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2020.0 DEFENDER (LE), 303-01C

ENGINE – INGENIUM I6 3.0L PETROL

VARIABLE FLOW OIL PUMP WITH INTEGRAL VACUUM PUMP [G2340141]

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REMOVAL AND INSTALLATION

PART(S)

STEP	PART NAME	QUANTITY
Installation Step 1	Variable flow oil pump with integral vacuum pump wiring harness	1
Installation Step 2	Variable flow oil pump with integral vacuum pump O-ring seal	1
Installation Step 5	Oil pump inlet tube O-ring seal(s)	1

REMOVAL



WARNING:

Be prepared to collect escaping oil.

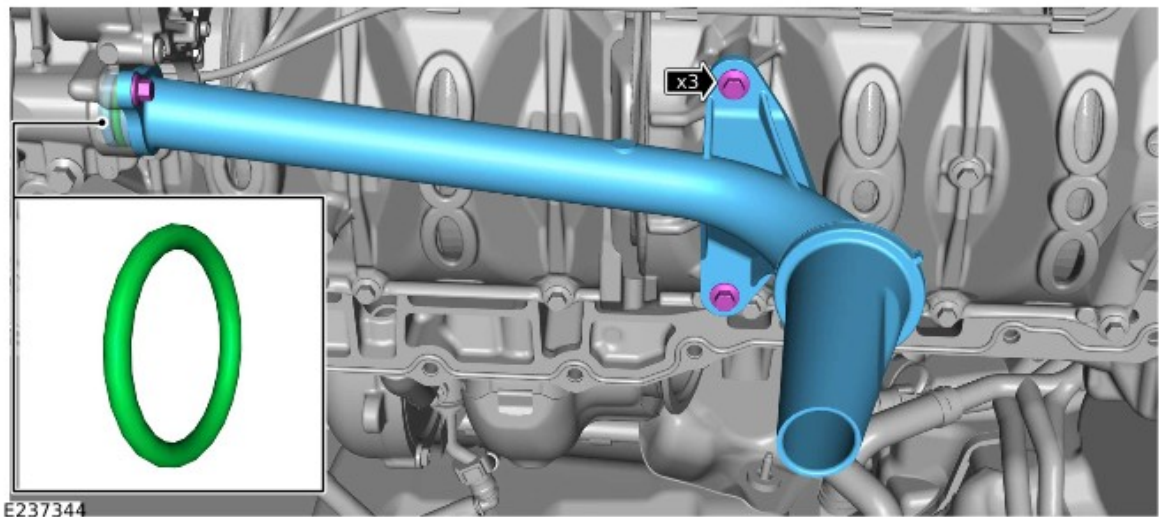


NOTES:

- 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.

