

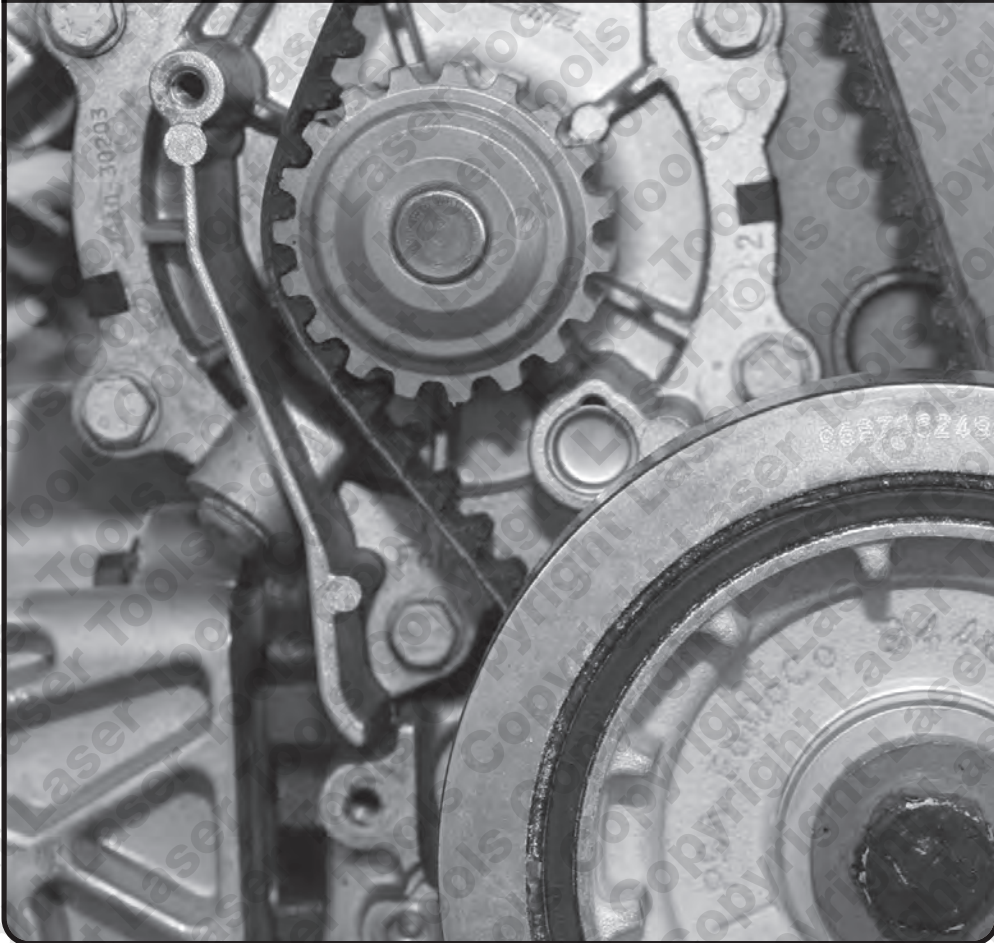
# LASER<sup>®</sup>

Part No. 4347

## Instructions

### Timing Tool Set

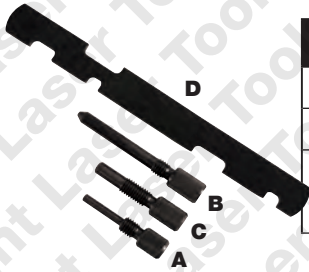
Ford Zetec



*Please refer to [www.lasertools.co.uk/toolpoint](http://www.lasertools.co.uk/toolpoint)  
to check the most up to date product applications.*

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

# Components



Ref.	Code	OEM Ref	Description
A	C035	21-210   303-507	Crankshaft Timing Pin
B	C036	21-163   303-574	Crankshaft Timing Pin
C	C311	21-259   303-748	Crankshaft Timing Tool
D	C312	21-162B   303-376   303-376B	Alignment Plate

# Applications

The application list for this product has been compiled cross referencing the OEM Tool Code with the Component Code.

In most cases the tools are specific to this type of engine and are necessary for cambelt or chain maintenance.

If the engine has been identified as an interference engine valve to piston damage will occur if the engine is run with a broken cambelt.

