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2020.0 DEFENDER (LE), 303-01C

ENGINE – INGENIUM I6 3.0L PETROL

LOWER TIMING COVER (G2344505)

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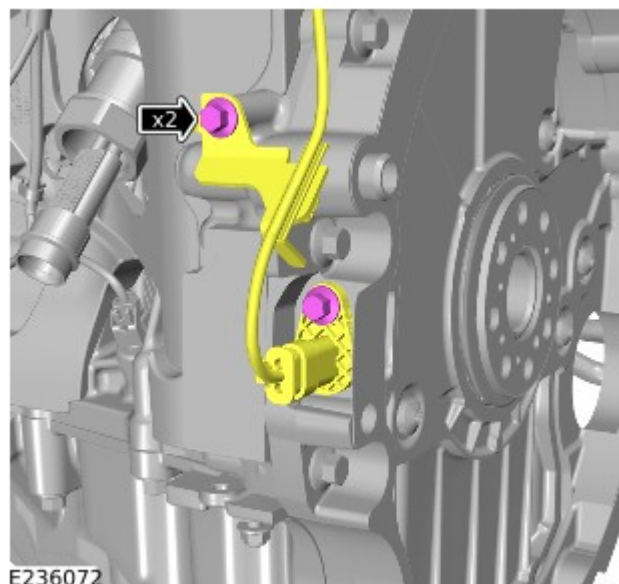
REMOVAL

**NOTE:**

- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.

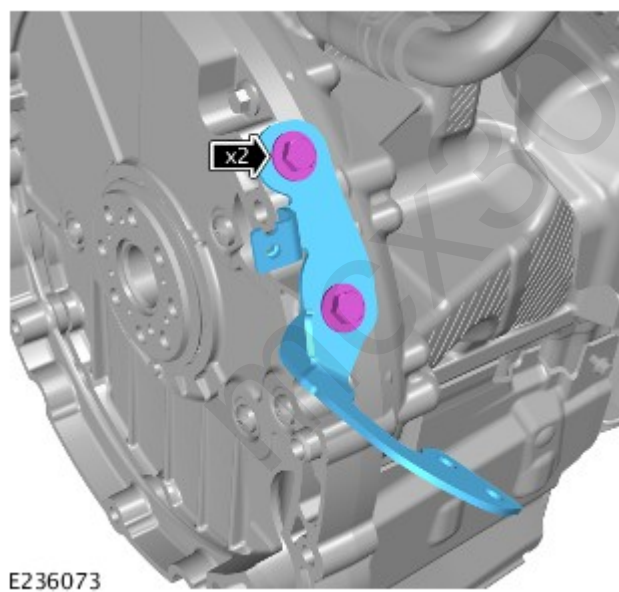
1. Raise and support the vehicle on a suitable 2 post lift.
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).
2. Disconnect the startup battery ground cable.
Refer to: [Startup Battery Disconnect and Connect](#) (414-00 Battery and Charging System - General Information, General Procedures).
3. Remove the crankshaft rear seal.
Refer to: [Crankshaft Rear Seal](#) (303-01C Engine - INGENIUM I6 3.0L Petrol, Removal and Installation).
4. Remove the starter motor.
Refer to: [Starter Motor](#) (303-06C Starting System - INGENIUM I6 3.0L Petrol, Removal and Installation).

5.



- Remove the 2 bolts.
- Remove the Crankshaft Position (CKP) sensor.

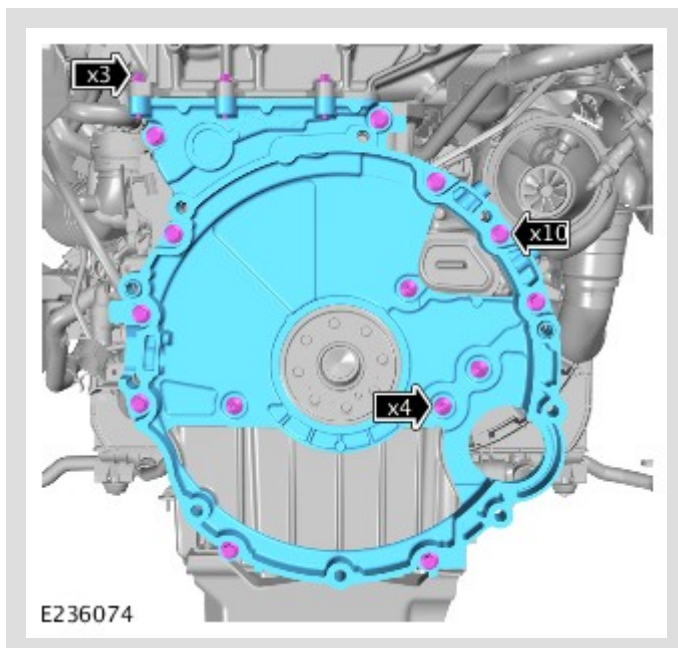
6.



