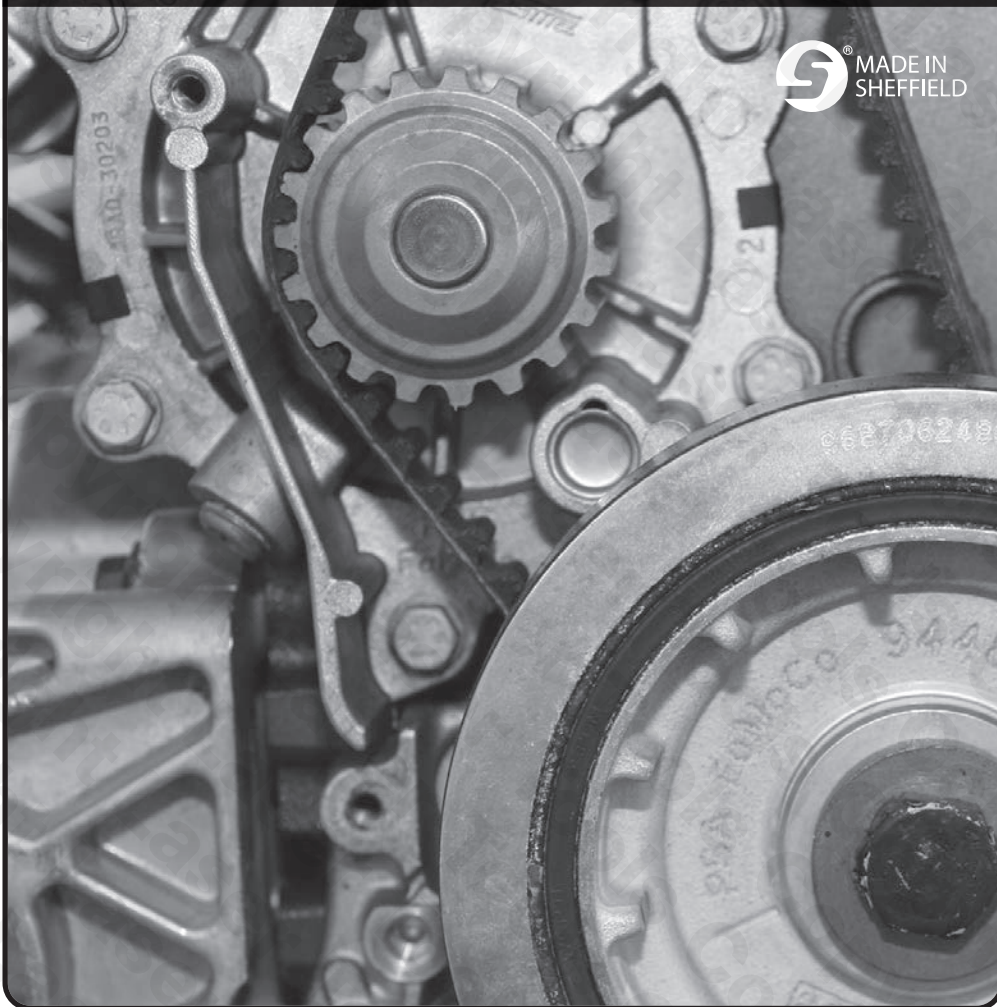


# LASER<sup>®</sup>

Part No. 8311

## Instructions

### Engine Timing & Tensioner Kit Ford & PSA Diesel



[www.lasertools.co.uk](http://www.lasertools.co.uk)

## Introduction

This combined timing pin and auxiliary belt fitting set has been designed to be used to lock the crankshaft, camshaft and high pressure fuel pump pulleys on the Ford and PSA 1.4, 1.5 and 1.6L common rail diesel engines found across the Ford, Citroën, Peugeot and Vauxhall ranges from 2002. This kit includes the latest fuel pump sprocket locking tool for the Blue technology Citroën & Peugeot 1.6 diesel engines.

