



1. Place the star socket (4) on top of the glow plug. It may need to be tapped on gently with a hammer.
2. Using a 3/8" ratchet, turn clockwise to break off the top part of the glow plug.

NOTE: When top portion of glow plug breaks, it may also shear off the inner glow plug electrode. If the inner electrode does not break, it can be removed completely from the glow plug body. In this case, go straight to step 5. If the inner electrode does shear off, then continue to step 3.

3. Position centering sleeve (6) onto the remaining part of the glow plug. It may need to be tapped on.
4. Using 3.5mm pilot drill (11) drill a pilot hole into remains of connector post/electrode. Drill down at least 15mm past uppermost part of the glow plug body.
5. Fit either M8 (3) or M10 (2) dual-size stepped drill (depending on the size of the glow plug) to the drill holding adapter (13).

Secure stepped drill into adapter by tightening the set screw with the provided allen key (5) ensuring the set screw contacts the flat part on the shank of the stepped drill. Fit the drill holding adapter to chuck of power drill and drill out remains of connector post/electrode and threaded portion of glow plug body.

Important:

The dual-size step drill allows removal of the remains of the connector post/electrode while also removing the threaded portion of the glow plug body. Be sure to keep the drill straight so the threads in the cylinder head are not damaged. Drill down again at least 15mm to remove all of the threaded portion.

6. Use the correct size and thread pitch tap which may or may not be included. *Note the thread pitch could be different. Provided are common sized M8 x 1.0 (8) or M10 x 1.0 (7) tap (depending on size of glow plug). Place the correct tap in the ratchet T-Bar (1). Clean out and re-cut the threaded portion of cylinder head. Coat the tap in grease to lubricate and also contain the metal shavings produced.
7. Place the M5xP0.8 tap into the ratchet T-Bar (1). Cut threads into the remaining glow plug body. Again coat the tap in grease to lubricate and also contain the savings produced. Cut a full 15mm of thread. The remains of the glow plug body can now be removed.
8. Screw a puller screw (10) into the M5xP0.8 threads that have just been cut.
9. Screw in the force screw within the puller housing (12) to attach to the puller screw.
10. Screw the puller "outer housing" (12) down over the force screw.
11. Screw down the force nut (12).
12. Holding the force screw with a 12mm wrench or socket, tighten the force nut down with a 30mm wrench. This action will pull out the remaining part of the glow plug body from the cylinder head.
13. Before installing the new glow plug, thoroughly clean inside the port with a brush. Ensure that all metal shavings, dirt and debris are removed from the port, glow plug threads and combustion chamber before installing a new glow plug. Choose correct tap (7 or 8) to clean threads if necessary.

NOTE: All related tools are considered "consumable" and therefore are NOT covered under any type of warranty. (Replacement step drill bits are available).