

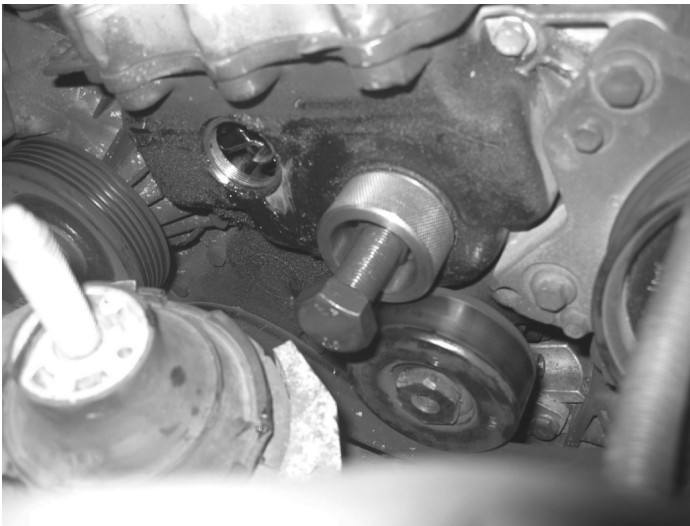
Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

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.

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.



2. INTRODUCTION & APPLICATIONS

2.1 Introduction

These Specialised Tools are designed to both remove the diesel pump (detaching the pump from the pump sprocket) and to retain the position of the pump sprocket in-situ, whilst the pump is removed and off the engine. This allows the front sprockets/timing chain configuration to remain undisturbed and under tension, thus reducing the level of engine dis-assembly required.

2.2 Applications

BMW M47/M47(TU) and M57/M57(TU) Diesel engines in:

VS4553 Remover/Retainer

BMW

318d/Compact (E46)	320d/td Compact (E46)	330d (E46)
525d (E39)	525d (E60/E61)	530d (E39)
530d (E60/E61)	535d (E60/E61)	730d (E38)
X5 3.0d (E53)		

VS4554 Remover/Retainer

LAND ROVER

Freelander (Td4)

ROVER

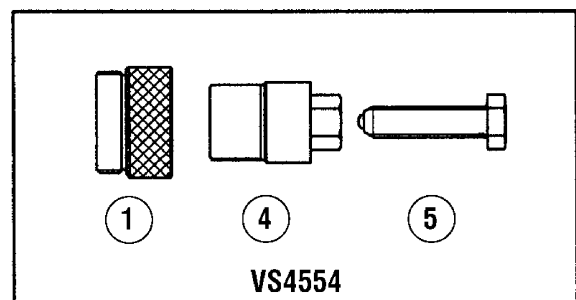
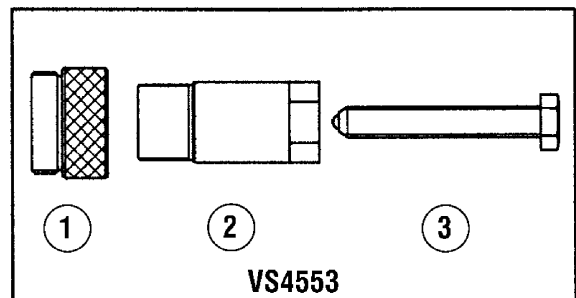
75 (M47)

2.3 Additional AST Tools required:

Engine timing applications for the above engines require VS4555 Engine Setting/Locking Tool Kit.

VS4553

VS4554



3. CONTENTS

1	VS4553-1	Support Sleeve
2	VS4553-2	Adaptor
3	VS4553-3	Force Screw
4	VS4554-2	Adaptor
5	VS4554-3	Force Screw

4. INSTRUCTIONS

VS4553 Pump Remover & Sprocket Retaining Tool covers injection/HP pump removal on **BMW models** with M47/M47TU and M57/M57TU 2.0 & 3.0 diesel engines.

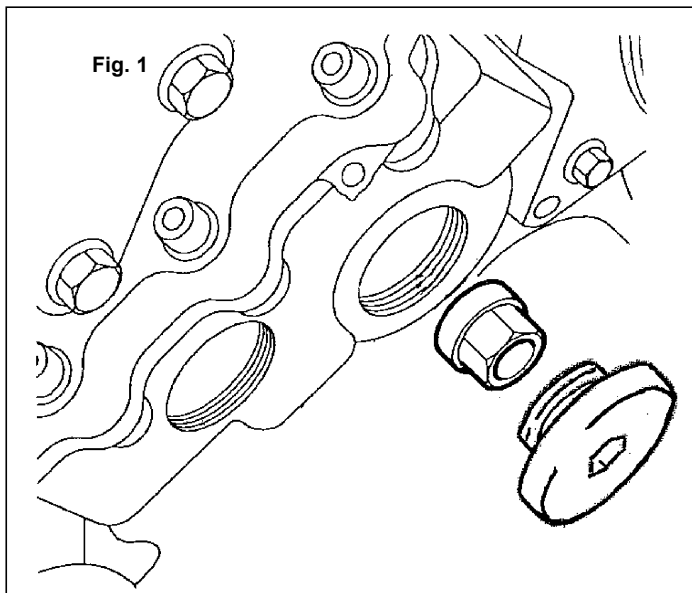
VS4554 Pump Remover & Sprocket Retaining Tool covers injection/HP pump removal on **LAND ROVER FREELANDER** and **ROVER 75** models with Td4 and M47 2.0 diesel engines.

VS4553 and VS4554 are similar, with the VS4554 being shorter in order to accommodate restricted access on the engines fitted transversely. The application procedure for fitting and use of these tools, is identical.

The main purpose of these tools is to extract the pump from the pump sprocket and to retain the position of the pump sprocket in-situ, whilst the pump is removed and off the engine. This allows the front sprockets/timing chain configuration to remain undisturbed and under tension, thus reducing the level of engine dis-assembly required.

NOTE: If a HP Pump is fitted, the position of the pump does not affect the valve timing.

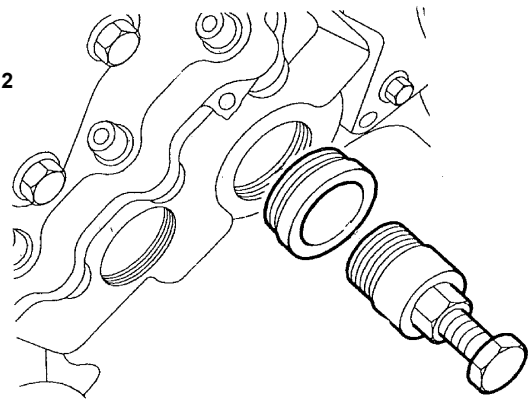
If a "Distribution" injection pump is fitted, then it will be necessary to set the crankshaft at TDC No.1 cylinder and the pump must be 'locked' with its locking screw to secure the pump shaft before removing the pump.



Remove the large blanking plug in the timing chain cover to provide access to the pump sprocket centre nut (Fig. 1).

Release and remove the sprocket centre nut (Fig. 1).

Fig. 2



Screw the VS4553-1 Support Sleeve in to the blanking plug thread in the timing cover.

Slide the Adaptor (without the Force Screw fitted), through the Support Sleeve and screw it on to the sprocket (Fig. 2).

Screw in the Force Screw to release the sprocket from the taper shaft.

WARNING: The Tool MUST now be left in place in order to maintain the pump sprocket position whilst the pump is removed.

5. Engine Setting/Locking (Timing)

For engine/valve timing applications on these engines, VS4555 Engine Setting/Locking Tool Kit is required.



VS4555

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.



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