

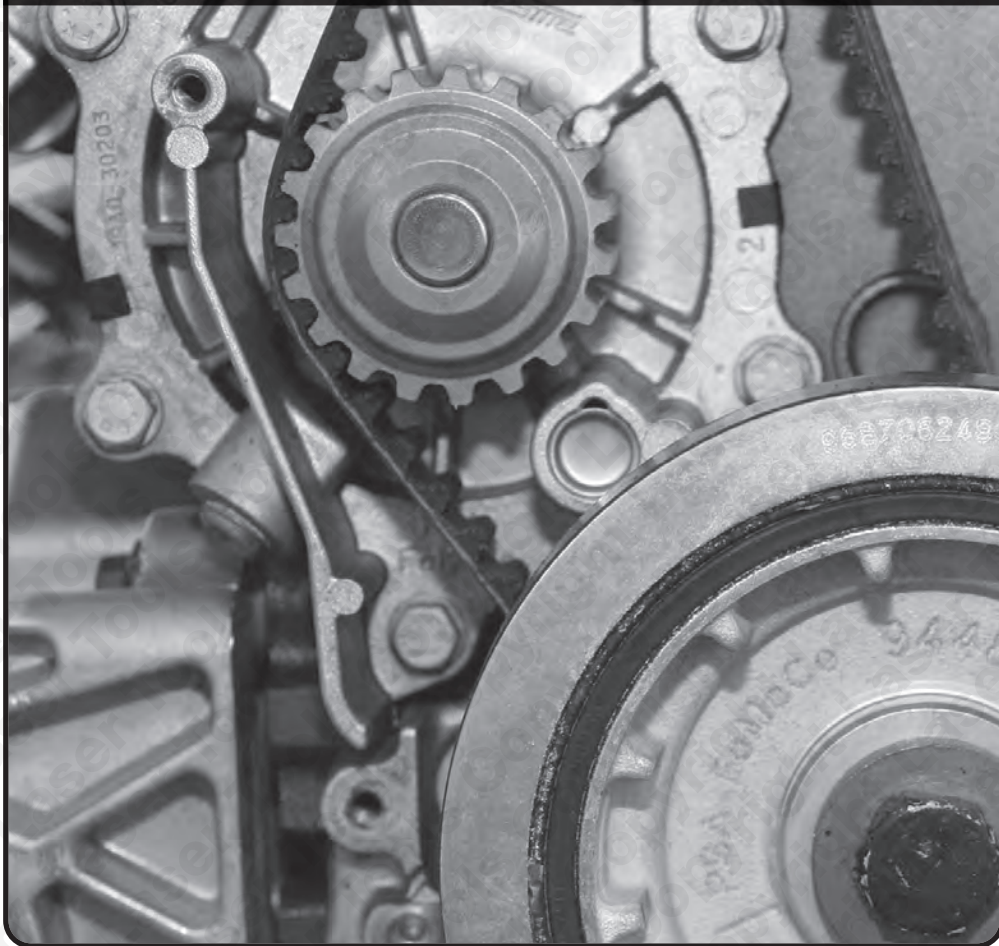
# LASER<sup>®</sup>

Part No. 6896

## Instructions

### Engine Timing Tool Kit

Mercedes-Benz 1.8, 2.1, 2.2 Diesel



Please refer to [www.lasertools.co.uk/toolpoint](http://www.lasertools.co.uk/toolpoint)  
to check the most up to date product applications.

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

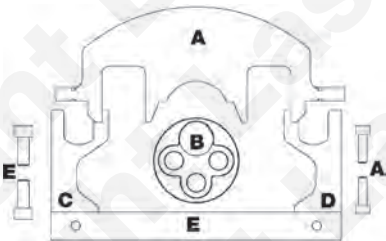
## Introduction

The kit enables the engine to be locked in its timed position for the removal and refitting of the camshaft drive chain. Specifically designed for the Mercedes-Benz vehicles fitted with the chain driven 1.8/2.1/2.2 CDI Diesel Engines (engine code pre fix 651).