- Applications include: Citroën, Peugeot, Ford & Vauxhall 1.4, 1.5 & 1.6 diesel engines (from 2002).
- Kit includes auxiliary belt fitting kit for the 1.4 & 1.6 (DV4 & DV6) diesel engines.
- Together with fuel pump sprocket locking pin for the latest generation Blue technology Citroën & Peugeot 1.6 diesel engines (from 2014) & Vauxhall 1.5 & 1.6 BlueInjection diesels (from 2017).
- Equivalent to OEM 303-734/21-162, 303-732/21-260 (2), 303-735/21-263, 0194-J, 01099-B1 & B2, 0194-D, KM-6349, EN-52138, EN-52137, EN-53141, EN-52142.

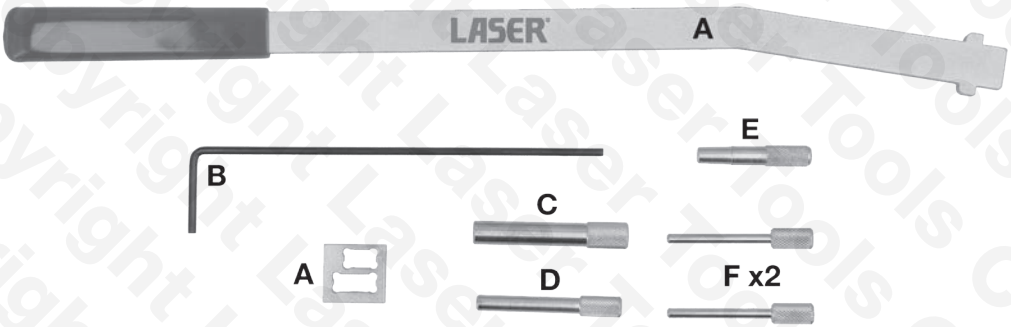
For post 2018 Ford engines please see Laser Part No. 6649 - tensioner spanner.

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.



## Components



Ref.	Comp. Code	OEM Ref.	Description
A		0194-D, 01099-B1 & B2	Auxiliary Belt Tensioner lever & Adaptor
B	C568	0188-Q1	Auxiliary Belt Tensioner Locking Pin
C	C057	0194-C, 303-734	Flywheel Locking Pin (not EURO VI)
D	C101	0194-B, 303-735	Camshaft Sprocket Locking Pin
E	C802	0194-J	High Pressure Fuel Pump Sprocket Pin – Blue-Technology
F	C089	0194-A, 303-732	Crankshaft/Fuel Pump Alignment Pins

**WARNING:** Timing Pins are for setting and holding components in their timed position and should never be used to hold a component while loosening or tightening pulley mounting bolts.

## Applications

Make, Model, Year		
Citroën	Berlingo	2005 to 2018
	C2	2007 to 2010
	C3	2005 to 2018
	C4	2004 to 2018
	C5	2004 to 2015
	C-Elysee	2012 to 2018
	Dispatch / Jumpy III	2007 to 2018
	DS3 / DS3 Cabrio	2009 to 2015
	DS4	2011 to 2015
	DS5	2012 to 2015
	SpaceTourer	From 2016
	Xsara Picasso	2004 to 2010
Ford	B-MAX	2012 to 2018
	C-MAX	2007 to 2020
	EcoSport	2013 to 2020
	Fiesta / Fiesta Active	From 2002
	Focus / Focus Active	From 2004
	Focus C-MAX	2003 to 2007
	Fusion	2002 to 2011
	Galaxy	2011 to 2015
	Grand C-MAX	2010 to 2019
	Grand Tourneo Connect	From 2013
	Ka / Ka+ Active	2008 to 2020
	Kuga	2016 to 2020
	Mondeo	2011 to 2018
	S-MAX	2011 to 2015
	Tourneo Connect	From 2013
	Tourneo Courier	From 2014
	Transit Connect	From 2013
	Transit Courier	From 2014
	Fusion	2004 to 2011

