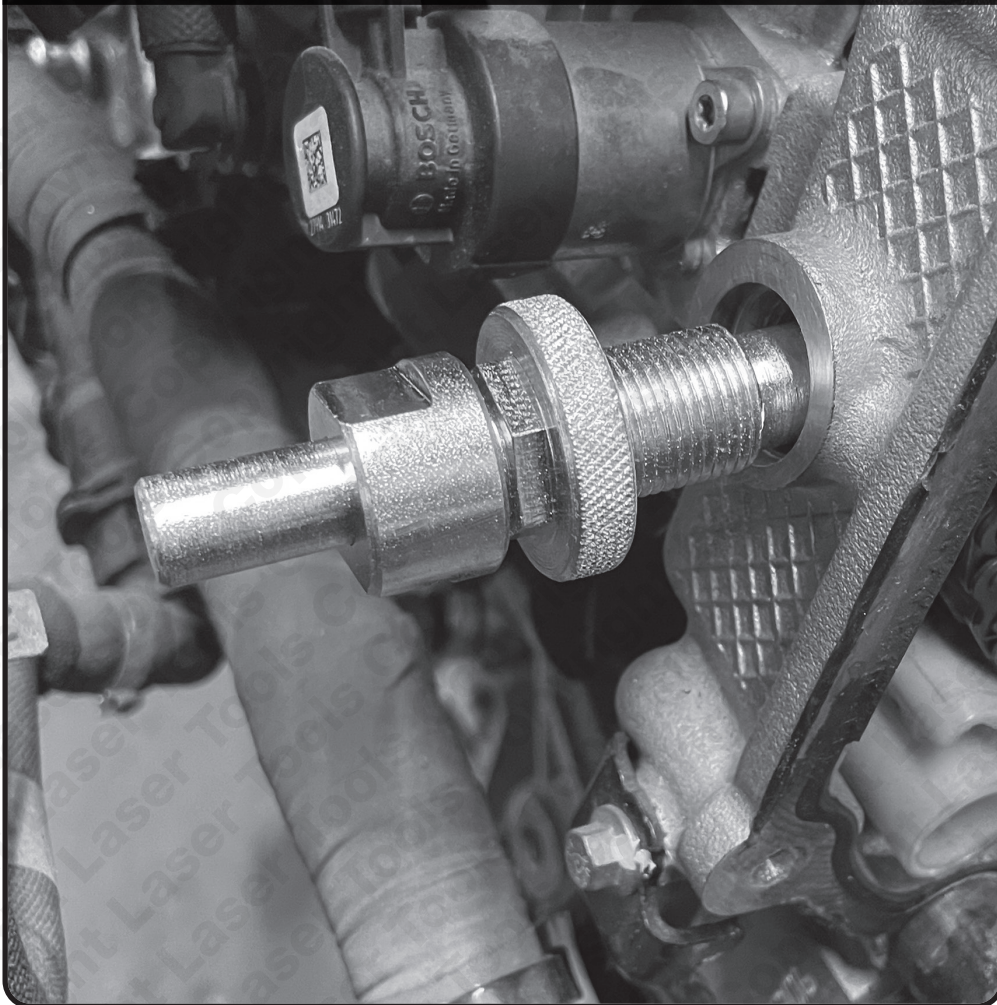


LASER[®]