- Remove the 2 bolts.
- Remove the bracket.

ⓘ CAUTION:

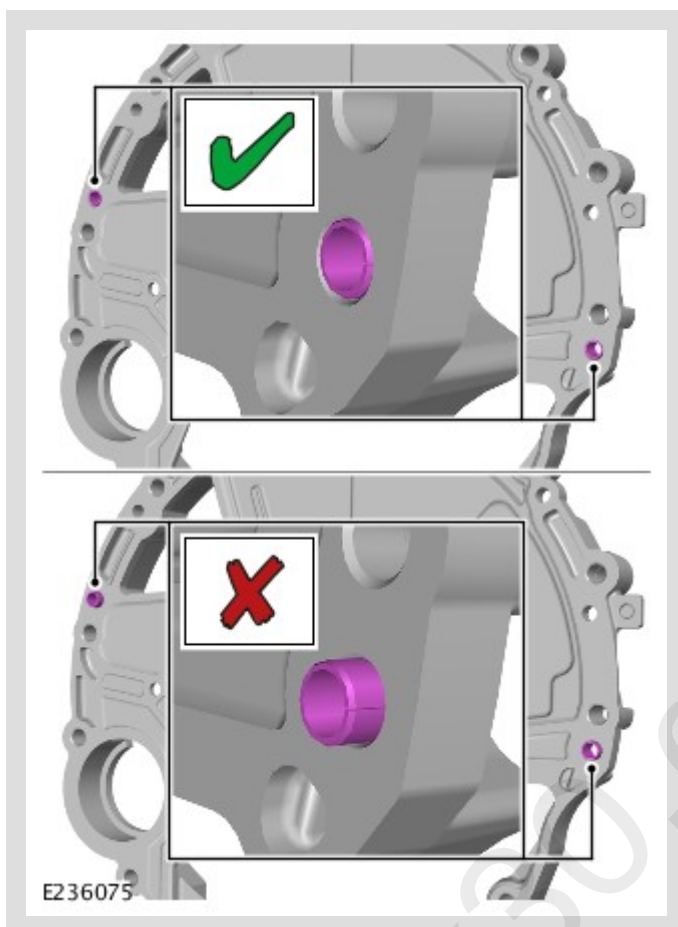
Take extra care not to damage the surrounding components.



- Remove the 17 bolts.
- Remove the lower timing cover.

ⓘ CAUTION:

Take extra care not to damage the surrounding components.



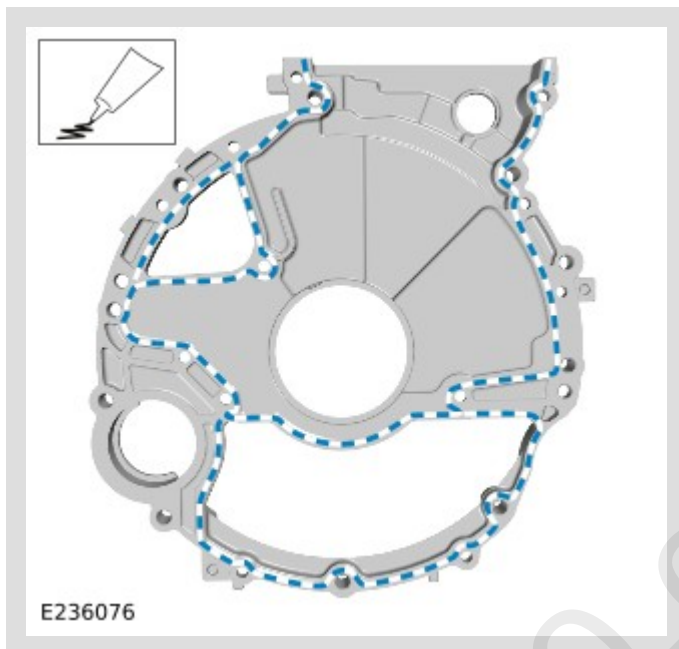
Using a suitable tool, position the dowels as shown in the illustration.

INSTALLATION

1.

⚠ CAUTION:

Make sure that the mating faces are clean and free of foreign material.



