

Safety Warnings - please read

- Wear eye and hand protection when using this tool kit.
- Always carefully clean the tool components after each use.
- Keep the tool components safe and tidy in the supplied case.
- Do not use the kit for any purpose other than for which it is designed.



Safety First. Be Protected.

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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When you have finished with this badge please recycle it.

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Guarantee

Distributed by The Tool Connection Ltd

Kington Road, Southam, Warwickshire CV47 6DR
T +44 (0) 1203 811800 F +44 (0) 1203 811886
info@toolconnection.co.uk www.toolconnection.co.uk

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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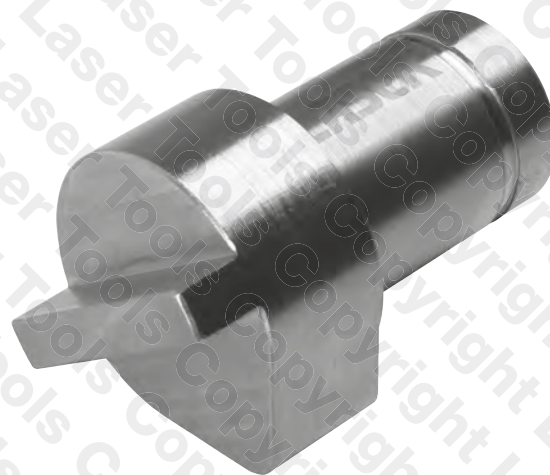
Part No. 7878

LASER®

Fuel Pump Camshaft Alignment Tool

Jaguar Land Rover

Instructions



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Introduction

Designed and manufactured in Sheffield to allow the checking and setting of the engine driven fuel pump camshaft used on the Jaguar Land Rover AJ V8 3.0L & 5.0L naturally aspirated and Supercharged petrol engines. The Laser 7878 is equivalent to the OEM tool but is manufactured in one piece for ease of use.

For full details of use please see vehicle specific OEM data.

- Equivalent to OEM tools JLR-303-1621. Use in accordance with OEM instructions.
- Where chain removal is required use with engine timing kit Laser Part No. 7051.

Applications

Make	Model	Year	Engine Codes
Jaguar	F-Pace	From 2016	3.0
	F-Type	From 2013	306PS
	XE	2015 to 2019	AJ-126
	XF	From 2009	AJ-126/306PS
	XFR	2009 to 2015	5.0
	XFR-S	2013 to 2015	508PN
	XJ	2010 to 2019	508PS
	XK8	2009 to 2015	AJ-133/508PN
	XKR	2009 to 2015	AJ-133/508PS
Land Rover	Discovery	2009 to 2016	
	Range Rover	From 2009	
	Range Rover Sport	From 2009	

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicle's manufacturers' own data or Autodata. The use of this alignment tool is purely down to the user's discretion and The Tool Connection Ltd. cannot be held responsible for any damage caused whatsoever.

Instructions

Checking Pump Timing

Preparation:

- Remove lower engine cover.
- Drain engine oil.
- Remove the crankshaft sensor, align timing marks and fit appropriate crankshaft timing tool (see Laser Part No. 7051).
- Mark the position of the front crankshaft pulley.
- Remove the brake vacuum pump (discard pump seal).

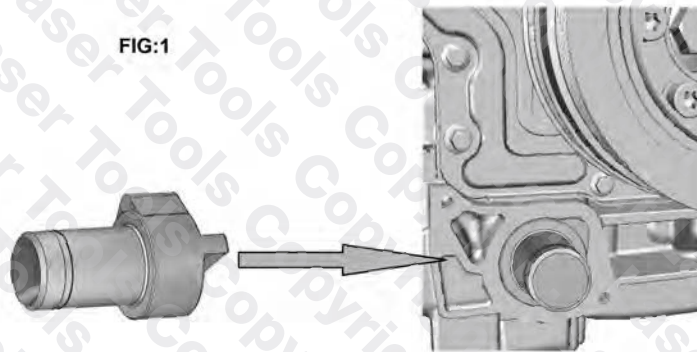
Instructions

- Remove the crankshaft alignment tool.
- Fit Laser 7878 as shown in figure 1 – it may be necessary to rotate the crankshaft slightly to ensure a good fit of 7878.
- With the pump tool installed reinstall the crankshaft timing tool.

NOTE: DO NOT USE EXCESSIVE FORCE. If the crankshaft timing tool cannot be installed, the pump timing must be reset which requires access to the timing chains.



FIG:1



Note: if the pump camshaft position needs resetting then this may require the removal of the timing chains please see Laser Part No. 7051.