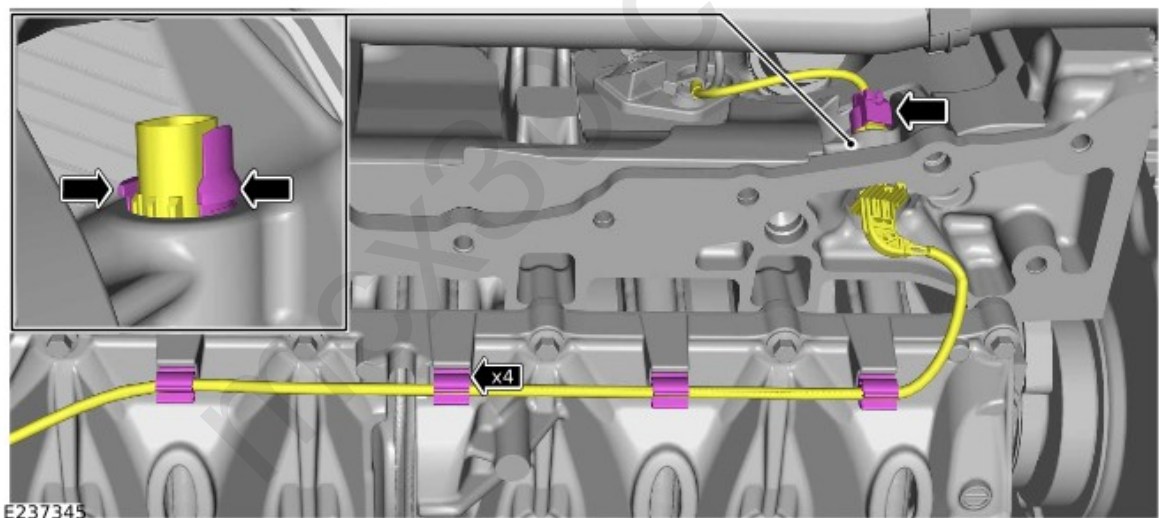
1. Disconnect the startup battery ground cable.
Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).
2. Raise and support the vehicle on a suitable 2 post lift.
Refer to: [Jacking and Lifting](#) (100-02 Jacking and Lifting, Description and Operation).
3. Remove the oil pan extension.
Refer to: [Oil Pan Extension](#) (303-01C Engine - INGENIUM I6 3.0L Petrol, Removal and Installation).
4. Remove the oil pump drive chain.
Refer to: [Oil Pump Drive Chain](#) (303-01C Engine - INGENIUM I6 3.0L Petrol, Removal and Installation).

5.



- Remove the 3 bolts.
- Remove the variable flow oil pump with integral vacuum pump inlet pipe.
- Remove and discard the O-ring seal.

6.

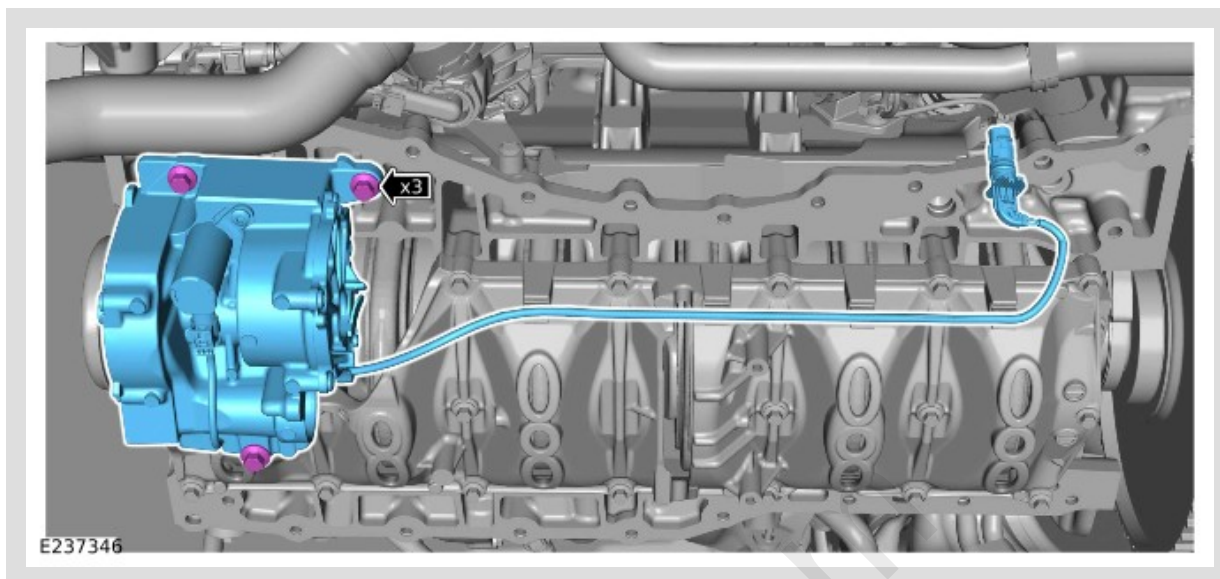


- Disconnect the electrical connector.
- Release the wiring harness from the crankcase.
- Release the wiring harness from the 4 clips.

