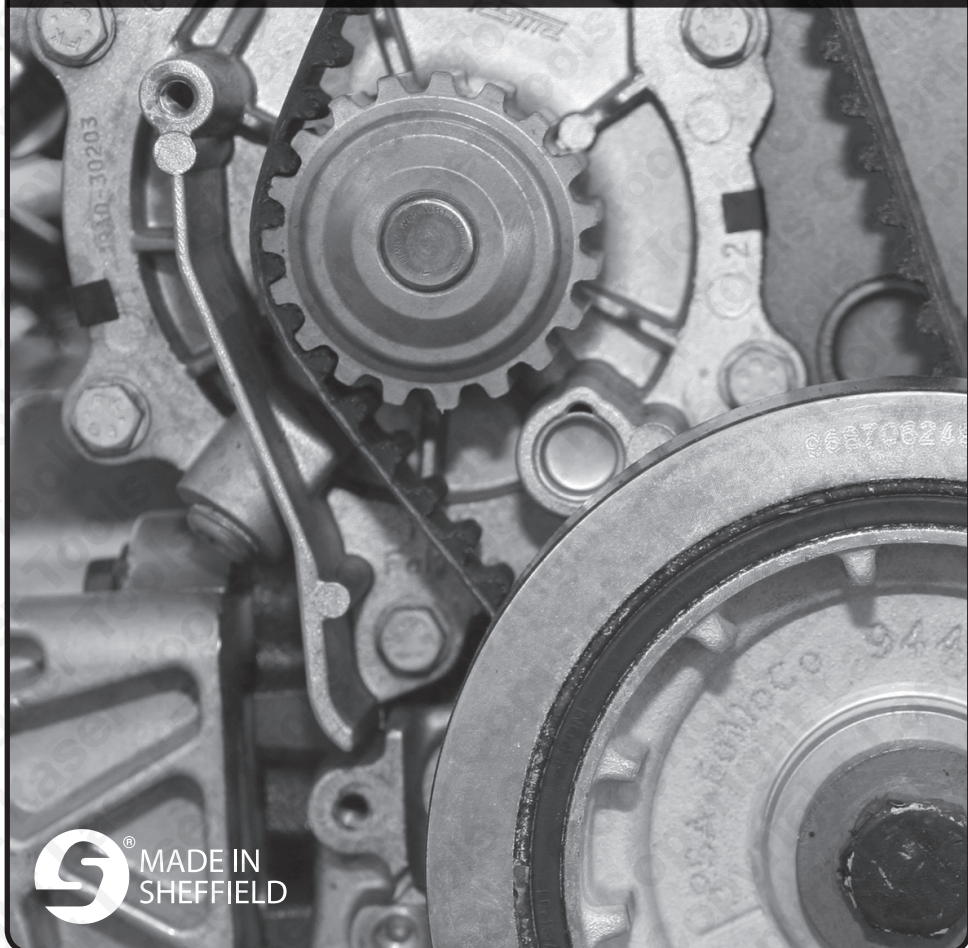


LASER[®]

Part No. 5742

Engine Timing Tool Kit for VAG TFSI, FSI



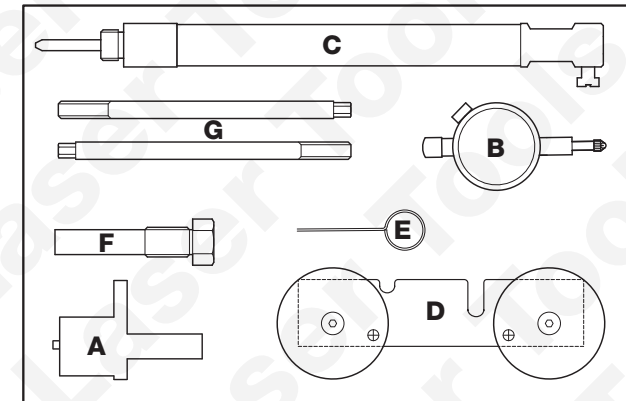
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Introduction

Designed to offer an engine timing kit for the 1.2, 1.4 & 1.6 petrol engines found across the Volkswagen Audi Group range from 2003 to 2017. The 5742 kit includes the Dial Test Indicator and adaptor required to accurately find TDC on the engines listed.

- Applications: 1.2 FSI/TFSI, 1.4, 1.6 FSI, 1.4 TSI.

