

PUBLISHED: 04-MAY-2020
2020.0 DEFENDER (LE), 414-02C

GENERATOR AND REGULATOR - INGENIUM I6 3.0L PETROL

BELT INTEGRATED STARTER GENERATOR (G2416286)

mcx30.com

SPECIAL TOOL(S)



E218664

303-1191

Torque extension

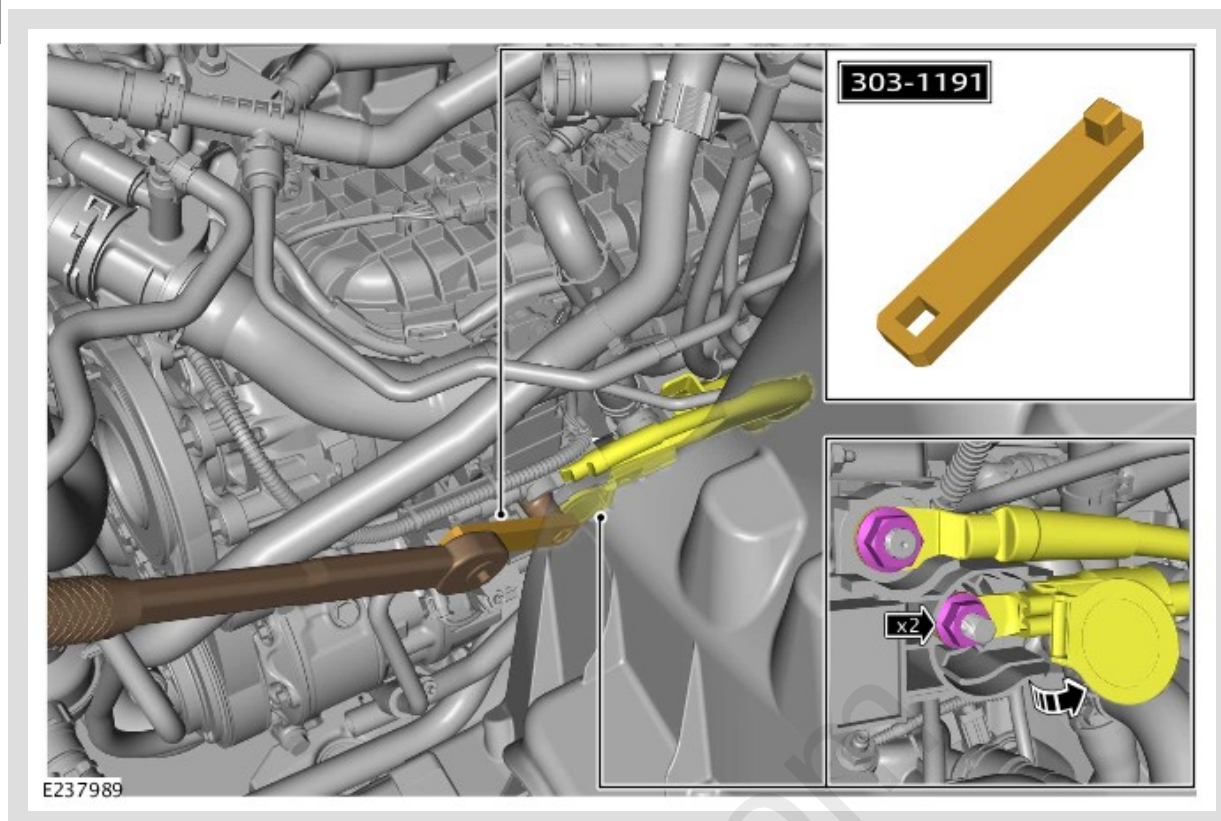
REMOVAL

**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.

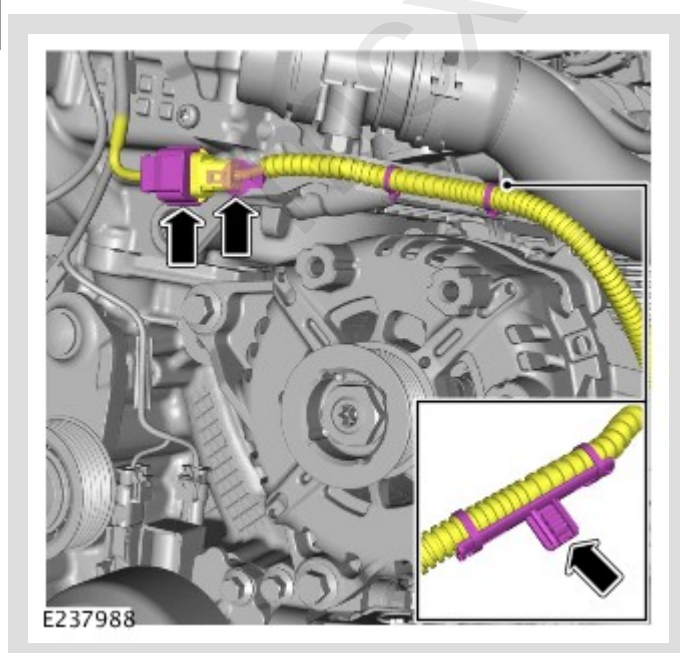
1. Raise and support the vehicle on a suitable 2 post lift.
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).
2. Power down the Mild Hybrid Electric Vehicle (MHEV) system.
Refer to: MHEV Power Down/Up (414-01, General Procedures).
3. Remove the accessory drive belt.
Refer to: [Accessory Drive Belt](#) (303-05C Accessory Drive - INGENIUM I6 3.0L Petrol, Removal and Installation).

