

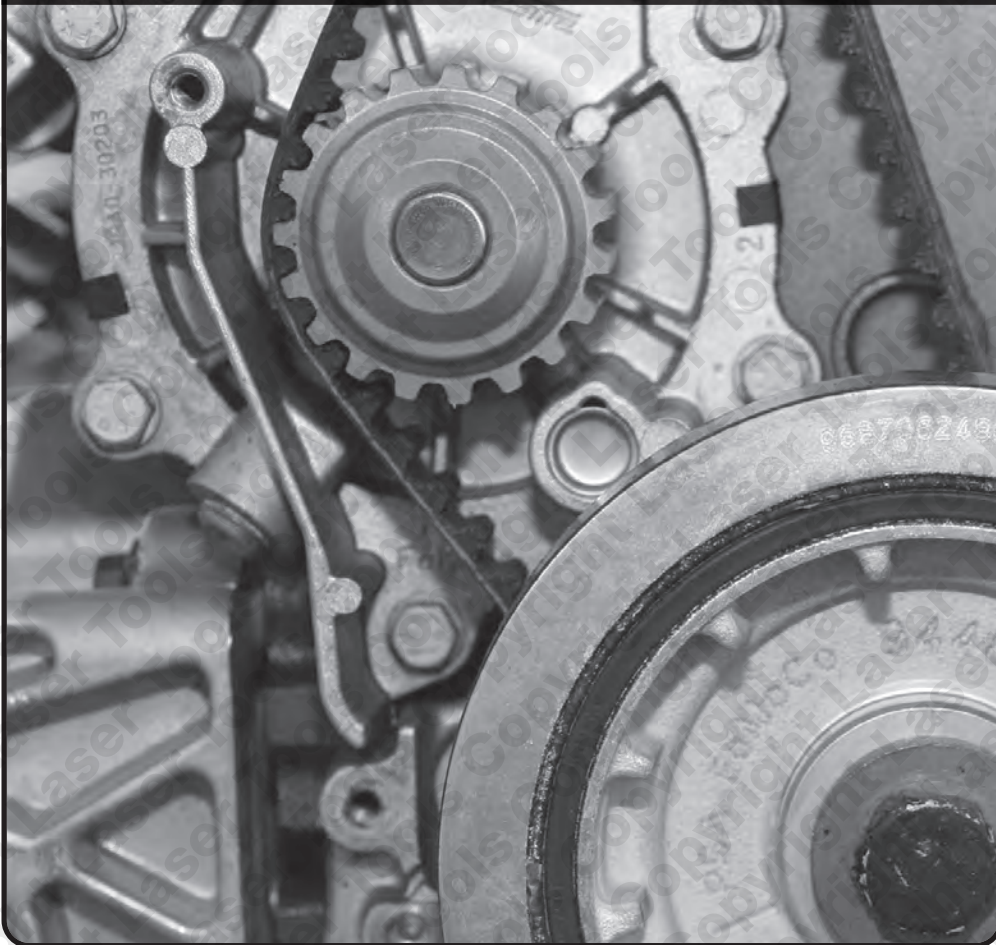
LASER[®]

Part No. 7051

Instructions

Engine Locking Kit

JLR 5.0L



Please refer to www.lasertools.co.uk/toolpoint to check the most up to date product applications.

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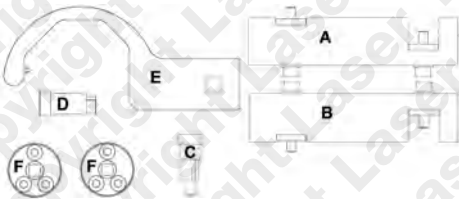
Introduction

This kit provides the required timing tools to lock the camshafts and crankshaft in their timed positions. Designed specifically for use on the post 2010 V8 5.0L petrol engines used across the Jaguar and Land Rover ranges.

This 7 piece kit includes the camshaft, crankshaft, flywheel locking tools and the special camshaft turning tools with the tensioning wrench required to work on the engines listed.

Note: For Flywheel Locking tools please see Laser 7059.

