

PUBLISHED: 24-JAN-2020
2020.0 DEFENDER (LE), 303-01C

ENGINE – INGENIUM I6 3.0L PETROL

CRANKSHAFT REAR SEAL (G2344458)

REMOVAL AND INSTALLATION

12.21.20	CRANKSHAFT REAR OIL SEAL – RENEW	2000 CC, INGENIUM DIESEL	9.90	USED WITHINS	
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SPECIAL TOOL(S)



100-012

Slide Hammer



JLR-303-1674

Installer - Rear Crankshaft Oil Seal



E221375

JLR-303-1674A

Installer - Rear Crankshaft Oil Seal



E258652

JLR-303-1712

Remover, Rear Crankshaft Seal

GENERAL EQUIPMENT

EQUIPMENT NAME
Electric drill

REMOVAL

ⓘ CAUTION:

Before disconnecting any components, make sure the area is clean and free from foreign material. When disconnected all openings must be sealed.

△ NOTES:

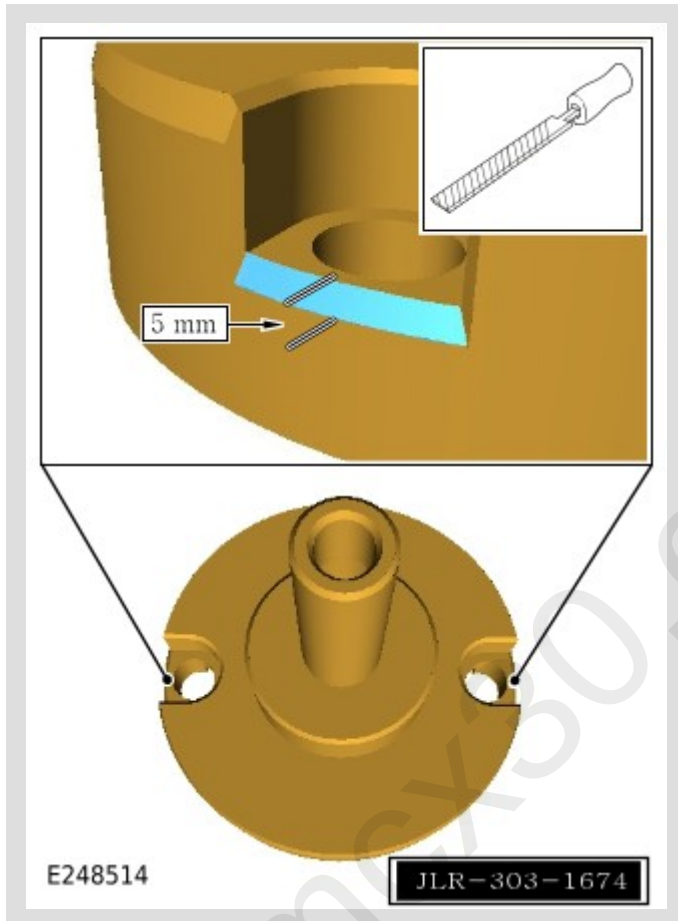
- This procedure contains illustrations showing certain components removed to provide extra clarity.

- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.

1.

⚠ CAUTION:

Failure to follow this step may result in damage to the crankshaft rear oil seal.



The existing special tool JLR-303-1674 must be modified as illustrated before use.

Special Tool(s): [JLR-303-1674](#)

2. Disconnect the startup battery ground cable.

Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).

