

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.
- ✓ Ensure that a vehicle which has been jacked up is adequately supported with axle stands.
- ✓ 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 in or near the engine.
- WARNING!** Incorrect or out of phase camshaft timing can result in contact between valve head and piston crown causing damage to the engine.

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.



Fig.1

2. INTRODUCTION & APPLICATIONS

2.1 Introduction

VS4648 Camshaft Setting Plate is the only timing positioning tool required for valve timing applications on VAG 2.3, 2.8 and 2.9 chain drive engines in VW, Seat and Ford models. Supplied with warning tag.

2.2 Applications

Engine types: AAA, ABV, AES, AGZ, AMY fitted to:

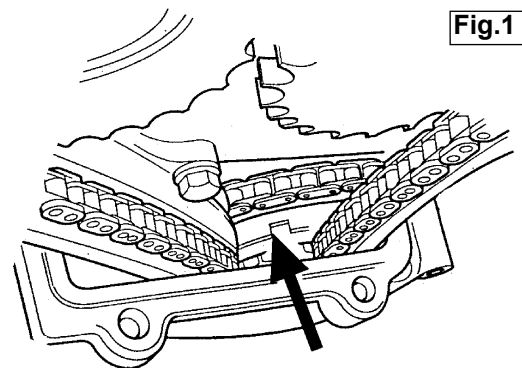
FORD: Galaxy (VR6).
 SEAT: Alhambra, Toledo.
 VOLKSWAGEN: Bora, Corrado, Golf, Passat, Sharan, Transporter, Vento.

3. INSTRUCTIONS

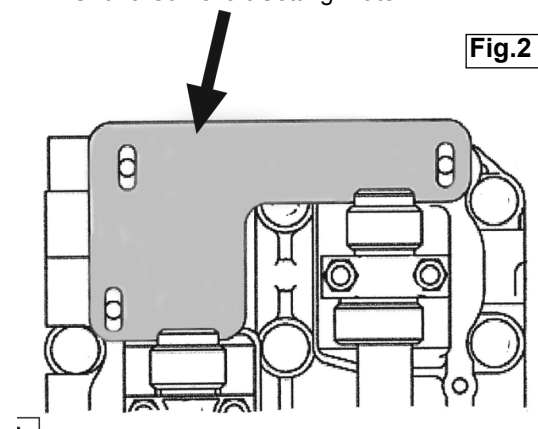
- 3.1. Engine timing marks are aligned to position No.1 cylinder at TDC (ground tooth on crankshaft sprocket).
- 3.2. Intermediate shaft also has timing mark (notch on sprocket). If TDC setting is correct, it will be possible to see the 'notch' on the intermediate shaft sprocket (Fig.1).
- 3.3. VS4648 Camshaft Setting Plate must locate into the 'slot' in the longer camshaft and align with the shoulder of the shorter camshaft (Fig.2).

NOTE: DO NOT use VS4648 Plate to counter-hold when releasing camshaft sprocket bolts - hexagon is provided on the camshafts for 24mm spanner. Early engines have duplex timing chain to camshafts and tensioner must be bled before installation. Later engines and all V5 engines, have a simplex chain and the tensioner must NOT be bled.

NOTE: Crankshaft pulley bolt must always be replaced - only use once.



VS4648 Camshaft Setting Plate



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.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.