

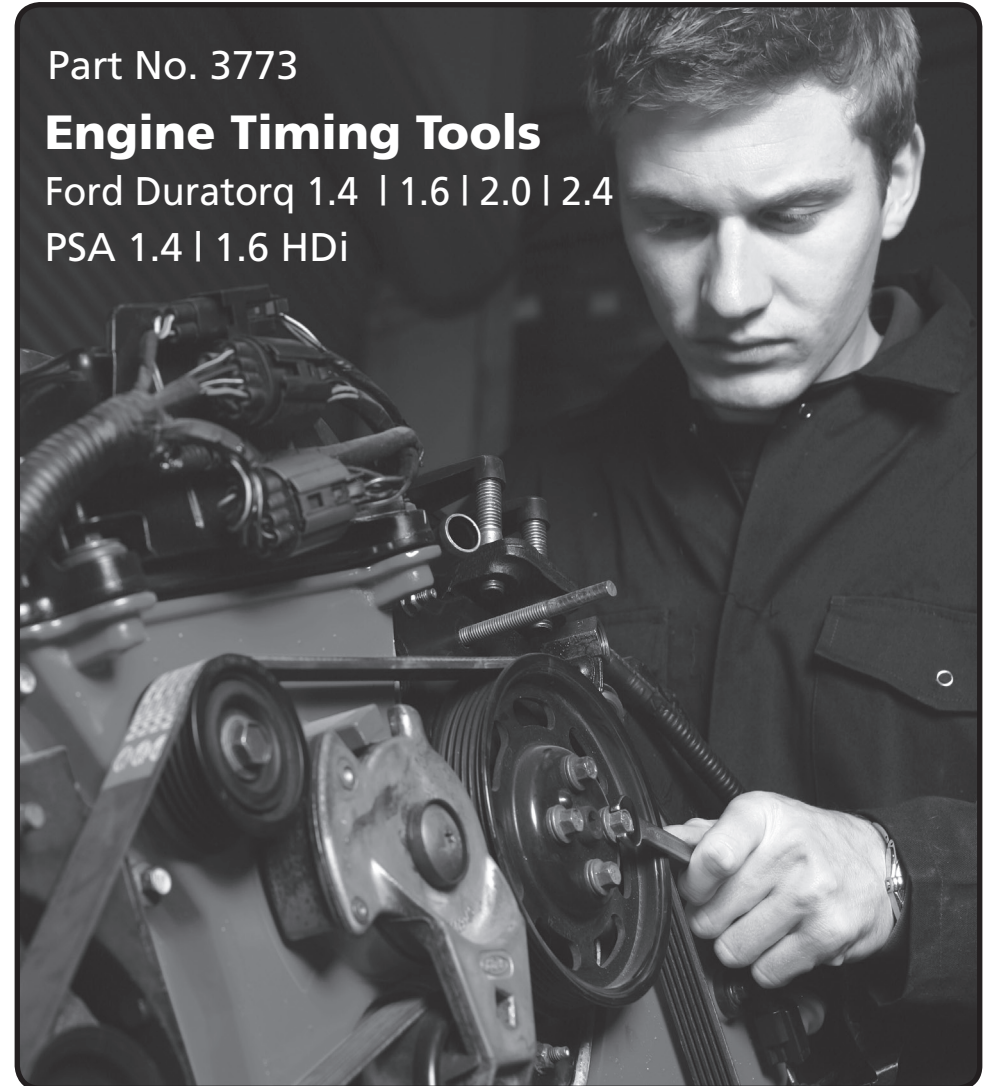
LASER[®]

Part No. 3773

Engine Timing Tools

Ford Duratorq 1.4 | 1.6 | 2.0 | 2.4

PSA 1.4 | 1.6 HDi



When you have finished with this bottle please recycle it

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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

Guarantee

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Ford Duratorq



A special 5 piece kit containing the necessary special pins required to lock the camshaft sprocket, flywheel and align the crankshaft and fuel pump when checking the valve timing on 2.0 and 2.4 litre chain driven engines and or replacing the timing belt on 1.4 l 1.6 litre engines.

Warning

Incorrect or out of phase engine timing can result in damage to the valves. The Tool Connection cannot be held responsible for any damage caused by using these tools in anyway.