4.



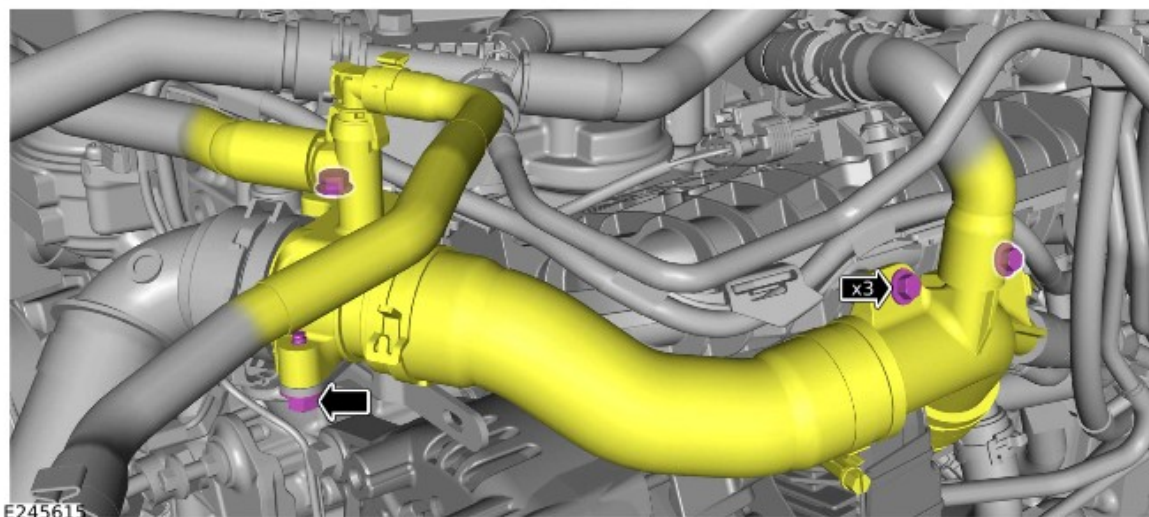
- Release the cover.
- Use the special tool to remove the 2 nuts.
Special Tool(s): [303-1191](#)
- Disconnect the 2 cables from the Belt Integrated Starter Generator (BISG).

5.



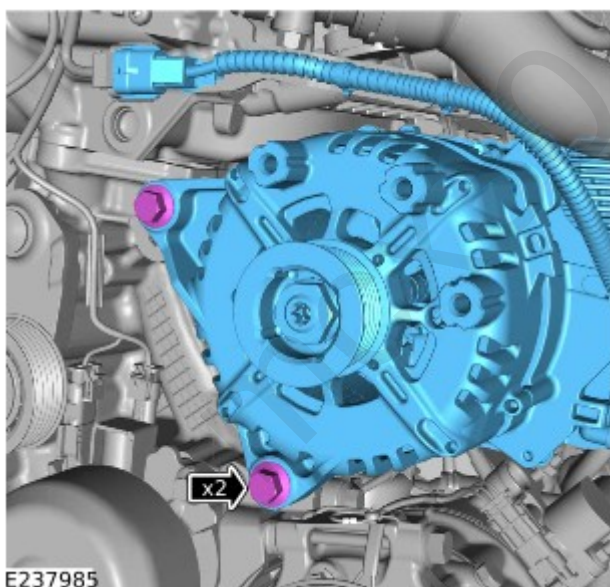
- Disconnect the electrical connector.
- Release the 2 wiring harness clips.

6.



- Remove the screw.
- Remove the 3 bolts.
- Release the coolant pipe assembly.

7.