Part No. 9131

Instructions

Engine Timing Kit for JLR 3.0 Diesel



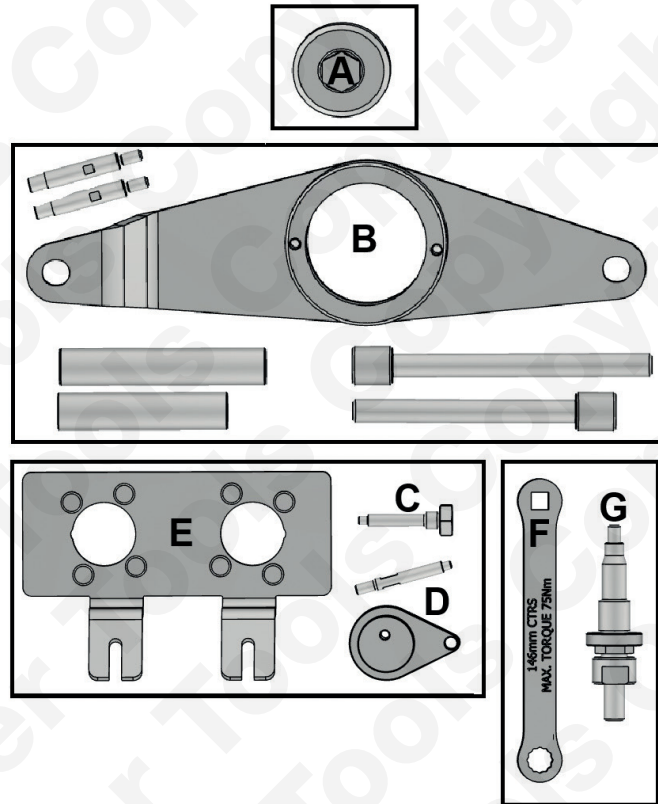
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Description

The Laser 9131 timing tool kit has been specially developed to allow the 2020-on 3.0lt diesel engines from Jaguar Land Rover (JLR) to be locked in their timed position during timing chain replacement or timing checks.

- Applications include: Defender (from 2020), Range Rover (from 2020), Range Rover Sport (from 2020), Range Rover Velar (from 2020) & Jaguar F-Pace (from 2020).
- Engine applications include: 3.0L D, DT306, AJ20D6 & DT306.
- Kit includes: cam & crankshaft holding tools. For Fuel Pump alignment tools see Laser 9157.
- Equivalent to OEM: JLR-303-1656, JLR-303-1659, JLR-303-1658, JLR-303-1670, JLR-303-1714 & JLR-303-1679.
- For 2.0L AJ200 applications please see Laser Part No. 7430 (Diesel) & 8507 (Petrol). Made in Sheffield.

Kit List



Item	Comp. No.	Description	OEM.
A	C1092	Crankshaft Pulley Turning tool	JLR-303-1656
B	C1093	Crankshaft Pulley Locking Tool	JLR-303-1659
C	C1094	Inlet Camshaft Locking tool	JLR-303-1658
D	C1095	Exhaust Camshaft Locking tool	
E	C1096	Camshaft Pulley Locking tool	JLR-303-1670
F	C1097	High-pressure Fuel pump Sprocket Torque Spanner	JLR-303-1714
G	C1098	High-pressure Fuel Pump Spindle Locking Tool	JLR-303-1679

Applications

Make	Model	Year	Engine Codes
LAND ROVER	Defender	From 2020	3.0D
	Range Rover	From 2020	DT306 (AJ20D6)
	Range Rover Sport	From 2020	DT306
	Range Rover Velar	From 2020	
JAGUAR	F-Pace	From 2020	

Instructions for use

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles 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.



The vehicles fitted with this engine may be Hybrid or Mild-Hybrid and use high-voltage electricity that may present a risk of serious injuries. ALWAYS follow manufacturer's instructions when working with Hybrid vehicles.

Basic component use: for full instructions please refer to OEM or Autodata instructions.

NOTE: Due to the timing chains being at the rear of the engine, removal and fitting of the timing chains requires the removal of the transmission and flywheel/drive plate.

- Turning the crankshaft in the normal direction of rotation, align the crankshaft pulley timing marks with the arrow on the timing chest case.
- Align the engine camshaft timing marks.
- Align fuel pump sprocket marks.