Plan Layout



Ref.	Comp. Code	OEM Ref.	Description
A	C574	T10414	Camshaft Locking Tool
B	C127	VAS 6079	Dial Test Indicator 41 x 8mm
C	C226	T10170	TDC Indicator
D	C345	T10171/T10171A	Camshaft Alignment Tool
E	C284	T40011	Camshaft Tensioner Pin
F	C439	T10340	Crankshaft Locking Pin
G	C440	T10341	Guide Pins (2)

Applications

Manufacturer	Model	Year	Engine Codes		
Audi	A1/A1 Sportback	2010 - 2015	1.2 TSI/FSI	CAXA	1.6 FSI
	A3 Cabrio	2010 - 2013	CBZA	CAXC	BAG
	A3/A3 Sportback	2003 - 2013	CBZB	CMSA	BLF
	S1/S1 Sportback	2012 - 2014	1.4 TFSI	CNVA	BLP
			CAVG	CTHG	
Seat	Alhambra	2010 - 2015	1.2 TSI/FSI	CAVF	CTJB
	Altea/Altea XL	2008 - 2015	CBZA	CAXA	CTJC
	Cordoba	2006 - 2008	CBZB	CAXC	1.6 16V
	Ibiza	2006 - 2015	1.4 TSI	CTHA	BTS
	Leon	2007 - 2013	CAVA	CTHE	
	Toledo	2007 - 2015	CAVE	CTHF	
Skoda	Fabia II	2007 - 2015	1.2 TSI/FSI	CAXC	
	Octavia II	2004 - 2013	CBZA	1.6 16V	
	Praktik	2010 - 2015	CBZB	BTS	
	Rapid/Rapid Spaceback	2012 - 2015	1.4TSI/VRS	BLF	
	Roomster	2006 - 2015	CAVE		
	Superb II	2008 - 2015	CTHE		
	Yeti/Yeti Outdoor	2009 - 2015	CAXA		
Volkswagen	Beetle	2011 - 2017	1.2 TSI/FSI	CKMA	
	Caddy/Caddy Maxi	2010 - 2015	CBZA	CMSB	
	CC	2011 - 2015	CBZB	CTHA	
	Eos	2006 - 2015	CBZC	CTHB	
	Golf Plus	2005 - 2014	1.4 TSI/BlueMotion	CTHC	
	Golf V	2003 - 2008	AXU	CTHD	
	Golf V Estate	2007 - 2009	BKG	CTHE	
	Golf VI	2008 - 2013	BLG	CTKA	
	Golf VI Cabrio	2011 - 2016	BLN	1.6 FSI	
	Golf VI Estate	2009 - 2013	BMV	BAG	
	Jetta	2005 - 2017	BWK	BLF	
	Passat	2005 - 2015	CAVA	BLP	
	Passat CC	2011 - 2012	CAVB	BTS	
	Polo	2002 - 2014	CAVC	CLRA	
	Scirocco	2008 - 2016	CAVD		
	Sharan	2010 - 2015	CAVE		
	Tiguan	2007 - 2016	CAXA		
	Touran	2003 - 2015	CDGA		

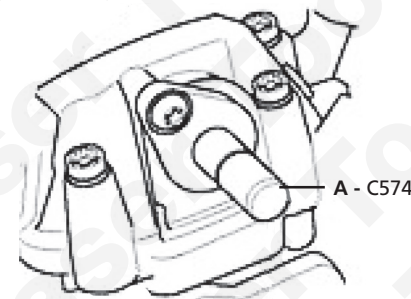
Always refer to the website for most up to date applications:
www.lasertools.co.uk/product/5742

Instructions

Follow all general precautionary preparation work, and then if removing the timing chain it is necessary to remove the timing chain cover and sump.

A Camshaft Locking Tool

Component **A** is the camshaft locking tool used on the 1.2 FSI engines (CBZA and CBZB).



To gain access to the grooved end of the camshaft remove the hose connecting block from the rear of the cylinder head (gearbox end).

Fit C574 as shown. Ensure fixing bolt can be fitted.

B Dial Test Indicator

Top Dead Centre (TDC) measurement must be checked, this set includes TDC Adaptor (used in conjunction with a Dial Test Indicator) which enables the accurate measurement of the piston position.

C TDC Indicator

The Indicator is fitted into the first cylinder spark plug hole. The extension makes contact with the piston face and as the engine is slowly rotated the DTI indicates the TDC, or the highest point required.

Many performance engines have an interference combustion area, which if the correct timing position is not achieved could result in serious damage to the valves and other parts of the engine.

D Camshaft Alignment Tool

If the Camshaft Timing Marks are not correctly aligned with the engine set at TDC, turn the Crankshaft 360° and check the Camshaft timing mark again. Fit the Camshaft Alignment Tool.

If the Camshaft Alignment tool can still not be fitted the valve timing is incorrect.

E Camshaft Tensioner Pin

Fit the tensioner locking pin to hold the chain tensioner back, allowing the removal of the camshaft sprockets and chain.

Set the camshaft positions and align using the Camshaft Alignment Tool.

F Crankshaft Locking Pin

Use the Crankshaft Locking tool when loosening and tightening the crank.

G Guide Pins (2)

The two guide pins hold the supercharger in the correct position during installation.

Re-install the sprockets and chain and correctly tighten the sprockets.

It is advised to use new crankshaft pulley and camshaft sprocket bolts.

Remove the Camshaft Alignment Tool and turn the Crankshaft twice in a clockwise direction.

Check the valve timing again.

Warning

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

- 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/belt 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.



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Guarantee



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