

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.**

### 1. SAFETY INSTRUCTIONS

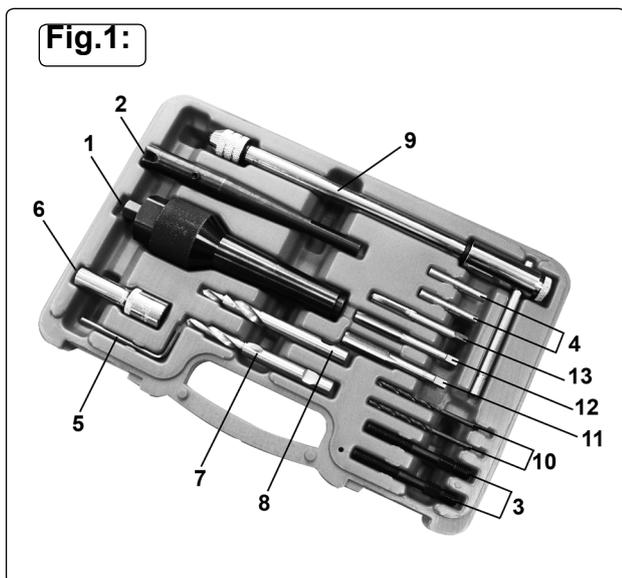
- WARNING!** Ensure Health and Safety, local authority and general workshop practice regulations are adhered to when using tools.
- DO NOT** use tools if damaged.
- Maintain tools in good and clean condition for best and safest performance.
- Wear approved eye protection. A full range of personal safety equipment is available from your Sealey dealer.
- Wear suitable clothing to avoid snagging. **DO NOT** wear jewellery and tie back long hair.
- DO NOT** attempt to start engine or move vehicle whilst tools are fitted and work is in progress.
- Ensure any disconnected fuel pipes are plugged to avoid spillage.
- Account for all tools and parts being used, **DO NOT** leave them in or near the engine. Return all parts to the case and store this in a safe, dry, childproof location.
- IMPORTANT:** These instructions are provided as a guide only. Always refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the current procedure and data.
- WARNING!** The warnings referred to in this guide cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

### 2. INTRODUCTION

- Designed to remove damaged/broken glow plugs from cylinder heads.
- Suitable for glow plugs with M8 x 1mm or M10 x 1mm thread.
- Set includes all required adaptors for centring, drilling and pulling for the safe removal of the glow plug.
- Supplied in storage case.

### 3. SPECIFICATION

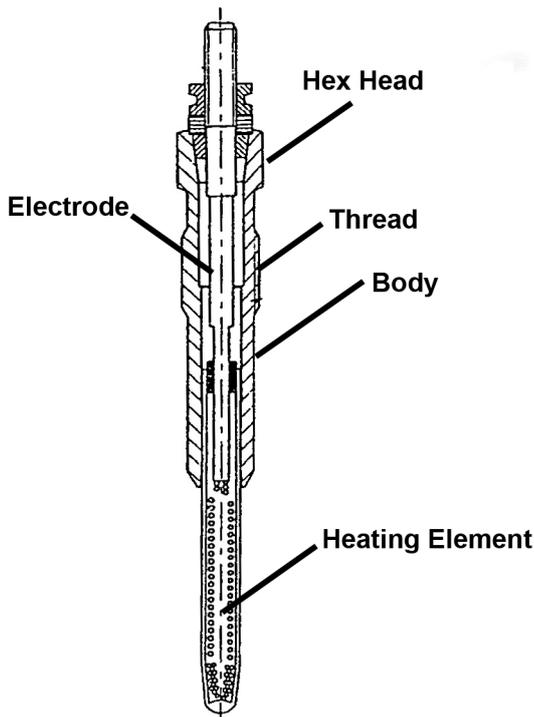
Model Number:.....SX0408.V2  
 Tap Dimensions:.....1/4"-28UNF, M8 x 1mm, M10 x 1mm  
 Glow Plug Applications:.....M8 x 1mm, M10 x 1mm



Key to Fig 1:

