

2015.0 F-TYPE (X152), 303-01

ENGINE - V6 S/C 3.0L PETROL

## CAMSHAFT LH (G1584100)

### REMOVAL AND INSTALLATION

12.13.01	CAMSHAFT - ENGINE SET - RENEW	3000 CC, AJ V6 (AJ126)	20.1	USED WITHINS	
12.13.19	CAMSHAFT - BANK 2 SET - RENEW	3000 CC, AJ V6 (AJ126)	17.8	USED WITHINS	

### REMOVAL

#### ⓘ CAUTION:

Make sure that the orientation and code on the top of the camshaft bearing caps is noted (along with the bank - A or B), so that on installation the components are installed to their original position. Failure to follow this instruction may cause damage to the vehicle.

## NOTES:

- Removal steps in this procedure may contain installation details.
- Some variation in the illustrations may occur, but the essential information is always correct.
- Some illustrations may show the engine removed for clarity.

1. Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).

## 2. WARNING:

Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

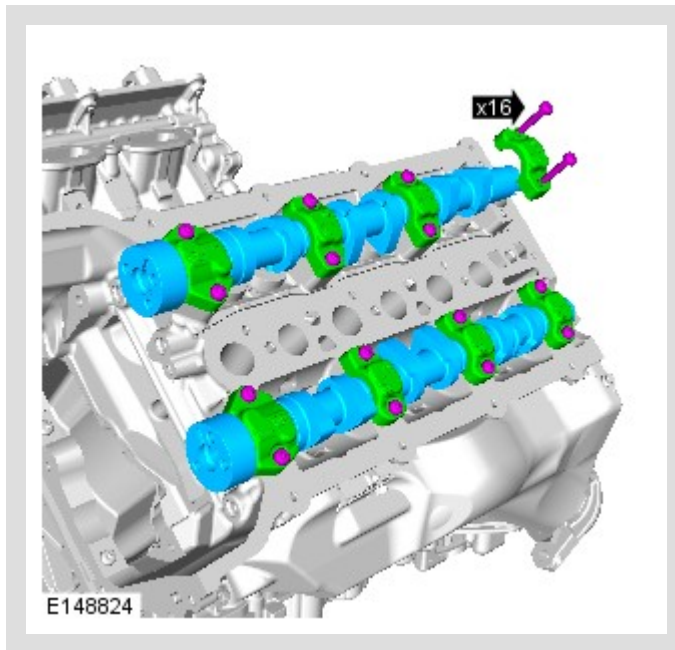
3. Refer to: [Timing Drive Components](#) (303-01A Engine - V6 S/C 3.0L Petrol, Removal and Installation).

## 4. CAUTIONS:

- Rotate the camshafts until all the valves are at their minimum open point.
- Evenly and progressively, release the camshaft bearing caps.

**NOTE:**

Remove the camshaft bearing caps. Note: their position, orientation and markings. Each is marked with its position (number) and an orientation (arrow).



## INSTALLATION

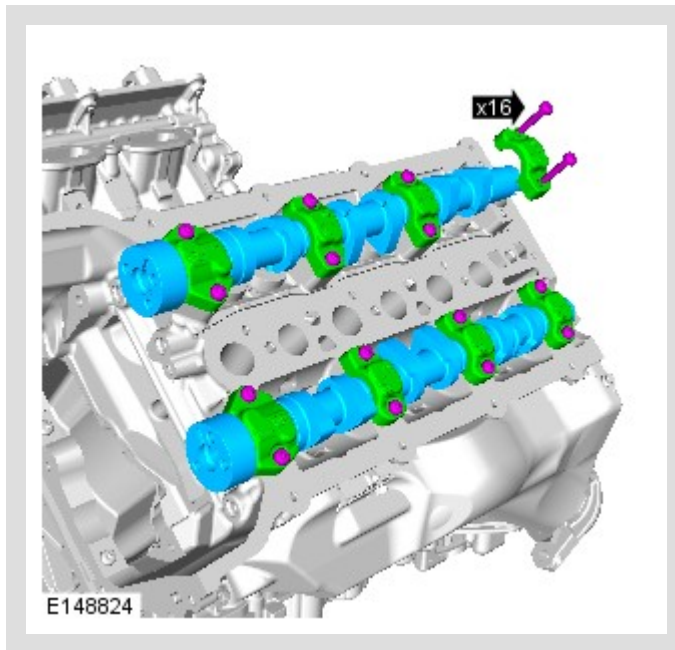
1.

**CAUTIONS:**

- Prior to installing the camshafts, position the crankshaft 45 degrees ATDC cylinder 1A to prevent valve/piston collision.
- Make sure that the camshafts and camshaft bearing caps are installed in their original locations.
- Evenly and progressively install and tighten the camshaft bearing caps.

 **NOTE:**

Lubricate the camshafts and the camshaft bearing caps with EP90 oil (or 75/90 viscosity oil will suffice) prior to installation.

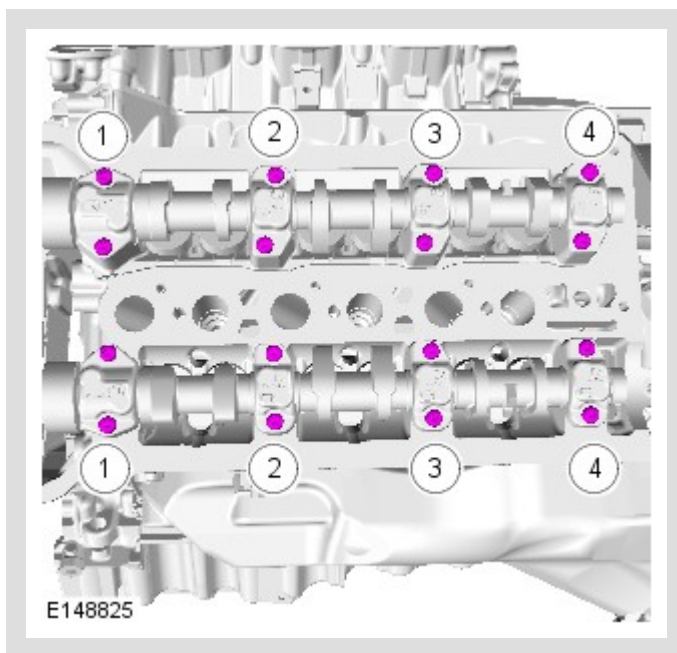


*Torque: 3 Nm*

2.

 **NOTE:**

Tighten the bolts in the indicated sequence.



*Torque: 12 Nm*

3.

⚠ **CAUTION:**

Only rotate the crankshaft clockwise.

Rotate the crankshaft until the camshaft lobe on the valve being checked is 180 degrees from the maximum opening position.

4.

 **NOTE:**

If the valve clearance is incorrect, continue to the next step. If the valve clearance is correct, continue to step 8.

Using feeler gauge check the gap between the tappet and the camshaft lobe and check against specifications table.

5.

 **CAUTIONS:**

- Do not use a magnet to remove the tappet.
- Use the following formula to calculate the required bucket thickness. Original thickness + measured clearance - desired clearance = required bucket thickness.

Remove the tappet and measure the thickness.

6.

 **NOTE:**

If a new tappet is installed then go back to step 1 of the install procedure.

Install a new tappet if required.

7.

Using feeler gauge check the gap between the tappet and the camshaft lobe and check against specifications table.

8.

Refer to: [Timing Drive Components](#) (303-01A Engine - V6 S/C 3.0L Petrol, Removal and Installation).

9.

Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).