

1. TITLE PAGE

1.1 INTRODUCTION:

USER GUIDE FOR: Engine Timing Kit

Stock No: 16568

Part No: ETK152

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.

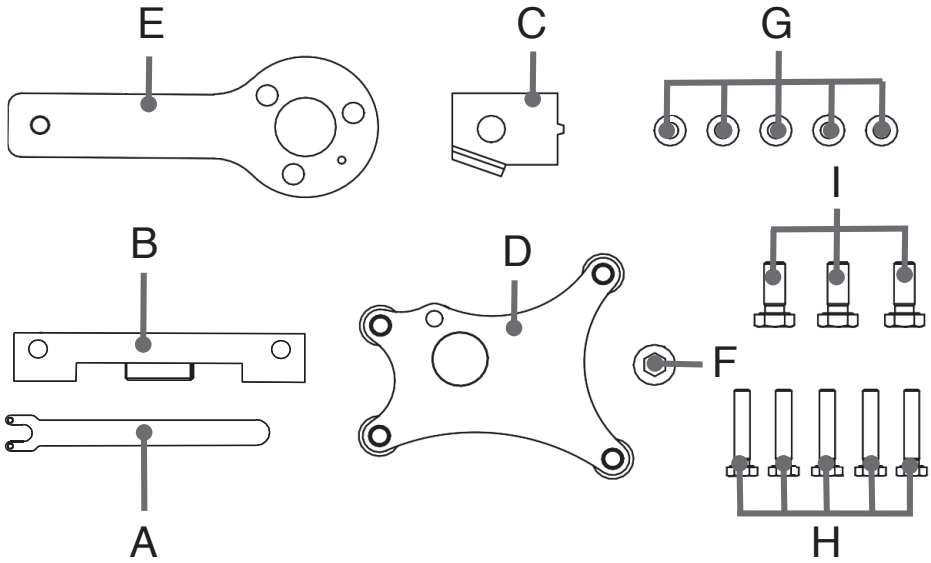
1) Personal safety

- 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	Tension Wrench	1 860 987 000	24209
B	Camshaft Alignment Plate	2 000 004 400	24238
C	Camshaft Sprocket Locking Tool	2 000 004 200	24312
D	Camshaft Cover Alignment Tool	2 000 004 300	24516
E	Crankshaft Alignment Tool	2 000 004 500	24733
F	Cap Screw M10 x 20	N/A	25171
G	5x M6 Washers	N/A	25380
H	5x M6 X 30 Screw	N/A	25425
I	3x M8 X 20 Screw	N/A	25535

7. APPLICATION

The **16568** has been developed as an **engine timing kit** for the vehicles listed below. Allows the user to lock the camshaft and crankshaft in the 'timed' position enabling the timing belt to be changed.

Used on the following Vehicles:

Alfa Romeo Mito 2010 - 2018

Chrysler Ypsilon 2011 - 2015

Fiat 500 2007 - 2017

Fiat Doblo 2005 - 2010

Fiat Fiorino 2009 - 2017

Fiat Idea 2005 - 2012

Fiat Linea 2007 - 2012

Fiat Panda 2003 - 2013

Fiat Punto 2005 - 2014

Fiat Qubo 2009 - 2017

Ford Ka 2008 - 2016

Lancia Ypsilon 2006 - 2017

Engine Codes:

1.2cc

169A4.000, 188A4.000, 169A4.000 (FP4)/AAAA, 169A4.000 (FP4)/ABAA

1.3cc

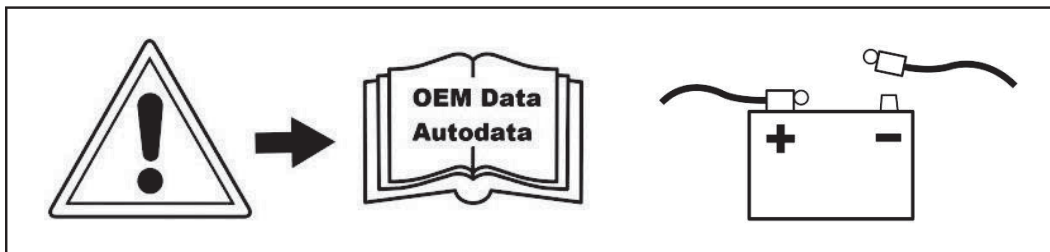
BBAB

1.4cc

350A1.000, 199A7.000

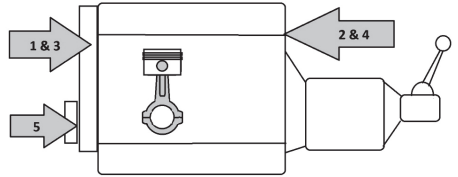
8. PREPARATION

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.



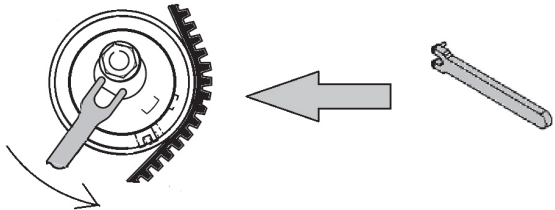
9. PROCEDURE AND APPLICATION GUIDE

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



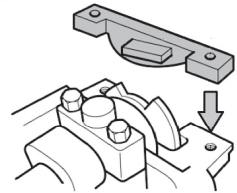
Component 1 = Tension Wrench

Used to adjust the camshaft drive belt tension by turning the tensioner.



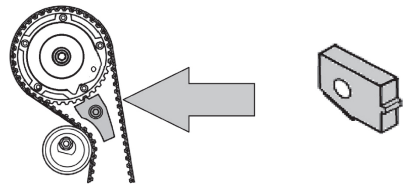
Component 2 = Camshaft Alignment Strap (SOHC)

Component 2 is used to lock the camshaft in its timed position. Fits from the gear box end of the camshaft with cam cover removed.



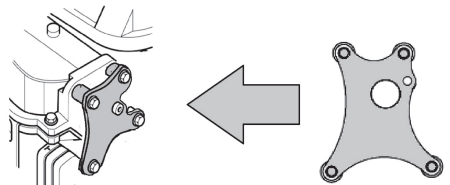
Component 3 = Camshaft Sprocket Locking Tool

Component 3 is used to lock and hold the camshaft pulley so the pulley fixing can be loosened or tightened (VVT engines only).



Component 4 = Camshaft Cover Alignment Tool

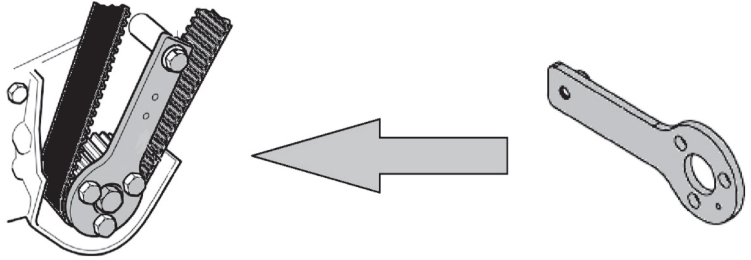
Component 4 is used to correctly align the cam cover when refitting after setting the timing.



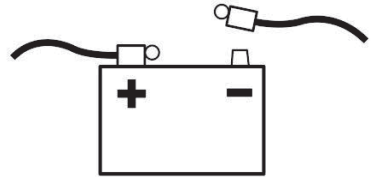
9. PROCEDURE AND APPLICATION GUIDE

Component 5 = Crankshaft Alignment Tool

Use component 5 to lock the crankshaft in its timed position once the crankshaft pulley has been removed.



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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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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