



INSTRUCTIONS FOR

PETROL ENGINE SETTING/LOCKING COMBINATION KIT - ALFA ROMEO 1.4,1.6, 1.8, 2.0 16V TWIN CAM

MODEL NO: **VSE2510**

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 & 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.



Refer to instruction manual



Wear eye protection

1. SAFETY

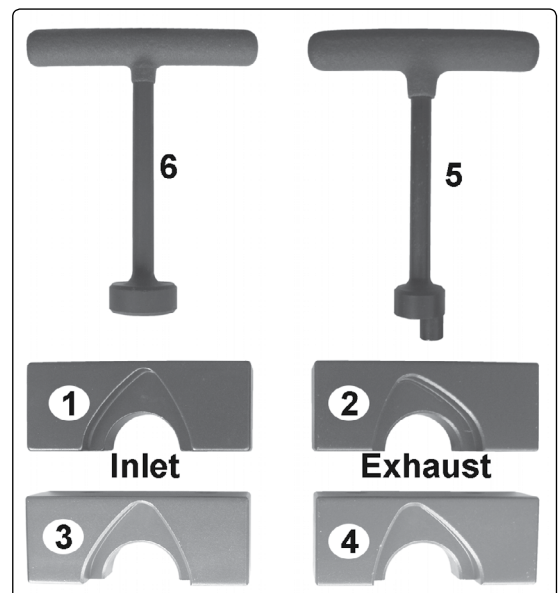
- WARNING!** Wear approved eye protection. Wear appropriate Personal Protective Equipment. A full range of Personal Protective Equipment is available from your Sealey dealer.
- WARNING!** Ensure that Health & Safety, Local Authority Regulations and general workshop practice Regulations are adhered to when using tools.
- × **DO NOT** use tools if damaged.
- ✓ Maintain tools to ensure that they are in an adequate condition for safe use and optimum performance.
- ✓ Ensure that a vehicle that has been raised by a jack is adequately supported. Use axle stands.
- × **DO NOT** attempt to start or move a vehicle whilst in gear and with timing devices fitted.
- ✓ Wear suitable clothing to avoid snagging. **DO NOT** wear jewellery. Tie back long hair.
- ✓ Account for all tools, parts and components being used. **DO NOT** leave these in or near the engine. Return tools to suitable storage after use.
- ✓ When not in use, store in a safe, dry childproof place.
- ✓ Keep children and unauthorised persons away from the work area.
- ▲ **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 correct procedure and data.
- WARNING!** The warnings, cautions and instructions in this manual cannot cover all possible conditions and situations. The Operator / user must apply caution and common sense (good practical sense).
- ✓ When timing an engine, always prevent the engine from being turned over. Use a notice and / or inhibit the engine.
- WARNING!** Incorrect or out of phase camshaft timing can result in contact between the valve head and the piston crown. This will cause damage to the engine.

2. INTRODUCTION

Kit includes camshaft setting plates for locking the camshafts in the timed position. The plates are positioned in place of the camshaft bearing caps. The kit also includes timing and balance shaft belt tensioner adjusters. TDC positioning tools are also required to time these engines, not supplied in kit.

3. CONTENTS

Item	Part no.	Description	OEM No.
1	VSE2510-01	Camshaft locking tool - A2 (Purple)	1.825.042.000
2	VSE2510-02	Camshaft locking tool - S3 (Purple)	1.825.042.000
3	VSE2510-03	Camshaft locking tool - A2 (Blue)	1.825.041.000
4	VSE2510-04	Camshaft locking tool - S3 (Blue)	1.825.041.000
5	VSE2510-05	Timing belt tensioner	1.822.149.000
6	VSE2510-06	Balance shaft tensioner	1.822.154.000
Associated tools			
	VSE2515	TDC position tool Alfa Romeo, Fiat	
	AK9634M	Dial gauge metric 8mm Deflection	



4. APPLICATIONS

1.4/1.6 ENGINES:
(PURPLE SETTING PLATES)
145/146/155/156 (96-01)

ENGINE CODES:
162.01, 322.01, 322.05, 323.01, 323.10, 335.03, 671.06, 672.04,
676.01 (Early engines only)

1.8 ENGINES:
(BLUE SETTING PLATES)
145/146/155/156 (96-01)
Spider/GTV (98-01)
GT (02-10)

2.0 ENGINES:
(BLUE SETTING PLATES)
145/146 (96-01)
147 (01-07)
155/156 (95-02)
166 (98-07)
Spider/GTV (96-03)

Note: On Alfa Romeo Twin Spark engines the camshafts are held in the timed position by Camshaft Setting Plates. The plates are bolted in position in place of the specified camshaft bearing caps on both the inlet and exhaust camshafts. The inlet setting plate replaces the bearing cap on No.2 cylinder and the exhaust setting plate replaces the bearing cap on No.3 cylinder.

- ▲ **IMPORTANT:** The Setting Plates are machined to match the exact profile on the camshaft in the timed position. Ensure the correct colour and inlet/exhaust setting plates are used for the engines stated above.
- ▲ **IMPORTANT:** When installing Camshaft Setting Plates or refitting the bearing caps, **ALWAYS** tighten the bolts to the specified torque. Refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the current procedure and data.



VSE2510



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 and requires disposal, drain off any fluids (if applicable) into approved containers and dispose of the product and the fluids 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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