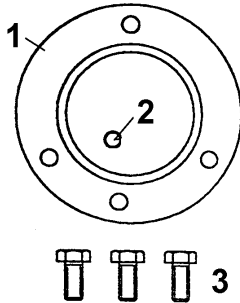


# VS105

## CAMSHAFT LOCKING TOOL FOR VAUXHALL/OPEL DIESEL ENGINES



### PARTS LIST

1	VS105/1	Camshaft Locking Tool
2	VS105/2	Locking Pin
3	VS105/3	M6 Locking Screws (x 3)

## 1. INTRODUCTION & APPLICATION

### 1.1. INTRODUCTION.

VS105 is used to lock the camshaft at its TDC position when checking or adjusting the timing after servicing operations. i.e. timing belt replacement.

### 1.2. APPLICATION

Vauxhall/Opel: 1.6, 1.7D Astra/Cavalier (Pre 1987).

## 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

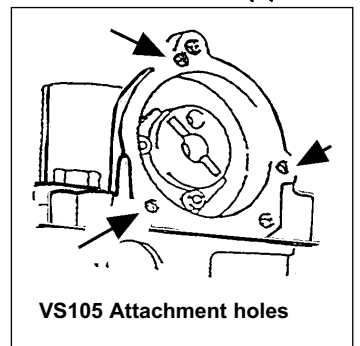
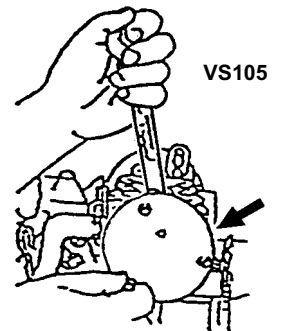
- WARNING!** Ensure you have read and understood the safety instructions before commencing.

### 3.1. VS105/1 CAMSHAFT LOCKING TOOL

This tool consists of a plate which bolts onto the camshaft housing in place of the vacuum pump, and carries a peg to locate in a hole at the end of the camshaft to lock it in the TDC position.

- 1 Follow the service manual instructions and correctly align the crankshaft and injection pump timing marks.
- 2 Remove the vacuum pump from the camshaft carrier.
- 3 Offer the tool in place of the vacuum pump. If the tool locates with the peg entering the camshaft hole the valve timing is correct and the camshaft is locked in position. If the tool will not align correctly refer to the service manual instructions and correctly adjust the camshaft timing.

Vauxhall/Opel 1.6 and 1.7 diesel engines from 1987 onwards have a modified camshaft and DO NOT USE VS105 for engine timing retention when changing the timing belt.  
From 1987 onwards valve timing must be 'set' using VS106A Cam Setting Plate Assy together with AK9634M Dial Test Indicator. Cam Locking Plate VS1065 should also be used.  
These tools are available separately and are also supplied in Kit VS114.



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