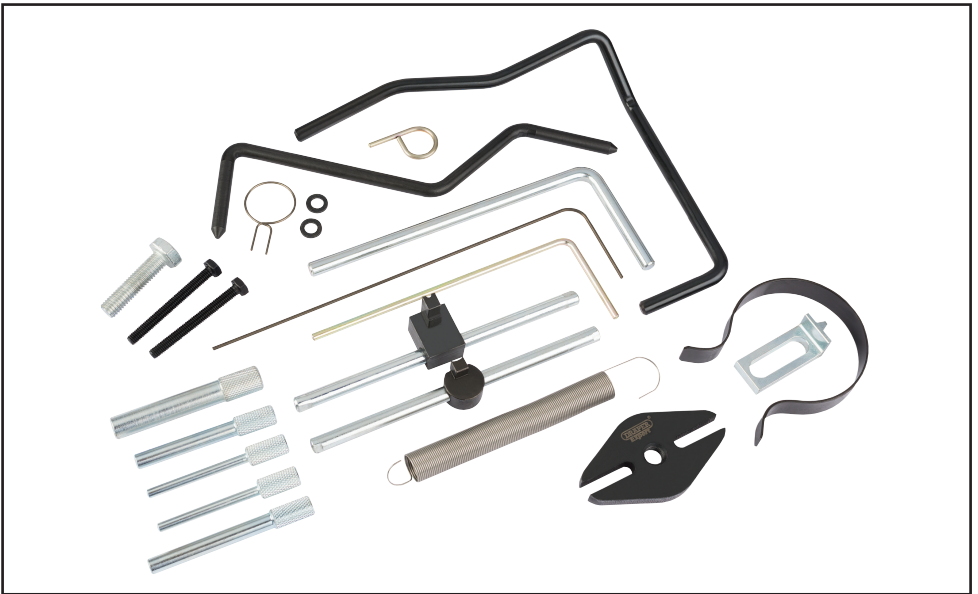




# APPLICATION GUIDE FOR: ENGINE TIMING AND **REBUILD SET**

18191



This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all information before operating product.

This guide has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains necessary information to ensure its correct and safe use. By following the information contained in this guide, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this guide are supplied by Draper Tools to help illustrate the operation of the product.

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

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## 1.1 INTRODUCTION:

**USER GUIDE FOR: Engine Timing and Rebuild Set**

**Stock No: 18191**

**Part No: ETK203**

## 1.2 REVISIONS:

**Date first published June 2018.**

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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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**Product Helpline:** +44 (0) 23 8049 4344

**General Fax:** +44 (0) 23 8026 0784

## 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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In all cases this copyright notice must remain intact.

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## 3. GUARANTEE

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### 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

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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

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### 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.**

