Part No. 8288

LASER®

Injector Extractor Set

Ford EcoBlue 2.0L Diesel

Instructions

UK REGISTERED DESIGN

MADE IN SHEFFIELD

www.lasertools.co.uk

Introduction

The Laser 8288 injector puller set has been designed to pull out the Ford EcoBlue diesel injector in one piece.
Previously the EcoBlue injectors could only be removed if the fuel return connection and Piezo head where removed by breaking them off rendering the injector unusable.
This set allows the injectors to be pulled out without needing to break the injector first.

NOTE: if the injectors are badly seized and will not pull out then then see Laser 7912.

- For extracting diesel injectors in one piece, allowing them to be refitted.
- Applications include: Ford Edge, Focus, Galaxy & S-Max (from 2018), Kuga, Mondeo & Ranger (from 2019), Tourneo & Transit (from 2016).

Engine applications include: 2.0L EcoBlue diesel engines.

- Equivalent to OEM 303-1706.

Applied torque must not exceed 250Nm.

Always lubricate the puller force screw with Molybdenum Disulphide Grease.

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 tool is purely down to the user's discretion and The Tool Connection Ltd. cannot be held responsible for any damage caused what so ever.

Components

Ref.	OEM Ref.	Description
A	303-1706	Injector Removal Clamp 1 of 2
B		Extractor Boss
C		M16 Force Screw
D		Injector Removal Clamp 2 of 2
E		Clamp Bolt (use with A+D) 60Nm max.
F		Bearing Assembly
G		Puller Top Plate
H		Puller Support Legs
I		M16 Machined Washers
J		M12 Nuts + M12 Washers
K		M16 Force Screw Nut, 250Nm max.

Spare parts kits available:

Laser 61750 - Injector Clamp Set includes A/D/E

Laser 61749 - Treaded Force Screw Kit includes B/C/F/K

Applications

Make, Model, Year			Engine Codes				
Ford	Edge	2018 on	2.0L	BJFC	BLFC	YLFA	YMFS
	Focus	2018 on	BC2X	BJFD	BLFD	YLFB	YMHA
	Galaxy	2018 on	BCCA	BJRA	BLHA	YLFS	YMR6
	Kuga	2019 on	BCCB	BJRB	BLRA	YLR6	YMRA
	Mondeo	2019 on	BCCC	BKFA	BLRB	YLRA	YN2X
	Ranger	2019 on	BCCD	BKFB	YL2X	YMCA	YNCA
	S-MAX	2018 on	BCDA	BKFC	YLCA	YMCB	YNF6
	Tourneo Custom	2016 on	BCFA	BKFD	YLCB	YMCC	YNFA
	Transit	2016 on	BCFB	BKRA	YLCC	YMDA	YNFB
	Transit Custom	2016 on	BCRA	BKRB	YLDA	YMF6	YNFS
			BJFA	BLFA	YLDC	YMFA	YNR6
			BJFB	BLFB	YLF6	YMFB	YNRA

Always refer to the website for most up to date applications:
www.lasertools.co.uk/product/8288

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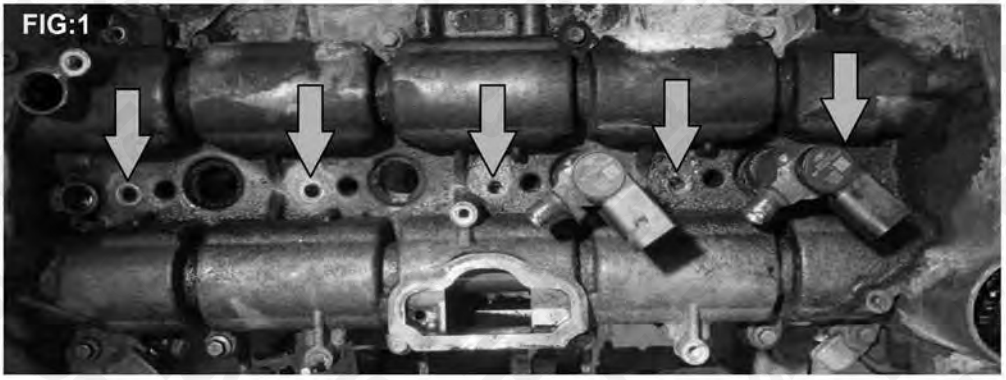
8288 methods of use:

