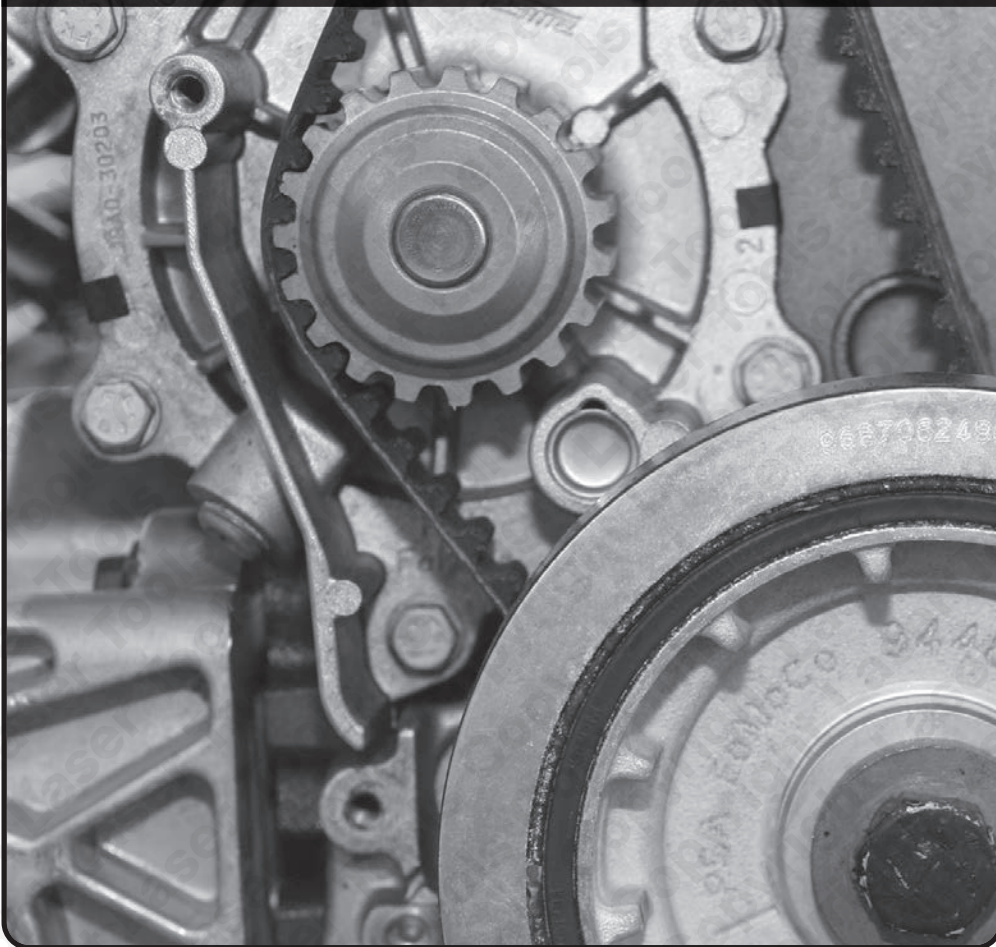


LASER[®]

Part No. 5739

Instructions

Engine Timing Tool Kit BMW N43



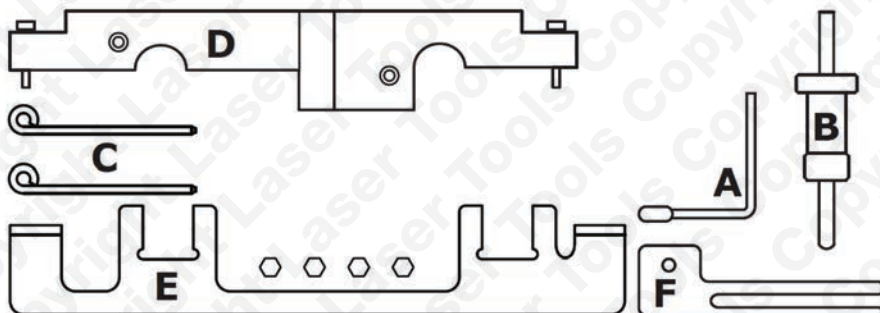
*Please refer to www.lasertools.co.uk/toolpoint
to check the most up to date product applications.*

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Introduction

Designed for the popular BMW 1.6L & 2.0L N43 chain driven petrol engines (2007 to 2014) the 5739 includes the locking tools required to set the timing of the camshaft, VANOS, crankshaft and balance shaft components in one comprehensive kit.

