

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.

# LASER<sup>®</sup>

## Engine Timing Tool Set Mercedes-Benz

### Instructions



**Safety First. Be Protected.**

#### Guarantee

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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The Complete Connection

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## 6302 - Engine Timing Tool Set - Mercedes Benz 1.8 Petrol

Designed for Mercedes vehicles fitted with the chain driven 1.8 Petrol Engines (engine code pre fix 271.xxx).

These engines are found across the Mercedes Benz range including C Class, E Class, CLC, CLK and SLK as well as the Sprinter vans from as early as 2002 up to 2015. The kit includes the cam locking tool required when removing the camshaft pulleys.

The information given below is for reference only. The Tool Connection Ltd recommends the use of the Manufacturer's data or Autodata. The Tool Connection Ltd cannot be held responsible for damage to engine or personnel whilst using this tool kit.

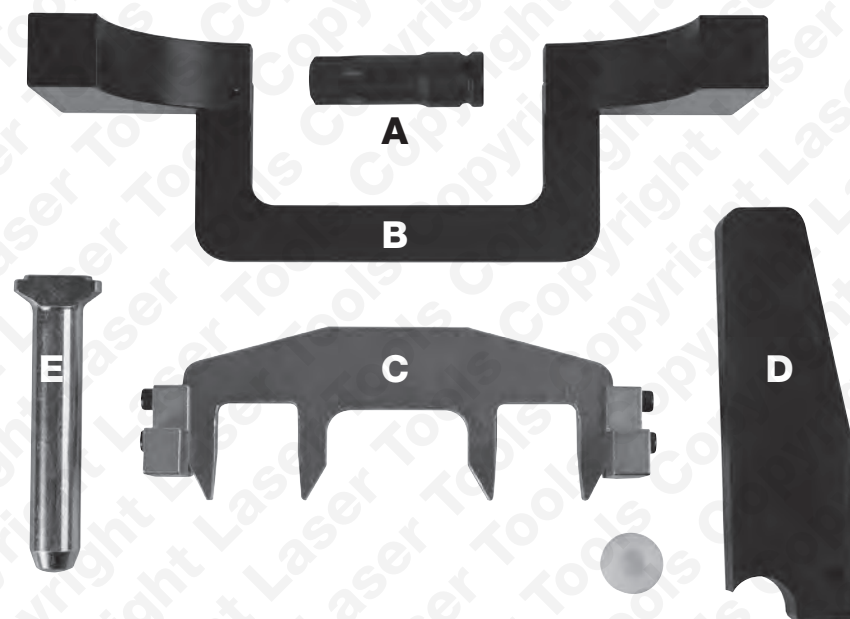
### Applications

Mercedes-Benz	C-Class	2002-15	1.8 Petrol	271.921
	C-Class Coupe	2011-15		271.946
	CLC-Class	2008-12		271.942
	CLK	2002-09		271.940
	E-Class	2002-13		271.948
	E-Class Coupe/Cabriolet	2004-13		271.820
	SLK	2004-15		271.952

Mercedes-Benz	Sprinter	2009-15	1.8 Petrol	271.860	271.958
				271.950	271.944
				271.955	271.954
				271.957	271.861
				271.941	271.951
				271.956	
				271.943	

### Components

I.D.	Component	OEM NumberR	Description
A			T100 Star bit
B	C713	271589014000	Cam Chain Retaining Bridge
C	C714	271589006100	Camshaft Locking Tool
D	C715	271589003100	Cam Chain Tensioner Rail Wedge
E	C716	271589001500	Cam Chain Tensioner Drift





## Instructions for use:

Always refer to manufacturer specific data and instructions.

Turn engine to TDC No1 cylinder before disassembly of engine, TDC No1 would have the cam lobes of number one cylinder pointing up. Check alignment of the crankshaft pulley marks. Check camshaft alignment, arrows and marking on the rear of the pulleys. See Figure 1

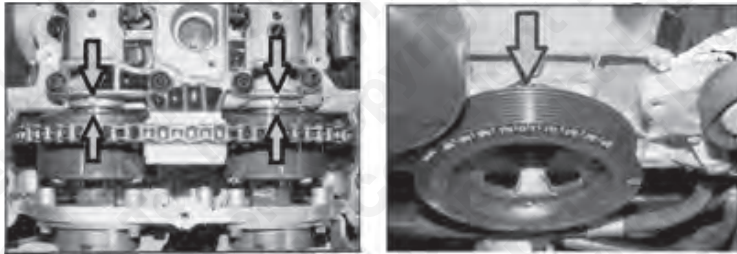


Figure 1.

## Component Description

### Component A

T100 Star bit for pulley fixings

### Component B

Used to hold the chain in place on the camshaft sprockets when removing and fitting the chain rivets. See Figure 2

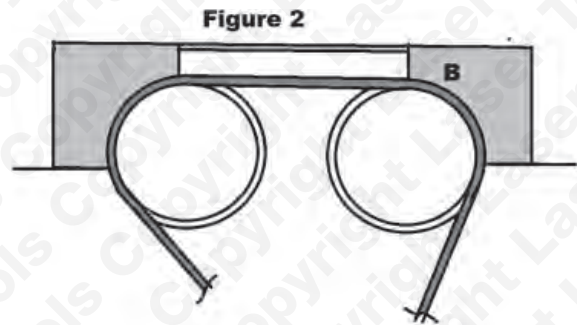


Figure 2

## Component Description

### Component C

Used to lock the cam shafts in their timed position when removing the cam pulleys. See Figure 3



Figure 3

### Component D

Used to wedge the chain against the side of the head to release the chain tensioner.

### Component E

Used to push the tensioner rail into contact with the chain.