

Part No. 6191

# LASER®

## Front Crankshaft Oil Seal Fitting Tools

for Ford, JLR

### Instructions



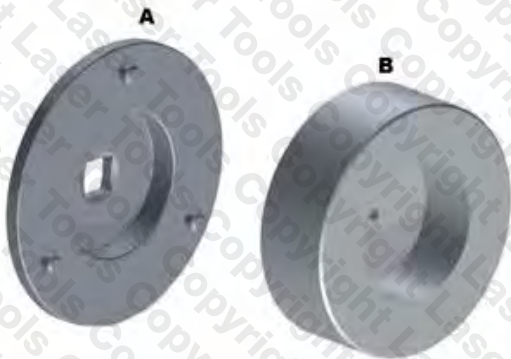
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## Introduction

Developed specifically for the 2.0, 2.2, 2.4 & 3.2 Ford TDCi Duratorq engines found in Transit, Ranger and Mondeo models. The 2 components are required when the front crank seal is replaced and when the front engine cover is removed.

- For use on Duratorq engines.
- Applications: Ford Transit, Ranger (with 2.0, 2.2, 2.4, 3.2 TDCi/TDDi engines), plus Jaguar X Type X400 & Land Rover Defender.
- This kit is required when you replace the crank seal and when you remove the front engine cover to replace the chain.
- Equivalent to OEM 303-679A, 303-682.

## Components



Ref.	Component Code	OEM Ref	Description
A	C274	303-679A	Crankshaft front oil seal and diesel pump sprocket cover remover and installer
B	C663	303-682	Engine Front Cover Alignment Tool

## Applications

Make, Model, Year			Engine Size
Ford	Mondeo	2000 - 2007	2.0 TDCi
	Ranger	2011 - on	2.2 TDCi
	Transit	2006 - 2019	2.4 TDCi
	Transit/Tourneo Custom	2012 - 2016	3.2 TDCi 2.0 Di 2.4 Di

Engine Codes			
ABFA	DRFC	HJBB	QWFA
CVRA	DRFE	HJBC	SA2R
CVRB	DRRA	JXFA	SA2S
CYFA	DRRB	JXFC	SA2W
CYFB	F3FA	N7BA	SAFA
CYFC	F4FA	N7BB	SDBA
CYRA	FIFA	P8FA	SRFA
CYRB	FMBA	P8FB	SRFB
D2FA	FMBB	PGFA	SRFC
D2FB	FXFA	PGFB	SRFD
D3FA	GBVAJQF	PHFA	SRFE
D4FA	GBVAJQJ	PHFC	UHFA
D5BA	GBVAJQW	QJBA	UHFB
D6BA	H9FA	QJBB	USRA
DOFA	H9FB	QJBC	USRB
DRFA	H9FD	QJBD	
DRFB	HJBA	QVFA	

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

**[www.lasertools.co.uk/product/6191](http://www.lasertools.co.uk/product/6191)**

## Instructions

### Component A

Component A serves two functions. It is designed to remove the diesel pump sprocket cover to allow access to the pump sprocket without disturbing the engine front cover, and it is used to allow the front crankshaft oil seal to be removed and fitted.

Please note the front oil seal on these engines is held in by use of a bayonet type fixing.

To remove the seal remove the front pulley and use **A** to wind the seal out.

See Fig. 1 & 2.

The new seal is supplied with an internal seal lip protector. This protector should be left in place to allow the seal to be guided over the end of the crankshaft with out damaging the seal lip.

The seal fitting tool is used to wind the old seal out and the new seal in. The front cover has no dowel pins so if you do not align it properly the crank seal will fail very quickly. The alignment tool is used to align the cover.

## Instructions

### Component B

The front covers on the engines listed are a pressed tin component that is not fitted with dowel pins to position it. This means it must be carefully positioned to ensure the front seal is centralised on the crankshaft.

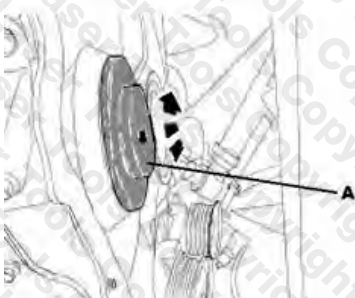
If the seal is not centralised it will fail.

Component B is used to align the front camshaft chain cover prior to fitting the new front oil seal.

Figure 1



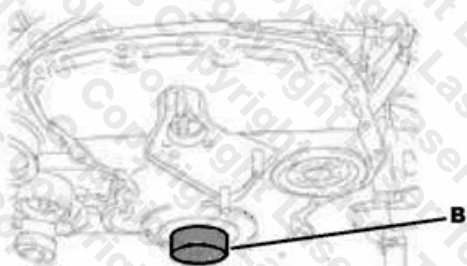
Figure 2



## Instructions

With the front cover loose and new gasket material installed use **B** on the end of the crankshaft to position the cover and maintain the covers position while the cover fixings are tightened. See Fig. 3.

Figure 3



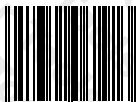
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