

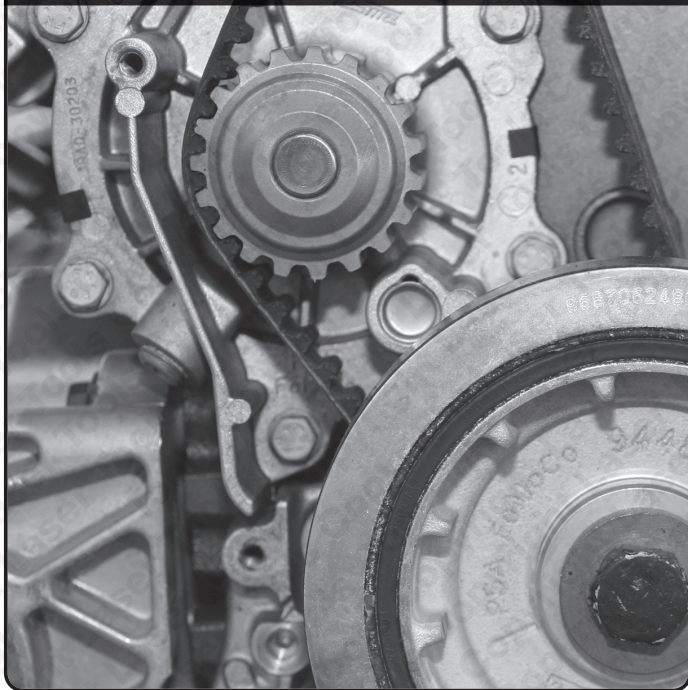
Part No. 8678

# LASER<sup>®</sup>

## Instructions

### Engine Timing Tool Kit

MG Motors 1.5L Petrol



[www.lasertools.co.uk](http://www.lasertools.co.uk)

## Introduction

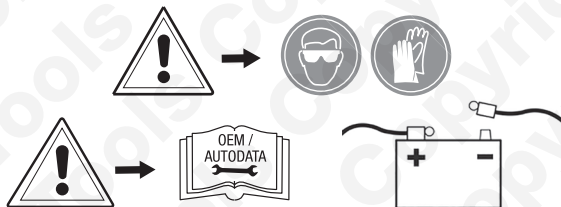
The Laser 8678 kit has been developed to allow the MG Motors 1.5L petrol engine crank and camshafts to be locked in their timed positions allowing safe removal and replacement of the camshaft timing chain and to check the engine timing.

- Applications include: MG3 (2013 to 2022), ZS (2017 to 2022).
- Engine applications include: 15S4C, 15S4U.
- Kit includes crankshaft locking pin, camshaft locking pins with bridge.
- Equivalent to OEM refs. TEN00002, TEN00004.

*Use in conjunction with OEM instructions.*

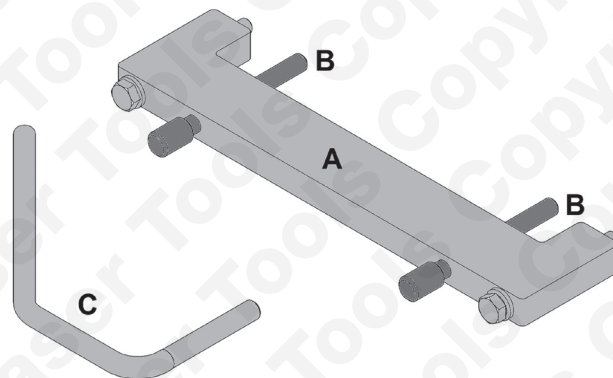
The following instructions are for guidance only. Please refer to OEM derived data such as the vehicle manufacturers' own data or Autodata.

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.



**Warning:** Incorrect or out of phase engine timing can result in damage to the valves. It is always recommended to turn the engine slowly, by hand, and to re-check the camshaft and crankshaft timing positions.

## Components



Ref.	Comp. Code	OEM Ref.	Description
A	C1023	TEN00004	Camshaft Alignment Bridge
B	C1024		Camshaft Alignment Pins
C	C1022	TEN00002	Crankshaft Alignment Pin

## Applications

Manufacturer	Model	Year	Engine Codes
MG Motors	MG3	2013 on	1.5L
	ZS	2017 on	15S4C
			15S4U

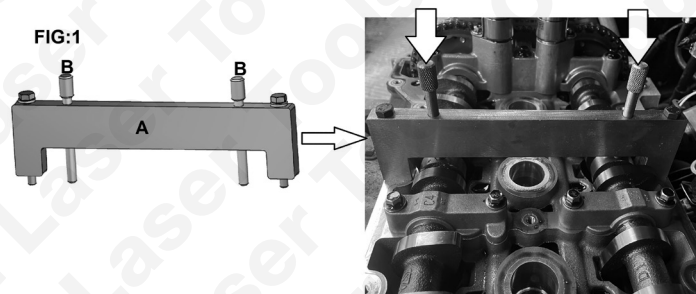
Always refer to the website for most up to date applications:  
[www.lasertools.co.uk/product/8678](http://www.lasertools.co.uk/product/8678)

## Instructions

**NOTE:** When loosening and tightening pulley or sprocket fixings do not use the camshaft or crankshaft alignment tools to torque against. ALWAYS use a sprocket holding tool.

### Component Descriptions:

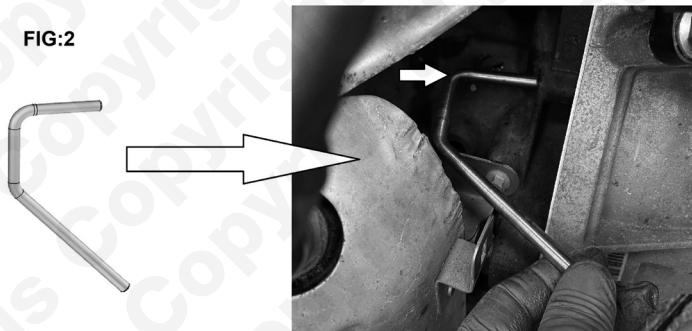
**Component A/B = Camshaft Alignment Bridge** – Align the camshafts so their alignment holes are vertical. Fit the alignment bridge (A) and alignment pins (B) as shown. See figure 1.



## Instructions

**Component C = Flywheel Alignment Pin** - Fit the crankshaft alignment pin (C) as shown from the engine bay into the back of the flywheel. See figure 2.

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.



**Safety First. Be Protected.**



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