

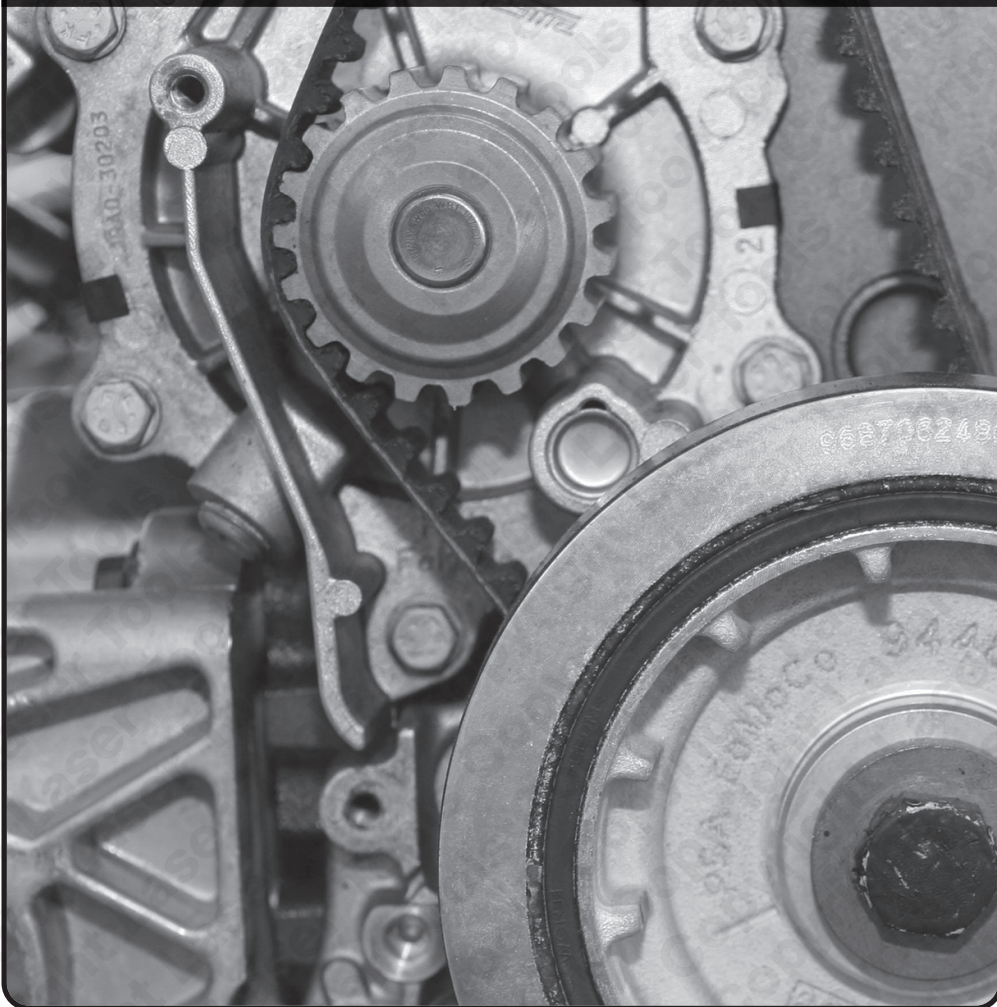
LASER[®]

Part No. 5934

Instructions

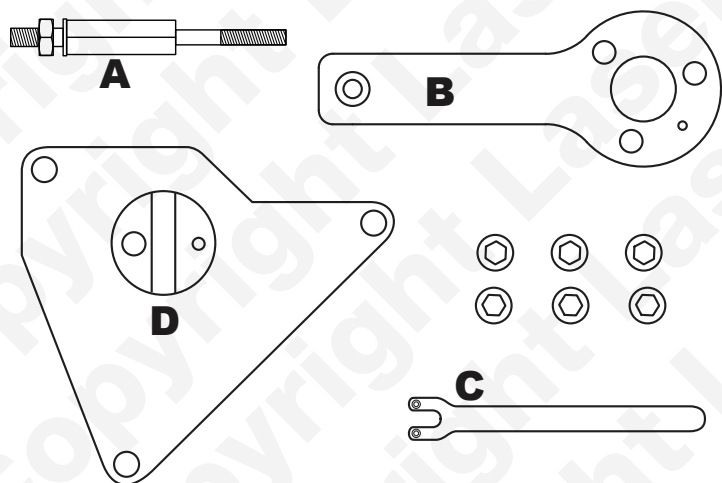
Engine Timing Tool Kit

Alfa Romeo, Fiat MultiAir



www.lasertools.co.uk

Components



Ref.	Comp. Code	OEM Ref.	Description
A	C013	2 190 754 200	Fixing Stud for Crankshaft Locking Tool
B	C491	2 000 004 500	Crankshaft Locking Tool
C	C256	1 860 987 000	Tensioner Tool
D	C590	2 000 034 400	Camshaft Locking Plate

Applications

Manufacturer	Model	Type	Year	Engine Codes
Alfa Romeo	Giulietta	Sprint, Super, Turbo MultiAir	2010 - 2021	1.4 940A2.000 940C2.000 955A2.000 955A6.000 955A7.000 955A8.000 955B1.000
	MiTo	MultiAir Turbo	2009 - 2018	
Chrysler	Delta	140 M-Air	2011 - 2014	1.4 198A7.000
Fiat	Bravo	Turbo MultiAir	2010 - 2015	1.4 55253268 55263623 55263624
	Punto Evo	Turbo MultiAir, MultiAir, Abarth	2010 - 2012	198A7.000 955A2.000 955A6.000 955A8.000
	Punto	Turbo MultiAir, MultiAir, Abarth	2012 - 2014	
	124 Spider	Turbo MultiAir, Abarth	2016 - 2019	
	500X	Turbo MultiAir II	2014 - 2021	
Jeep	Compass	MultiAir II Turbo	2017 - 2020	1.4 EAM (55263623) EAM (55263624)
	Renegade		2014 - 2019	
Lancia	Delta	Turbo MultiAir	2010 - 2015	1.4 198A7.000

Always refer to the website for most up to date applications:
www.lasertools.co.uk/product/5934

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.



