

5206

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# LASER<sup>®</sup>

## Glow Plug Thread Repair Kit Instructions



When you have finished with  
this packaging please recycle it

**Consumable  
Part**



### Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.

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# Glow Plug Thread Repair Kit

## Instructions

**LASER**<sup>®</sup>

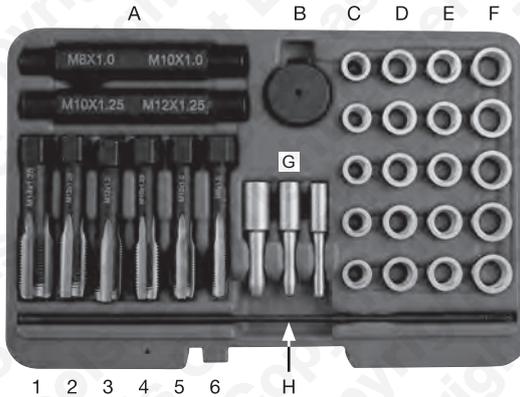
**A 31-piece set of taps and thread inserts for the repair of threads & glow plugs on alloy cylinder heads. Sizes 8 | 10 | 12mm.**

*We recommend that the cylinder head is removed from engine.*

- Chrome Vanadium with Black Phosphate finish

**List of components referring to opposite picture:**

- A: Insert fitting tool
- B: Grip handle for (H)
- C: Inserts: M8 x 1.0
- D: Inserts: M10 x 1.0
- E: Inserts: M10 x 1.25
- F: Inserts: M12 x 1.25
- G: Plug end blanks
- H: Insert fitting rod



1. M14 x 1.25 Insert Cutter (for M12 x 1.25 insert)
2. M12 x 1.25 Chaser Tap
3. M12 x 1.0 Insert Cutter (for M10 x 1.25 insert)
4. M10 x 1.25 Chaser Tap
5. M10 x 1.0 Insert Cutter (for M8 x 1.0 insert)
6. M8 x 1.0 Chaser Tap

### Before you start:

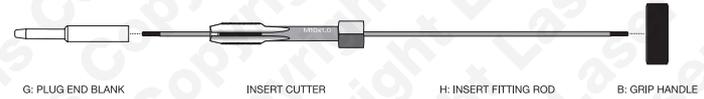
- We strongly recommend that the cylinder head is removed from the engine before work is commenced.
- If cylinder head is to be left in situ, then remove the relevant injector and connect an air-line via a suitable adaptor to ensure metal swarf and dirt cannot enter the combustion chamber.
- Maintain tools in a good and clean condition.
- Wear correct eye protection, particularly when cleaning any dirt or swarf away from engine.
- When finished, account for all tools and parts being used. Do not leave them in or near the engine.

### Precautions:

- Wear suitable eye protection.
- DO NOT USE AIR TOOLS WITH THIS PRODUCT.

**Instructions:** (Refer to components diagram above)

1. We recommend that cylinder head be removed from engine.
2. Identify thread size of new glow plug.
3. Using appropriate insert identify which tap to use. For example, the M8 x 1.0 insert requires the M10 x 1.0 tap (refer to components listed 1—6 above).
4. Place the tap on insert fitting rod (H). Screw grip handle (B) onto end of insert fitting rod.



5. Screw appropriate Plug end blank (G) onto other end of insert fitting rod. There are three Plug end blanks supplied; chose the correct one that fits snugly in the insert to be fitted and thus in the cylinder head.
6. Coat the tap, the fitting rod and the plug end blank in grease to lubricate the tap and also contain the swarf produced.
7. Insert assembly into glow plug hole in cylinder head and cut the new thread to a depth of 11mm.
8. Withdraw the tap, fitting rod and plug end blank — the grease should contain most of the metal swarf produced.
9. Clean out new threaded hole making sure there is no swarf or grease left. Carefully use a cleaning fluid to degrease making sure no fluid escapes down the glow plug hole.
10. Chose the correct insert and screw it onto the corresponding insert fitting tool (A).
11. Coat the outer thread of the insert with thread locking fluid and screw new insert into the glow plug hole. Tighten using a 13mm spanner or deep socket on the insert fitting tool. Withdraw tool when tight.
12. Check the inner thread of the new insert is clean by reassembling the fitting rod and plug end blank with the corresponding chaser tap supplied. Again, coat in grease and gently run the chaser down the thread. When finished, clean and degrease as before.
13. The repair is now complete and the new glow plug can be installed.
14. Before glow plug is installed we recommend cleaning the inner base and shaft with the Laser Glow Plug Base Cleaning reamer set, part no: 5210.

### Note:

- Due to the nature of the task and tools, the six taps and 20-piece insert set are regarded as consumable and not therefore covered by the Tool Connection guarantee. (Replacement parts are available.)

### Replacement parts available:

Part No:

2632	Thread Inserts 5pc	M8 x 1.0
2633	Thread Inserts 5pc	M10 x 1.0
2634	Thread Inserts 5pc	M10 x 1.25
2635	Thread Inserts 5pc	M12 x 1.25
2746	Tap	M8 x 1.0
2747	Tap	M10 x 1.0
2748	Tap	M10 x 1.25
2749	Tap	M12 x 1.0
2750	Tap	M12 x 1.25
2751	Tap	M14 x 1.25