## Applications (continued)

Make, Model, Year		
Opel/Vauxhall	Combo-E / Combo-E Life	From 2018
	Crossland X	From 2017
	Grand C-MAX	2018 to 2020
	Grandland X	From 2018
	Vivaro-C / Vivaro-C Life	From 2019
Peugeot	206	2004 to 2007
	207	2006 to 2013
	208	2012 to 2018
	301	2012 to 2018
	307	2004 to 2008
	308	2007 to 2018
	407	2004 to 2011
	508	2011 to 2018
	1007	2006 to 2010
	2008	2013 to 2018
	3008	2009 to 2018
	4008	2012 to 2017
	5008	2009 to 2019
	Expert	2007 to 2018
	Partner	2005 to 2019
	Rifter	2018 to 2019
	Traveller	2016 to 2018
Toyota	Proace / Proace Verso	2016 to 2019

Always refer to the website for most up to date applications:  
[www.lasertools.co.uk/product/8311](http://www.lasertools.co.uk/product/8311)



## Applications (continued)

Engine Codes			
1.4	XUJM	XXDA	9HM (DV6UC)
F6JA	XUJN	XXDB	9HN (DV6ETED)
F6JB	XUKE	XXDC	9HN (DV6EU)
F6JC	XVCA	XXDD	9HP (DV6D)
F6JD	XVCB	XXDE	9HP (DV6DTED)
KVJA	XVCC	XXGA	9HP (DV6DTED4)
1.5	XVGA	Z2DA	9HP (DV6ETED)
AEDA	XVGB	Z2GA	9HR (DV6C)
BEGA	XVGC	Z2JA	9HR (DV6CTED)
DV5RUC (YHV)	XVJA	ZTDA	9HS (DV6TED4BU)
DV5RUCD (YHR)	XVJB	ZTGA	9HT (DV6BTED4)
ENUG	XVJC	ZTJA	9HM (DV6UC)
LQJ/D15DT	XVJD	ZTJB	9HN (DV6ETED)
LQP/D15DTH	XWCA	ZTJC	9HN (DV6EU)
LQJ/D15DTL	XWCB	1.6	9HP (DV6D)
UGCA	XWDA	3WZ-HV/DV6FCU	9HP (DV6DTED)
UGCB	XWDB	3WZ-TV/DV6FDU	9HP (DV6DTED4)
UGCC	XWDC	9HC (DV6C)	9HP (DV6ETED)
UGJC	XWDD	9HC (DV6CTED)	9HR (DV6C)
UGJE	XWDE	9HD (DV6C)	9HR (DV6CTED)
XUCA	XWDG	9HD (DV6CTED)	9HS (DV6TED4BU)
XUCC	XWGA	9HE (DV6DTED)	9HT (DV6BTED4)
XUCD	XWGB	9HF (DV6DTED)	9HT (DV6BUTED4)
XUGA	XWJB	9HG (DV6CM)	9HU (DV6UTED4)
XUJA	XWJC	9HH (DV6DU)	9HV (DV6TED4B)
XUJB	XWMB	9HJ (DV6DM)	9HW (DV6BTED4)
XUJF	XWMC	9HJ (DV6DTED)	9HX (DV6AUTED4)
XUJG	XWMD	9HJ (DV6DTEDM)	9HX (DV6ATED4)
XUJH	XWME	9HK (DV6ETED)	9HX (DV6AUTED4)
XUJK	XXCA	9HL (DV6C)	9HX (DV6TED4)
XUJL	XXCC	9HL (DV6CTED)	9HY (DV6TED4)