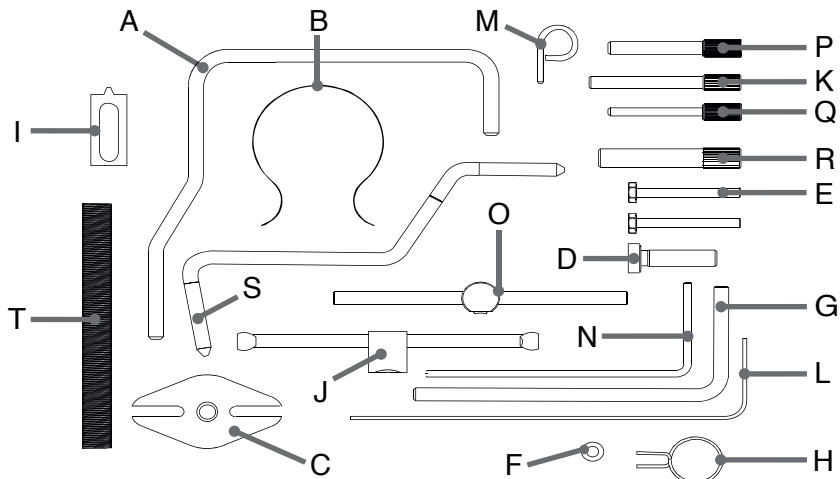
#### 1) Personal safety

- 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	Crankshaft Pin	0188-Y	33099
B	Timing Belt Retaining Clip	0188-K	33159
C	Puller Beam	0188-P	33185
D	M10 x 40 High-Tensile Set Screw	N/A	33190
E	Hex-Head Bolt	N/A	33194
F	Washer	N/A	33205
G	Timing Pin	0188-X	33207
H	Centraliser Spring	0188-AH	33214
I	Flywheel Lock	0188-F	33364
J	Tension Adjusting Tool	0188-J2	33626
K	Locking Pin	0188-M	33631
L	2mm Formed Locking Pin	0188-Q2	33636
M	3mm Formed Locking Pin	0153-AL	33637
N	Setting Pin	0188-Q1	33640
O	Tension Adjusting Tool	0178-E	33650
P	Locking Pin	N/A	33656
Q	Setting Pin	N/A	33662
R	Flywheel Locking Pin	0194-C	33666
S	Multi-Bend Flywheel Timing Pin	0.532Y	33686
T	Retention Spring	N/A	33833

## 7. APPLICATION

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The **18191** has been developed as an **engine timing and rebuild set** for the vehicles listed below. Comprehensive kit for setting the timing position on popular petrol engines fitted throughout the PSA range.

### **Used on the following Vehicles:**

Citroen Dispatch 1999 - 2007  
Citroen C3 2002 - 2010  
Citroen C4 2006 - 2012  
Citroen C5 2000 - 2008  
Citroen Xsara 1999 - 2000  
Peugeot 107 2005 - 2010  
Peugeot 1007 2005 - 2010  
Peugeot 206 1999- 2011  
Peugeot 207 2006 - 2010  
Peugeot 306 1999 - 2002  
Peugeot 307 2001 - 2009  
Peugeot 308 2007 - 2011  
Peugeot 3008 2009 - 2011  
Peugeot 406 1999 - 2006  
Peugeot 407 2004 - 2011  
Peugeot 508 2011 - 2015  
Peugeot 5008 2009 - 2010  
Peugeot 607 2000 - 2011  
Peugeot 807 2002 - 2010  
Peugeot Boxer 2001 - 2006  
Peugeot Expert III 2004 - 2012  
Peugeot Partner 1999 - 2012

### **Engine Codes:**

1.4cc

DV4TD (8HX), DV4TD (8HZ), DV4TD (8HT), 8HW (DV4TD),  
8HV (DV4TED4), 8HY (DV4TED4)

1.6cc

DV6TED4 (9HZ), DV6TED4 (9HZ), DV6TED4 (9HY), DV6ATED4 (9HX),  
DV6BTED4 (9HW), DV6TED4 (9HW)

2.0cc

DW10TD (RHY), DW10UTD (RHV), DW10UTED4 (RHK),  
RHZ (DW10ATED/L3), DW10ATED (RHS), RHS (DW10ATED),  
DW10ATED4 (RHM), DW10ATED4 (RHW), DW10ATED4/L4 (RHT),  
DW10BTED4 (RHR), RHX (DW10BTED/L3), RHJ (DW10BTED4),  
RHL (DW10BTED4)

2.2cc

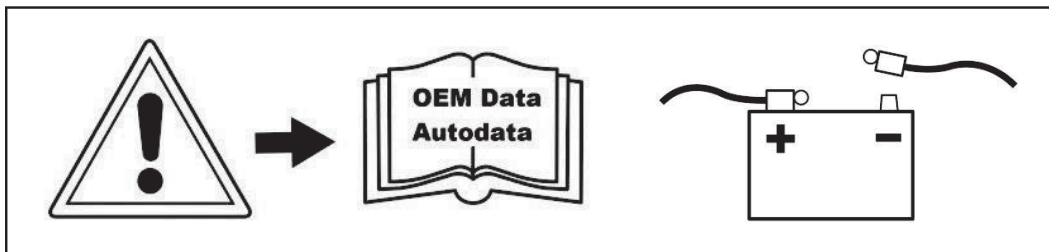
DW12ATED (4HX), DW12ATED (4HZ), DW12TED4/L4 (4HW),  
DW12UTED (4HY), DW12BTED4 (4HP), DW12BTED4 (4HT),  
DW12BTED4 (4HR), DW12BTED4 (4HS)



## 8. PREPARATION

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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.