Components



Ref.	Code	OEM Ref	Description
A	C572	11 5 120	Flywheel Locking Tool
B	C328	11 9 340 (11 9 341/11 9 342)	Timing Chain Tensioner
C	C030	11 3 340	Chain Tensioner Locking Pins x 2
D	C563	11 8 710 (11 8 711/11 8 712)	VANOS Sensor Alignment Tool
E	C562	11 8 690 (11 8 691/11 8 692/11 8 693)	Camshaft Locking Tool
F	C564	11 8 700	Balance Shaft Locking Tool

Applications

Make, Model, SubModel, Range, Year					Engine Codes	
BMW	1 Series	116i, 118i, 120i	E81, 82, 87, 88	2007 - 2014	1,6 N43 B16A/AA	2,0 N43 B20A
	3 Series	318i, 320i	E90, 91, 92, 93	2007 - 2014	N43 B16AA	N43 B20A/AA
	5 Series	520i	E60, 61	2007 - 2014	N43 B16AA/O0	N43 B20AA
						N43 B20AY N43 B20K0 N43 B20U0

Always refer to the website for most up to date applications: www.lasertools.co.uk/product/5739

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.



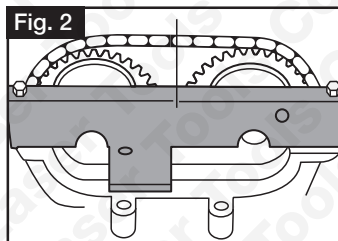
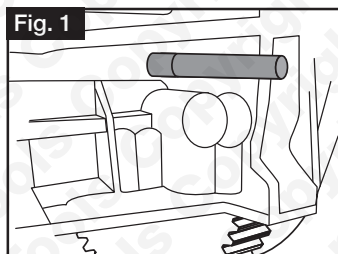
Preparation

Due to positioning of the chain drive and the balancer shaft it will be necessary to remove the sump for removal/refitting of the timing chain/sprocket. The engine should be set at TDC no.1

Component Descriptions

Components A - Flywheel Locking Tool

This locates into the back of the flywheel through the engine block as shown. Fig. 1



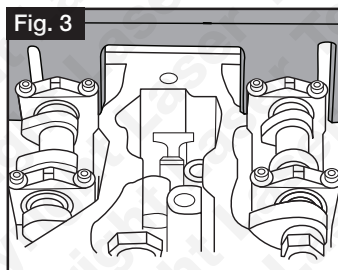
Component B - Timing Chain Tensioner Tool

Provided to release the tension on the camshaft chain tensioner which is required when:

- Removing or replacing the Cam chain.
- Setting valve timing.

Components C - Chain Tensioner Locking Pins x 2

These pins are used to lock the chain tensioner in its retracted position. To retract the tensioner use component (B)



Components D - VANOS Alignment Tool

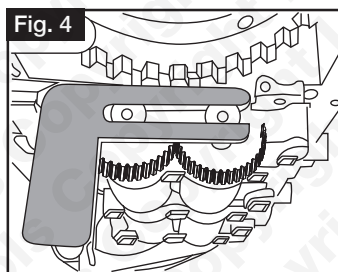
Component B is designed to align the VANOS sensor to ensure the VANOS system will function correctly. Fig. 2

Component E - Camshaft Locking Tool

Used to lock the camshafts in their timed position.

With the engine set at TDC No.1, this component should fit on the end of the Camshafts as shown in Fig.3.

Ensure the tool sits squarely on the head surface.



Components F - Balancer shaft Locking Tool

Used to lock the balance shaft in its timed position as shown.

NB the balance shafts are located in the sump. Fig. 4

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.



Safety First. Be Protected.

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.



When you have finished with this product please recycle it

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