7.

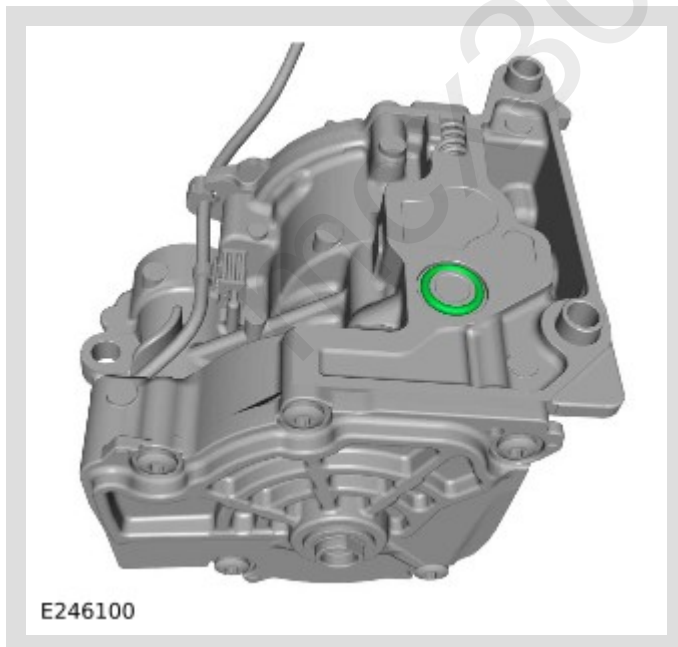
⚠ CAUTION:

Care must be taken when handling the component. Do not place on a surface with the seal faced down. Failure to follow this instruction may damage the component.

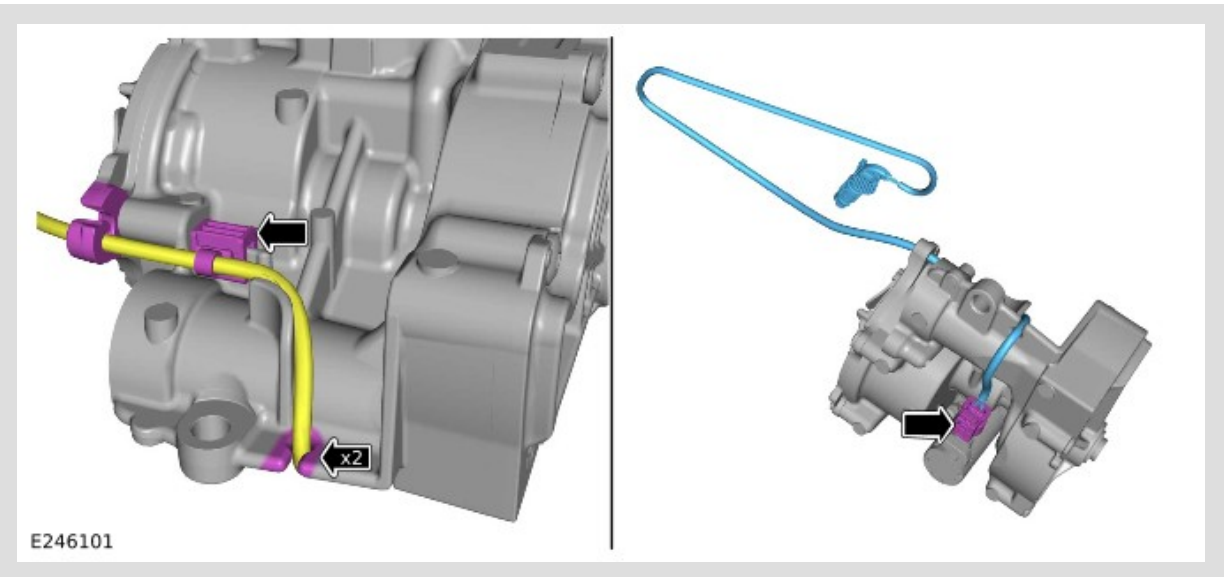


- Remove the 3 bolts.
- Remove the variable flow oil pump with integral vacuum pump.

