

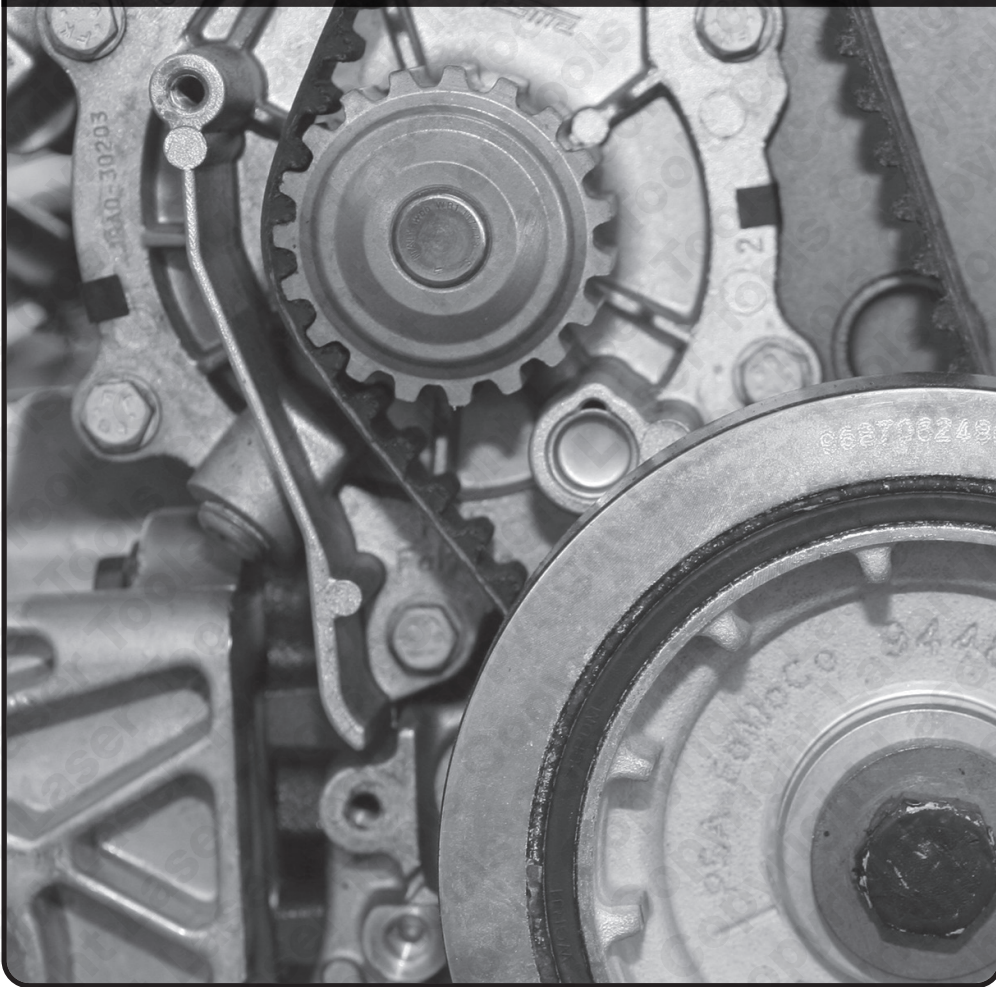
# LASER<sup>®</sup>

Part No. 5638

## Instructions

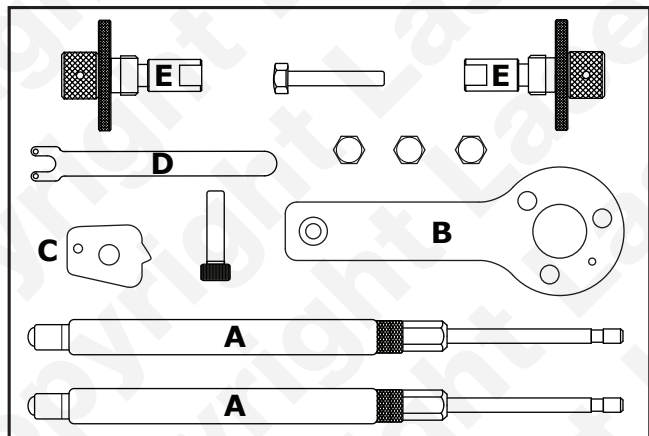
### Engine Timing Tool Kit

Fiat, Alfa Romeo, Lancia



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

## Components



Ref.	Comp. Code	OEM Ref.	Description
A	C254	1 860 992 000	Piston Height Gauge - Pair
B	C491	2 000 004 500	Crankshaft Locking Tool
C	C571	2 000 015 800	Camshaft Pulley Holding Tool
D	C256	1 860 987 000	Tension Tool
E	C255	1 860 985 000	Camshaft Setting Tools x2

**NOTE:** Additional pulley holding tools may be required for the 1.2L engines.

## Applications

- Always consult a suitable workshop manual before attempting to change the cambelt or chain.
- The use of these engine timing tools is purely down to the user's discretion and The Tool Connection cannot be held responsible for any damage caused whatsoever.

