

Precautions

Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by the Tool Connection for incorrect use of any of our products, and the Tool Connection cannot be held responsible for any damage to personnel, property or equipment when using the tools. Incorrect use will also invalidate the warranty.

If applicable, the applications database and any instructional information provided has been designed to offer general guidance for a particular tool's use and while all attention is given to the accuracy of the data no project should be attempted without referring first to the manufacturer's technical documentation (workshop or instruction manual) or the use of a recognised authority such as Autodata.

It is our policy to continually improve our products and thus we reserve the right to alter specifications and components without prior notice. It is the responsibility of the user to ensure the suitability of the tools and information prior to their use.



Safety First. Be Protected.

Guarantee

This item contains consumable elements and are NOT covered by the Tool Connection Guarantee. For spares contact our service department direct on: +44 (0) 1926 818186.



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LASER[®]

6646

Glow Plug Brush Cleaning Kit

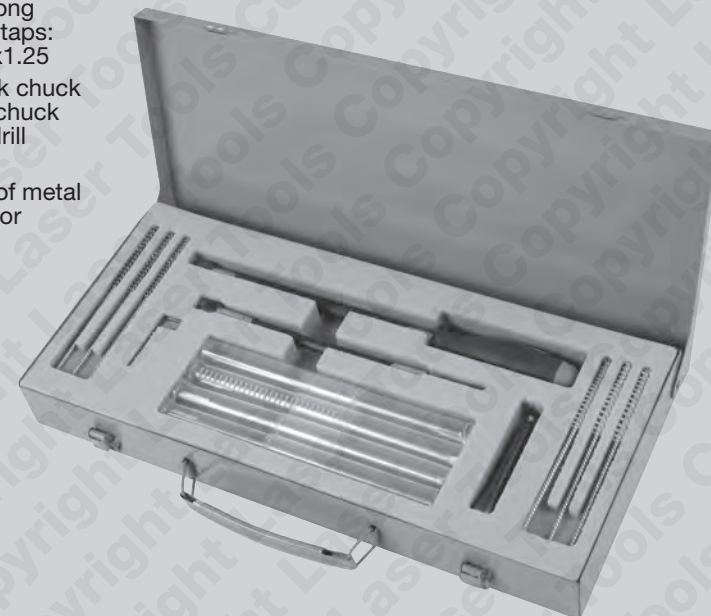
This kit has been designed to offer an effective and efficient glow plug aperture cleaning solution.

When glow plugs require replacing, it is best practice to properly clean out the glow plug aperture within the cylinder head, particularly around the area of the glow plug heater element, threads and sealing area to ensure the glow plugs seal correctly and can be properly torqued down. Failure to do so has been proven to dramatically reduce the service life of the new glow plugs.

The one piece core design ensures no sharp edges on the end of the brush to damage engine components. One set of brushes are steel wire and the other set are specially selected nylon brushes to give the best possible finish. Thread cleaning is guaranteed with the extra-long quality thread taps.

The kit includes a patented brush holder with a flexible extension piece that can be used either by turning the handle provided or using an electric/air drill (Max. Speed 4500rpm)

- Six patented German manufactured brushes constructed using a special twisted core to prevent damage to internal engine parts and driven with a patented brush holder.
- Supplied with 4 extra-long German manufactured taps: M8, M9 M10x1 & M10x1.25
- Includes a flexible quick chuck screw drive and quick chuck extension for use in a drill (4500 rpm Max.)
- No unwanted removal of metal from the cylinder head or deformation of sealing surfaces.
- Use taps with Tap Wrench Laser 6000 or Laser 6002 available separately)



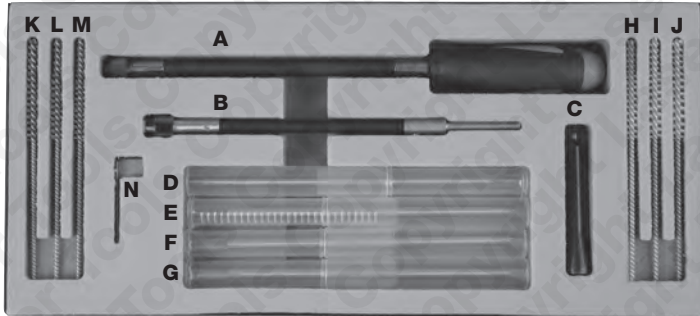
Applications

M8 = Citroen, Peugeot, Fiat, Ford, Jaguar, Mercedes-Benz

M9 = Alfa Romeo, Vauxhall/Opel, Fiat, Saab

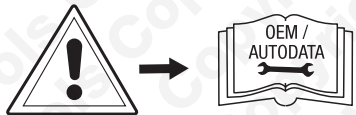
M10 = Alfa Romeo, BMW, Chrysler, Citroen, Peugeot, Fiat, Ford, Honda, Hyundai, Land Rover, Mercedes Benz, Nissan, Renault, VAG.

