



INSTRUCTIONS FOR:

PETROL ENGINE CAMSHAFT REMOVAL + INSTALLATION & CRANK PULLEY INSTALLER KIT - MINI, CHRYSLER 1.6 CHAIN DRIVE

MODEL NO: VSE119

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



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & 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. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY

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.

DO NOT attempt to start engine or move vehicle whilst in gear with timing devices fitted.

Always display a warning notification on steering wheel when timing engine components.

Account for all tools, locking bolts, pins and parts being used and **DO NOT** leave them in or near the engine.

Ensure all pieces are returned to the case and store this in a safe, dry, childproof location.

WARNING! Incorrect camshaft timing can result in contact between valve head and piston crown causing damage to the engine.

IMPORTANT: Always refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the current procedure and data.

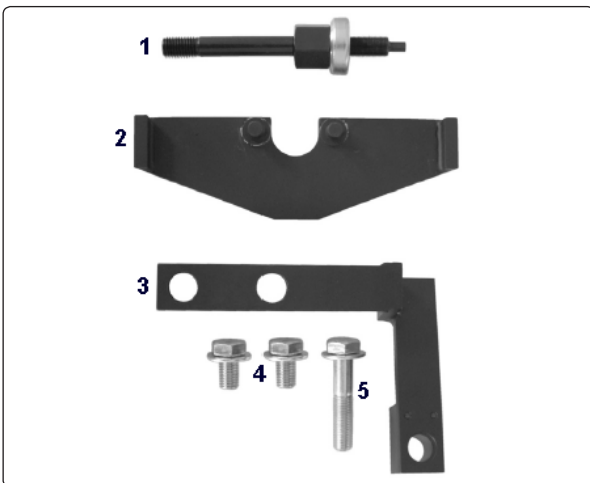
IMPORTANT: These instructions are provided as a guide only. Always refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the current procedure and data.

WARNING! The warnings, cautions and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

2. INTRODUCTION

Engine service kit for removing/installing camshaft sprocket and installing crankshaft pulley on Mini R50/52/53 & Chrysler PT Cruiser 1.6 petrol engines. Kit also includes engine support bracket.

3. CONTENTS



Item	Contents		OEM Numbers	
	Part Number	Description	Mini	Chrysler
1.	VSE119.03	Crankshaft Pulley Installer	118240	8385
2.	VSE119.01	Camshaft Sprocket Locking Plate	118250	8435
3.	VSE119.02	Engine Support	118370	
4.	VSE119.04	Bolt M12x20 C/W Washer (*2 per kit)	118370	
5.	VSE119.05	Bolt M12x60 C/W Washer	118370	

This information table provides the Vehicle Manufacturers' Specialised Tool references and the Sealey tool numbers covering the relevant service application.

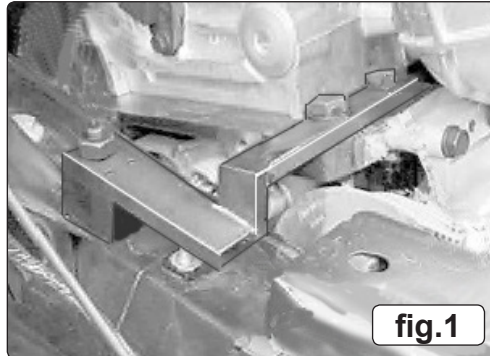
*These spares are sold as individual tools - not as pairs or multiples.

4. APPLICATIONS

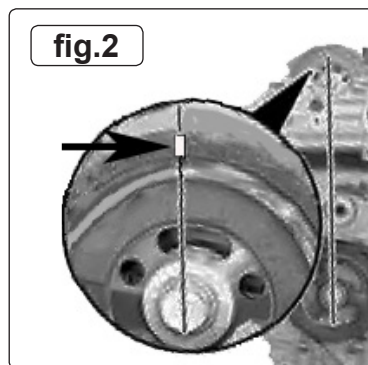
Make	Model	Year	Engine Codes
Mini	1.6 One	(01-09)	W10B16BA
	1.6 Cooper	(01-09)	W10B16BA
	1.6 Cooper S	(02-09)	W11B16AA
Chrysler	PT Cruiser	(01-09)	EJD

5. INSTRUCTIONS

- 5.1. This useful kit contains some specialised tooling to assist when engine work is being performed. The engine support bracket provides better access whilst also supporting the engine when the upper mounting has to be removed. The crankshaft pulley installer makes refitting the crankshaft pulley a much easier operation.

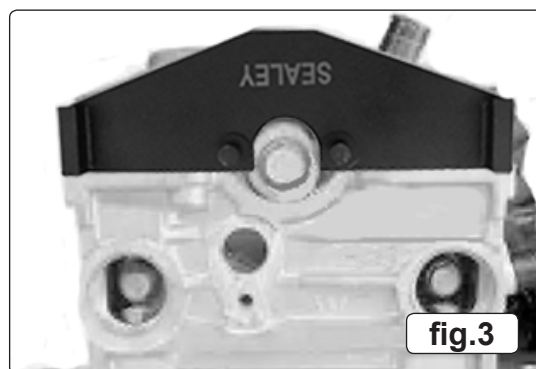


- 5.2. Support the engine, remove the right upper engine mounting and fit the Engine Support (VSE119.02) using the bolts provided. (VSE119.04 and VSE119.05). (fig.1).
- 5.3. Turn the crankshaft until triangular adjustment mark on camshaft gear is at 12 o'clock (see fig.2).



- 5.4. To aid the re-assembly process, mark the timing chain at the triangular adjustment mark.
- 5.5. Fit the Camshaft Sprocket Locking Plate, (VSE119.01) this will lock the camshaft in this position while the required engine work is carried out (fig.3).

Note: do not attempt to turn the crankshaft.



Environmental Protection



Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable dispose of it according to local regulations.

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.



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