



INSTRUCTIONS FOR:
SPARK PLUG THREAD REPAIR KIT
 MODEL No: **VS301.V2**

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 & 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. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY



Refer to instruction manual Wear eye protection

- WARNING!** Wear approved eye protection. Wear appropriate Personal Protective Equipment. A full range of Personal Protective Equipment is available from your Sealey dealer.
- WARNING!** Ensure that Health & Safety, Local Authority Regulations and general workshop practice Regulations are adhered to when using tools.
- DO NOT** use tools if damaged.
- Maintain tools to ensure that they are in an adequate condition for safe use and optimum performance.
- Ensure that a vehicle that has been raised by a jack is adequately supported. Use axle stands.
- DO NOT** attempt to start or move a vehicle whilst in gear and with timing devices fitted.
- Wear suitable clothing to avoid snagging. **DO NOT** wear jewellery. Tie back long hair.
- Account for all tools, parts and components being used. **DO NOT** leave these in or near the engine. Return tools to suitable storage after use.
- When not in use, store in a safe, dry childproof place.
- Keep children and unauthorised persons away from the work area.
- 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 correct procedure and data.
- WARNING!** The warnings, cautions and instructions in this manual cannot cover all possible conditions and situations. The Operator / user must apply caution and common sense (good practical sense).

2. INTRODUCTION

Comprehensive and time saving kit of spark plug thread repair tools especially suitable for the repair of deep seated plug configurations. Kit of tools incorporates taper and plug taps together with intergrated ream. Stepped tap ensures correct alignment of seat cleaner in existing spark plug hole. Extension tools allow easy access to the bottom of the plug recess. Includes set of plug inserts.

3. SPECIFICATION

Model No: **VS301.V2**
 Plug tap: M14x1.25
 Step tap: M14x1.25; M16x1.25
 Insert lengths: 9mm and 15mm
 Replacement inserts; VS301.9 (10pcs), VS301.15 (10pcs)

4. CONTENTS

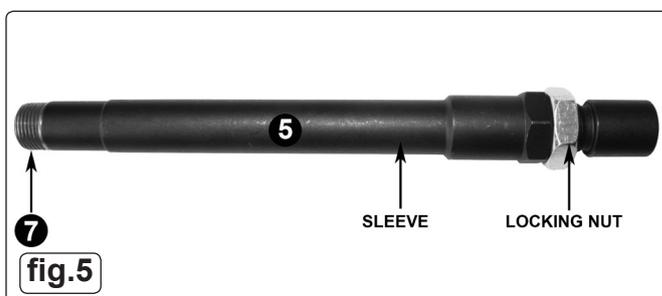
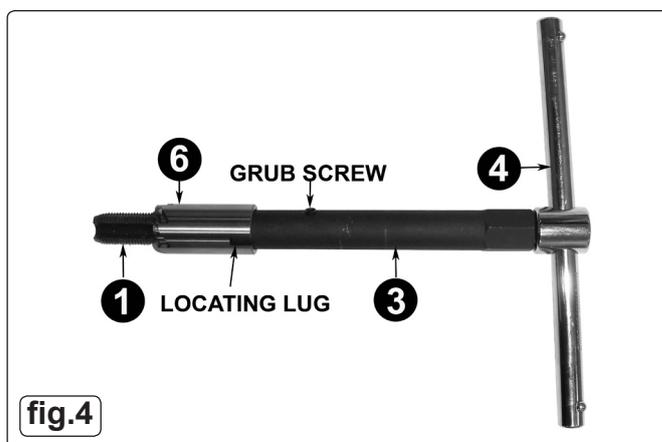
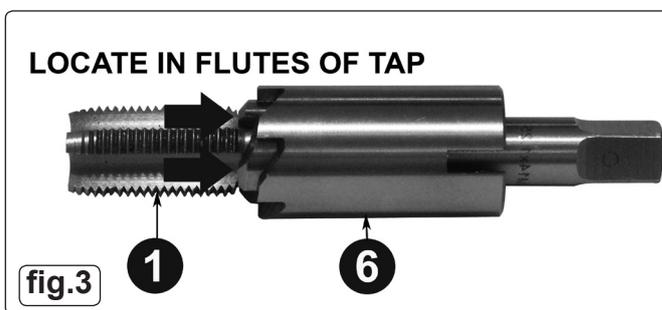
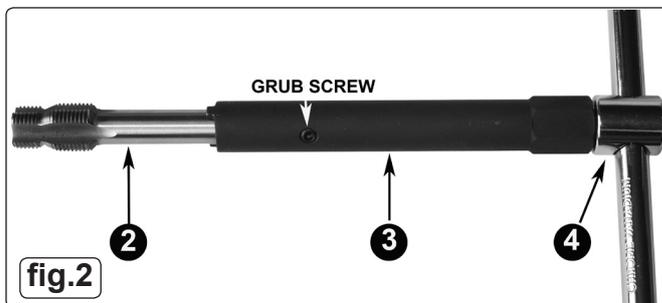
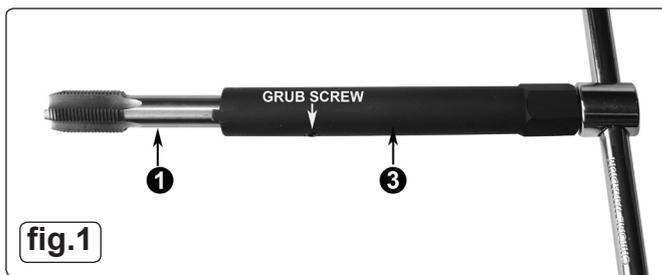


