

Part No. 6617

LASER[®]

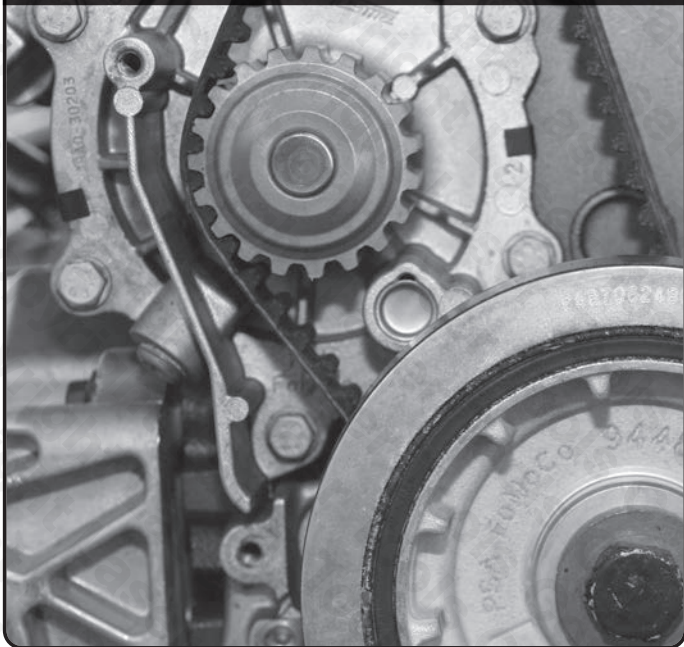
Instructions

Engine Timing Tool Kit

Vauxhall/Opel 1.6 CDTI



MADE IN
SHEFFIELD



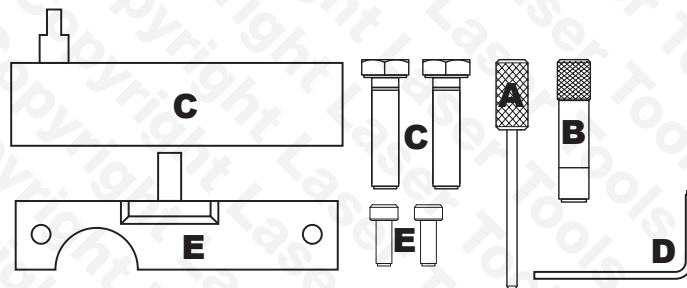
www.lasertools.co.uk

Introduction

In 2013 Vauxhall/Opel launched a new 1.6 ecoFLEX diesel engine across their range. The new engine design has also meant the need for a new engine timing kit.

This is a comprehensive kit to lock the 1.6 diesel engine into its timed position for the removal and replacement of the timing chain. Included in this kit is the added component of the camshaft sprocket support bracket that is required when removing the camshaft for essential work on the cam followers.

Components



Ref.	Comp. Code	Description	OEM Ref.
A	C275	Auxiliary Drive Belt Tensioner Locking Pin	EN-6349, EN-6130
B	C739	Camshaft Alignment Setting Pin	EN-51143
C	C740	Crankshaft Alignment Tool + Screws	EN-51140
D	C774	Tensioner Locking Pin	EN-50513
E	C741	Camshaft Sprocket Holding Tool + Screws	EN-51188

Applications

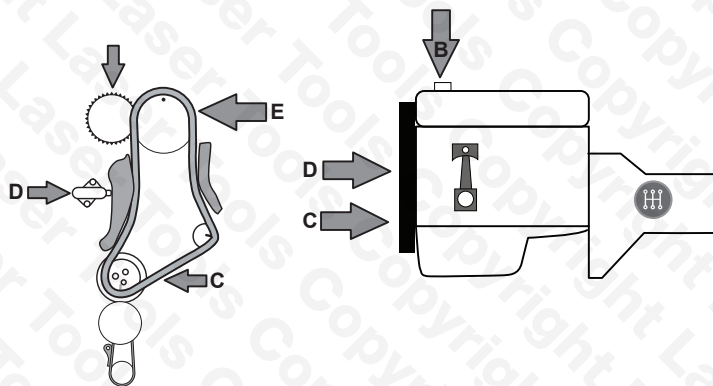
Manufacturer	Model	Year	Engine Codes
Vauxhall/Opel	Astra-J	2013 - 2015	1.6 CDTi ecoFLEX
	Astra-K	2015 on	B16DTC
	GTC	2015 - 2019	B16DTE
	Insignia-A	2015 - 2017	B16DTH
	Insignia-B	2017 on	B16DTJ
	Meriva-B	2013 - 2017	B16DTL
	Mokka	2014 - 2016	B16DTN
	Mokka X	2016 on	B16DTR
	Zafira-C Tourer	2013 - 2019	B16DTU
			D16DTH D16DTI D16DTJ D16DTN D16DTR D16DTU

Always refer to the website for most up to date applications:
www.lasertools.co.uk/product/6617

Instructions

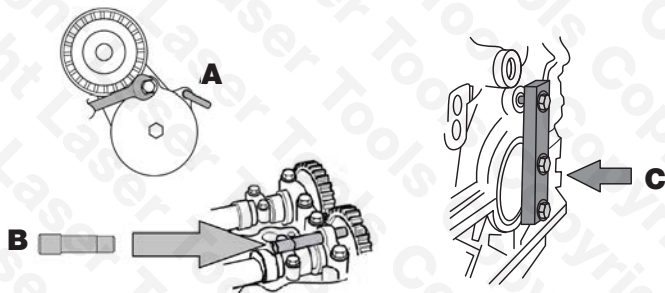
The following instructions are for guidance only. Please refer to OEM derived data such as the vehicle manufacturers' own data or Autodata.

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

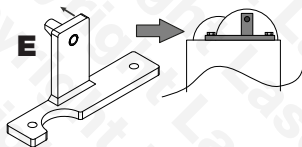
- Initial alignment – align the camshaft marks at the 12 o'clock position.
- Align the crankshaft and idler gear marks.
- Align the high pressure pump mark as shown.
- Fit the crankshaft alignment tool (**C**) and camshaft alignment pin (**B**).



Component **E** is used to support the camshaft drive sprocket and maintain the chain tension and position while the camshaft can be removed for service or replacement without disturbing the cam chain.

It is bolted to the cylinder head so that the peg supports the camshaft drive sprocket and chain.

Note: do not loosen or tighten against component **E**, use an appropriate sprocket holding tool to torque against when loosening or tightening the cam chain sprocket.



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.

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.



5 018341 066178 >

6617_Instructions_V8



When you have finished with this book please recycle it

www.lasertools.co.uk

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.



Distributed by The Tool Connection Ltd
Kineton Road, Southam, Warwickshire CV47 0DR
T +44 (0) 1926 815000 F +44 (0) 1926 815888
info@toolconnection.co.uk www.toolconnection.co.uk

www.lasertools.co.uk