

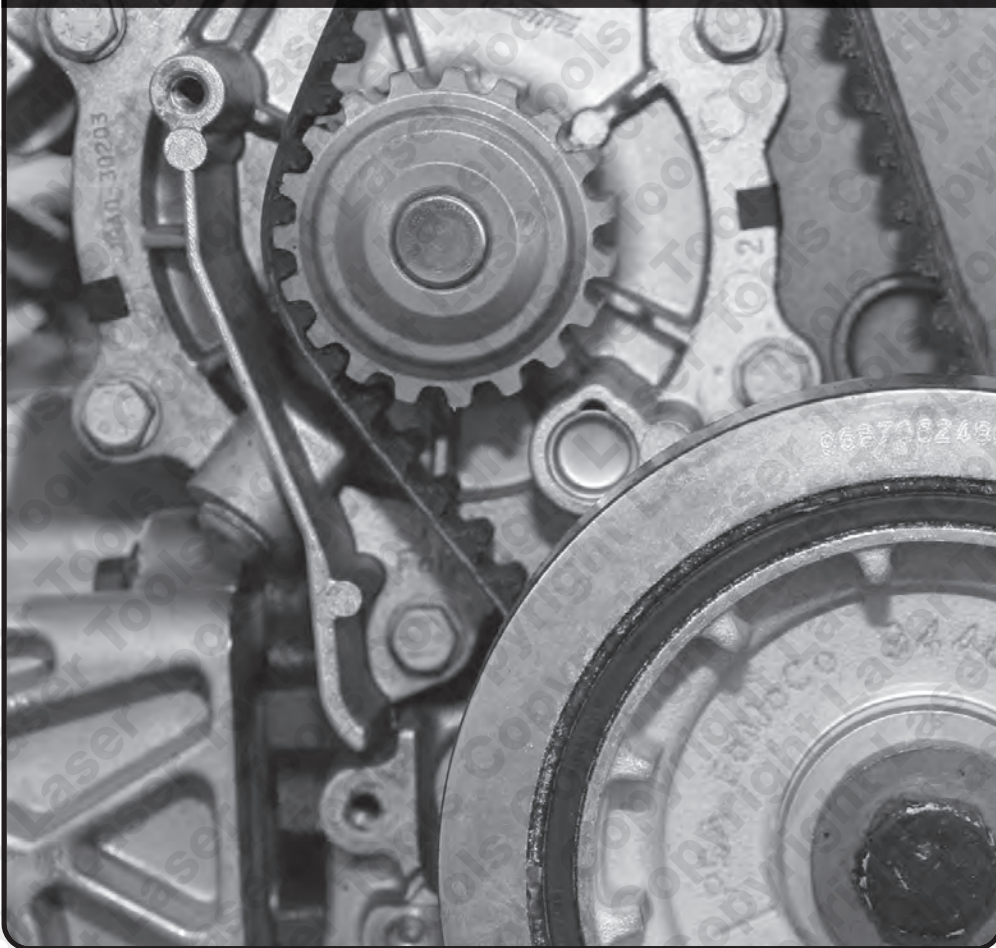
LASER[®]

Part No. 7430

Instructions

Engine Timing Tool Kit

Timing Kit JLR 2.0 Diesel AJ200



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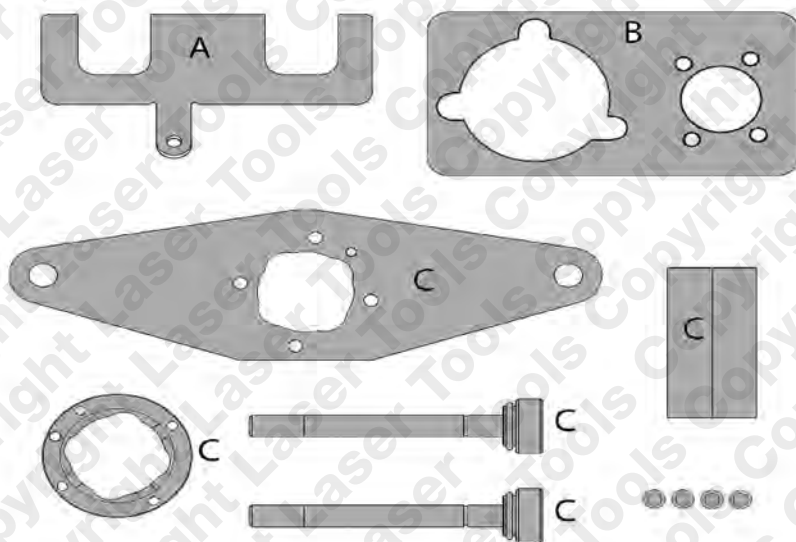
Introduction

Developed for the latest 2.0L diesel engine from JLR. The kit contains all the essential components required to lock the new JLR 2.0L “Ingenium” Diesel Engines in their “timed” position so that the engine timing chain can be safely removed and replaced and the engine timing checked.

Note: for Fuel Pump removal without disturbing the timing chain see 7431.

- Vehicle applications include: Jaguar E-Pace, F-Pace, XE, XF.
Land Rover Discovery, Discovery Sport, Range Rover Evoque, Sport, Velar.
- Engine code applications include: AJ-200D/204DT, AJ-200D, AJ200/204DTD.
- Equivalent to OEM JLR-303-1625, JLR-303-1631, JLR-303-1630.
- For fuel pump removal see Laser Part No. 7431.

