

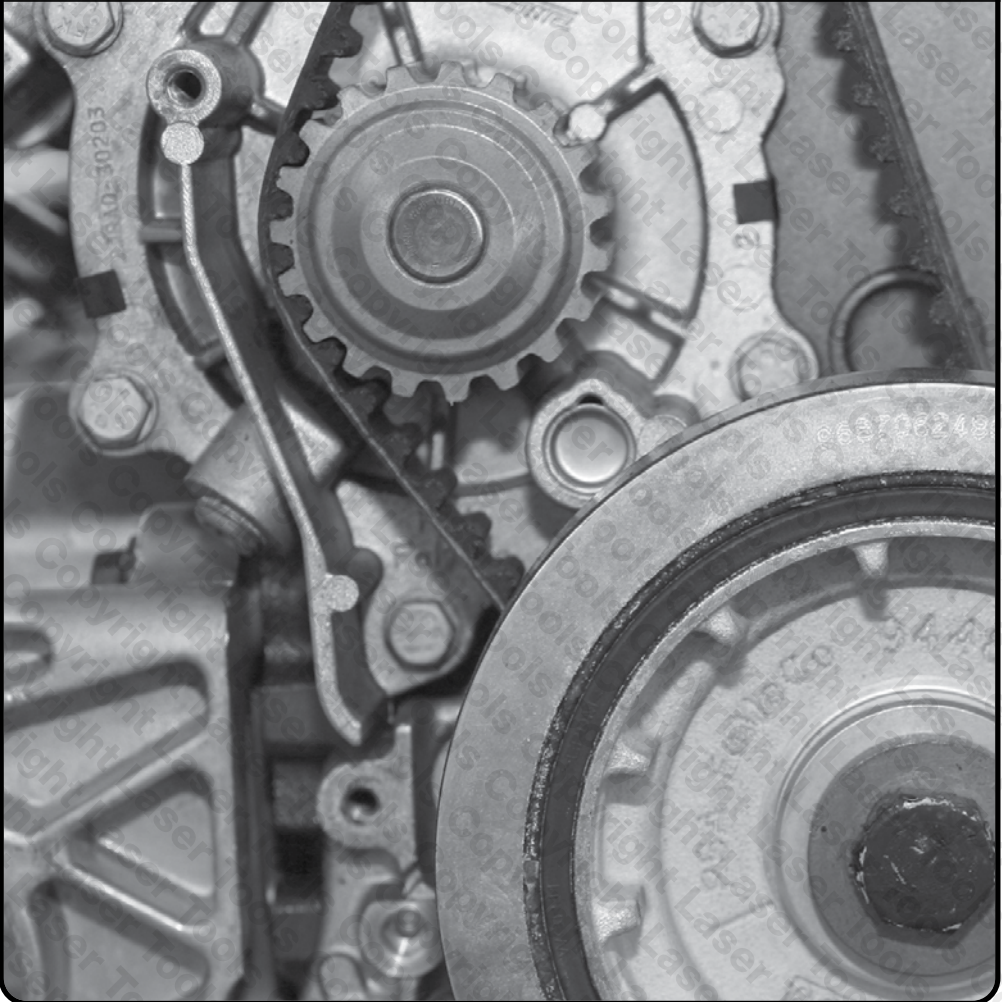
Part No. 8503

LASER[®]

Instructions

Engine Timing Tool Kit

Audi 2.9 & 3.0L Petrol



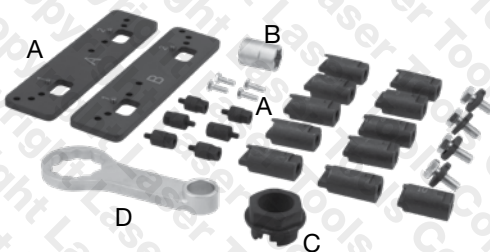
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Introduction

Developed for the latest generation (EA839) Audi 2.9 & 3.0lt V6 TFSi petrol engines including the mild hybrid versions. The Laser 8503 kit is designed to lock the camshafts in the method approved by the manufacturer.

- Equivalent to OEM T40331, T40331/1, T40331/2, T40331/4, T40331/5, T40331/9, T90000, T90001, T90002, T40314.

