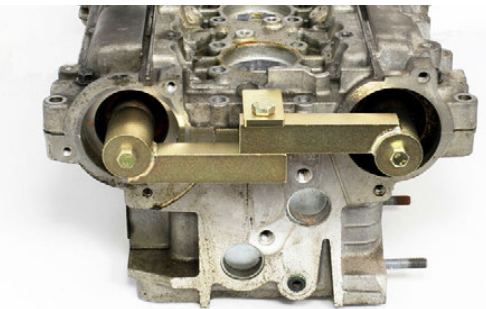
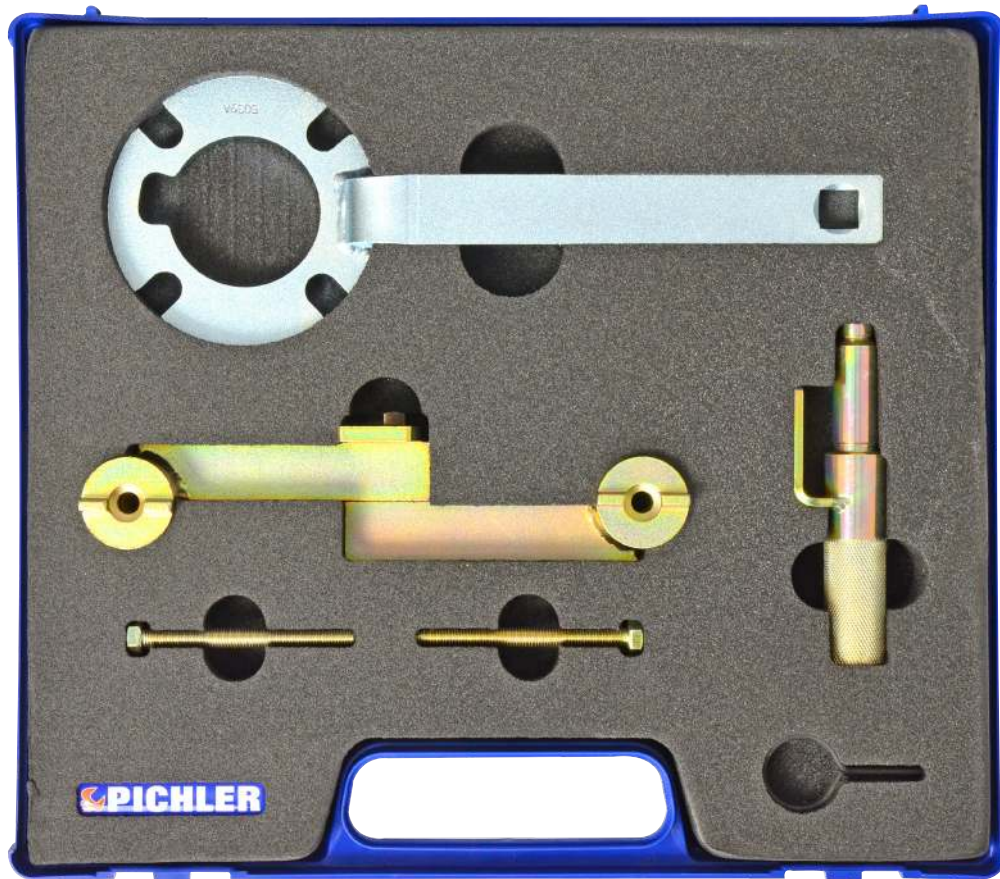




TIMING TOOL SET

FORD 2.5T / VOLVO 1.6 - 2.5T

INCLUDING BRACE

MANUAL

9431310

SAFETY NOTICE

To understand the functioning of the tools, it is necessary to read the manual first!

- > Read these instructions before assembling, during installation and throughout use and in the proper sequence
- > Always refer to the OEM manufacturer's instructions and service manuals for the latest data and to maintain the correct sequence
- > These work instructions and the recommended tools are meant to serve as aides only and are by no means a guarantee for certain results.
- > This tool kit is a special collection and it has been tested and used successfully on several occasions. It is of the utmost importance to maintain the correct procedure as per the instructions
- > The use of the tools should only be carried out by qualified personnel!