Components



Ref	Comp Code	OEM No.	Description
A	C893	JLR-303-1625	Camshaft Locking Tool
B	C894	JLR-303-1631	Camshaft adjuster locking/holding tool
C	C895	JLR-303-1630	Crankshaft pulley locking tool

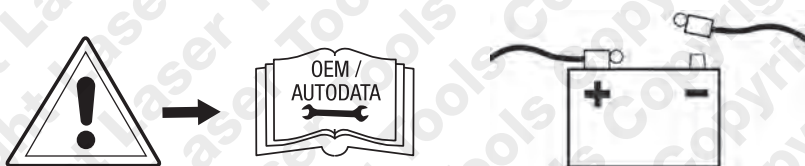
Applications

Make, Model, Year			Engine Codes
Jaguar	E-Pace	2017 - on	2.0 AJ200D AJ-200D/204DT AJ-200D/204DTA AJ200/204DTD
	F-Pace	2016 - on	
	XE	2015 - on	
	XF	2015 - on	
Land Rover	Discovery Sport	2015 - 19	
	Discovery	2017 - on	
	Range Rover Evoque	2015 - 19	
	Range Rover Sport	2016 - 18	
	Range Rover Velar	2017 - on	

Always refer to the website for most up to date applications: www.lasertools.co.uk/product/7430

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

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.

- Engine camshaft timing marks at 12 o'clock.
- Front pulley timing mark at 6 o'clock to correspond with 50° after top dead centre (ATDC) cylinder no.1.
- Ensure camshaft adjuster marks are at 12 o'clock.

Component A = Camshaft locking tool.

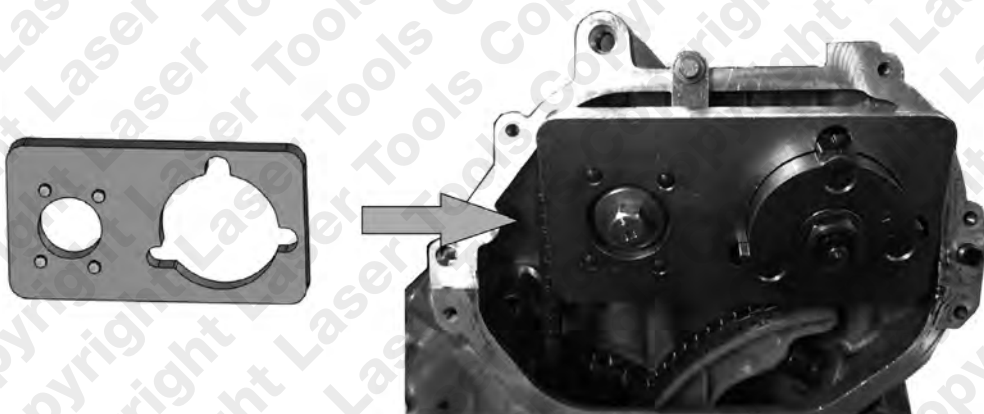
- Fit Component (A) as shown.



Instructions

Component B = Camshaft Adjuster Locking/Holding Tool

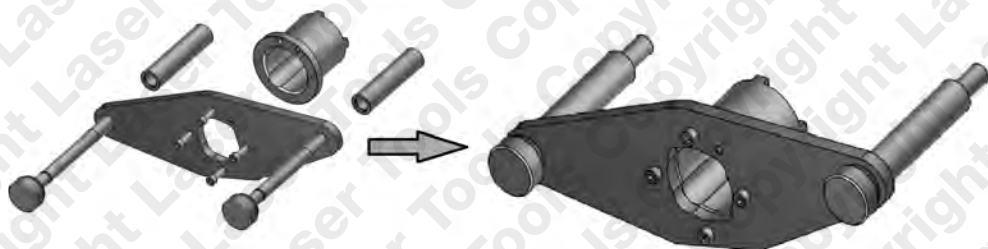
- Fit component (B) as shown.



Instructions

Component C = Crankshaft Pulley Locking Tool

- Assemble components (C) as shown.



- Fit assembly (C) to the crankshaft pulley as shown.



Safety Warnings - please read

- Disconnect the battery earth leads (check radio code is available)
- Remove spark or glow plugs to make the engine turn easier
- Do not use cleaning fluids on belts, sprockets or rollers
- Always make a note of the route of the auxiliary drive belt before removal
- Turn the engine in the normal direction (clockwise unless stated otherwise)
- Do not turn the camshaft, crankshaft or diesel injection pump once the timing chain has been removed (unless specifically stated)
- Do not use the timing chain to lock the engine when slackening or tightening crankshaft pulley bolts
- Do not turn the crankshaft or camshaft when the timing belt/chain has been removed
- Mark the direction of the chain before removing
- It is always recommended to turn the engine slowly, by hand and to re-check the camshaft and crankshaft timing positions
- Crankshafts and camshafts may only be turned with the chain drive mechanism fully installed
- Do not turn crankshaft via camshaft or other gears
- Check the diesel injection pump timing after replacing the chain
- Observe all tightening torques
- Always refer to the vehicle manufacturers' service manual or a suitable proprietary instruction book
- Incorrect or out of phase engine timing can result in damage to the valves

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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.



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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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