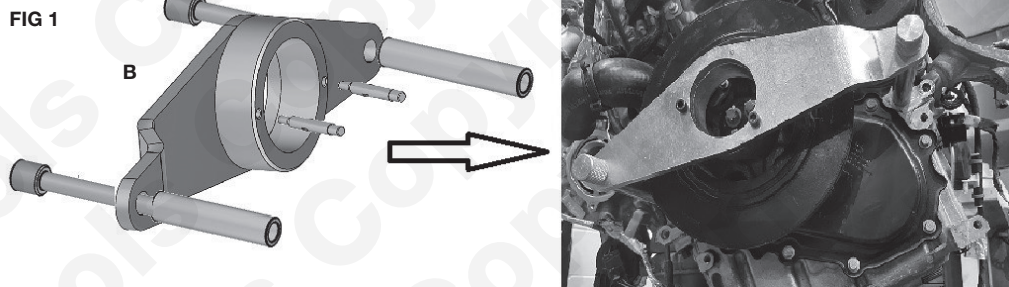
Component A = Crankshaft turning Tool.

Used to turn the crankshaft.

Component B = Crankshaft Pulley Locking Tool:

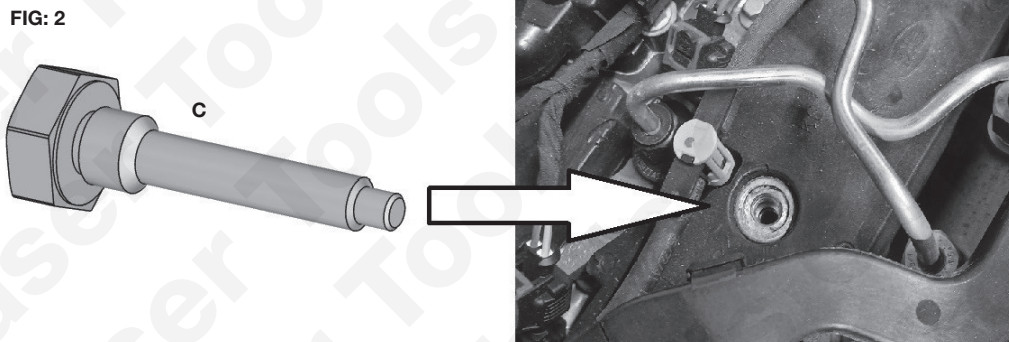
Used to lock and hold the crankshaft pulley in place.

- Working on the front of the engine, fit the crankshaft pulley locking tool as shown in Figure 1.



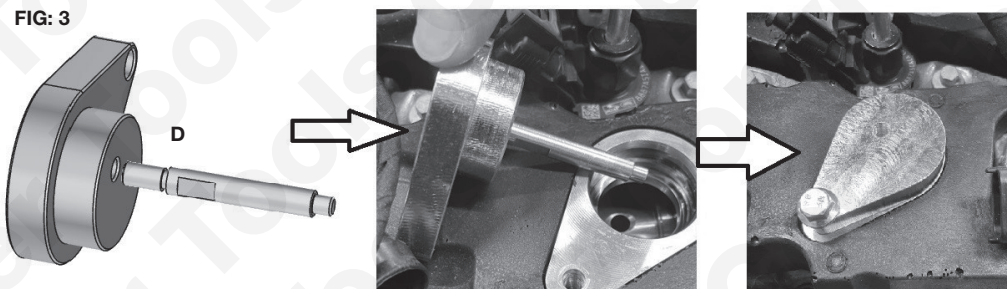
Component C = Inlet Camshaft locking pin:

- Working from the top of the engine remove the blanking plug on top of the camshaft cover and fit component (C) through the hole in the camshaft as shown in Figure 2.