8.



Remove and discard the O-ring seal.



- Release the wiring harness clip.
- Release the wiring harness from the 2 clips.
- Disconnect the electrical connector.
- Remove and discard the wiring harness.

INSTALLATION

1.

- Install the new wiring harness.
- Connect the electrical connector.
- Install the wiring harness to the 2 clips.
- Install the wiring harness clip.

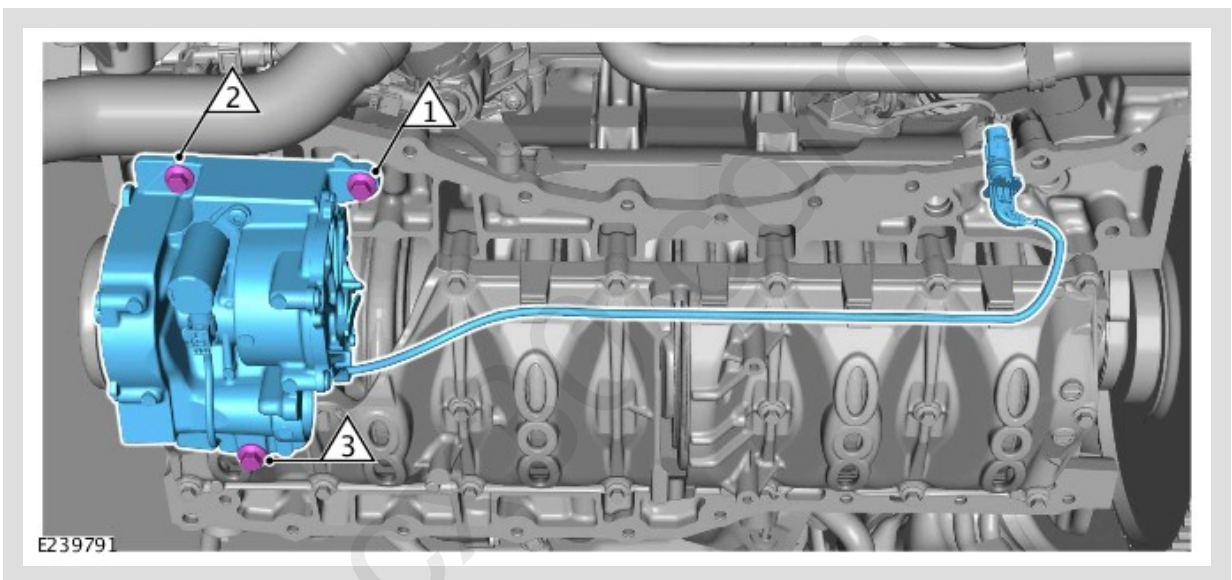
Renew Part: [Variable flow oil pump with integral vacuum pump wiring harness](#) Quantity: 1.

2.

- Install the new O-ring seal.

Renew Part: [Variable flow oil pump with integral vacuum pump O-ring seal](#) Quantity: 1.

3.



- Install the variable flow oil pump with integral vacuum pump.
- Install and tighten the 3 bolts in the sequence illustrated.

Torque: 25Nm

4.

- Install the wiring harness to the crankcase.
- Install the wiring harness to the 4 clips.
- Connect the electrical connector.

5.

- Install the new O-ring seal.
- Install the variable flow oil pump with integral vacuum pump inlet pipe.
- Install and tighten the 3 bolts.

Torque: 12Nm

6. Install the oil pump drive chain.

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

7. Install the oil pan extension.

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

8. Connect the startup battery ground cable.

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

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