

INSTRUCTIONS FOR:  
**COOLANT PUMP SPROCKET  
RETAINER**  
MODEL NO: **VS4769**

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 THIS 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**

- ✓ Maintain the tools in good and clean condition for best and safest performance.
  - ❑ **WARNING!** Ensure that all Health & Safety, local authority and general workshop practice regulations are strictly adhered to when using these tools.
  - ✗ **DO NOT** use tools if damaged.
- IMPORTANT:** Always refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the current procedures and data. These instructions are provided as a guide only.



**2. INTRODUCTION & SPECIFICATION**

Retains the coolant pump sprocket in position, during pump removal/installation, without the timing chain being disturbed and, therefore, without the need to re-time the camshafts.

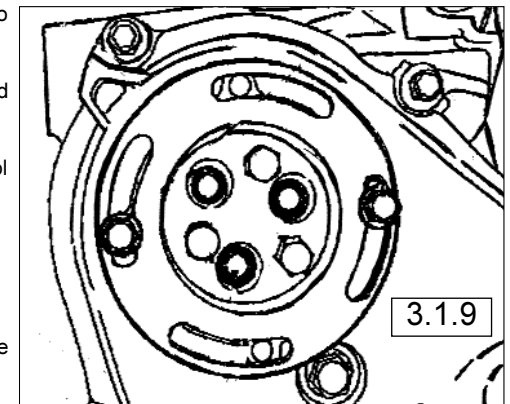
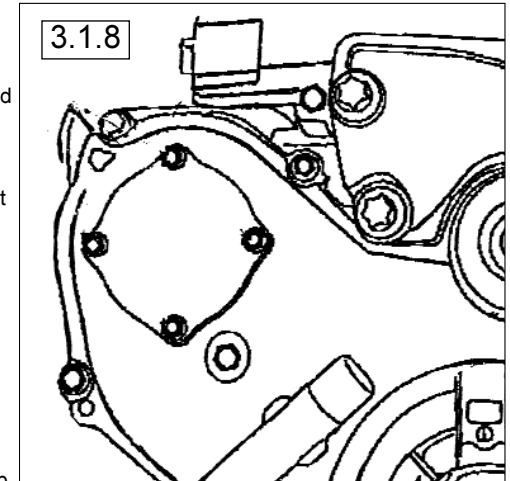
**2.1 APPLICATIONS**

- 2.1.1 VAUXHALL/OPEL 2.2 16v. Z22SE Engine Chain Drive, Twin camshaft petrol engines in:**
- |        |                 |        |
|--------|-----------------|--------|
| Astra  | Vectra          | Zafira |
| Signum | Speedster/VX220 |        |

**3. OPERATING INSTRUCTIONS**

**3.1 COOLANT PUMP REPLACEMENT**

- 3.1.1 The coolant pump on the Z22SE engine can be replaced without the need to disassemble the front end, allowing the engine timing position to be maintained.
- 3.1.2 A service aperture is provided in the front cover to allow Retainer VS4769 to be fitted to hold the coolant pump sprocket in position, whilst the coolant pump is removed/replaced.
- 3.1.3 Remove upper timing cover, manifold heat shield and oxygen sensor wiring harness plug.
- 3.1.4 Remove auxiliary belt and release pump drain bolt and drain coolant.
- 3.1.5 Disconnect wiring harness plug from coolant temp. sensor and detach coolant hose from thermostat housing and heater hose from radiator.
- 3.1.6 Remove thermostat housing and pull it, with pipe, out of coolant pump.
- 3.1.7 Close drain bolt and remove coolant pump cover.
- 3.1.8 Remove the pump front service cover (4 bolts).
- 3.1.9 Loosely attach VS4769 Retainer using two of the service cover bolts in the outer slotted holes of the Tool.
- 3.1.10 Using the 3 centre attaching bolts supplied with the Tool, secure VS4769 Retainer to the coolant pump sprocket.
- 3.1.11 Tighten the outer bolts to firmly fix the Tool in place. Release the 3 bolts which retain the coolant pump to the sprocket.
- 3.1.12 Remove coolant pump.
- 3.1.13 The engine timing is not disturbed as the chain is retained, in place, on the pump sprocket.
- 3.1.14 Replace pump, re-fit the bolts retaining the pump to its sprocket and remove VS4769 Retainer Tool.



**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.