Safety Precautions – Please read

- Disconnect the battery earth leads (check radio code is available)
- Remove spark or glow plugs to make the engine turn easier
- Do not use cleaning fluids on belts, sprockets or rollers
- Always make a note of the route of the auxiliary drive belt before removal
- Turn the engine in the normal direction (clockwise unless stated otherwise)
- Do not turn the camshaft, crankshaft or diesel injection pump once the timing chain has been removed (unless specifically stated)
- Do not use the timing chain to lock the engine when slackening or tightening crankshaft pulley bolts
- Do not turn the crankshaft or camshaft when the timing belt/chain has been removed
- Mark the direction of the chain before removing
- It is always recommended to turn the engine slowly, by hand and to re-check the camshaft and crankshaft timing positions.
- Crankshafts and Camshafts may only be turned with the chain drive mechanism fully installed.
- Do not turn crankshaft via camshaft or other gears
- Check the diesel injection pump timing after replacing the chain
- Observe all tightening torques
- Always refer to the vehicle manufacturer's service manual or a suitable proprietary instruction book
- 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

Instruction

IT

Il perno di regolazione delle pulegge dell'albero a camme **C** permette di allineare l'albero prima di intervenire sul motore

I perni di allineamento del volano permettono di bloccare l'albero a gomiti nella corretta posizione di fasatura.

Posizionare il perno di regolazione **B** per mantenere la posizione di fasatura sia sull'albero a gomiti che sulla pompa della benzina.

Rimuovere il sensore di posizione dell'albero a gomiti prima di installare l'attrezzo di bloccaggio del volano **D**

PT

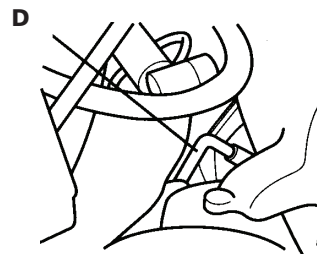
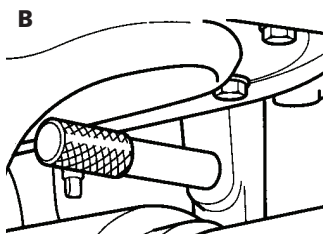
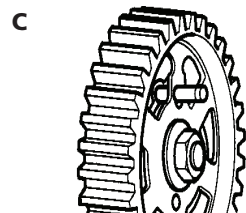
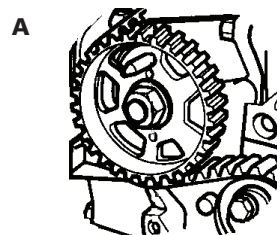
Ferramenta de travagem do eixo de manivela **A** é inserido pela roda dentada de bomba de combustível

Pino de Travagem que fixa **C** para alfinete habilita o eixo de comando a ser alinhado antes de consertar a máquina.

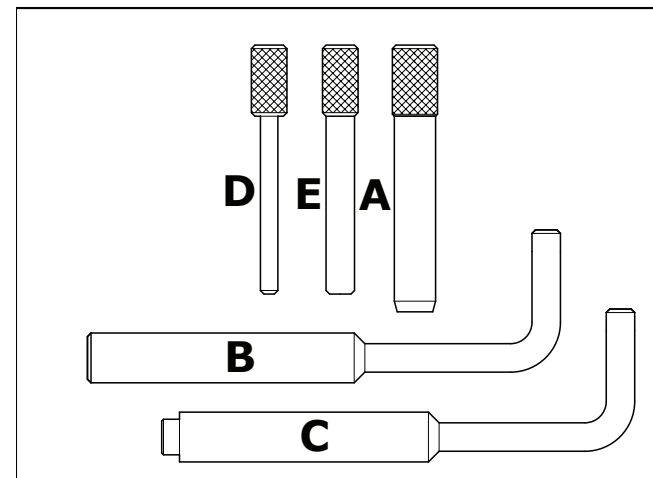
Ferramenta de travagem do eixo de manivela a ser prendido na posição de cronometragem correta.

Alfinete fixando **B** fecha a posição de posição de alinhamento do eixo de manivela e a bomba de combustível.