A compression check of all cylinders should be performed before removing the cylinder head.  
ALWAYS USE A REPUTABLE WORKSHOP MANUAL

Make, Model, Year			Engine Codes					
Ford	Cougar	1998 - 2001	<b>1.25 Belt</b>	FXDB	L1N	CGBA	<b>2.0 Chain</b>	
	Fiesta	1995 - 2017	DHA	FXDC	L1Q	CGBB	AOBA	
	Focus	1998 - 2014	DHB	FXDD	L1T	CHBA	AOBC	
	Fusion	2002 - 2012	DHC	FXJA	L1V	CHBB	AODA	
	Galaxy	2006 - 2015	DHD	FXJB	L1W	CSDA	AODB	
	C-MAX	2003 - 2010	DHE	FXJC	SHDA	CSDB	AODE	
	B-MAX	2012 - 2018	DHF	RTJA	SHDB	Q7DA	AOWA	
	S-MAX	2006 - 2015	DHG	RTJB	SHDC	QQDA	AOWB	
	Mondeo	1998 - 2015	F8JA	RTJC	B 4164 S3	QQDB	CJBA	
	Tourneo Connect	2002 - 2006	F8JB	RTJD	<b>1.8 Belt</b>	QQDC	CJBB	
	Transit Connect	2002 - 2006	FUJA	RTJE	EYDB	QQDD	N4JB	
	Transit	2006 - 2011	FUJB	SPJA	EYDC	QQDE	SYDA	
	Mazda	121	1995 - 2000	M7JA	SPJC	EYDD	L8	TBBA
2		2002 - 2007	M7JB	SPJD	EYDE	B 4184 S8	TBBB	
3		2003 - 2014	SNJA	SPJE	EYDF	B 4184 S11	TBWA	
5		2005 - 2015	SNJB	UTJA	EYDG	<b>2.0 Belt</b>	TBWB	
6		2002 - 2013	SNJC	<b>1.6 Belt</b>	EYDI	ALDA	LF	
MPV		2002 - 2005	SNJD	FYDA	EYDJ	EDBA	B 4204 S3	
MX-5		2005 - 2015	STJA	FYDB	EYDL	EDBB	B 4204 S4	
Tribute		2004 - 2006	STJB	FYDC	EYPA	EDBC	<b>2.3 Chain</b>	
Volvo		C30	2006 - 2013	STJC	FYDD	EYPC	EDBD	GZFA
		S40	2004 - 2012	STJD	FYDH	RKA	EDDB	GZFB
	S80	2007 - 2011	<b>1.4 Belt</b>	FYJA	RKB	EDDC	GZFC	
	V50	2004 - 2012	ASDA	FYJB	RKF	EDDD	SEBA	
	V70	2007 - 2011	ASDB	FYJC	RKH	EDDF	SEWA	
			FHA	HWDA	RKJ	HMDA	L3	

Always refer to the website for most up to date applications: [www.lasertools.co.uk/product/4347](http://www.lasertools.co.uk/product/4347)

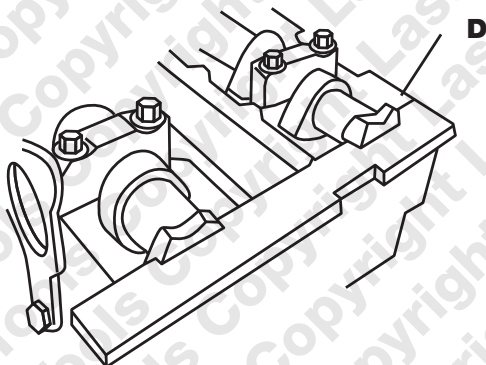
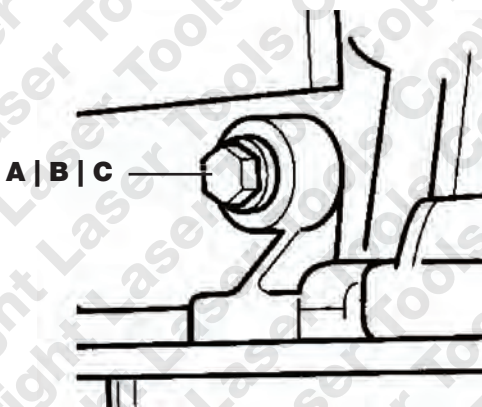
# Instructions

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.



1. Camshaft Setting / Locking Plate is used to accurately align a datum slot, located in the end of the camshafts. The various slots cut into the edge of the plate permit clearance around adjacent parts.
2. Follow the service manual instructions to remove the camshaft cover and timing belt cover.
3. Turn engine in the normal direction of rotation until the camshaft setting/locking plate can be inserted into the machined slot in the end of the camshaft.
4. Crankshaft TDC Location Pin is designed to screw into the cylinder block and provide a stop for the crankshaft to be positioned against to set the TDC position.
5. Turn the engine in the normal direction of rotation until the timing mark on the injection pump sprocket lines up with the cast lug on the timing cover.
6. Remove the plug from the cylinder block access hole and screw in the TDC location pin.
7. Slowly turn the crankshaft clockwise until the web makes contact with the end of the pin. Number 1 cylinder is now set at TDC on ignition stroke.



## 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.



4347\_Instructions\_V3



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### Guarantee



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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.

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