### ALWAYS USE A REPUTABLE WORKSHOP MANUAL

Manufacturer	Model	Year	Engine Codes	
Alfa Romeo	Giulietta	2010 - 2021	1.4 16V T-Jet Turbo 198A1.000 198A4.000 199A6.000 199A8.000	
	MiTo	2008 - 2019	940A6.000 940B1.000 940B7.000 940B8.000 955A1.000	
Chrysler	Delta	2011 - 2014	1.4 T-Jet 120 198A4.000	
Fiat	Brava/Bravo	1998 - 2002	1.2 16V 176B9.000 182B2.000 188A5.000	1.4 16V T-Jet Abarth 169A3.000 192B2.000 198A1.000 198A4.000 199A6.000 199A8.000 312A1.000 312A3.000 312A9.000 312B3.000 312B4.000 312B6.000 843A1.000 940B7.000
	Bravo	2007 - 2014		
	Grande Punto	2006 - 2010		
	Idea	2004 - 2012		
	Linea	2007 - 2011		
	Marea/Marea Weekend	1998 - 2000		
	Palio Weekend	2001 - 2006		
	Panda/Panda Classic	2006 - 2011		
	Punto	1997 - 1999		
	Punto/Punto Classic	1999 - 2008		
	Stilo	2001 - 2008		
	500/500C/Abarth	2007 - on		
	500L	2012 - on		
Lancia	Delta	2008 - 2015	1.4 16V T-Jet 192B2.000	
	Musa	2004 - 2013	198A1.000 198A4.000	
	Ypsilon	1996 - 2011	843A1.000	

Always refer to the website for most up to date applications:  
[www.lasertools.co.uk/product/5638](http://www.lasertools.co.uk/product/5638)

## Instructions

The following instructions are for guidance only. Preparation procedures will vary according to vehicle specification. 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.

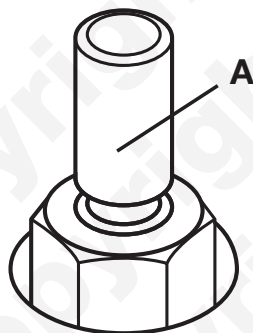


### A Piston Height Adaptor

Screw the piston height adaptors into the spark-plug ports of cylinders one and two (or three and four, according to the manufacturers' instructions)

Slowly turn the crankshaft until the notches (A) on the centre rod aligns on each adaptor stem Important- The dowel pin on the crankshaft must remain opposite the crankshaft position sensor. If necessary re-fit the crankshaft pulley.

The use of (A) is engine specific. Where the manufacturer specifies it's use Item B is not required.

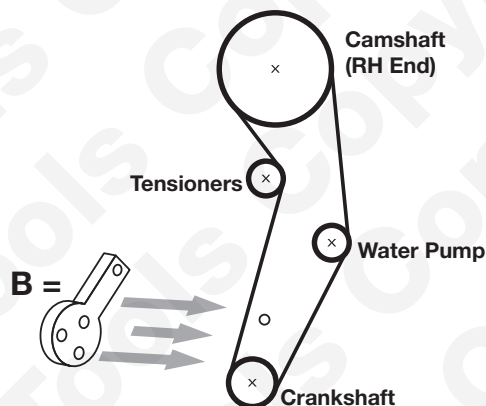


### B Crankshaft Locking Tool

Fit component (B) to the crankshaft and lock the crankshaft in position with the bolt provided. Loosen the tensioner fixing, back the tensioner off and remove the belt.

See above (If B is used Item A is not required).

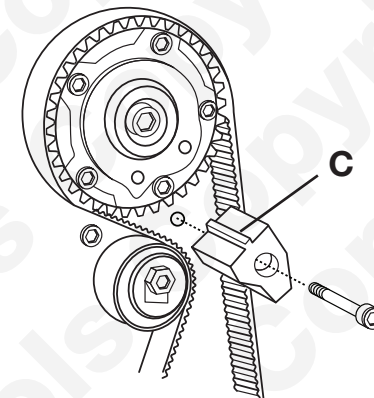
N.B. Manufacturers' vehicle specific instructions should be consulted when setting the belt tension.



## Instructions

### C Camshaft Pulley Holding Tool

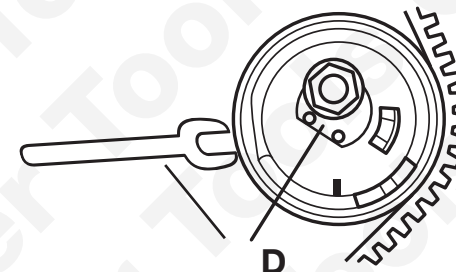
Component C is used as shown to lock the camshaft pulley to enable the pulley fixing to be loosened with out straining the belt or camshaft timing tools



### D Tensioner Tool

After fitting the new timing belt, the tensioner pulley must be turned to the maximum position by using the wrench (D).

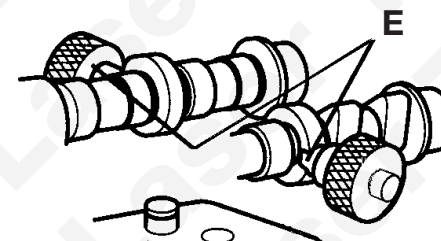
Tension details may vary according to engine specification therefore always refer to manufacturers' data



### E Camshaft Locking Tool

Remove the two blanking plugs from the camshaft casing and press the centre pin of the camshaft tool into the alignment slot of the camshaft (E).

Secure in place with the threaded hand wheel. It may be necessary to remove the tools and turn the crankshaft one revolution until the tools correctly engage.



## Safety Warnings - please read

Incorrect or out of phase engine timing can result in damage to the valves.  
The Tool Connection cannot be held responsible for any damage caused by using these tools in anyway.

### Safety Precautions – 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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