Item	Description	Part No:	Item	Description	Part No:
1	Plug Tap (M14x1.25)	VS301.05	5	Insert Drive	VS301.02
2	Step Tap (M14x1.25; M16x1.25)	VS301.06	6	Seat Cleaner	VS301.04
3	Wrench	VS301.03	7	Inserts 9mm/15mm	VS301.9/VS301.15
4	T-bar	VS301.01	8	Allen Key (2.5mm)	

5. INSTRUCTIONS

NOTE: To minimise the possibility of damage to the engine, it is advisable to remove the cylinder head from the engine prior to commencing work of this nature. Alternatively use a suitable method of removing any swarf/debris from the combustion chamber, ensuring that the piston is at top dead centre. Wear eye protection when removing any swarf/debris from the engine. A full range of personal safety equipment is available from your Sealey Dealer.

- 4.1. Remove the spark plug from the cylinder head.
- 4.2. Place the plug tap (1) into the wrench (3) and lock into place with the grub screw using the allen key (8) (fig.1).
- 4.3. Attach the T-bar (4) to the wrench (3) and run the plug tap (1) down the damaged spark plug hole in the cylinder head. Remove the swarf/debris.
- 4.4. Remove the plug tap (1) from the wrench (3). Insert the step tap (2) into the wrench (3) and lock into place with the grub screw using the allen key (8) (fig.2).
- 4.5. Carefully cut a M16x1.25 thread (using a suitable cutting fluid) into the damaged spark plug hole in the cylinder head and remove the swarf/debris.
- 4.6. Remove the step tap (2) from the wrench (3) and place the seat cleaner (6) over the plug tap (1) so that it locates in the flutes (fig.3). Place the plug tap (1) and the seat cleaner (6) into the wrench (3) so that the lugs on the wrench (3) locate into the seat cleaner recesses (6). Lock into place with the grub screw using the allen key (8) (fig.4).
- 4.7. Attach the T-bar (4) to the top of the wrench (3). Carefully place the seat cleaner (6) over the spark plug seat on the cylinder head and using a suitable lubricant, clean the spark plug seat by rotating the seat cleaner clockwise whilst applying moderate pressure. **DO NOT** apply excessive force. Remove any debris.
- 4.8. Select the size of insert (7) required and screw about three quarters of the way onto the insert drive (5). Check the insert (7) is flush and tight against the insert drive sleeve and lock into position with the locking nut on the insert drive (5) using suitable spanners (fig.5).
- 4.9. Apply a suitable thread locking solution to the exterior thread of the insert (7). Attach the T-bar (4) to the insert drive (5) and carefully screw the insert (7) into the M16x1.25 threaded hole in the cylinder head until it is fully located. Loosen the locking nut on the insert drive (5) and release the sleeve from the insert (7). Tighten the lock nut and carefully completely remove the insert drive (5) from the insert (7). Allow sufficient time for the thread lock to cure before proceeding to the next step.
- 4.10. Thoroughly clean away any swarf/debris, especially any that may have accumulated in the combustion chamber if the cylinder head has not been removed. Test the internal thread of the insert (7) with a spark plug.
- 4.11. Ensure that all tools are removed from the work area/ engine bay and returned to the tool tray. Store in a safe, dry, childproof location.



Environmental Protection

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain off any fluids (if applicable) into approved containers and dispose of the product and the fluids according to local regulations.

Parts support is available for this product. To obtain a parts listing and/or diagram, please log on to www.sealey.co.uk, email sales@sealey.co.uk or telephone 01284 757500.

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.

SEALEY

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