3. Raise and support the vehicle on a suitable 2 post lift.

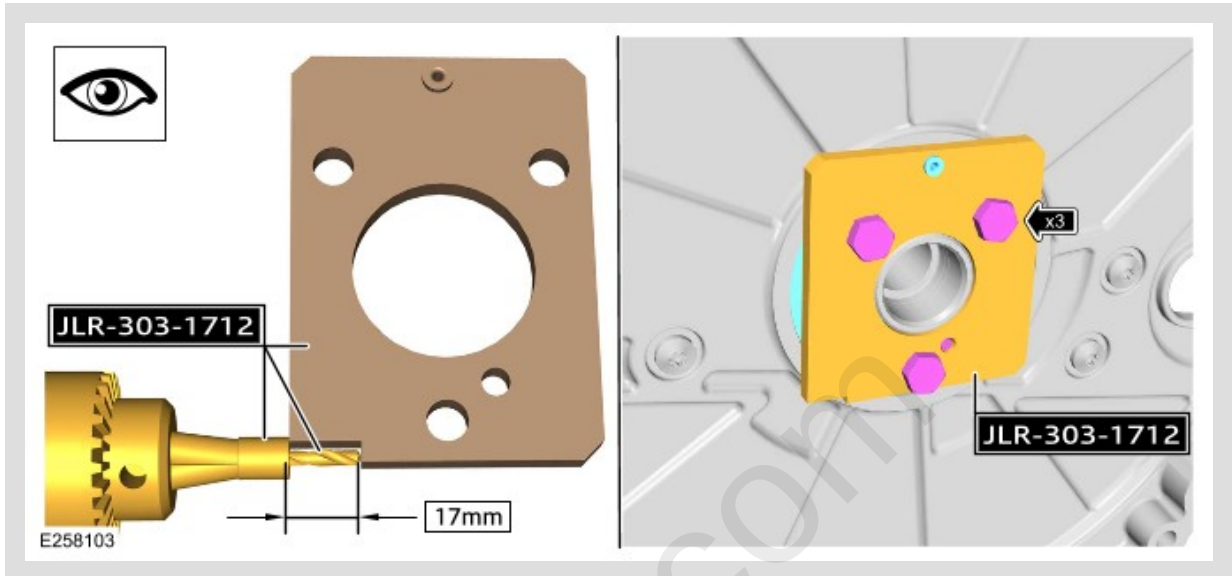
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).

4. Remove the drive plate.

Refer to: [Drive Plate](#) (303-01C Engine - INGENIUM I6 3.0L Petrol, Removal and Installation).

⚠ CAUTIONS:

- Make sure to align the special tool with the locating dowel.
- Make sure the protruding depth of the drill bit is double-checked after the tightening of the drill bit.
- Make sure the hole to be drilled is aligned in between 9 and 3 o'clock positions.



- Install the spacer to the drill bit and use the notch on the special tool to tighten the drill bit in the correct depth.

Special Tool(s): [JLR-303-1712](#)

General Equipment: [Electric drill](#)

- Install the special tool to the end of the crankshaft.

Special Tool(s): [JLR-303-1712](#)

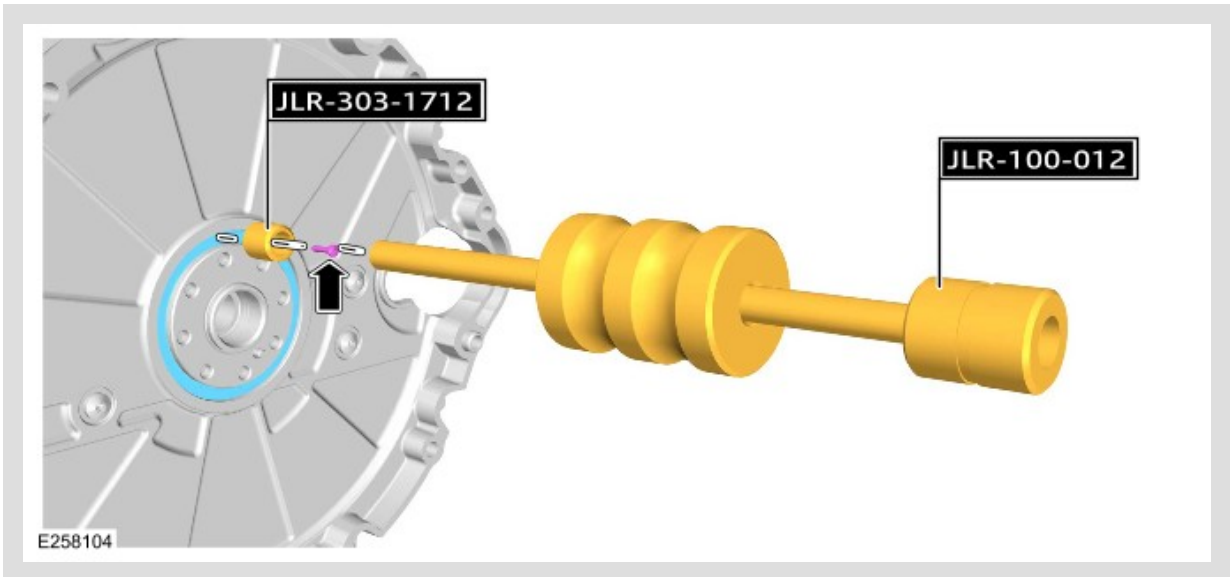
- Install and hand-tighten the 3 bolts.

