



## APPLICATION GUIDE FOR: ENGINE

# TIMING KIT

19217



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

---

## 1.1 INTRODUCTION:

**USER GUIDE FOR: Engine Timing Kit**

**Stock No: 19217**

**Part No: ETK246**

## 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>

Draper Tools Limited

Hursley Road

Chandler's Ford

Eastleigh

Hampshire

SO53 1YF

UK

**Website:** [drapertools.com](http://drapertools.com)

**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:

Copyright © Draper Tools Limited.

Permission is granted to reproduce this publication for personal and educational use only. Commercial copying, redistribution, hiring or lending is prohibited.

No part of this publication may be stored in a retrieval system or transmitted in any other form or means without written permission from Draper Tools Limited.

In all cases this copyright notice must remain intact.

## 2. CONTENTS

---

<b>1. TITLE PAGE</b>	
1.1 INTRODUCTION .....	2
1.2 REVISION HISTORY .....	2
1.3 UNDERSTANDING THIS GUIDE.....	2
1.4 COPYRIGHT NOTICE .....	2
<b>2. CONTENTS</b>	
2.1 CONTENTS .....	3
<b>3. GUARANTEE</b>	
3.1 GUARANTEE .....	4
<b>4. GENERAL PRODUCT INFORMATION</b>	
4.1 GENERAL PRODUCT INFORMATION .....	5
<b>5. HEALTH AND SAFETY INFORMATION</b>	
5.1 GENERAL SAFETY INSTRUCTIONS FOR USE	
<b>Personal safety</b> .....	6
<b>6. CONTENTS</b>	
6.1 PARTS DRAWING AND LISTING .....	7
<b>7. APPLICATION</b>	
7.1 PRODUCT APPLICATION AND COMPATIBILITY LISTING .....	8
<b>8. PREPARATION</b>	
8.1 ADVISORIES BEFORE USE .....	9
<b>9. PROCEDURE AND APPLICATION GUIDE</b>	
9.1 APPLICATION GUIDANCE .....	10
<b>10. EXPLANATION OF SYMBOLS</b>	
10.1 EXPLANATION OF SYMBOLS .....	11

## 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

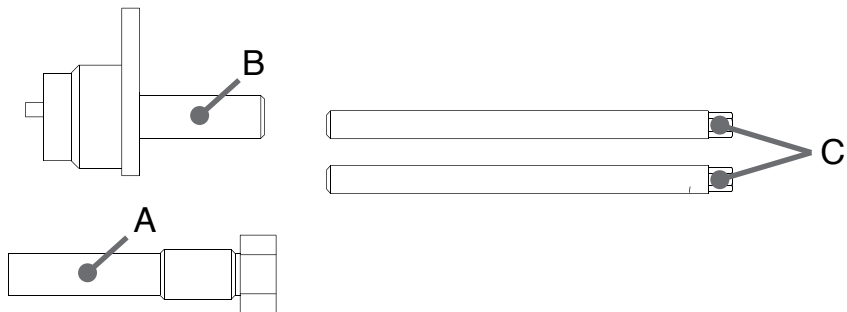
- a) Stay alert, watch what you are doing and use common sense when using this product. Do not use this product while you are tired or under the influence of drugs, alcohol or any medication. A moment of inattention while using this product may result in serious personal injury.
- b) Use personal protective 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	Crankshaft Tool	T10340	35652
B	Camshaft locking tool	T10414	35653
C	Guide Pins	T10341	35654

## 7. APPLICATION

---

The **19217** has been developed as an **engine timing kit** for the vehicles listed below. Allows the user to lock the crank and camshaft into the 'timed' position to enable the user to remove and replace the camshaft drive chain or check the engine timing position.

