

Part No. 3773

LASER[®]

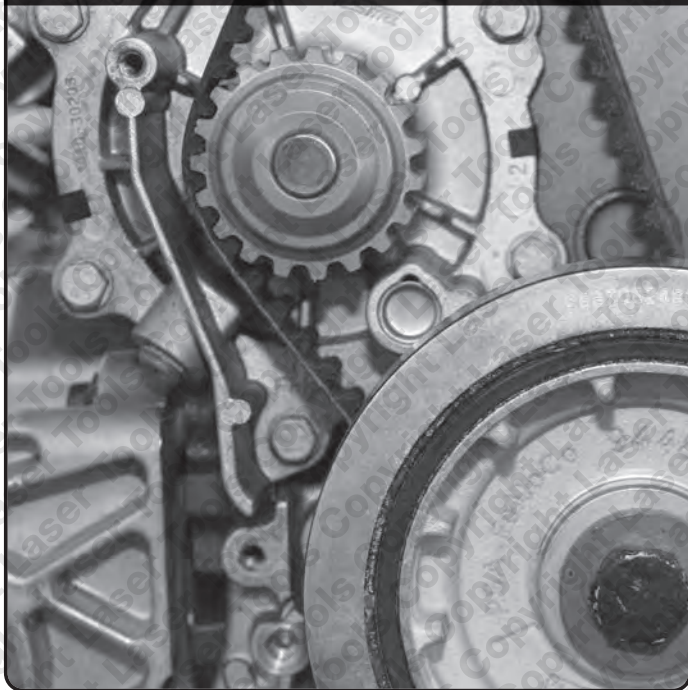
Instructions

Engine Timing Tool Kit

Ford Duratorq Diesel



MADE IN
SHEFFIELD



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Introduction

A special 4 piece kit designed to allow the camshaft, crankshaft and high pressure fuel pumps to be locked for belt replacement on the 1.4, 1.6, 2.0 & 2.4 Duratorq HDi diesel engines found across the Ford range from 2002 to 2009.

Components

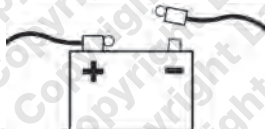
Ref.	Code	OEM Ref.	Description
A	C057	0194-C, 21-262, 303-734	12mm Flywheel/ Crankshaft Locking pin
B	C101	0194-B, 21-263, 303-735	8mm Camshaft Pulley Alignment Pin
C	C089	0194-A, 21-260, 303-732	5mm Crankshaft Pulley Alignment, Fuel Pump Pulley Alignment Pin
D	C847	303-675/21-234 303-698/21-251	Crankshaft/Flywheel Locking Tool (double ended)



Instructions

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicle manufacturers' own data or Autodata.

The use of this engine timing tool kit is purely down to the user's discretion and The Tool Connection Ltd. cannot be held responsible for any damage caused whatsoever.

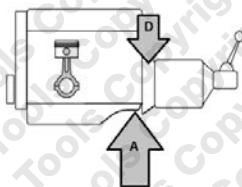
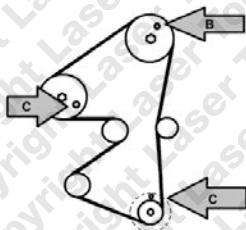


Warning – Incorrect or out of phase engine timing can result in damage to the valves. It is always recommended to turn the engine slowly, by hand, and to re-check the camshaft and crankshaft timing positions.

Instructions

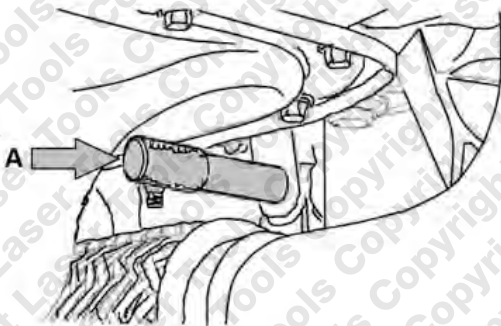
Always refer to manufacturer specific data and instructions

Were used:



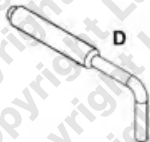
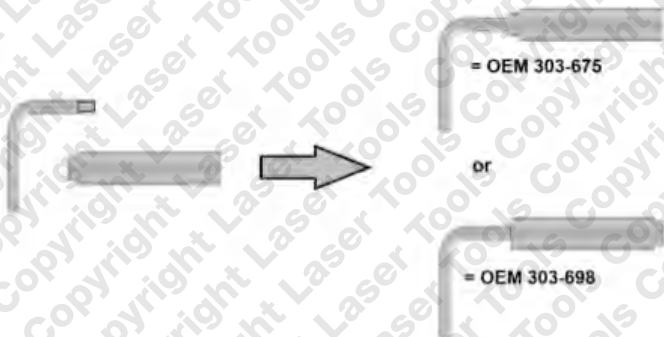
Components A & D = Crankshaft Locking Tools – used to lock the position of the crankshaft by locking the flywheel.