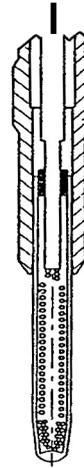
Number	Part No.	Description
1	SX0408.V2-01	Puller Housing
2	SX0408.V2-02	Drill Holding Adaptor
3	SX0408.V2-03	Puller Adaptor Mandrels (2 pcs/set)
4	SX0408.V2-04	Pilot Drill Centring Sleeves (2pcs/set)
5	SX0408.V2-05	Hex Key (3mm)
6	SX0408.V2-06	Star Socket (E10)
7	SX0408.V2-07	Drill Bit (7mm /5.5mm)
8	SX0408.V2-08	Drill Bit (9mm/5.5mm)
9	SX0408.V2-09	Ratchet T- Bar
10	SX0408.V2-10	Pilot Drills (2pcs/set)
11	SX0408.V2-11	Tap (M10 x 1.0)
12	SX0408.V2-12	Tap (M8 x 1.0)
13	SX0408.V2-13	Tap (1/4"-28UNF)

**Fig.2-Glow Plug Construction**



**Fig.3-Glow Plug with Electrode withdrawn**

Insert Centring Sleeve or use hole left by electrode



## 4. INSTRUCTIONS

Numbers in brackets refer to Fig.1

**NOTE:** To minimise the possibility of damage to the engine, it is advisable to remove the cylinder head from the engine to work on it. Alternatively, remove the relevant injector and connect an air line via an appropriate adaptor to the aperture to ensure dirt and swarf do not enter the combustion chamber as the procedure is carried out. **Wear eye protection.**

- 4.1. Push fit Star Socket (6) onto the top of the glow plug; it may need to be tapped on lightly. Then, using a  $\frac{3}{8}$ " ratchet, remove/break off the top part of the glow plug.
- 4.2. **(See Fig.3)** Insert Centring Sleeve (4) into the recess in the top of the glow plug. Fit Pilot Drill (10) to an electric drill and insert pilot drill into centering sleeve, drill a pilot hole in the centre of the glow plug remains. Ensure that pilot drilling is at least 15mm deep. Clean away the swarf using an air line. **Note:** If the electrode can be withdrawn in one piece, the aperture created may be used as a pilot. If this is the case, proceed to 4.4.
- 4.3. Fit either 7mm (7) or 9mm (8) Drill Bit into the Drill Holding Adaptor (2) and lock in place with the grub screw, using the hex key (5). Make sure that the grub screw bears on the flat, machined into the shank of the drill bit. Carefully drill out the centre of the glow plug and threaded portion of glow plug body. Take care not to damage the female threads in the cylinder head. Clean out the swarf using an air line.
- 4.4. Fit the  $\frac{1}{4}$ " tap provided into the ratchet T-bar. Cut a thread with this in the remains of the glow plug body, cutting at least 15mm of thread.
- 4.5. Screw a Puller Adaptor Mandrel (3) into the thread that has just been cut into the glow plug. Remove the nut from the force screw in the Puller Housing (1) and thread the force screw onto the mandrel. Slide the outer sleeve of the puller housing over the force screw.
- 4.6. Re-fit the nut to the force screw with the collar facing the outer sleeve. Hold the head of the force screw with a 12mm wrench or socket and wind the nut down using a 30mm wrench. This will draw the remaining lower part of the glow plug free from the cylinder head.
- 4.7. Fit either M8 (12) or M10 (11) Tap into Ratchet T-Bar (9). Run the tap down to clean/restore the threads in the cylinder head. An application of grease to the tap will both lubricate and help contain the swarf.
- 4.8. Clean thoroughly the thread and surrounding area and make sure that the combustion chamber (if head is in-situ) is free from debris before fitting a replacement glow plug.
- 4.9. Ensure all tools are removed from the engine bay and returned to the tool tray, and store this in a safe, dry, childproof location.

**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**IMPORTANT:** No liability is accepted for incorrect use of this product.

**WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim.

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Sole UK Distributor, Sealey Group,  
Kempson Way, Suffolk Business Park,  
Bury St. Edmunds, Suffolk  
IP32 7AR



01284 757500

01284 703534



[www.sealey.co.uk](http://www.sealey.co.uk)

[sales@sealey.co.uk](mailto:sales@sealey.co.uk)