## Applications (continued)

Engine Codes			
9HZ (DV6TED4)	DV6EU (9HN)	HHJF	UBGA
BHS (DV6FDU)	DV6FC (BHX)	LDI/DV6FC	UBJA
BHV (DV6FDU)	DV6FC (BHZ)	LEK/B16DT	
BHW (DV6FE)	DV6FCU (BHX)	LEK/B16DTL	
BHX (DV6FC)	DV6FD (BHY)	LEK/DV6FD	
BHX (DV6FCU)	DV6FDU (BHS)	LTA/LTC	
BHY (DV6FD)	DV6FDU (BHV)	LTB	
BHZ (DV6FC)	DV6FE (BHW)	MTDA	
DV6ATED4 (9HX)	DV6TED4 (9HV)	NGCA	
DV6AUTED4 (9HX)	DV6TED4 (9HY)	NGDA	
DV6BTED4 (9HT)	DV6TED4 (9HZ )	NGDB	
DV6BTED4 (9HW)	DV6TED4B (9HS)	T1BA	
DV6BUTED4 (9HT)	DV6TED4B (9HV)	T1BB	
DV6C (9HC)	DV6UC (9HM)	T1BC	
DV6C (9HD)	DV6UTED4 (9HU)	T1DA	
DV6C (9HL)	G8DA	T1DB	
DV6C (9HR)	G8DB	T1GA	
DV6CM (9HG)	G8DC	T1WA	
DV6CTED (9HC)	G8DD	T1WB	
DV6CTED (9HL)	G8DE	T3CA	
DV6CTED (9HR)	G8DF	T3CB	
DV6D (9HP)	GPDA	T3CC	
DV6DTED (9HE)	GPDB	T3DA	
DV6DTED (9HF)	GPDC	T3DB	
DV6DTED (9HJ)	HHDA	T3JA	
DV6DTED (9HP)	HHDB	T3JB	
DV6DTEDM (9HJ)	HHJA	TZGA	
DV6DU M (9HH)	HHJB	TZGB	
DV6ETED (9HK)	HHJC	TZJA	
DV6ETED (9HN)	HHJD	TZJB	
DV6ETEDM (9HK)	HHJE	U3CA	

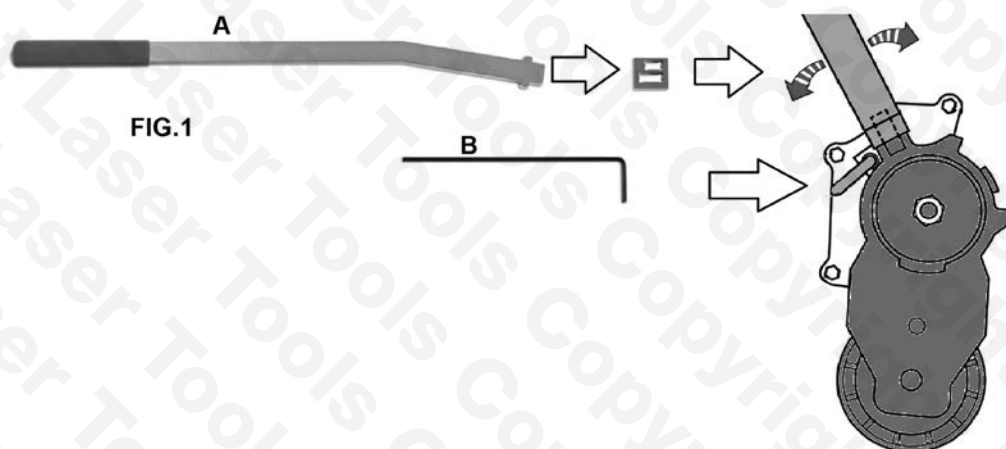
## Instructions

### Instructions for use:

- Always refer to manufacturer specific data and instructions.
- Support the engine from underneath where removal of an engine mounting is required.

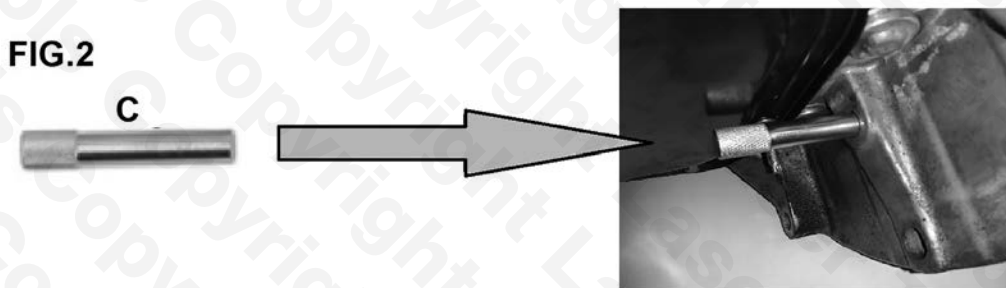
### Auxiliary Belt Removal (PSA/Pre- 2018 Ford tensioners) See figure 1.

