



27009



Whilst every effort has been made to ensure the accuracy of information contained in this guide, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

1. TITLE PAGE

1.1 INTRODUCTION:

USER GUIDE FOR: Engine Timing Kit

Stock No: 27009

Part No: ETK250

1.2 REVISIONS:

Date first published June 2018.

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: <http://drapertools.com>

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1.3 UNDERSTANDING THIS GUIDES SAFETY CONTENT:

WARNING! – Information that draws attention to the risk of injury or death.

CAUTION! – Information that draws attention to the risk of damage to the product or surroundings.

1.4 COPYRIGHT © NOTICE:

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3. GUARANTEE

3.1 GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact:

Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.

Telephone Sales Desk: (023) 8049 4333 or:

Product Helpline (023) 8049 4344.

A proof of purchase must be provided.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the guarantee period is 90 days from the date of purchase. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

4. GENERAL PRODUCT INFORMATION

This product is designed to be used correctly and with care for the purpose for which it is intended. No liability is accepted by Draper Tools Limited for incorrect use or application of any of our products, and Draper Tools Limited cannot be held responsible for any damage to personnel, property or equipment when using this product. Incorrect use will also invalidate any warranty.

The applications database and any instructional information provided has been designed to offer general guidance for a particular product'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 product and information prior to use.

5. HEALTH AND SAFETY INFORMATION

GENERAL SAFETY INSTRUCTIONS

Warning: Please read all safety warnings and all details carefully. Failure to follow the warnings may result in serious injury or major component damage.

Important: Draper Tools recommends that this product should not be modified or used for any application other than that for which it was designed.

Save all warnings and instructions for future reference.

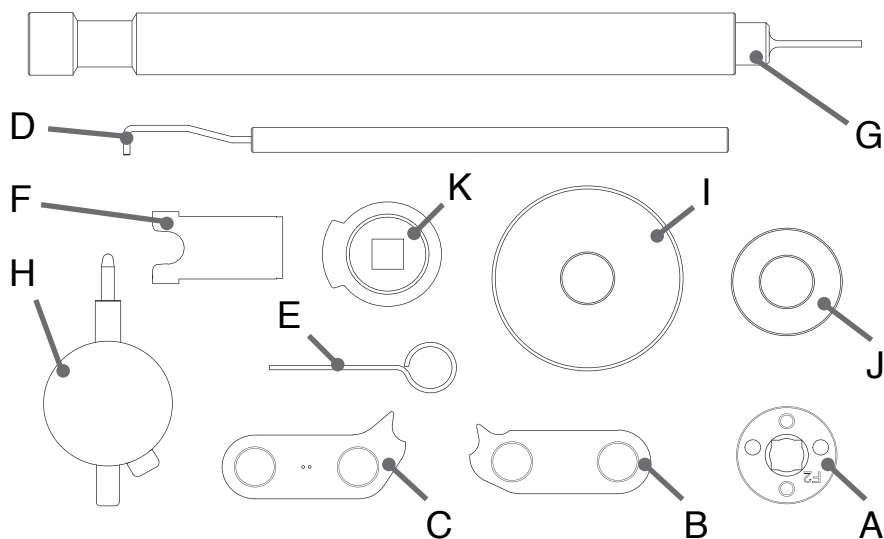
1) Personal safety

- a) Stay alert, watch what you are doing and use common sense when using this product. Do not use this product while you are tired or under the influence of drugs, alcohol or any medication. A moment of inattention while using this product may result in serious personal injury.
- b) Use personal protective equipment as necessary.
- c) Check and remove any part of the product before turning/testing the engine. A part left attached to a rotating part of the engine may result in personal injury or major component damage.
- d) Carefully clean the tool components after every use.
- f) Keep the tool components safe and tidy.
- g) Do not use this product for any purpose other than for which it is designed.

Warning! Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.

If any of the packaging is to be thrown away, make sure it is disposed of correctly; according to local regulations.

6. CONTENTS



ITEM	DESCRIPTION	OEM	STOCK No.
A	Camshaft Control Valve Tool	T10352	35668
B	Camshaft Clamp (LH Cam)	T40271-1	35669
C	Camshaft Clamp (RH Cam)	T40271-2	35670
D	Tension Pulley Locking Pin	T40265	35671
E	Tensioner Locking Pin	T40011	35672
F	Tensioner Locking Clamp	T40267	35673
G	DTI, TDC Extension	T10170	35674
H	DTI Gauge	VAS6079	35675
I	Crankshaft Oil Seal Thrust Plate	T10354	35676
J	Sleeve	T10368	35677
K	Camshaft Adaptor	T40266	35678

7. APPLICATION

The **27009** has been developed as an **engine timing kit** for the vehicles listed below. A comprehensive camshaft locking kit.