Components



Ref.	Code	OEM	Description
A	C678	303-1445-1	Cam Locking Block Type 1
B	C679	303-1445-5	Cam Locking Block Type 2
C	C826	303-1303	Crankshaft Locking Pin
D	C681	303-1447	Crankshaft Locking Pin
E	C682	303-1482	Pre-Tensioning Wrench
F	C683	303-1452	Camshaft Rotating Tools x 2

Applications

Make, Model, Range, Year				Engine Codes
Jaguar	XF/XFR/XFR-S	X250	2009 - 2015	3,0 V6 Supercharged AJ-126/306PS
	XF	X260	2015 - on	
	XJ/XJR	X351	2010 - 2019	5,0 V8 AJ-133/508PN
	XE	X760	2015 - 2019	5,0 V8 Supercharged AJ-133/508PS
	XKR/XK8	X150	2009 - 2015	
	F-Type	X152	2013 - on	
	F-Pace	X761	2016 - on	
Land Rover	Discovery 4	L319	2009 - 2017	3,0 V6 Supercharged 306PS
	Discovery	L462	2017 - 2018	
	Range Rover III	L322	2009 - 2013	5,0 V8 508PN
	Range Rover IV	L405	2012 - on	
	Range Rover Sport	L320, L494	2009 - on	5,0 V8 Supercharged 508PS
	Range Rover Velar	L560	2017 - on	

Always refer to the website for most up to date applications: www.lasertools.co.uk/product/7051

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.



Preparation

- Place the vehicles on a suitable ramp or support the vehicle on axle stands
- Remove upper and lower engine covers
- Remove camshaft covers
- Remove the crankshaft position sensor
- Ensure the crankshaft pulley dowel key is at 6 o'clock
- N.B. Always turn the engine in normal direction of rotation

Instructions

Components A/B: Camshaft locking Block type 1 and 2

With the slots in the rear of the camshafts aligned to the cylinder head as shown in **Fig.1**

Use both components **A** and **B** to lock the camshafts in position as shown in **Fig. 2**.

Fit **A** and **B** after the crankshaft locking pin (**D**) has been installed.

When fitting **A** and **B** tighten the fixing screws by hand.



Fig.1

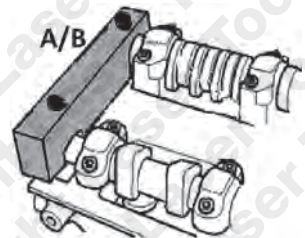


Fig.2

Components C/D: Crankshaft Locking Pins

Used to lock the crankshaft in its timed position via the crankshaft position sensor aperture.

Remove the crankshaft position sensor and fit component **C** or **D** in place of the sensor according to OEM application information. **Fig:3**



Fig.3

Instructions

Component E: Timing Chain pre-tensioning Wrench

Used to pre-tension the timing chain before tightening the camshaft adjuster bolts see Fig. 4.

It is designed to fit behind the camshaft sprockets and engage with the sprocket as shown. Component E must have the correct torque applied to it to ensure all slack in the chain between sprockets has been removed.

To ensure the correct tension is applied please consult manufacturer's torque information.

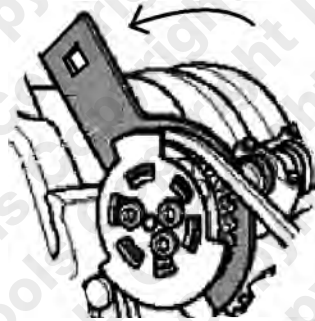


Fig.4

Component F: Camshaft rotating tools

Used to rock the camshafts gently to ensure they are correctly held by camshaft locking tools (A/B) and turn the camshafts when the sprockets are not in place.

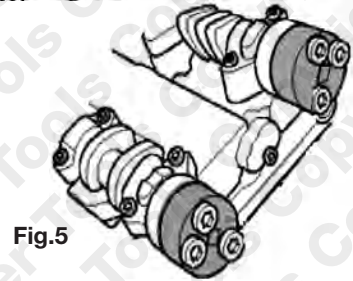


Fig.5

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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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Guarantee



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