(NOTE:) When applying the pulling force always use a torque wrench set to 250Nm

Extraction:

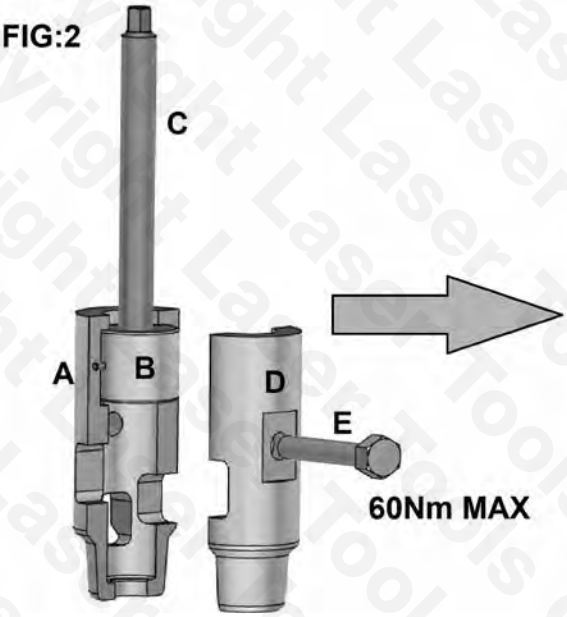
Before puller assembly, remove the camshaft cover fixing bolts that run along the centre line of the engine as shown in Figure 1. The puller support legs will be placed over the mounting holes.

FIG:1



Assemble components **A**, **B**, **C** & **D** around the top of the injector as shown in Figure 2. Hand tighten the clamp bolt (**E**) and check that the injector electrical connector and fuel return pipe are positioned as shown. Check that the force screw (**C**) is fully screwed in to the extractor boss and tighten the clamp bolt (**E**) to 60Nm.

FIG:2

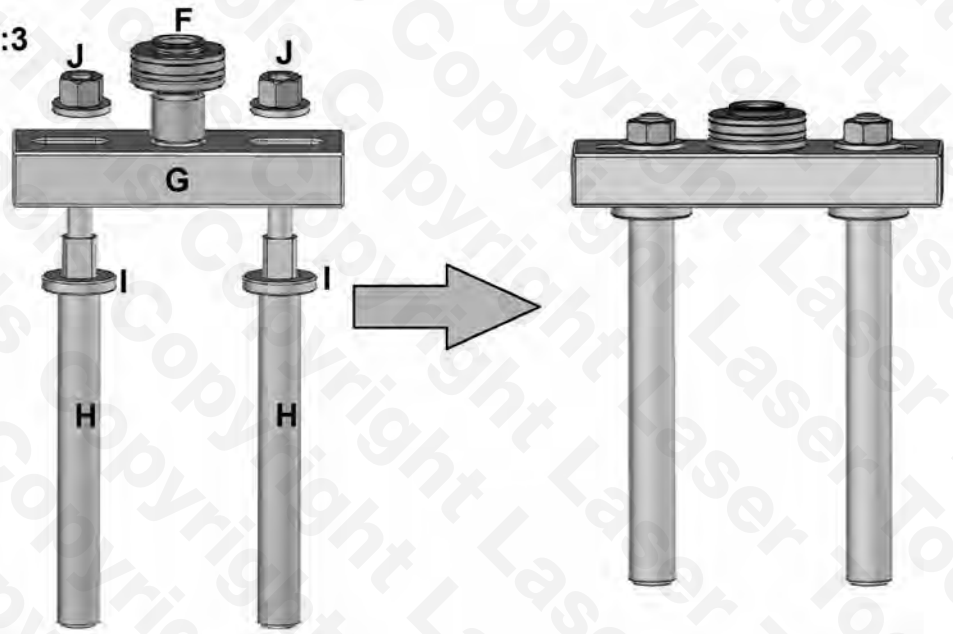


Instructions

Assemble components **F**, **G**, **H**, **I** & **J** as shown in Figure 3. Leave the M12 nuts loose.