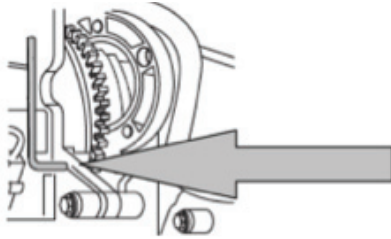
## 9. PROCEDURE AND APPLICATION GUIDE

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

### Components 1, 7, 18 & 19 Flywheel Locking Timing Pins

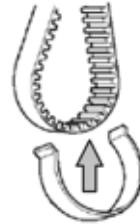
Used to set the crankshaft in its timed position by locking the Flywheel as shown.

NOTE: do not torque against component 1, 7, 18 or 19, use component 9.



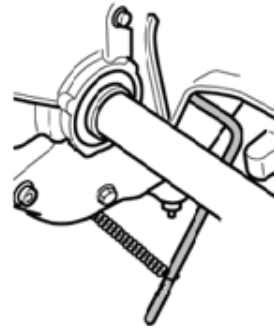
### Component 2 Timing Belt Retaining Clip.

Component 2 is used to hold the new belt in place on the crankshaft while fitting the belt around the camshaft pulleys.



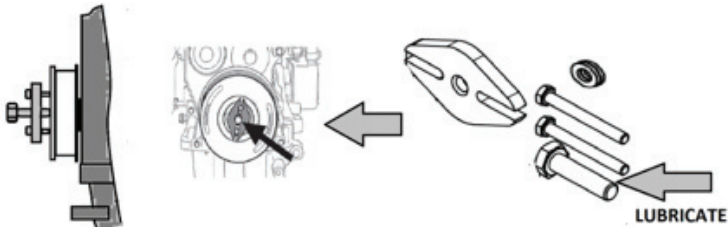
### Component 20 Retention Spring

Component 20 applies tension to component 7 once fitted located into flywheel



### Component 3 & 4 & 5 Crankshaft Pulley Puller

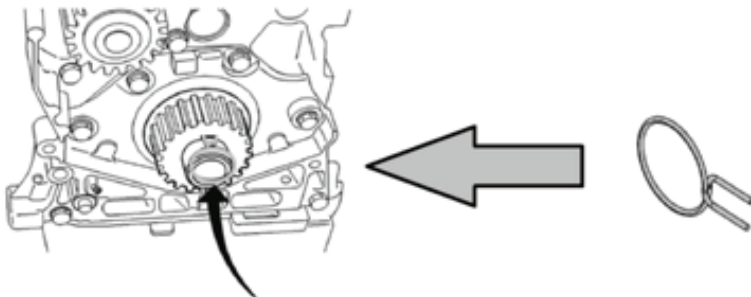
NOTE: Ensure threads well lubricated with Molybdenum Disulphide grease



## 9. PROCEDURE AND APPLICATION GUIDE

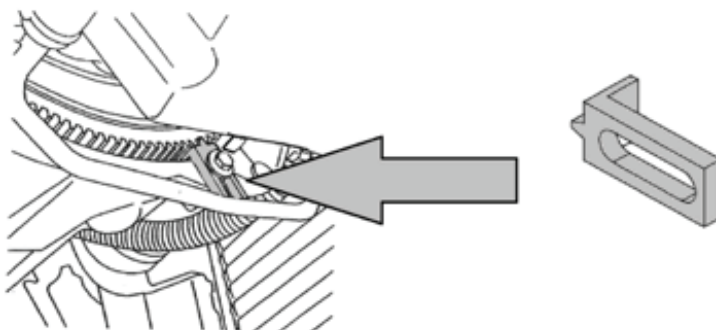
### Component 8 Centraliser Spring

Component 8 is used to centralise the crankshaft cam belt sprocket when refitting it.