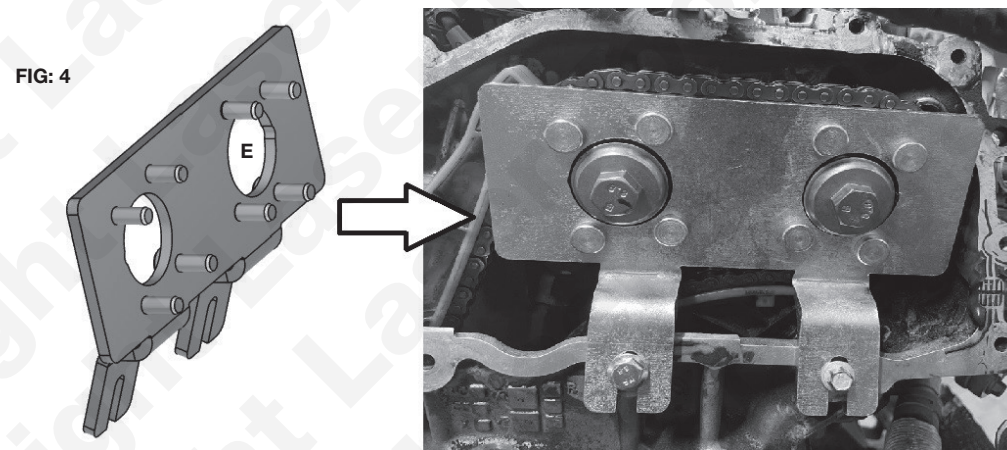
Component D = Exhaust Camshaft locking pin:

- Assemble component (D) as shown in Figure 3.
- Remove the oil filler tube and fit component (D) as shown in Figure 3.



Component E = Camshaft Pulley Locking Tool:

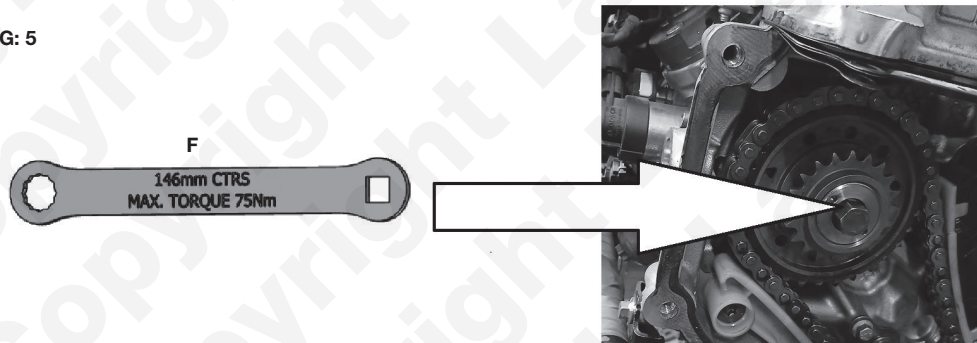
- With the crankshaft pulley locking tool and camshaft locking pin all correctly fitted remove the secondary timing chain tensioner.
- Fit component E as shown in Figure 4.



Component F – High-pressure Fuel pump Sprocket Torque Spanner:

- Used to allow tightening of the fuel pump pulley fixing using a torque wrench. Figure 5.

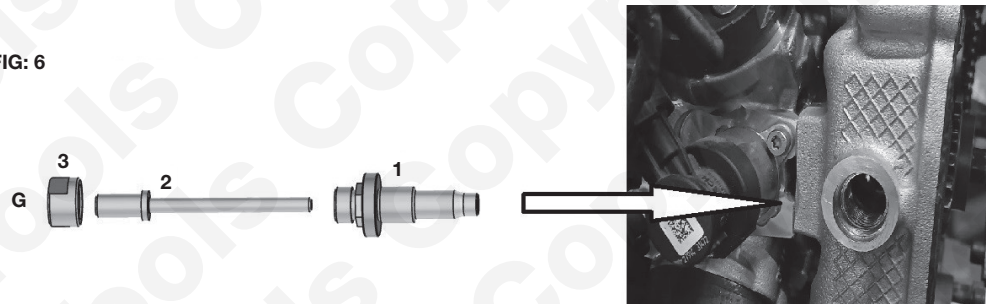
FIG: 5



Component G – High-pressure fuel pump locking tool:

- Disassemble component (G) and fit to the engine in the sequence shown in Figure 6.

FIG: 6



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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.



9131_Instructions_V1



When you have finished with this product please recycle it

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Guarantee



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