Components



A	Flexible Handle with quick chuck
B	Flexible Extension with quick chuck for drill use (Max.4500rpm)
C	Brush Holder (Patented Design)
D	M8 x 1.0mm x 200mm long Tap*
E	M9 x 1.0mm x 200mm long Tap*
F	M10 x 1.0mm x 200mm long Tap*
G	M10 x 1.25mm x 200mm long Tap*
H	Nylon Stepped Brush 4.8 x 20 / 7.0mm (patented)
I	Nylon Stepped Brush 5.3 x 20 / 8.5mm (patented)
J	Nylon Stepped Brush 6.5 x 20 / 8.5mm (patented)
K	Steel Stepped Brush 4.8 x 20 / 7.0mm (patented)
L	Steel Stepped Brush 5.3 x 20 / 8.5mm (patented)
M	Steel Stepped Brush 6.5 x 20 / 8.5mm (patented)
N	2mm Hex Key

NOTE: Components **D** to **G** are not suitable for machine tool use. Always tap threads by hand using appropriate tap wrench. The Tool Connection Ltd recommend Laser Ratchet 6000 Tap Wrench (available separately).



The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles manufactures own data or Autodata.

The use of 6646 is purely down to the user's discretion and The Tool Connection Ltd cannot be held responsible for any damage caused what so ever.

Instructions

Brush Size Selection:

It is important to select the appropriate brush diameter for the glow plug size to ensure no damage is done.

The brushes are designed for Glow plugs with a Maximum length of 95mm from the top of the glow plug thread to the tip of the glow plug where it protrudes into the cylinder head as shown.

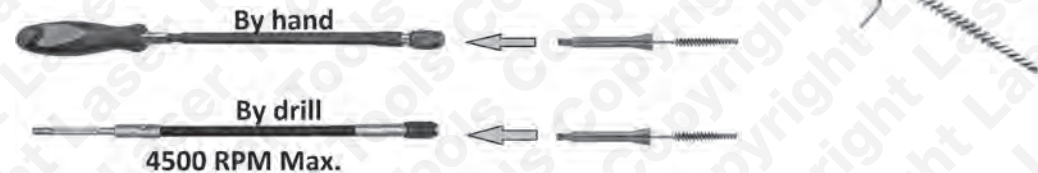


Select the brushes according to the chart below:

Ref	Description	Suitable for Glow Plug
H	Nylon Stepped Brush 4.8 x 20 / 7.0mm (patented)	M8/M9 glow plugs
I	Nylon Stepped Brush 5.3 x 20 / 8.5mm (patented)	M9/M10 glow plugs
J	Nylon Stepped Brush 6.5 x 20 / 8.5mm (patented)	M10/M12 plugs
K	Steel Stepped Brush 4.8 x 20 / 7.0mm (patented)	M8/M9 glow plugs
L	Steel Stepped Brush 5.3 x 20 / 8.5mm (patented)	M9/M10 glow plugs
M	Steel Stepped Brush 6.5 x 20 / 8.5mm (patented)	M10/M12 plugs

1. Using a steel brush first, insert into the holder and tighten BOTH grub screws.

2. Select drive method. Securely attach the brush and holder to the flexible extension or handle as required.



3. Put a small amount of grease on the brush to trap any carbon removed and insert the brush into the aperture while turning in a clockwise direction. Continue turning the brush while moving it into and out of the aperture. Repeat the process with the Nylon brush.

NB: If using a drill proceed with caution as slowly as the drill will allow. To clean the brushes use workshop brake cleaner or similar.

4. Select appropriate Tap – always check tap selected against the glow plug used. Connect the tap to an appropriate tap wrench. Put grease in the flutes of the tap trap any dirt and carbon that is removed.

5. Turning in a clockwise direction only thread the tap into the thread of the aperture.

6. Remove the tap and clean after use.

7. (Laser 6000 tap wrench shown here - available separately)

