

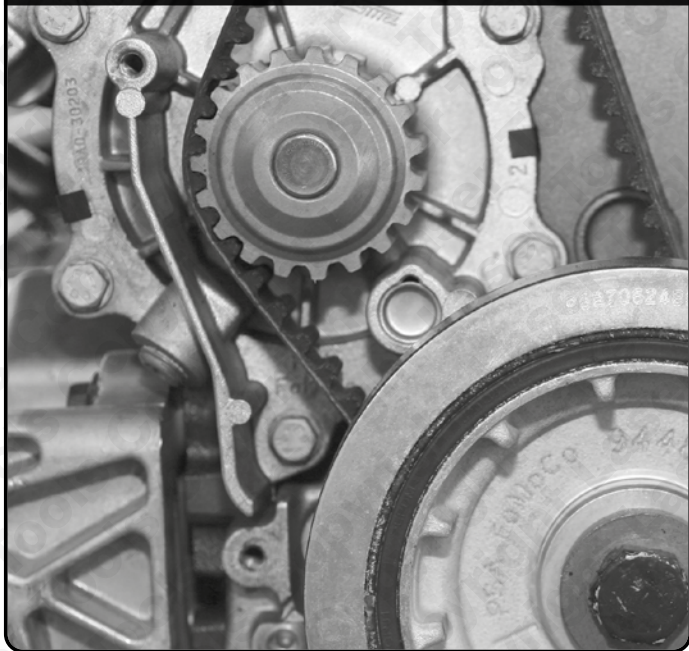
Part No. 4636

LASER[®]

Instructions

Timing Tool Set

2.3/3.0 JTD, 2.3/3.0 HPI/HPT, 3.0 HDI



Please refer to www.lasertools.co.uk/toolpoint
to check the most up to date product applications.

www.lasertools.co.uk

Components



Ref.	Code	OEM Ref.	Description
A	C375	99360614	Camshaft Timing Pins (2)
B	C376	99360615	Crankshaft Timing Pin (2005)
C	C089	1 860 617 000	Camshaft Sprocket Alignment Pin
D	C191	2 000 018 200	Crankshaft Timing Pin (2006-)

Applications

Always consult a suitable work shop manual before attempting to change the Cam belt or Chain.

The use of these engine timing tools is purely down to the user's discretion and Tool Connection cannot be held responsible for any damage caused what so ever. ALWAYS USE A REPUTABLE WORKSHOP MANUAL

Applications

Make, Model, Year			Engine Code	
Citroen	Relay/ Jumper III	2006 - on	3,0 HDi	F1AE3481A
			F30DTE (F1CE 0481D)	F1AE3481B
			F30DTE (F1CE 3481D)	F1AE3481C
Peugeot	Boxer III	2006 - on	F30DTE (F1CE 3481DM)	F1AFL411A
Fiat	Ducato	2006 - on	F30DTE (F1CE 3481E)	F1AFL411B
Iveco	Daily	2004 - on	F30DTE (F1CE 3481N)	F1AFL411C
			2,3 MultiJet	3,0 HPI/HPT
			F1AE0481C	F1CE0114A
			F1AE0481D	F1CE0441A
			F1AE0481N	F1CE0441F
			F1AE3481D	F1CE0481A
			F1AE3481E	F1CE0481B
			F1AE3481G	F1CE0481F
			F1AGL411A	F1CE0481FA
			F1AGL411B	F1CE0481FB
			F1AGL411C	F1CE0481H
			F1AGL411D	F1CE0481HA
			F1AGL411M	F1CE0481HB
			3,0 MultiJet	F1CE34818
			F1CE0481D	F1CE3481C
			F1CE3481E	F1CE3481CC
			F1CE3481M	F1CE3481D
			F1CE3481N	F1CE3481J
			2,3 HPI/HPT	F1CE3481K
			F1AE0481A	F1CE3481LC
			F1AE0481B	F1CFA401A
			F1AE0481D	F1CFL411E
			F1AE0481F	F1CFL411F
			F1AE0481FA	F1CFL411G
			F1AE0481FB	F1CFL411H
			F1AE0481G	F1CFL411J
			F1AE0481GA	F1CFL411V
			F1AE0481GB	F1CFL411W
			F1AE0481H	F1CGL411A
			F1AE0481HA	F1CGL411B
			F1AE0481HB	F1CGL411C
			F1AE0481R	
			F1AE0481RA	
F1AE0481UA				
F1AE0481UB				
F1AE0481VA				
F1AE0481VB				

Always refer to the website for most up to date applications:

www.lasertools.co.uk/product/4636

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.



This kit includes the latest Crankshaft Timing Pin required on engines produced from 2006 - on.

The 2.3 JTD twin camshaft Common Rail diesel engine is belt driven between crankshaft and inlet camshaft but utilises a chain to connect both camshafts.

The high pressure fuel pump does not require timing. Follow all the manufacturers' specified procedures in preparation to remove the worn or damaged timing belt.

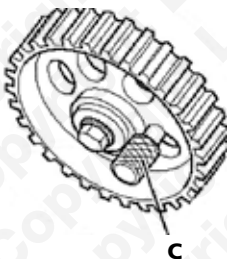
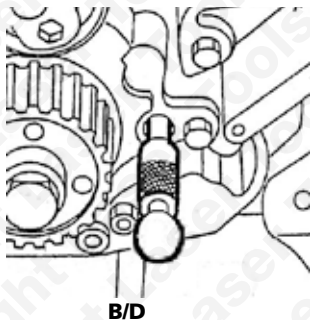
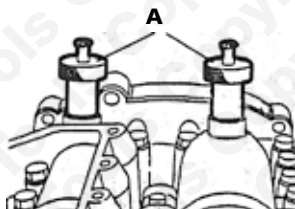
Instructions

Instructions

1. Rotate the engine to position just before TDC (Top Dead Centre) and insert the correct Crankshaft Timing Pin B or D, the crankshaft is then rotated clockwise until contact with the pin.
2. Remove two studs located above cylinder No 4 and insert the two Camshaft Timing Pin assemblies A until correctly located.
3. Remove the tension pulley.
4. Remove the timing belt.
5. During installation of the new timing belt align the camshaft sprocket at 3 o'clock using timing pin C.
This action also correctly aligns the camshaft position sensor.
6. Follow the manufacturers' instruction to fit and tension the new timing belt.

NOTE: It is recommended that after removing all the timing tools, the engine is rotated eight times in the normal direction of rotation to re-check the alignment. It should be possible to re-fit all of the timing tools to when performing this check.

7. The 3.0 JTD engine is chain driven and requires the same timing locking tools. Follow the engine manufacturer's instructions.



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.



4636_instructions_v2



www.lasertools.co.uk

Guarantee



Distributed by The Tool Connection Ltd
Kineton Road, Southam, Warwickshire CV47 0DR
T +44 (0) 1926 815000 F +44 (0) 1926 815888
info@toolconnection.co.uk www.toolconnection.co.uk

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.

www.lasertools.co.uk