- Can be used on both early and late versions of the 651 Mercedes engine.
- These engines are also found in the Jeep and Dodge ranges.

## Components

Ref.	Code	OEM Ref	Description
A	C779	651 589 09 40 00, 651 589 01 40 00	Camshaft Locking Tool and Bolts
B	C666	651 589 00 40 00	Crankshaft Pulley Holding Tool
C,D,E	C708	651 589 02 63 00	Balance Shaft Locking Forks x2 plus Locking Bar Assembly and Bolts



## Applications

Marque	Model	Range	Year	Engine Codes
Mercedes-Benz	A-Class	(176)	2012 - 2018	1.8
	B-Class	(246)	2012 - 2019	651.901
	C-Class	(204/205)	2009 - 2018	2.1
	CLA Coupe	(117)	2013 - 2019	651.900
	CLS	(218)	2011 - 2018	651.910
	E-Class	(212/207)	2009 - 2016	651.911
	GLA	(156)	2014 - 2020	651.912
	GLC	(253)	2015 - 2019	651.913
	GLE	(166)	2015 - 2019	651.916
	GLK	(204)	2008 - 2015	651.921
	M-Class	(166)	2011 - 2015	651.922
	S-Class	(221/222)	2010 - 2017	651.924
	SLC	(172)	2016 - 2017	651.925
	SLK	(172)	2012 - 2016	651.930
	Sprinter	(906/907/910)	2009 - 2020	651.940
	Vito/Viano	(639)	2010 - 2015	651.950
	Vito/V-Class	(447)	2014 - 2020	651.955
				651.956
				651.957
				651.958
				651.960
				651.961
				651.980

Always refer to the website for most up to date applications: [www.lasertools.co.uk/product/6896](http://www.lasertools.co.uk/product/6896)

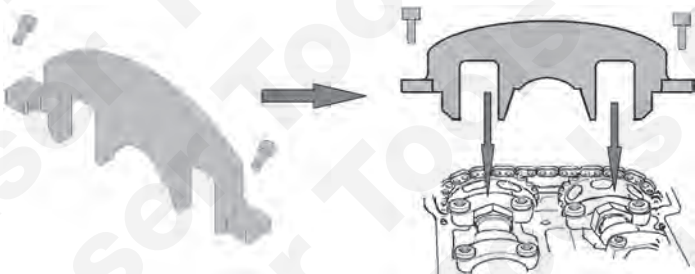
## Instructions

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.

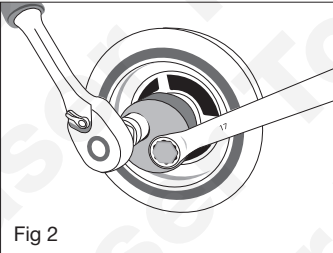
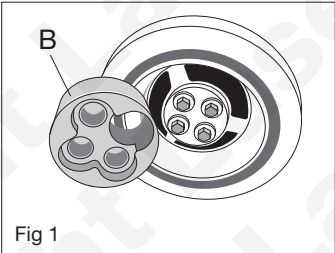


1. Always refer to manufacturer specific data and instructions.
2. Turn engine to TDC number one before disassembly of engine.

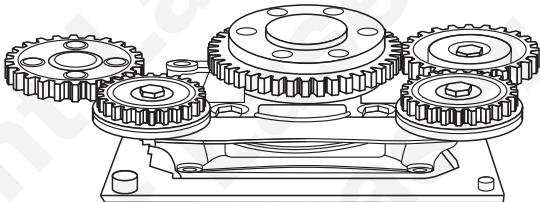
**Components A**  
Used to hold the camshafts in their timed positions as shown in **Fig:1**



**Components B**  
Used to hold the crankshaft pulley and allow the pulley bolts to be loosened one at a time without turning the crankshaft as shown in **Fig: 2a** and **2b**.



**Components C, D, E**  
Used to lock the balance shafts in their timed position as shown in **Fig:3**.  
Assemble C, D, E and F as shown.



## 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.

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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.

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6896\_Instructions\_V3



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