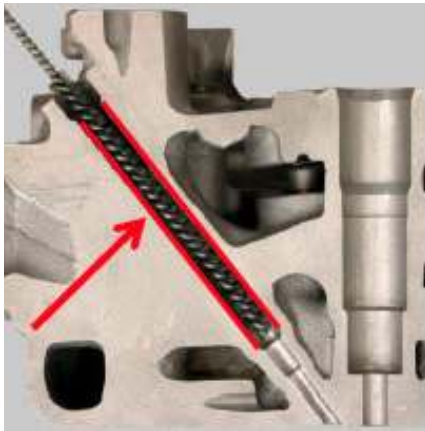
1.3 Select based on the previously measured diameter of the element the pipe brush with the same or next larger diameter.



Cross section of the cylinder

Thread	Pipe Brush	PART.-NR.
M8 M9	Steel Wire Pipe Brush Ø4,7	6133219
M10	Steel Wire Pipe Brush Ø5,3	9133140 F
M12	Steel Wire Pipe Brush Ø6,5	6133222

1.4 Select based on the previously measured diameter of the glow plug body the pipe brush with the same or next larger diameter.



Cross section of the cylinder

Thread	Pipe Brush	PART.-NR.
M8 M9	Steel Wire Pipe Brush Ø7,0	6049027
M10	Steel Wire Pipe Brush Ø8,5	6049029
M12	Steel Wire Pipe Brush Ø11	6049031

Shouldered Pipe Brush



Cross section of the cylinder

With some engine manufacturers cleaning is only permitted with a brass brush, so that a gentler cleaning is achieved.

Brass Wire Pipe Brush Ø9-Ø6-Ø4mm
Part.-Nr.: **9049026**



1.5 Clean the glow plug hole in the cylinder head by eliminating the carbon deposits with a suitable pipe brush and remove the freed deposits with a suction device.



Cross section of the cylinder

2. CLEANING AND CHECKING



Use compressed air or a suction device to remove any deposits. Visually check (e.g. with a videoscope) the cleaned glow plug hole for carbon residues and if necessary repeat the cleaning process from §1.3.



RECOMMENDED ACCESSORIES

VIDEOSCOPE "EXCLUSIVE"

9078050



UNIVERSAL GLOW PLUG SEALING SEAT REAMER SET - 23 PCS.

60417300



CALLIPER

4025000



FLEXIBLE LAMP "BAL"

40103000



THREAD GAUGE

4024000



ANGLE GAUGE 60°/90°/120°

4024030



NOTES

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