

## DIESEL ENGINE CAMSHAFT ALIGNMENT/LOCKING ASSEMBLY FOR VAUXHALL/OPEL

### INTRODUCTION

The VS1065 is used in conjunction with camshaft setting tool VS106, and Dial Test Gauge AK9634M. (These items can be found individually or as part of kit model numbers VS100 and VS114). The VS1065 is designed to 'lock' and to rotate the camshaft by small increments as part of the engine/camshaft timing procedure.

### 1. APPLICATION

#### 1.1. APPLICATION

Astra 1.6/1.7D, Astravan 1.6/1.7D, Astramax 1.6/1.7D, Cavalier 1.6/1.7D, Vectra 1.7D (16DA, 17D, 17DR/X17DTL engines).

#### 1.2. USE PRODUCT WITH THE FOLLOWING COMPONENTS

Diesel engine Setting/Locking tool kit	.....VS114A
Flywheel Holding Tool	.....VS1280.
Camshaft Setting Tool	.....VS106
Dial Test Indicator	.....AK9634M

### 2. SAFETY INSTRUCTIONS

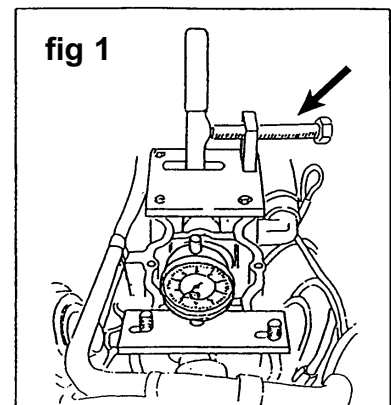
- WARNING!** Ensure all health and safety, local authority and general workshop practice regulations are strictly adhered to when using tools.
  - DO NOT use tools if damaged.
  - Maintain the tool in good and clean condition for best and safest performance.
  - If required ensure the vehicle to be worked on is adequately supported with axle stands, 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 in or near the engine.
  - WARNING!** Incorrect or out of phase camshaft timing can result in contact between the valve head and the piston crown causing possible damage to the engine. Incorrect injection pump timing may cause excessive smoke emissions, poor starting and low power output.
- IMPORTANT:** Always refer to the vehicle manufacturer's service instructions, or proprietary manual to establish the current procedure and data. These instructions for use are provided as a guide only.

### 3. INSTRUCTIONS FOR USE

Follow the instructions for setting the engine timing supplied with the above kits and you will additionally find the VS1065 operation listed.

The VS1065 is designed to be fitted over No4 cylinder and retained with three M6 screws (supplied). It is necessary to remove the crankcase vent hose prior to installation.

The spanner fits through the slot cut in the top plate of the VS1065 and over flats cut onto the camshaft. The horizontal adjusting bolt (fig 1) on the post of the VS1065 rests on the spanner and is adjusted to provide rotation of the camshaft to accurately position it at its initial timing position, and to then 'lock' the camshaft whilst it's sprocket bolt is re-tightened. Timing position information is given in the instructions for kits VS114A and VS100.



**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 product.

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

**INFORMATION:** Call us for a copy of our latest catalogue on 01284 757525 and leave your full name and address including your postcode.

<p><b>SEALEY</b> Professional <b>TOOLS</b> AUTO SERVICE LINE</p>	<p>Sole UK Distributor Sealey Group, Bury St. Edmunds, Suffolk.</p>	<p> 01284 757500</p> <p> 01284 703534</p>	<p><b>E-mail:</b> sales@sealey.co.uk</p>
	<p>VS1065 - 0869 -(1)- 010799</p>		