Component A is used as shown on 1.4 and 1.6 TDCi engines.



Instructions

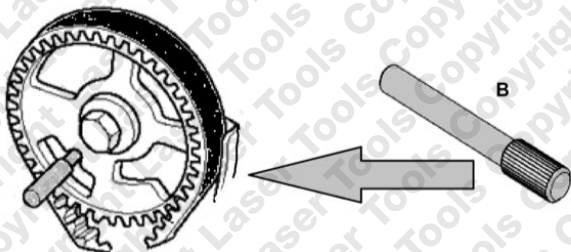
D is used on 2.0, 2.2 and 2.4 engines as shown below. Assemble the pin according to OEM tool number required.



Instructions

Component B – Camshaft locking pin – 1.4 and 1.6 engines

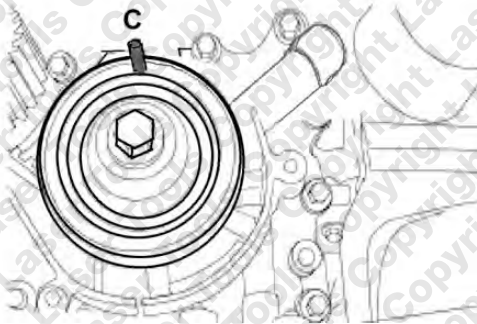
Use component B as shown



Component C - Crankshaft Pulley Alignment & Fuel Pump Pulley Alignment Pin.

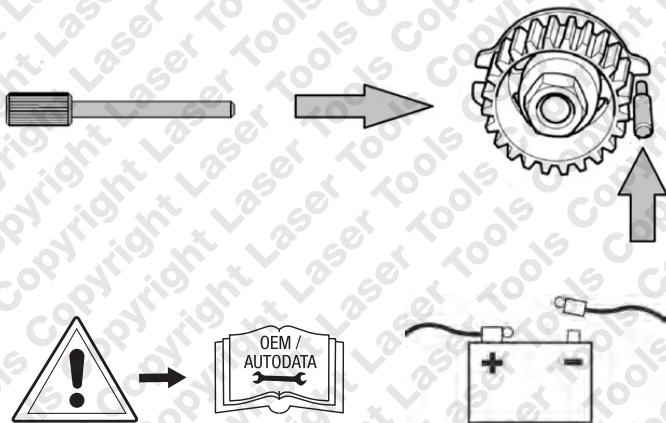
Component C is used to align the crankshaft front pulley as well as lock the Fuel Pump pulley on the 1.4 and 1.6 engines.

To align the pulley use C as shown below.



Instructions

To align the fuel pump pulley use as shown below.



Safety Warnings - please read

- If the engine has been identified as an Interference engine, damage to the engine will occur if the timing belt has been damaged. A compression check of all the cylinders should be taken before the cylinder head (s) are removed.
- Do not turn crankshaft or camshaft when the timing belt/chain has been removed.
- To make turning the engine easier, remove the spark plugs/glow plugs or injectors.
- Observe all tightening torques.
- Do not turn the engine using the camshaft or any other sprocket.
- Disconnect the battery earth lead (check Radio code is available).
- Do not use cleaning fluids on belts, sprockets or rollers.
- Some toothed timing belts are not interchangeable. Check the replacement belt has the correct tooth profile.
- Always mark the belt with the direction of running before removal.
- Do not lever or force the belt onto its sprockets.
- Do not use timing pins to lock the engine when slackening or tightening the crankshaft pulley bolts.
- ALWAYS REFER TO A REPUTABLE MANUFACTURERS WORKSHOP MANUAL.



Safety First. Be Protected.

Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by the Tool Connection for incorrect use of any of our products, and the Tool Connection cannot be held responsible for any damage to personnel, property or equipment when using the tools. Incorrect use will also invalidate the warranty.

If applicable, the applications database and any instructional information provided has been designed to offer general guidance for a particular tool'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 tools and information prior to their use.



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