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

**Audi A1 2010 to 2015 TFSI**

**Audi A3 2010 to 2013 TSI**

**Seat Ibiza 2010 to 2015 TSI BlueMotion Technology**

**Seat Leon 2010 to 2013 TSI Ecomotive**

**Seat Toledo 2012 to 2015 TSI FR**

**Seat Altea 2010 to 2115**

**Skoda Fabia II 2010 to 2015**

**Skoda Octavia II 2010 to 2013**

**Skoda Praktik 2010 to 2015**

**Skoda Rapid 2012 to 2015**

**Skoda Roomster 2010 to 2015**

**Skoda Yeti 2009 to 2015**

**Volkswagen Beetle 2011 to 2015**

**Volkswagen Caddy 2010 to 2015**

**Volkswagen Golf 2009 to 2015**

**Volkswagen Jetta 2011 to 2017**

**Volkswagen Polo 2009 to 2014**

**Volkswagen Touran 2010 to 2015**

### **Engine Codes:**

**1.2cc**

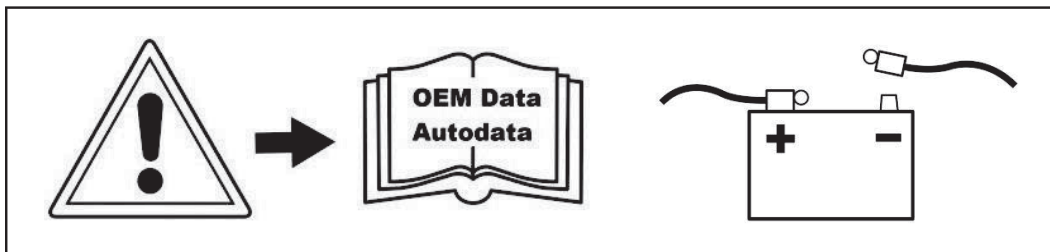
**CBZA, CBZB, CBZC**



## 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

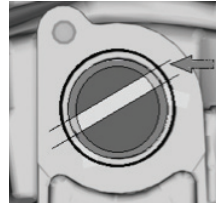
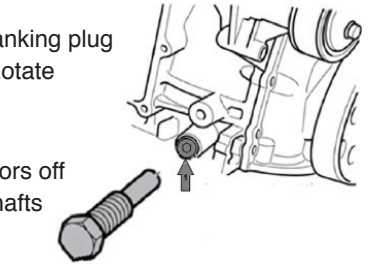
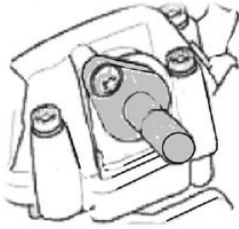
Depending on manufacture and model, some engine components do change. Please check with Autodata or the manufacturer's data before use.

## Component 1

Use A to lock the crankshaft in its timed position. Remove blanking plug from rear of cylinder block and fit crankshaft alignment pin. Rotate engine until it stops against alignment pin.

## Component 2

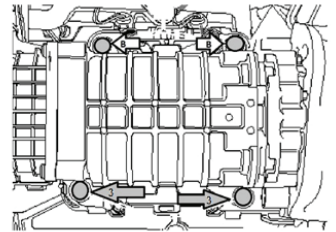
Use 2 to lock the camshaft in position. Remove pipe connectors off non-return valve from rear of cylinder head. Groove in camshafts must align as in diagram. Install camshaft alignment tool 2.



**Warning!** do not use B as a holding tool when loosening or tightening the camshaft sprocket.

## Component 3 Alignment pins for supercharger

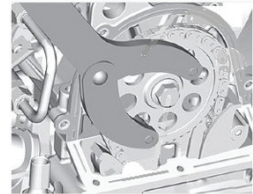
When refitting supercharger it is advised that new oil seal are fitted. Refit supercharger together with intake silencer onto alignment pins and tighten top securing bolts lightly.



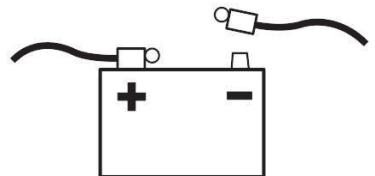
## Support Tool

### Camshaft Sprocket Holding Tool MM 23106-01

Can be used in disassembly of the job or assembly when removing and refitting of the sprocket holding bolt or rotating the engine.



**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

Draper Tools Limited, Hursley Road,  
Chandler's Ford, Eastleigh, Hampshire. SO53 1YF. U.K.

Helpline: (023) 8049 4344

Sales Desk: (023) 8049 4333

Internet: [drapertools.com](http://drapertools.com)

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

CMDB0618

©Published by Draper Tools Limited.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise without prior permission in writing from Draper Tools Ltd.