ATTENTION
Special caution



CORRECT



LIGHT BULB
Hint or recommendation

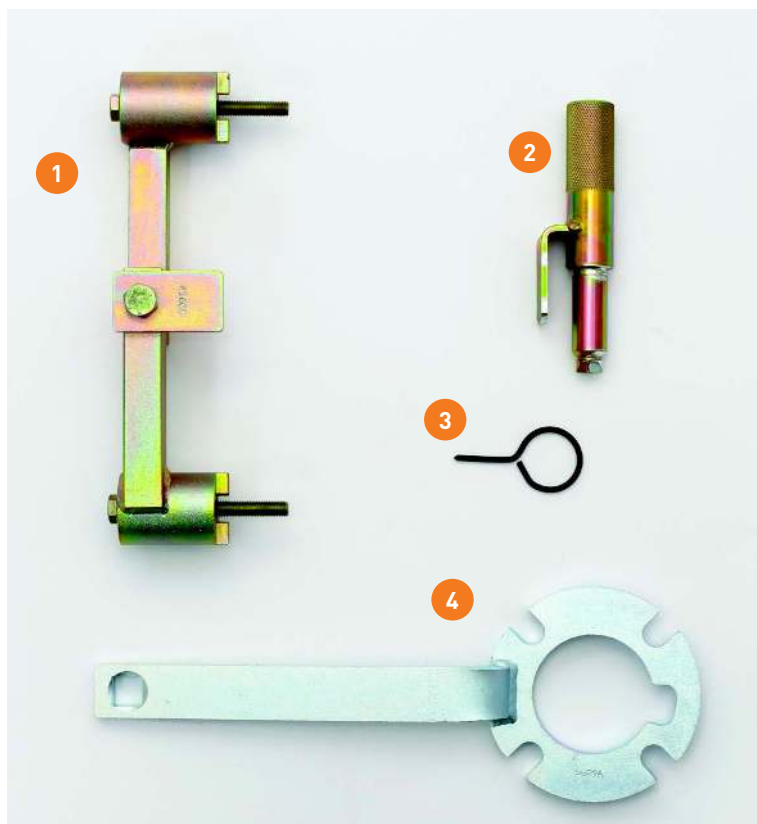


WRONG



SAFETY GOGGLES
Wearing safety goggles
necessary





Nr.	PART.-Nr.	Description
1	AST4366A	Camshaft Setting Tool
2	AST4367	Crankshaft TDC Locking Pin
3	AST4640T7	Tensioner Retaining Pin
4	AST5039A	Crankshaft Pulley Holding Tool
-	AST5087-84	Case + Insert

FORD 2.5T	Petrol Engines in:
	Focus (05-11) Mondeo (07-10) Galaxy (06-10) S-Max (06-10) Kuga (09-13)
VOLVO 1.6 - 2.5T	Petrol Engines in:
	850 (94-97) S80 (98-11) C30 (06-13) V40 (96-04) C70 (97-13) V50 (04-12) S40 (97-12) V70 (97-09) S60 (00-12) XC70 (02-07) S70 (97-00) XC90 (02-12)
FORD	Engine Codes:
	HUBA HUWA HYDA HYBA HYDC JZDA
VOLVO	Engine Codes:
	B4164S B4204S B5244T B4164S2 B4204S2 B5244T3 B4184S B4204T B5244T4 B4184S2 B4204T2 B5244T5 B4184S3 B4204T3 B5244T7 B4184S9 B4204T5 B5244T2 B4184S10 B5234FS B5244S4 B4194T B5234T3 B5244S5 B4194T2 B5234T4 B5244S7 B4204S B5234T5 B5254T2 B4204S2 B5234T6 B5254T3 B4204T B5234T7 B5254T4 B4204T2 B5234T8 B5254T5 B4204T3 B5234T9 B5254T6 B4204T5 B5244FS B5254T7 B5234FS B5244S2 B5254T8 B5234T3 B5244SG B5254T10 B5234T4 B5244SG2 B5254T11



IMPORTANT

Always refer to the vehicle manufacturer's service instructions, or proprietary manual, to establish the current procedures and data. Product Information Sets detail applications and use of the tools with any general instructions provided as a guide only. There is a policy of continuous development & reserve the right to change product specification or appearance without prior notice.

WORK STEPS



To remove the Crankshaft Pulley, remove the 4 outer bolts from the pulley and fit Crankshaft Pulley Holding Tool, securing in place using 4 bolts. Whilst counterholding the pulley, remove the central bolt and then remove the pulley. May also be used to counterhold when fitting the crankshaft pulley central bolt.



Rotate the crankshaft until the grooves in the camshafts align. Bolt on the two alignment arms of Setting Tool and then carefully turn the crankshaft until the arms meet as in Fig. 2A. Fit the datum plate and bolt in place, Fig. 2B.

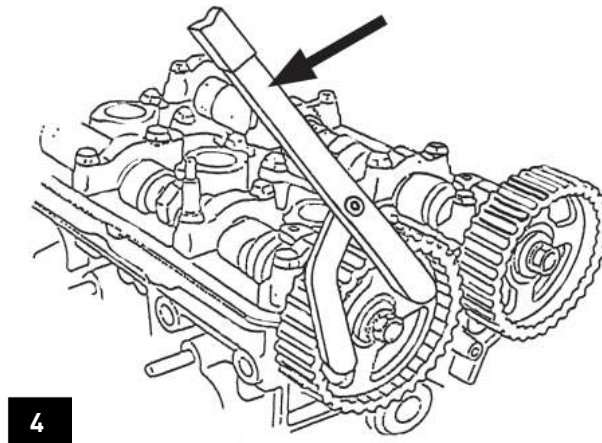


Fit Crankshaft TDC Lock Pin through the engine casing into the crankshaft, and remove belt covers to check that the crankshaft timing marks align.

Remove the timing belt.

Ensure the Setting Tool and Crank Pin are in position and crank timing marks are aligned. Slacken cam sprocket bolts whilst counter-holding using a suitable Holding Tool, and position the sprockets with their retaining bolts in the centre of sprocket slots.

Fit new belt and re-fit tensioner plunger and remove Pin to activate tensioner.



Tighten cam sprocket bolts whilst counter-holding using a suitable Holding Tool.

Remove Setting Tool and Crank Pin. Turn engine two revolutions finishing at a position with the camshaft grooves as Fig. 1 again. Re-fit Setting Tool as before and turn crank carefully until arms meet. Check that Crank Pin can be inserted and that all timing marks align.

Check that timing belt is to specified tension. Remove all tools and re-assemble engine.

NOTES

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