



# DIESEL ENGINE TIMING TOOL KIT, FORD 2.0TDCI ECOBLUE, BELT DRIVE

MODEL NO: **VS5285**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE



Refer to  
instruction  
manual



Wear eye  
Protection

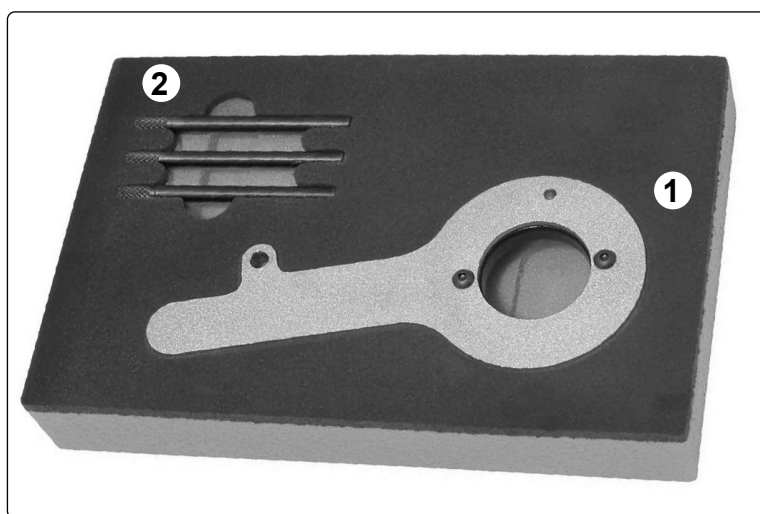
## 1. SAFETY

- WARNING!** Wear approved eye protection. Wear appropriate Personal Protective Equipment. A full range of Personal Protective Equipment is available from your Sealey stockist.
- WARNING!** Ensure that Health & Safety, Local Authority Regulations and general workshop practice Regulations are adhered to when using tools.
- ✗ **DO NOT** use tools if damaged.
- ✓ Maintain tools to ensure that they are in an adequate condition for safe use and optimum performance.
- ✓ Ensure that a vehicle that has been raised by a jack is adequately supported. Use axle stands.
- ✗ **DO NOT** attempt to start or move a vehicle whilst in gear and with timing devices fitted.
- ✓ Wear suitable clothing to avoid snagging. **DO NOT** wear jewellery. Tie back long hair.
- ✓ Account for all tools, parts and components being used. **DO NOT** leave these in or near the engine. Return tools to suitable storage after use.
- ✓ When not in use, store in a safe, dry childproof place.
- ✓ Keep children and unauthorised persons away from the work area.
- IMPORTANT!** These instructions are provided as a guide only. Always refer to the vehicle manufacturer's service instructions or a proprietary manual to establish the correct procedure and data.
- WARNING!** The warnings, cautions and instructions in this manual cannot cover all possible conditions and situations. The Operator / user must apply caution and common sense (good practical sense).
- ✓ When timing an engine, always prevent the engine from being turned over. Use a notice and / or inhibit the engine.
- WARNING!** Incorrect or out of phase camshaft timing can result in contact between the valve head and the piston crown. This will cause damage to the engine.

## 2. INTRODUCTION

Designed to fit the new generation of Ford EcoBlue 'Panther' belt in oil diesel engines. Contains the special tooling essential for locking the engine in its timing position. Supplied in a foam tray with a warning tag and full instructions.

## 3. CONTENTS



ITEM	PART NO.	DESCRIPTION	OE REF.
1	VS5285.01	Crankshaft Setting Tool	303-1637
2	VS5285.02	Camshaft Setting Pins / Tensioner locking pin	6mm Pin (x3)

## 4. APPLICATIONS

**APPLICATIONS: FORD:** Edge (18-21), Focus (19-23), Focus Active (19-23), Galaxy (18-21), Mondeo (19-21), Ranger (19-22), S-MAX (18-21), Tourneo Custom(16-23), Tourneo Custom Active (20-23), Transit (16-23), Transit Custom (16-23), Transit Custom Active (20-23)

**ENGINE CODES: 2.0TDCi:** BC2X, BCCA, BCCB, BCCC, BCCD, BCDA, BCFA, BCFB, BCFC, BCFD, BCRA, BJFA, BJFB, BJFC, BJFD, BJRA, BJRB, BKFA, BKFB, BKFC, BKFD, BKRA, BKRB, BLFA, BLFB, BLFC, BLFD, BLHA, BLRA, BLRB, YL2X, YLCA, YLCB, YLCC, YLDA, YLF6, YLFA, YLFB, YLFS, YLR6, YLRA, YMCA, YMCB, YMCC, YMF6, YMFA, YMFB, YMFS, YMHA, YMR6, YMRA, YN2X, YNCA, YNF6, YNFA, YNFB, YNFS, YNR6, YNRA

## 5. OPERATION

### 5.1. CHECKING THE BELT TIMING

5.1.1. Remove the auxiliary drive belt, crankshaft pulley and timing belt cover.

**NOTE:** on some variants the drive belt will have to be cut off, all auxiliary belts will have to be replaced regardless of variant. The timing cover will require replacement as these cannot be reused.