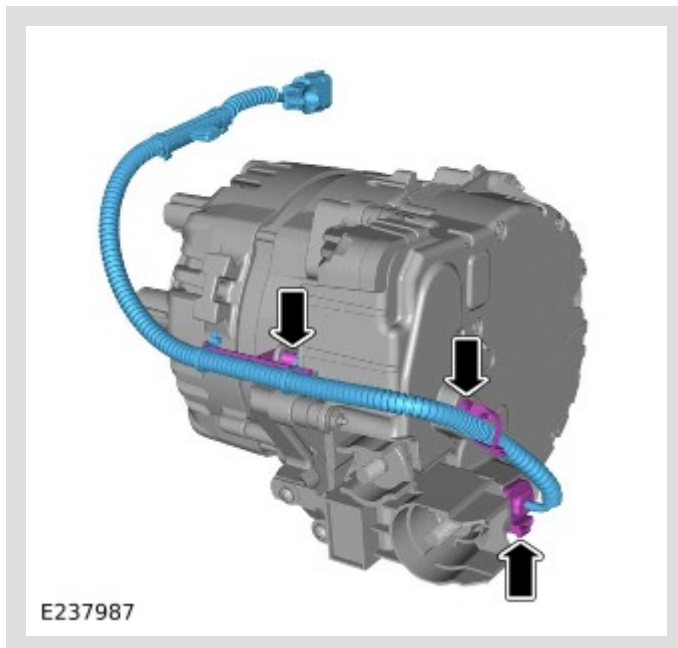


- Remove the 2 bolts.
- Remove the BISG.

8.

 NOTE:

Only complete the following step(s), if a new component is to be installed.



- Disconnect the electrical connector.
- Release the 2 wiring harness clips.
- Remove the wiring harness.

INSTALLATION

1.



NOTE:

Only complete the following step(s) if the component was previously removed.

- Install the wiring harness.
- Install the 2 wiring harness clips.
- Connect the electrical connector.

2.

- Install the BISG.
- Install and tighten the 2 bolts.

Torque: 47.5Nm

3.

- Install the coolant pipe assembly.
- Install and tighten the 3 bolts.
- Install and tighten the screw.

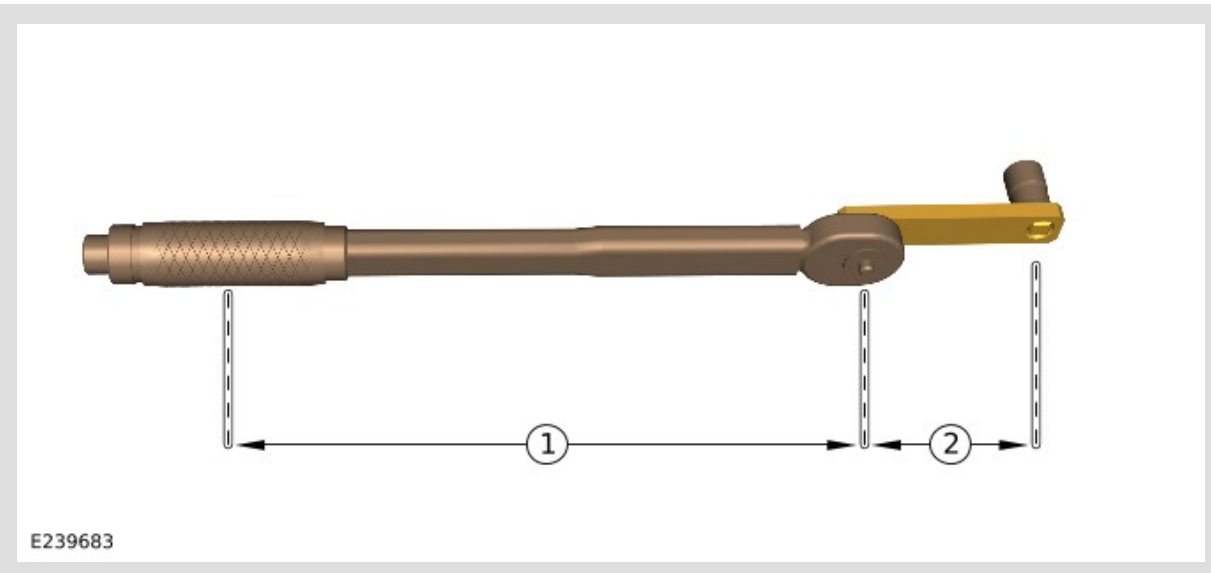
Torque: 7Nm

Torque: 7Nm

4.

- Install the 2 wiring harness clips.
- Connect the electrical connector.

5.



- Connect the 2 cables to the BISG.
- Install, but do not fully tighten the 2 nuts.
- Step 1. Multiply 12 Nm by the effective length of the torque wrench (1).
- Step 2. Add the effective length of the special tool (2) to the effective length of the torque wrench (1).
- Step 3. Divide the total of step 1 by the total of step 2.
- Tighten the nuts to the calculated torque.
- Install the cover.

6.

Install the accessory drive belt.

Refer to: [Accessory Drive Belt](#) (303-05C Accessory Drive - INGENIUM I6 3.0L Petrol, Removal and Installation).

7.

Power up the MHEV system.

Refer to: MHEV Power Down/Up (414-01, General Procedures).