Components



Ref.	Description	COMP.	OEM
A	Camshaft Locking Kit	C1013	T40331
B	E24 Socket Camshaft Adjuster Socket	C1014	T90000
C	Camshaft Adjuster Holding Tool	C1015	T90001
D	Camshaft Adjuster Holding Tool (Use With C)	C1016	T90002

Applications

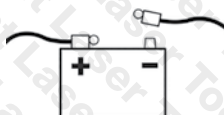
Make, Model, Year			Engine Code
Audi	A6	2018 to 2021	2.9lt
	A8	2017 to 2021	DECA
	Q8	2019 to 2021	3.0lt
	S4	2017 to 2020	DLZA
	S5	2016 to 2020	CZSA
	SQ5	2017 to 2020	CZSE
	RS4	2017 to 2021	DCBD
	RS5	2017 to 2021	CWGD

Always refer to the website for most up to date applications:

www.lasertools.co.uk/product/8503

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicle manufacturers' own data or Autodata.

The use of this engine timing tool kit is purely down to the user's discretion and The Tool Connection Ltd. cannot be held responsible for any damage caused whatsoever.



Instructions

Preparation:

- Set engine to TDC on number 1 cylinder.
- The timing chains are mounted at the back of the engine. To gain access the transmission must first be removed.
- Remove the flywheel/torque drive plate.
- Align all engine timing marks including balance shaft timing marks in accordance with OEM manufacturer instructions.

Component Descriptions:

NOTE: Camshaft alignment tools are fitted to the front of the engine. To ensure correct identification of the component used on the engine being worked on please refer to OEM information.

Component A = Camshaft Locking Kit

- Assemble the camshaft timing tool components as shown in figure 1. The large plate marked "A" fits to the right hand bank and the plate marked "B" is for the left hand side.
- Fit the assembled camshaft locking tools to the front of the engine as shown in figure 1.

WARNING: do not use the camshaft locking tools to loosen or tighten the camshaft fixing bolts against. Always use components (C) & (D).

FIG:1



Component B = E24 Socket Camshaft Adjuster Socket

- Socket (B) is used to loosen and tighten the camshaft control valves when components (C) and (D) are in place.
- Note: replace the camshaft control valve fixing bolts with new.

WARNING: do not use the camshaft locking tools (a) to loosen or tighten the camshaft fixing bolts against. Always use components (C) & (D).

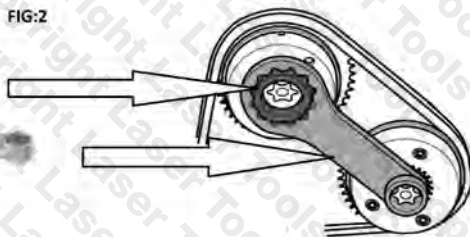
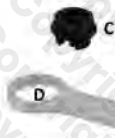
NOTE: For full procedure and torque settings please see vehicle manufacturer vehicle specific instructions.

Component C = Camshaft Adjuster Holding Tool

Component D = Camshaft Adjuster Holding Tool (Use With C)

- Use components (C) & (D) to lock the camshafts while loosening or tightening the camshaft adjuster fixing bolt as shown in figure 2. Repeat for both banks.

FIG:2



Safety Warnings - please read

- If the engine has been identified as an Interference engine, damage to the engine will occur if the timing belt has been damaged. A compression check of all the cylinders should be taken before the cylinder head (s) are removed.
- Do not turn crankshaft or camshaft when the timing belt/chain has been removed.
- To make turning the engine easier, remove the spark plugs/glow plugs or injectors.
- Observe all tightening torques.
- Do not turn the engine using the camshaft or any other sprocket.
- Disconnect the battery earth lead (check Radio code is available).
- Do not use cleaning fluids on belts, sprockets or rollers.
- Some toothed timing belts are not interchangeable. Check the replacement belt has the correct tooth profile.
- Always mark the belt with the direction of running before removal.
- Do not lever or force the belt onto its sprockets.
- Do not use timing pins to lock the engine when slackening or tightening the crankshaft pulley bolts.
- ALWAYS REFER TO A REPUTABLE MANUFACTURERS WORKSHOP MANUAL.

Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by the Tool Connection for incorrect use of any of our products, and the Tool Connection cannot be held responsible for any damage to personnel, property or equipment when using the tools. Incorrect use will also invalidate the warranty.

If applicable, the applications database and any instructional information provided has been designed to offer general guidance for a particular tool's use and while all attention is given to the accuracy of the data no project should be attempted without referring first to the manufacturer's technical documentation (workshop or instruction manual) or the use of a recognised authority such as Autodata.

It is our policy to continually improve our products and thus we reserve the right to alter specifications and components without prior notice. It is the responsibility of the user to ensure the suitability of the tools and information prior to their use.



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Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.



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