Special Tool(s): [JLR-303-1712](#)

- Drill through the upper hole of the special tool.

Special Tool(s): [JLR-303-1712](#)

- Remove the special tool.

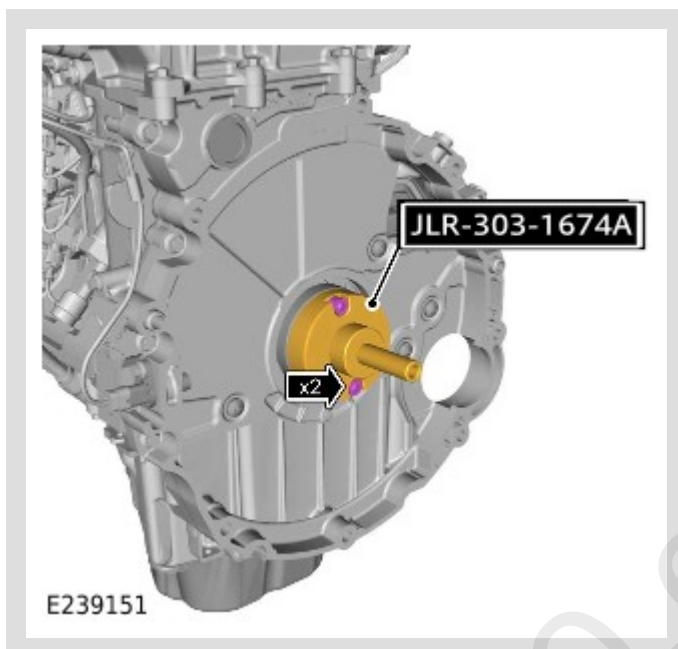


- Position the special tool as illustrated.
Special Tool(s): [JLR-303-1712](#)
- Install and hand-tighten the screw through the special tool.
- Install the special tool, and remove the rear crankshaft seal.
Special Tool(s): [100-012](#)

1.

⚠ CAUTION:

Make sure that the area around the component is clean and free of foreign material.

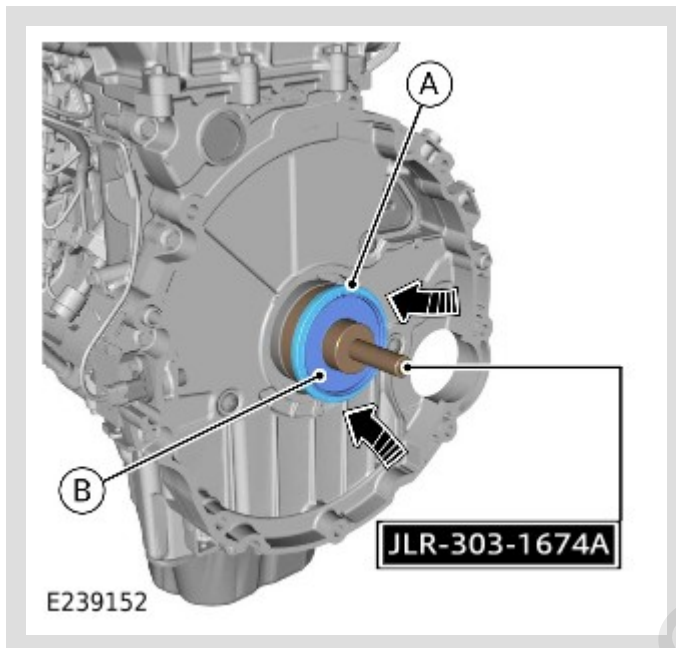


Install the special tool JLR-303-1674A to the crankshaft as illustrated.

Special Tool(s): [JLR-303-1674A](#)