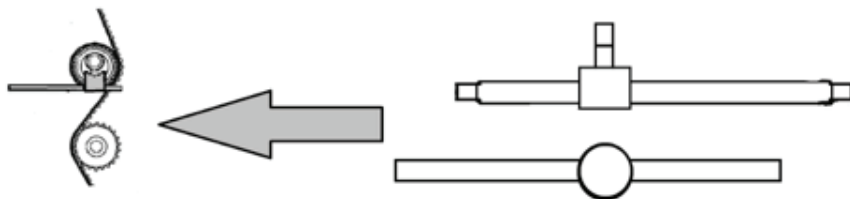
### Component 9 Flywheel Lock (Citroen/Peugeot)

Component 9 is used to lock the flywheel while tightening or loosening the crankshaft front pulley (PSA vehicles).



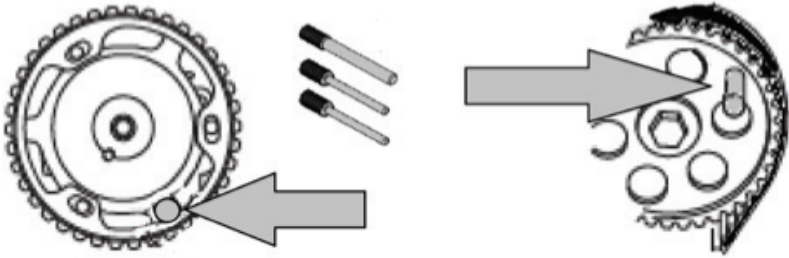
### Components 10 & 15 Tensioner Adjuster tools

Always refer to OEM data when setting belt tension.

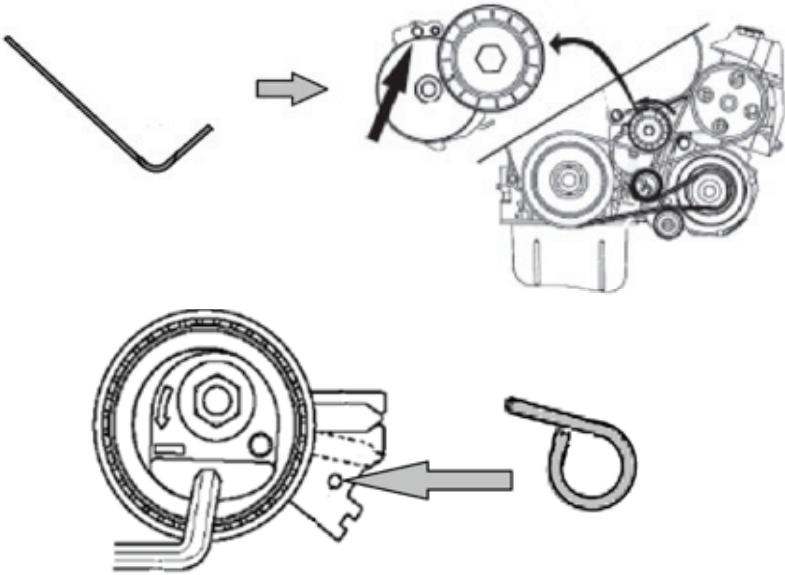


# 9. PROCEDURE AND APPLICATION GUIDE

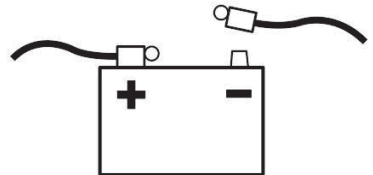
## Components 11, 16 & 17 Camshaft Locking pins



## Component 12, 13 & 14 Tensioner Locking Pins



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



# 10. EXPLANATION OF SYMBOLS

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## 10.1 EXPLANATION OF SYMBOLS



Read the guide.



Refer to website.





## CONTACTS

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E-mail: [sales@drapertools.com](mailto: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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