Rotate the Crankshaft in the normal direction of rotation until the mark on the Crankshaft Gear and the two marks on the Intermediate Gear are aligned. (fig.1)

**NOTE:** A number of rotations of the Crankshaft may be required to achieve this position as the marks align every 14th full revolution.

5.1.2. Locate VS5285.01 Crankshaft Setting Tool into the recessed profile of the Crankshaft Sprocket, ensuring that the 3 teeth are fully located in the profile of the sprocket and that the flat area of the tool is located against the guide sleeve that protrudes from the engine. (fig.2)

5.1.3. Insert the two VS5285.02 Camshaft Setting Pins through the holes located at the 12 o'clock position in the Camshaft Sprockets and into the apertures of the Cylinder Head (fig.3).

5.1.4. If it is not possible to fully install the Camshaft Setting Pins, the engine timing position may need to be adjusted.

5.1.5. This kit also includes a third pin which can be used as a Tensioner Retaining Pin (Fig.4).

5.1.6. To retain the tensioner for timing belt removal and installation, use an 8mm Hex Key to rotate the belt tensioner in a clockwise direction to release the belt.

5.1.7. Retain the Tensioner in this position using the one remaining Setting Pin (Fig.4).

5.1.8. Remove and discard the Toothed Belt and Toothed Belt Tensioner.

### 5.2. INSTALLATION

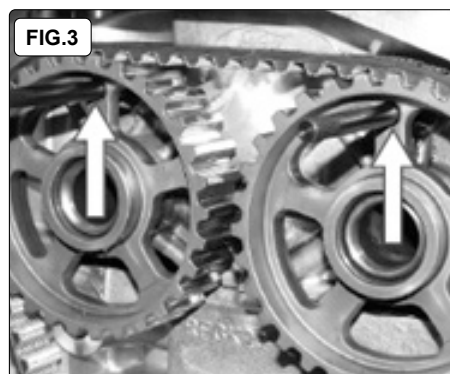
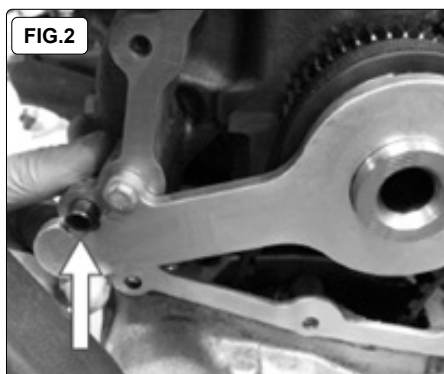
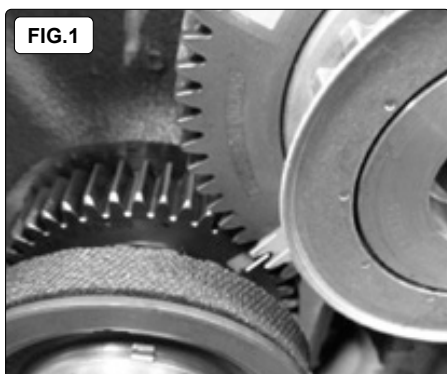
5.2.1. Ensure the engine is in its timed position using the Camshaft Setting Pins and the Crankshaft Alignment Tool .

5.2.2. Fit a new timing belt tensioner and tighten the securing bolt to 25 Nm.

5.2.3. Fit the new timing belt in a clockwise direction starting at the intermediate sprocket.

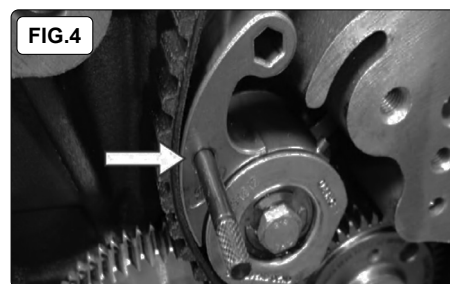
5.2.4. Remove all tooling and reassemble in the reverse order of dismantling.

**NOTE:** always reassemble using a new crankshaft pulley bolt.



## 6. MAINTENANCE

✓ When not in use, store in a safe, dry, childproof location.



### ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



REGISTER YOUR PURCHASE HERE

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

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