Remova o sensor de posição de eixo de manivela antes de ajustar de travagem do eixo de manivela



Plan Layout



Ref	Code	Oem Ref.	Description	Application	Engine Code
A	C057	0194C 21-262 303-734	Flywheel Locking Pin	Fiesta 1.4 TDCi Fusion 1.4 TDCi Focus C Max 1.4 1.6 TDCi	F6JA F6JB F6JC
B	C058	21-234 21-251	Flywheel Locking Pin	Mondeo 2.0 TD TDCi Transit 2.0 2.4TD TDCi	D5BA D6BA FMBA/B HJBA/B D2FA D4FA F4FA DOFA FIFA ABFA ID3FA F3FA
C	C342	303-698 303-675	Flywheel Locking Pin	Mondeo 2.2 TDCi Transit 2.4 TDCi Transit 2.4 TDCi	QJBA QJBB H9FA FXFA H9FA H9FB FXFA JXFA PHFA
D	C089	0194A 21-260 303-732	Crankshaft Fuel Pump alignment pin	Citroën C1 C2 C3 Xsara 1.4 HDi C3 C4 1.6 HDi	8HX (DV4TD) DV4TED4 8HZ (DV4TI) 9HX (DV6A TED4)
E	C101	0194B 21-263 303-735	Camshaft Sprocket Locking Pin	Peugeot 107 206 207 HDi 307 1.4 1.6 HDi 10071.4 HDi	8HT (DV4TD DV4TED4 DV6TED4) 8HZ (DV4TI) 8HX (DV4TI)

Instruction

GB

The fuel pump alignment pin **A** is inserted through the fuel pump sprocket.

The camshaft sprocket setting pin **C** enables the camshaft to be aligned prior to servicing the engine.

Flywheel alignment pins enable the crankshaft to be locked in the correct timing position.

Setting pin **B** locks the timing position of both the crankshaft and the fuel pump.

Remove the crankshaft position sensor before fitting the flywheel locking tool **D**

FR

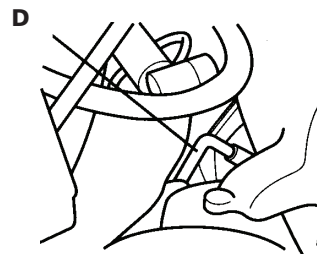
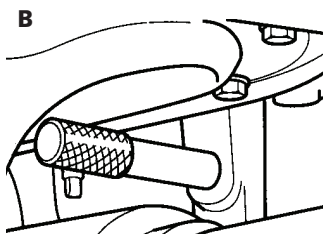
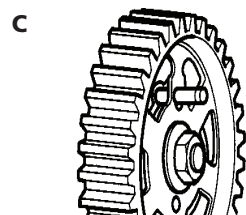
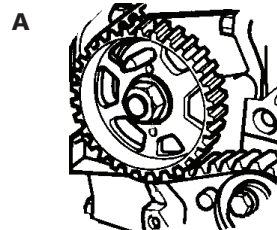
Le pige de calage le pompe d'injection **A** est inséré à travers la pignon de la pompe d'injection.

Le pige de calage pour le pignon **C** de l'arbre à came permet l'alignement de l'arbre à came avant de faire la révision du moteur

Les piges pour aligner le volant permettent le calage du vilebrequin dans la position de distribution.

La pige **B** cale la position de distribution du vilebrequin et aussi la pompe à carburant.

Démonter le capteur de positionnement du vilebrequin avant de monter la pige de calage volant **D**



Instruction

ES

El alfiler de alineación de bomba de combustible **A** se inserta a través del diente de la bomba de combustible

El engranaje de árbol de levas que pone **C** al alfiler permite alinear el árbol de levas anterior a reparar el artefacto.

Los pernos de bloccaggio del volante permiten cerrar con llave el cigüeñal en la posición de la oportunidad correcta.

El alfiler poniendo **B** cierra con llave la posición de reglaje del cigüeñal y la bomba de combustible.

Quite el sensor de posición de cigüeñal antes de

DE

Die Einspritzpumpen-fixierdorn **A** wird durch den Kraftstoffpumpe-Zahn hineingesteckt.

Der Nockenwellen-fixierdorn **C** ermöglicht der Nockenwelle, zu Dienst der Motor vorausgehend angeglichen zu werden.

Schwungrad-fixierdorn ermöglichen der Kurbelwelle, in der korrekten riemen eingesperrt zu werden.

Fixierdorn **B** schließt die riemen von sowohl der Kurbelwellen als auch der Kraftstoffpumpe ab.

Entfernen Sie den Kurbelstellung-Sensor vor Anprobe das Schwungrad, das Werkzeug **D** abschließt.