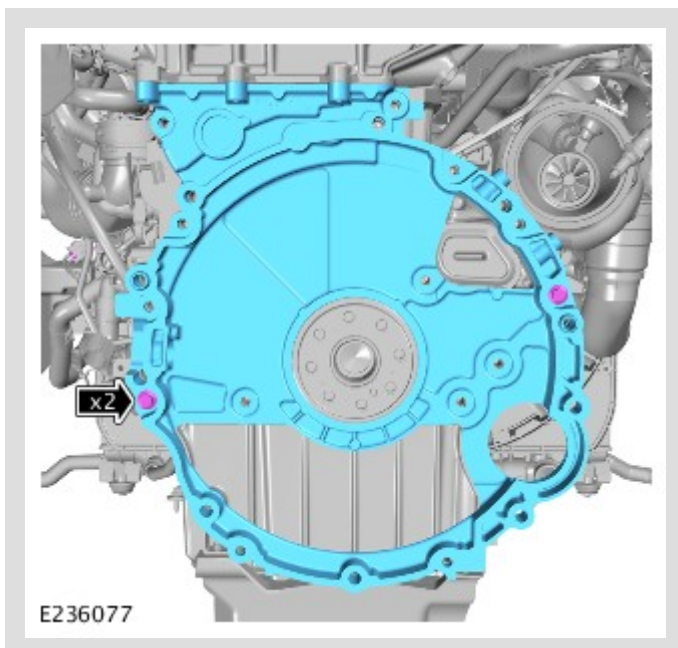
Apply a 3 mm diameter bead of sealant, to the area shown.

Refer to: [Specifications](#) (303-01C Engine - INGENIUM I6 3.0L Petrol, Specifications).

2.

⚠ CAUTION:

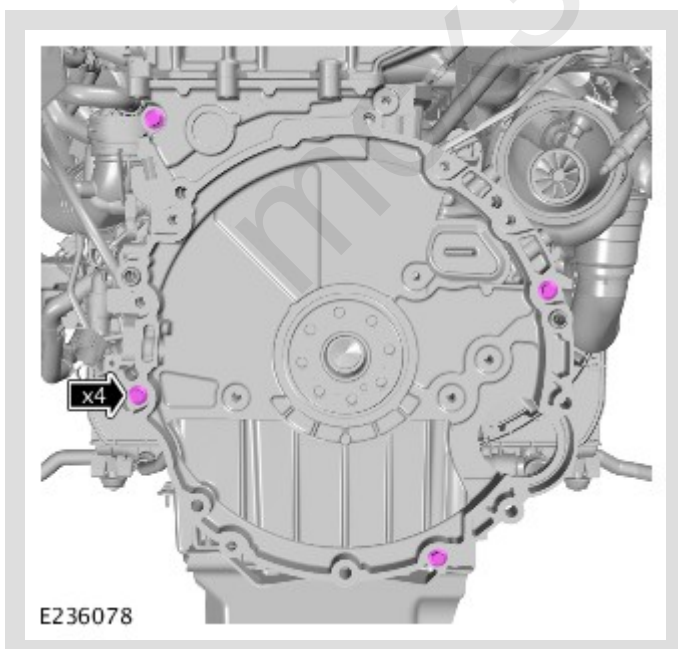
Take care not to damage the cylinder head gasket when installing the lower timing cover.



- Make sure the locating dowels are installed correctly.
- Tighten the 2 bolts to allow the dowels to be pushed into the correct position.

Torque: 5Nm

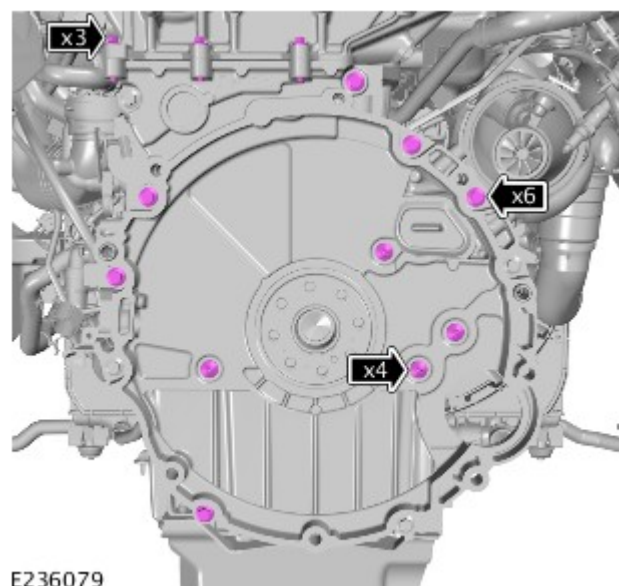
3.



Install 2 more bolts as illustrated and tighten the 4 bolts to the correct torque.

Torque: 25Nm

4.



Tighten the remaining 13 bolts to the correct torque.

Torque

M8 x 35 bolts: **25Nm**

M8 x 30 bolts: **25Nm**

M6 x 30 bolts: **12Nm**

5.

- Install the Crankshaft Position (CKP) sensor.
- Install and tighten the 2 bolts.

Torque: 8Nm

6.

Install the starter motor.

Refer to: [Starter Motor](#) (303-06C Starting System - INGENIUM I6 3.0L Petrol, Removal and Installation).

7.

Install the crankshaft rear seal.

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

8.

Connect the startup battery ground cable.

Refer to: [Startup Battery Disconnect and Connect](#) (414-00 Battery and Charging System - General Information, General Procedures).