

LASER[®]

Part No. 7958

Torque Multiplier Adaptor

Ford Ecoblue 2.0 Diesel

Instructions



www.lasertools.co.uk

Introduction

The Ford 2.0lt EcoBlue Bi-Turbo Diesel engines used across the Ford range from 2016 on use stretch bolts to attach the cylinder head which require the use of a torque multiplier.

The Laser 7958 Torque Multiplier Adaptor has been specifically design to allow the Laser 7318 torque multiplier to be used to tighten the head bolts correctly.

NOTE: removal of the cylinder head on the EcoBlue 2.0lt diesel requires removal of the injectors and cam carrier. For removal of stuck injectors use Laser 7912 Injector Extraction Kit – Ford EcoBlue 2.0lt Diesel.

- For use with Laser 7318 torque multiplier only.
- Allows correct application of torque and angle to the EcoBlue 2.0lt head bolts. Includes 17mm Hex and M12 Ribe impact sockets.
- Applications include: Ford Focus (from 2018), Galaxy (from 2018), Ranger (from 2019), SMAX (from 2018), Tourneo Custom (from 2016), Transit (from 2016), Transit Custom (from 2016), Edge (from 2015), Kuga (from 2019).
- Engines: All 2.0lt EcoBlue Diesel engines.
- Equivalent to OEM 303-1611-03 (use with Laser 7318 torque multiplier only).

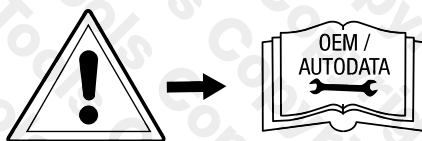
Components



Ref.	Description	
A	303-1611-03/4	Impact $\frac{3}{4}$ " to $\frac{1}{2}$ " drive Adaptor
B		17mm Deep Impact Socket
C	422 1140 001 00	M12 RIBE Impact Socket
D	303-1611-03/1	Torque Multiplier Reaction Tool

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles 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.



Instructions

Make, Model Year			Engine Codes	
Ford	Focus	From 2018	2.0L	YLFA
			BC2X	YLFB
	Galaxy	From 2018	BCCA	YLFS
			BCCB	YLR6
	Ranger	From 2019	BCCC	YLRA
			BCCD	YMCA
	S-Max	From 2018	BJFA	YMCB
	Transit Custom	From 2016	BJFB	YMCC
			BJFC	YMF6
	Transit	From 2016	BJFC	YMFA
			BJRA	YMF6
			BJRB	YMF6
			BKFA	YMH6
			BKFB	YMR6
			BKFC	YMR6
			BKFD	YN2X
			BKRA	YNCA
			BKRB	YNF6
			BLFA	YNFA
			BLFB	YNFB
			BLFC	YNFS
			YLCC	YNR6
			YLDA	YNRA
			YLF6	

Instructions

Tightening Cylinder Head Bolts:

Preparation:

- In order to access the head bolts the injectors and cam carrier must be removed.
- New bolts must be fitted. The bolts used are stretch bolts that require the torque multiplier to fit.
- Ensure the injector apertures are clean and free from debris.

NOTE: use 7958 is designed for use with Laser 7318 torque multiplier only.

Instructions

The Ford OEM torque procedure must be followed. The following is provided as an example only please check vehicle specific OEM data.

1. Using a suitable torque wrench tighten all the bolts as follows in the order shown in **figure 1**.

- 15 Nm all bolts.
- 25 Nm all bolts
- 40 Nm all bolts

NOTE: Mark each bolt with a suitable marker pen so the angle turned is easy to see.



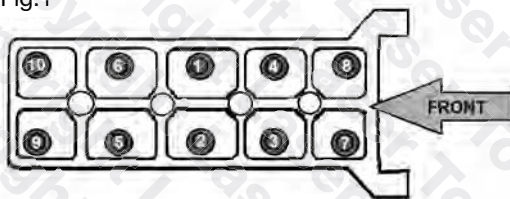
- $90^\circ =$  at the bolt. All bolts.
- $90^\circ =$  at the bolt. All bolts

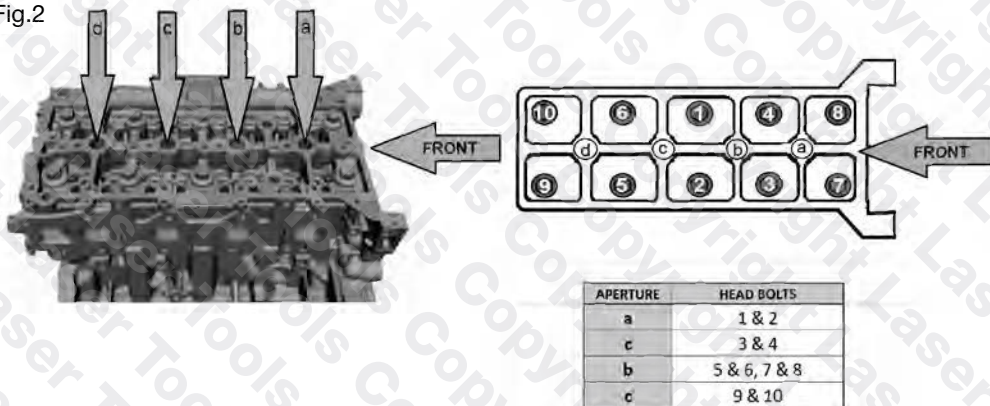
Fig.1



Due to the force required the next 2 stages must be done using the 7958 and 3718 combination described on the next page.

Instructions

Fig.2



2. The 7958 adaptor is designed to be attached to the engine by inserting the lower end of the vertical shaft in to one of the injector apertures (marked **A** to **D** in **figure 2**).

The Table in **figure 2** shows which head bolt can be tightened from each aperture.

3. Assemble the 7958 and 3718 using the drive adaptor (**A**) in combination with the socket (**B**) or Ribe socket (**C**) as required as shown in **figure 3**. Tighten all the bolts 2 more stages of 90 degrees each (at the bolt) using a suitable knuckle bar as shown in the order shown in **Figure 2**.



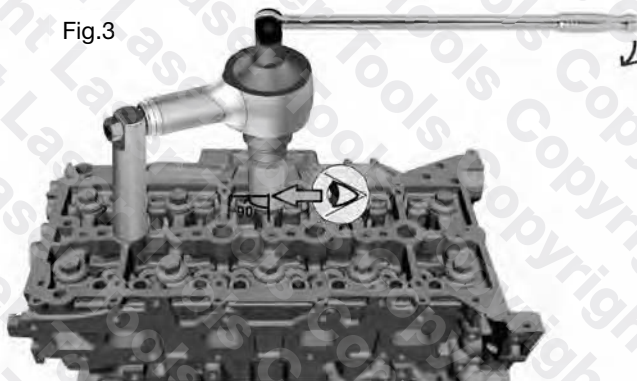
- 90° =  at the bolt. All bolts.
- 90° =  at the bolt. All bolts

Fig.3



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.



Safety First. Be Protected.



5 018341 079581 >

7958_Instructions_V2



When you have finished with this product please recycle it

www.lasertools.co.uk



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

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.

www.lasertools.co.uk