

Applications

Make	Model	Year	Types
Chevrolet	Cruze	2009-2015	T
	Aveo	2011-2015	GTC VVT Turbo VVT Turbo
Opel/Vauxhall	Insignia	2008-2013	Turbo
	Corsa	2007-2014	SRi/Turbo OPC
	Astra	2003-2015	OPC Nurburgring OPC/VXR
	Zafira	2005-2015	Turbo OPC/VXR
	Mokka	2012-2015	VXR Nurburgring ecoFLEX
	Meriva-A	2006-2010	Turbo ecoFLEX CNG
Saab	Vectra-C	2006-2008	16V
		2010-2012	16V ecoFLEX CNG ecoFLEX Turbo

Engine Code

1.6	LXV/F16D4, LDE/F16D4, LLU/A16LET, A16LEL, A16LER, A16LES, A16XER, A16XNT LDE/A16XER, LGE/A16XNT, Z16LET, Z16LER, Z16LEL, Z16XEP, Z16XE1, Z16XER, Z16XNT
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Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by Sonic for incorrect use of any of our products, and Sonic 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.

SONIC

equipment

Instructions

Engine Timing Kit

Opel, Chevrolet, Fiat Petrol - 1.6, 1.8 16v

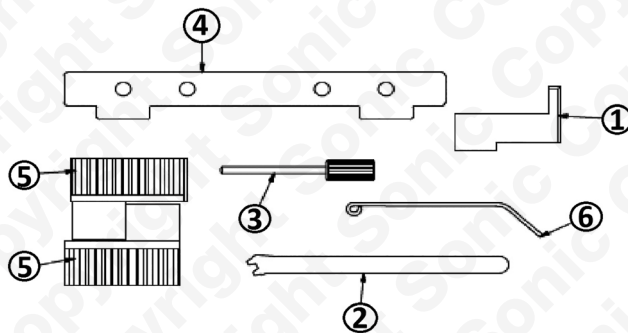


829017 - Engine Timing Kit

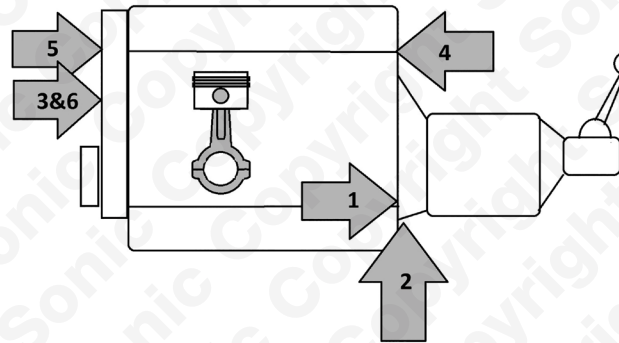
Description:
829017 has been developed to allow the user to change the Cam belt on the later Z and A coded GM Petrol belt driven engines. These engines are also found in Fiat and Alfa Romeo vehicles as listed below.

Components

Ref	Comp	OEM	Description
1	4880234	KM-6625	Flywheel Holding Tool
2	4880168	KM-911	Flywheel Locking Tool Lever
3	4880185	KM6130, KM6349	Auxiliary Drive Belt Tensioner Locking Pin (4 x 55)
4	4880239	KM-6628A, 2 000 012 000	Camshaft Locking Plate
5	4880057	KM-6340, 2 000 012 100	Cam Locking Tool (Split pair)
6	4880058	KM-6333	Cam-belt Tensioner Locking Pin



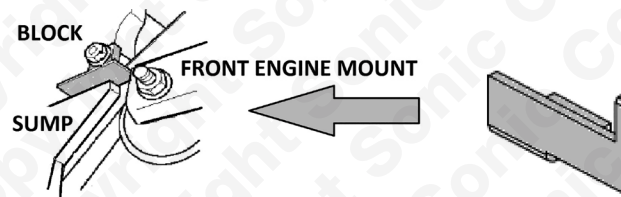
Instructions



- Align all timing marks as described by OEM instructions.

Component 1 - Flywheel Holding Tool

Component 1 is a flywheel holding tool designed to slide between the engine block and sump faces and interlock into the flywheel ring gear so holding the crankshaft whilst the technician loosens or tightens the front pulley mounting bolt.

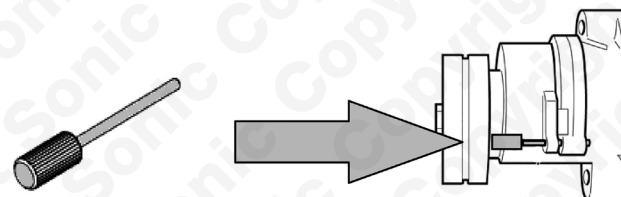


Component 2 - Flywheel Locking Tool Lever

Component 2 is used to lock flywheel from under the vehicle when component 1 cannot be used.

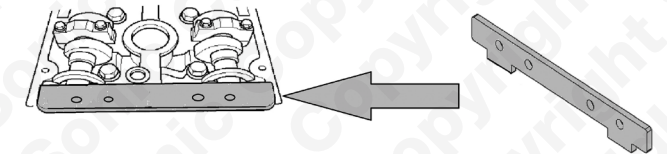
Component 3 - Auxiliary Drive Belt Tensioner Locking Pin (4 X 55)

Used to lock the Auxiliary drive belt tensioner in it retracted position.



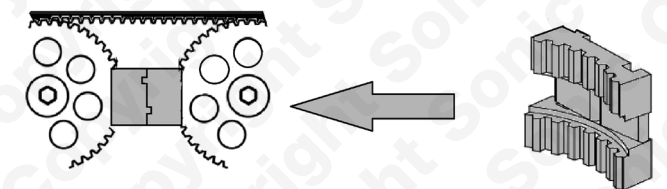
Component 4 - Camshaft Locking Plate

Component 4 is used to lock the camshafts independently of the cam pulleys on engines fitted with variable valve timing. It fits into slots in the cam shafts access after the cam box is removed.



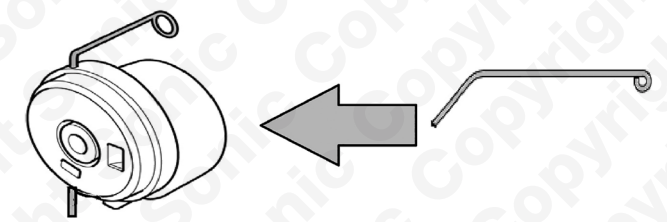
Component 5 - Cam Locking Tool (Split pair)

The 2 piece component 5 is used to set-up and lock the camshaft pulleys in place. Fit component 5 with the cam pulley timing marks aligned and the inlet camshaft adjuster timing mark positioned correctly.



Component 6 - Cam-belt Tensioner Locking Pin

Use component 6 to lock the cam-belt tensioner in it retracted position.



Instructions

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles manufactures own data or Autodata. The use of these engine timing tools is purely down to the user's discretion and Sonic cannot be held responsible for any damage caused what so ever.

