

CRANKSHAFT PULLEY REMOVAL/INSTALLATION SET

1. INTRODUCTION & APPLICATIONS

1.1. INTRODUCTION

On the smaller Zetec engines, specialised tools are required to remove and install the crankshaft pulley.

1.2. APPLICATIONS

Ford: Fiesta & Puma 1.25/1.4/1.6

Mazda: 121 1.25

2. SAFETY INSTRUCTIONS

- ☐ **WARNING!** Ensure that Health and Safety, local authority and general workshop practice regulations are adhered to when using tools.
- x **DO NOT** use tools if damaged.
- ✓ Maintain tools in good and clean condition for best and safest performance.
- ✓ Ensure that ignition key is removed, to prevent inadvertent engine cranking.
- ✓ If the vehicle to be worked on is raised, ensure that it is adequately supported with axle stands or ramps and chocks.
- ✓ 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.
- ✓ Account for all tools, locking bolts, pins and parts being used and do not leave them on or near the engine.
- * **IMPORTANT:** Always refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the current procedure and data. These instructions are provided as a guide only.

3. CONTENTS & ASSOCIATED TOOLS

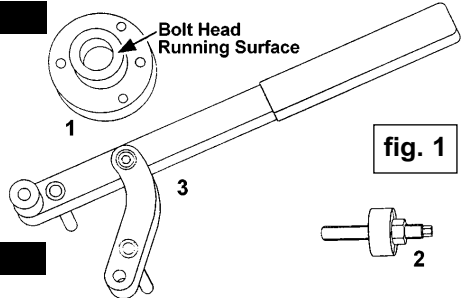
3.1. Contents

1. VS1013/01 Pulley Removal Plate
2. VS1013/02 Pulley Installer
3. VS1013/03 Holding Tool

3.2. Associated Tools

Twin Cam Petrol & 1.8 Diesel

Setting/Locking Tool Kit VS1012



4. INSTRUCTIONS

4.1. VS1013/01 Pulley Removal Plate

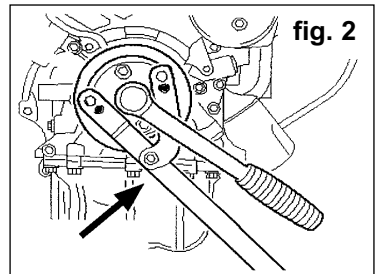
VS1013/01 Removal Plate is used in conjunction with VS1013/03 Holding Tool to remove pulleys on engines (-99). The Removal Plate is bolted onto the pulley and is prevented from rotating by Holding Tool VS1013/03. As the pulley centre bolt is unscrewed it reacts on the Removal Plate to withdraw the pulley off the crankshaft.

1. Lubricate the 'bolt head running surface' (fig. 1) of VS1013/01 Removal Plate and bolt it onto the pulley (2 bolts) with the running surface against the domed head of the pulley centre bolt.

4.2. VS1013/03 Holding Tool

1. Locate the two pegs of VS1013/03 Holding Tool in to the remaining two holes in the VS1013/01 Removal Plate and use it to counter-hold the plate and pulley to prevent turning whilst unscrewing the pulley centre bolt. As the bolt is unscrewed it pushes the Removal Plate forward and this in turn extracts the pulley from the shaft - fig. 2.

Note: On later engines VS1013/03 Holding Tool is used without the removal plate. Use the end holes of the Holding Tool and bolt it directly to the pulley. Use to counter-hold whilst releasing the pulley bolt.



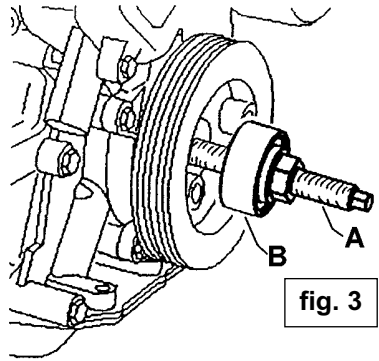
4.3. VS1013/02 Pulley Installer

Replacing the crankshaft pulley on engines (-99) requires specialised Installer VS1013/02.






IMPORTANT! A new pulley centre bolt is always required. The pulley **MUST NOT** be pressed on using the centre bolt as this results in the torque limit for the bolt being achieved before the pulley is fully installed.

Use VS1013/02 Installer to press the pulley fully onto the shaft and then fit the new centre bolt.

1. Place the pulley on the shaft and screw the Installer centre screw (fig.3.A) into the shaft thread.
2. Screw on the Force Nut Assembly (fig.3.B) and, holding the end of the Centre Screw with a socket, turn the Force Nut to install the pulley.
3. Remove VS1013/02 and counter-hold the pulley with Holding Tool VS1013/03 whilst installing a new centre bolt to 40Nm + 90°.



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 equipment. **WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim. **INFORMATION:** For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.

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