Instructions

The application list for this product has been compiled cross referencing the OEM reference with the component code.

In most cases the tools are specific to this type of engine and are necessary for cambelt or chain maintenance.

If the engine has been identified as an interference engine valve to piston damage will occur if the engine is run with a broken cambelt.

A compression check of all cylinders should be performed before removing the cylinder head. Always consult a suitable workshop manual before attempting to change the cambelt or chain.

Autodata

Our applications data is supplied by Autodata and we are able to supply this data to you in a PDF format.

If this is a specific kit for a group of engine codes the application list has been supplied showing the main vehicles this kit is designed for and does not list every model each pin fits.

If this is a master kit then all vehicles are included.

The data is the copyright of The Tool Connection Ltd and should not be reproduced.

If the application data is extensive we have included a CD with the application list in PDF format.

Languages

We have also included where possible translations for the instructions in the following languages:

- French
- Spanish
- Italian
- Dutch
- German
- Portuguese

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 what so ever.

ALWAYS USE A REPUTABLE WORKSHOP MANUAL

For up to date information go to:
www.lasertools.co.uk/toolpoint

Instructions

Developed to lock the cam and crankshaft in position to allow the removal and replacement of the timing belt fitted to the new generation 1.4 Fiat MultiAir engines.

Preparation:

- Raise vehicle and remove right front wheel
- Remove the under shield
- Remove inner wheel arch
- Remove engine top cover
- Remove the vacuum pump from the gearbox of the end of the camshaft

Component Descriptions

Components A/B = Fixing post, Crankshaft locking plate, fixing bolts

A/B are used to lock the crankshaft in its timed position. In order to fit these components the crankshaft auxiliary drive belt pulley must first be removed.

Fit **A/B** as shown in **Fig. 1**.

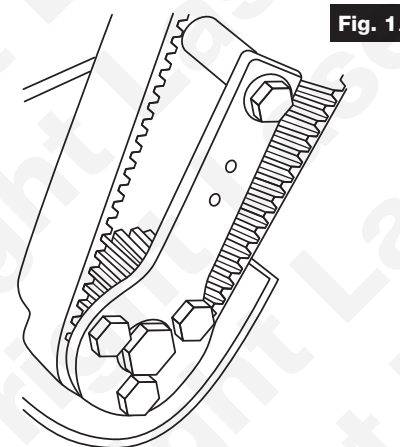


Fig. 1.

Component C = Tensioner adjusting tool

Use component C to turn the belt adjuster to tension the timing belt.

Ensure the camshaft pulley fixing bolt has been loosened to allow the pulley to turn freely but without tilting. Turn the tensioner in an anticlockwise direction to adjust the belt and then tighten the pulley. See **Fig. 2**.

In order to loosen and tighten the pulley bolt with out turning the camshaft or overloading the camshaft timing plate (**D**) it is advised an appropriate pulley holding tool be used.

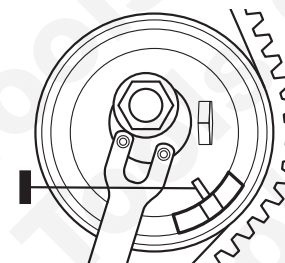


Fig. 2.

Components D = Camshaft Timing plate and Fixings

Component **D** is used to lock the camshaft in its timed position. It fits to the opposite end of the camshaft once the vacuum pump has been removed. See **Fig. 3**.

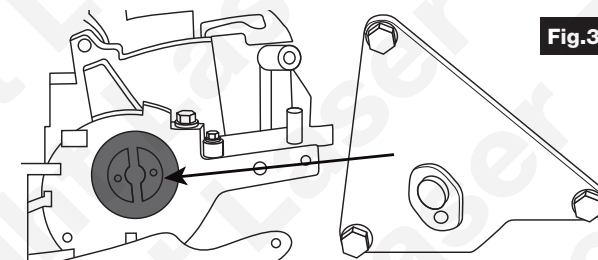


Fig. 3.

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.**

- Disconnect the battery earth leads (check radio code is available)
- Remove spark or glow plugs to make the engine turn easier
- Do not use cleaning fluids on belts, sprockets or rollers
- Always make a note of the route of the auxiliary drive belt before removal
- Turn the engine in the normal direction (clockwise unless stated otherwise)
- Do not turn the camshaft, crankshaft or diesel injection pump once the timing chain has been removed (unless specifically stated)
- Do not use the timing chain to lock the engine when slackening or tightening crankshaft pulley bolts
- Mark the direction of the chain before removing
- Crankshafts and camshafts may only be turned with the chain drive mechanism fully installed.
- Do not turn crankshaft via camshaft or other gears
- Check the diesel injection pump timing after replacing the chain
- Observe all tightening torques
- Always refer to the vehicle manufacturer's service manual or a suitable proprietary instruction book
- It is always recommended to turn the engine slowly, by hand, and to re-check the camshaft and crankshaft timing positions.

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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When you have finished with this product please recycle it

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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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