NOTE: For post 2018 Ford engines please see Laser Part No. 6649 - tensioner tool.



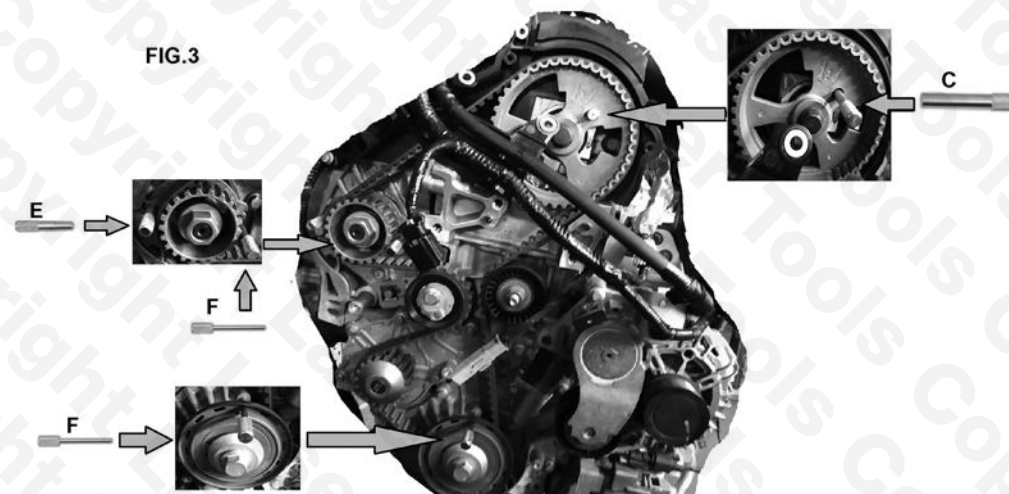
### Component C – Flywheel Locking Pin See figure 2.

NOTE: Some late model Ford applications do not use this pin and are not equipped with a suitable hole in the flywheel. For these models Laser recommend the use of Laser 4275 to lock the flywheel via the starter motor aperture.



## Instructions

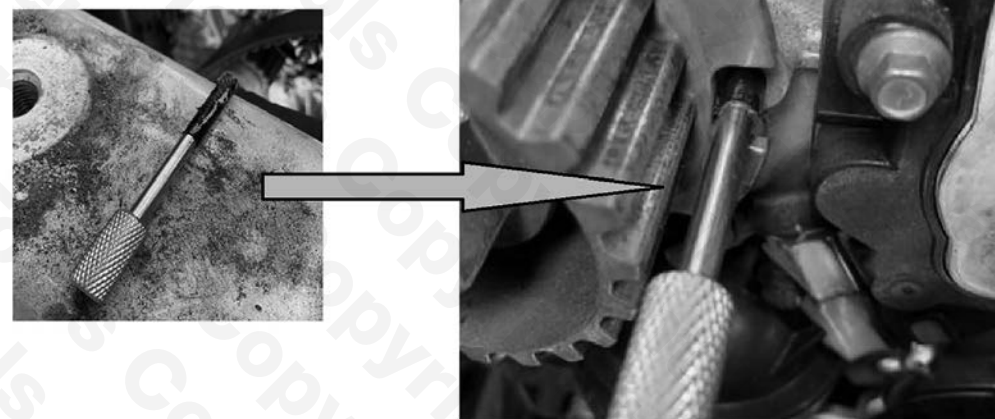
### Components E / D & F See figure 3.



Note: For fuel pump alignment Ford recommend for EURO 6 engines the use of Component F wrapped with tape on the right hand alignment hole when fitting the belt. See figure 4.

### FIG.4

#### Ford EURO VI



## 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.

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