Used on the following Vehicles:

Audi A3 Cabrio 2007 - 2017

Audi A4 2007 - 2016

Audi A5 2008 - 2017

Audi A6 2012 - 2015

Audi A8 2012 - 2015

Audi Q3 2011 - 2015

Audi Q5 2008 - 2017

Audi TT 2008 - 2014

Seat Alhambra 2015 - 2017

Seat Altea/Altea XL 2006 - 2015

Seat Exeo 2010 - 2013

Seat Leon 2007 - 2013

Seat Toledo 2007 - 2009

Skoda Octavia II/III 2007 - 2017

Skoda Superb II/III 2009 - 2017

Skoda Yeti/Outdoor 2009 - 2015

Volkswagen Amarok 2010 - 2016

Volkswagen Beetle 2013 - 2017

Volkswagen CC 2012 - 2015

Volkswagen Eos 2008 - 2015

Volkswagen Golf V 2007 - 2015

Volkswagen Jetta 2008 - 2017

Volkswagen Passat 2007 - 2015

Volkswagen Scirocco 2008 - 2014

Volkswagen Sharan 2011 - 2015

Volkswagen Tiguan 2007 - 2016

Volkswagen Transporter T5 2011 - 2015

Volkswagen Transporter T6 2015 - 2017

Engine Codes:

1.8cc

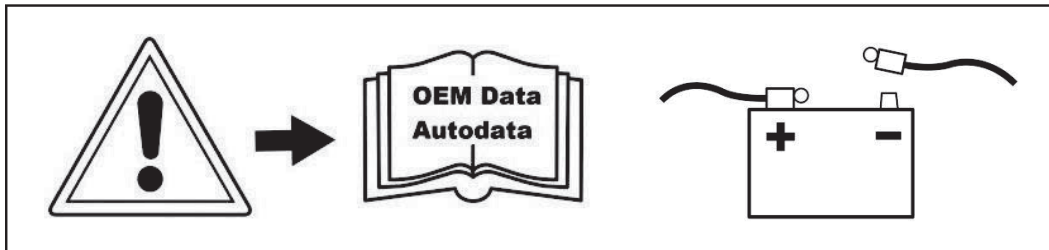
BZB, BPU, BYT, CABA, CABB, CABD, CDAA, CDAB, CDHA, CDHB, CGYA, CJEB, CJED, CJEE, CJSA, CJSB, CJSC

2.0cc

CAWA, CAWB, CBFA, CCTA, CCZA, CCZB, CCZC, CCZD, CDNB, CDNC, CDND, CESA, CETA, CFKA, CFPA, CHHA, CHHB, CHJA, CJKB, CJXA, CNCB, CNCD, CNCE, CPLA, CPPA, CPSA, CULC, DEDA

8. PREPARATION

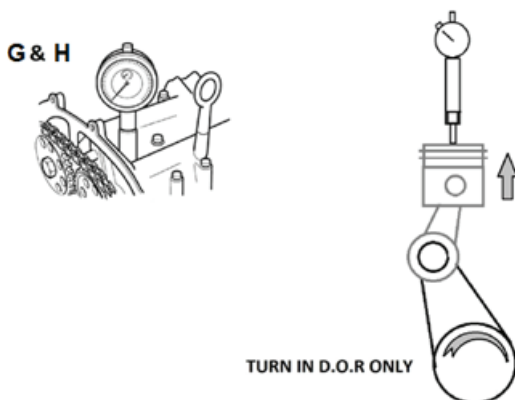
The following is for guidance only. Please refer to OEM derived data such as the vehicle manufacturer's own data or Autodata. The use of this product is purely down to the user's discretion and Draper Tools Limited cannot be held responsible for any damage caused what so ever.



9. PROCEDURE AND APPLICATION GUIDE

Depending on manufacture and model, some engine components do change. Please check with Autodata or the manufacturer's data before use.

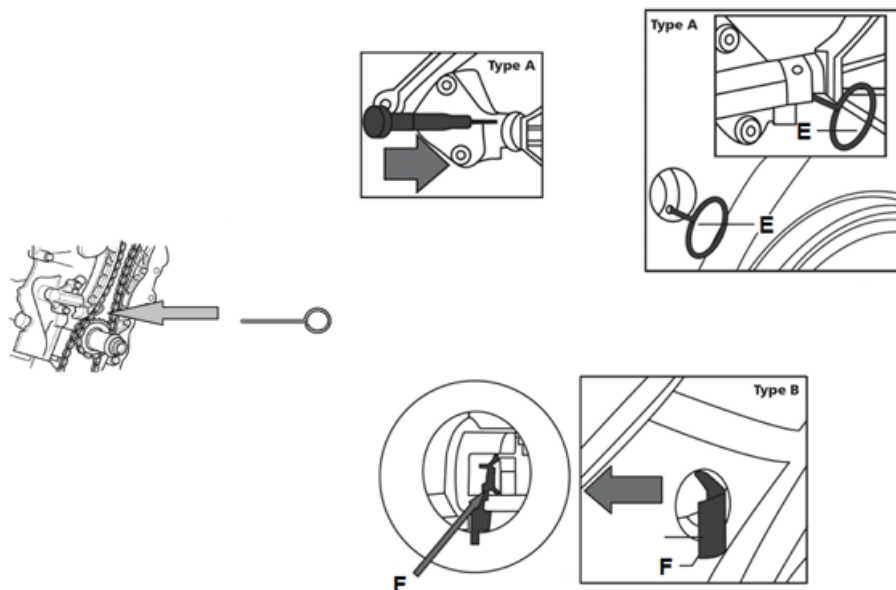
Align the crankshaft at TDC on cylinder number 1 using components G and H.



