



Set For Removing M9 Glow Plugs On 1.3 Mj Fiat, Opel, Suzuki Engines

User's manual

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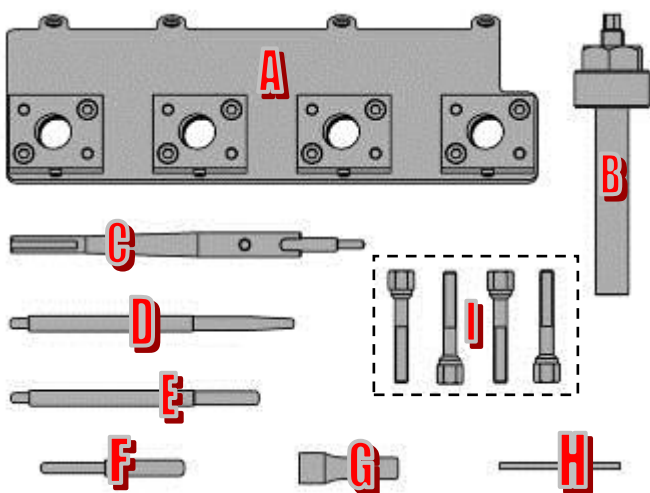
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Kit to remove broken glow plugs assembled on Fiat 1.3 MultiJet motors



Components:



Ref.	Codes	DESCRIPTION
A	311101001	Guide plate for drilling
B	311101007 311098005 311098004	Guide for drilling with bearing + nut M12 CH30 + Tension rod M12 for removal
C	311096007	Drill bit with handle
D	311101008	Screw tap M5 with extension
E	311101009	Screw tap M8 with extension
F	311096006	Threaded bushing M5
G	311031007	Bush Torx E10
H	311031005 311031018	Guide tube for drill bit Ø 3.5 + Drill bit Ø 3.5
I	311101006	Screw M7 for fastening to motor

PROCESS TO REMOVE BROKEN GLOW PLUGS

- The glow plug has to stand high temperature, high pressures, vibrations and **attacks from corrosive agents, which develop during combustion.**
 - The point of the glow plug has to be placed correctly to set fuel on fire. It has not to enter too much in the combustion chamber as it could trigger combustion incorrectly. That is why replacing glow plugs is a problem; furthermore, they easily break in their seat.
 - If the glow plug is still intact and using the spanner standard it cannot be unscrewed, use the supplied spanner Torx (ref. G), and try to unscrew acting on the upper stem (fig.1).
 - If the glow plug is broken or the previous process fails, drill and remove it.
 - Use the bush Torx to remove the upper part of the electrical connection.
- N.B. During this process the electrical connection could come out completely or in part. In the first case skip the drilling processes and do tapping.**

- Take the guide tube (ref. H) and introduce it on the remaining electrode part (fig.2)
- Use the drill bit \varnothing 3.5mm to drill the electrode of the glow plug (fig. 3)
- Assemble the guide plate for drilling (ref. A), fixing it to the motor using the



- Take the guide (ref. B), removing the internal threaded bar and the upper nut; introduce it into the seat of the plate till it rests on the glow plug (fig. 5).
- Introduce the double drill bit with handle (ref. C) and with an electric drill start drilling till the drill bit reaches the limit stop (fig.6). Now you have removed the upper part of the glow plug.
- Assemble the screw tap M5 with extension (ref. D) on the tap wrench and thread by hand (fig. 7).
- Once the thread is ready, use the guide (ref. B) + threaded bushing M5 (ref. F) + nut CH30 and screw down (fig.8); go on till complete removal of the glow plug (fig.9).
- Use a screw tap M8 (ref. E) to renew the thread on which the new glow plug is assembled.

N.B. To avoid remains entering the glow plug seat, strew the screw tap with some grease to keep remains (fig.10).