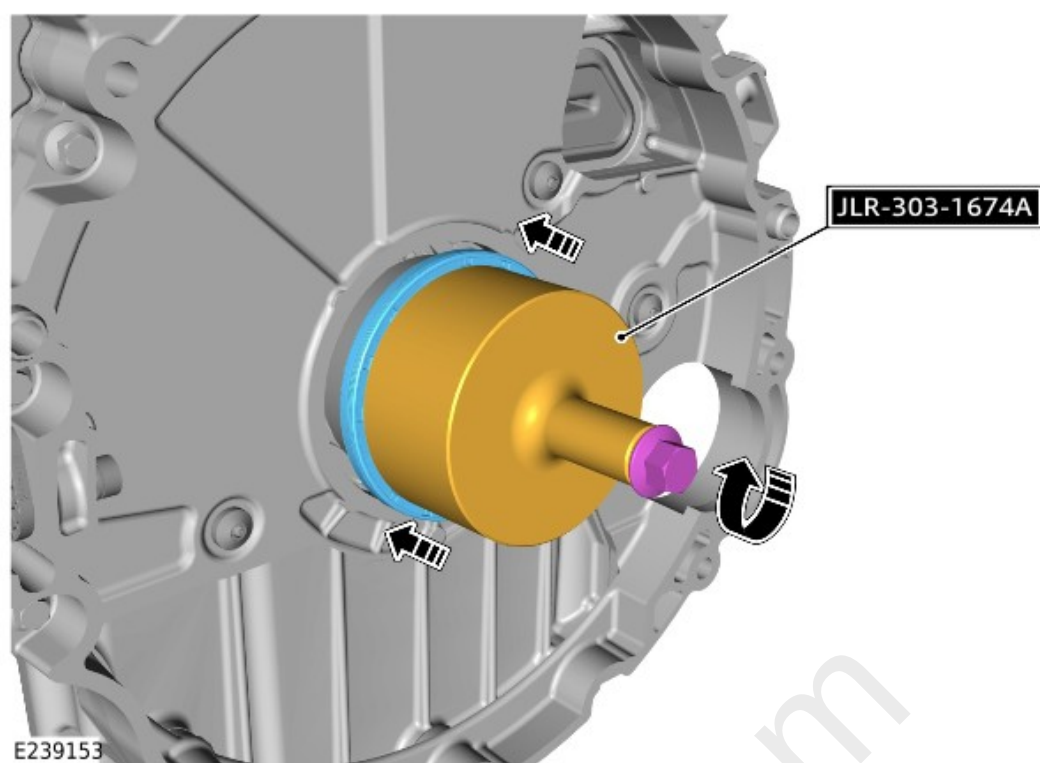
ⓘ CAUTION:

The crankshaft rear seal (A) and spacer (B) is one set of parts. If the new crankshaft rear seal is released from the spacer before a successful installation, a new crankshaft rear seal set must be installed.



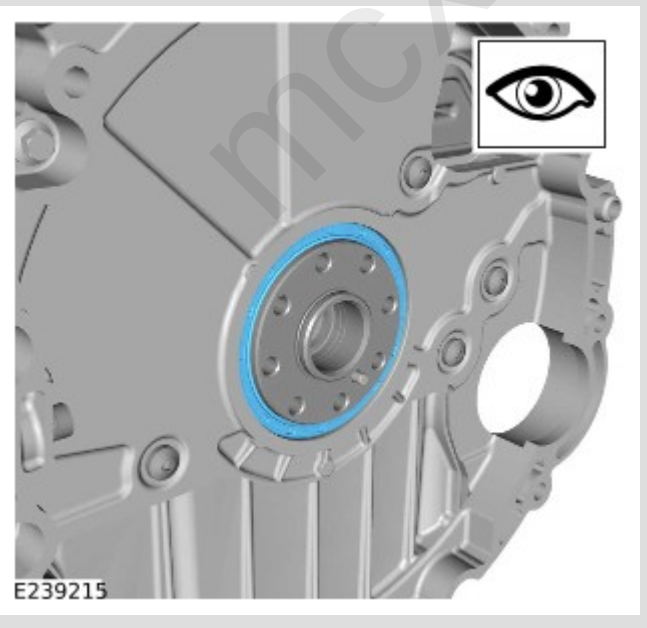
- Position the new crankshaft rear seal (A) and spacer (B) assembly to the special tool JLR-303-1674A as illustrated.
- Reposition the new crankshaft rear seal from the spacer to the special tool JLR-303-1674A.
Special Tool(s): [JLR-303-1674A](#)
- Discard the crankshaft rear seal spacer.

3.



- Use the special tool JLR-303-1674 adapter and bolt to fully install the crankshaft rear seal.
Special Tool(s): [JLR-303-1674A](#)
- Tighten the special tool JLR-303-1674A adapter bolt until the crankshaft rear seal is properly seated and the adapter bolt is fully inserted.

4.



- Remove the special tool.
Special Tool(s): [JLR-303-1674A](#)
- Make sure the crankshaft rear seal is properly installed.

5. Install the drive plate.

Refer to: [Drive Plate](#) (303-01C Engine - INGENIUM I6 3.0L Petrol, Removal and Installation).

6. Connect the startup battery ground cable.

Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).

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