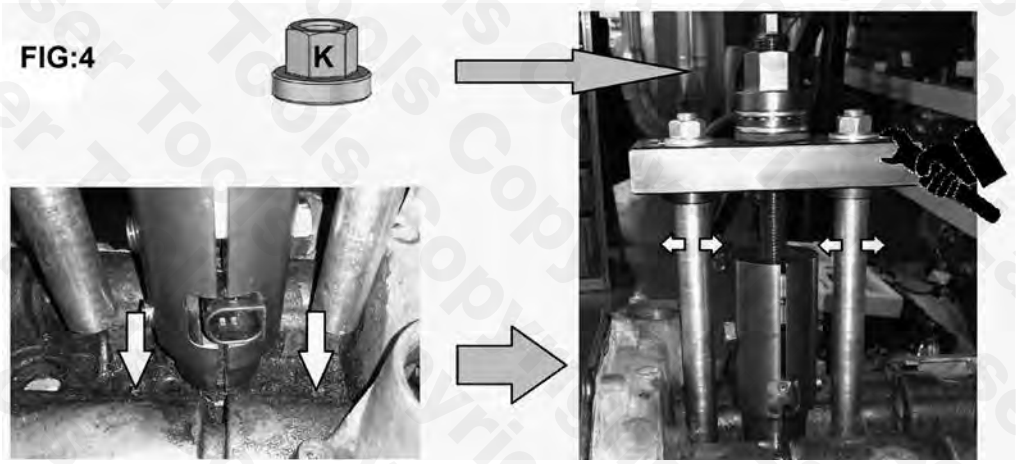
Ensure the machined M16 washers (**I**) are placed on the support legs (**H**) first so they sit under the puller top plate (**G**).

FIG:3



Place the assembled puller frame over the top of the injector clamp assembly. Position the puller support legs (**H**) so they rest over the camshaft cover centre mounting holes as shown in Figure 4 and tighten the M12 nuts (**J**).

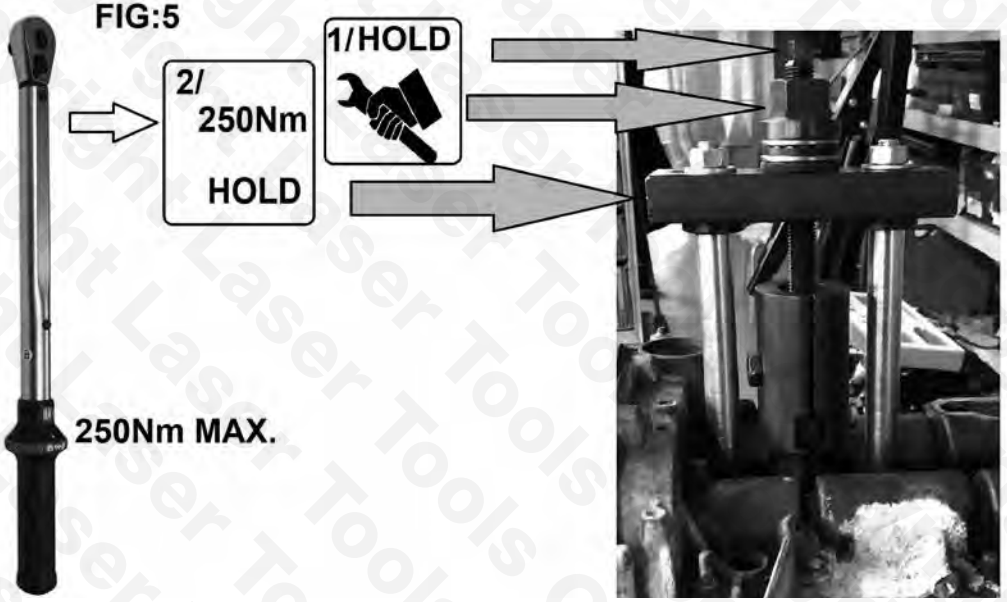
Lubricate the M16 force screw (**C**) with molybdenum disulphide grease and screw the M16 force screw nut (**K**) down till it contacts the force screw bearing (**F**) as shown in Figure 3.



Gradually tighten the force screw nut by hand using a suitable spanner while holding the force screw with a second spanner. As the load increases a socket and torque wrench can be used with the wrench set to a **maximum of 250Nm**. When using a torque wrench ensure the puller assembly is held upright by holding across the puller top plate (**G**). See Figure 5.

Warning: If the injector will not pull out at 250Nm then the injector is too badly stuck to pull in one piece and Laser recommend the use of the puller system 7912.

Badly corroded and stuck injectors may break above 200Nm. Laser tools cannot be held responsible for any damage caused by badly stuck injectors.



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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.

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