Tensioner Locking Pins/clip D, E and F

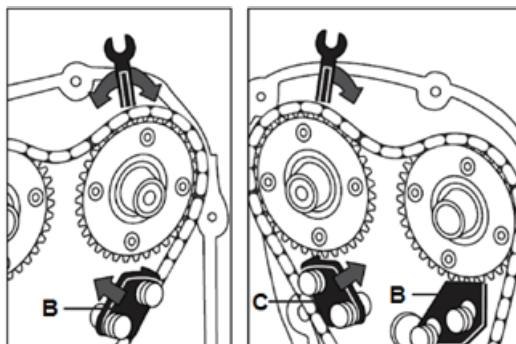
Component D is used to lock the oil pump chain tensioner in its retracted position when removing the oil pump.

Components E and F are used to lock the camshaft drive chain tensioner as shown. Use either D or E depending on tensioner type (A or B)

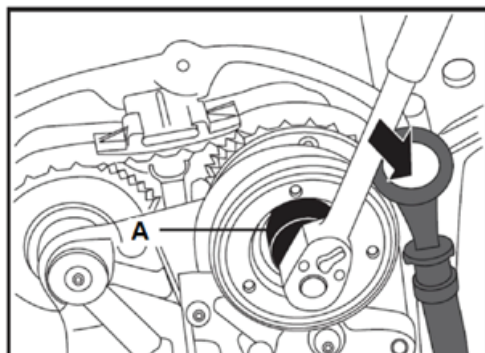


9. PROCEDURE AND APPLICATION GUIDE

Use Components B and C to lock the Camshaft pulleys in their timed positions as shown.

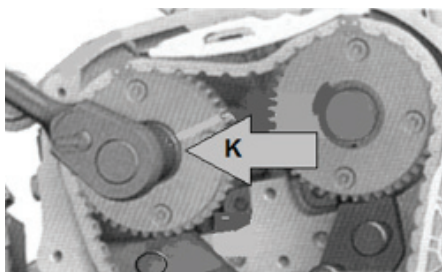
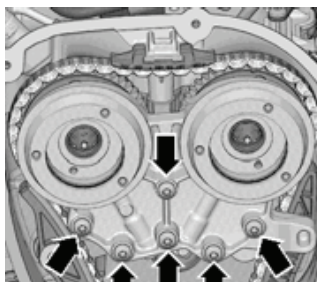


Use component A to remove or refit the camshaft control valve after the removal of the electrical connections. Unscrew the Control Valve in a clockwise direction as shown.



Component K

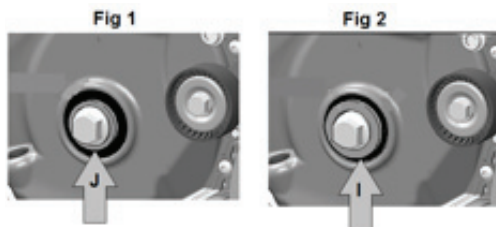
Once the bearing carrier has been removed from the front of the camshaft as shown. This tool can be inserted into the camshaft sprockets allowing you to turn the camshaft



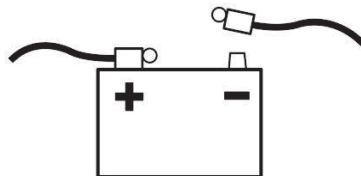
9. PROCEDURE AND APPLICATION GUIDE

Component I & J

Remove crankshaft pulley securing bolt and pulley. Install sleeve J in place of crankshaft pulley and secure with crankshaft pulley bolt Fig 1. Remove crankshaft pulley oil seal with suitable tool, once removed, remove bolt and sleeve. Lightly lubricate new oil seal and slide onto the rear of oil seal thrust plate I, place in position over the old oil seal aperture and screw in the crankshaft pulley bolt, to press in the new oil seal Fig 2.



Please note images are for guidance only and subject to change.



10. EXPLANATION OF SYMBOLS

10.1 EXPLANATION OF SYMBOLS



Read the guide.



Refer to website.

CONTACTS

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Sales Desk: (023) 8049 4333

Internet: drapertools.com

E-mail: sales@drapertools.com

General Enquiries: (023) 8026 6355

Service/Warranty Repair Agent:

For aftersales servicing or warranty repairs, please contact the
Draper Tools Helpline for details of an agent in your local area.

YOUR DRAPER STOCKIST

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