

ELECTRONIC ENGINE CONTROLS – INGENIUM I6 3.0L PETROL

PISTON COOLING OIL JET SOLENOID (G2300681)

REMOVAL AND INSTALLATION

18.31.41	PISTON COOLING OIL JET – SOLENOID – RENEW	2000 CC, INGENIUM PETROL	0.90	USED WITHINS	
18.31.41	PISTON COOLING OIL JET – SOLENOID – RENEW	3000 CC, INGENIUM PETROL	3.60	USED WITHINS	

PART(S)

STEP	PART NAME	QUANTITY
Installation Step 1	Piston cooling oil jet solenoid O-ring seal	1
Installation Step 2	Engine coolant bypass hose O-ring seal	1

REMOVAL

ⓘ CAUTION:

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

⚠ 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. Disconnect the startup battery ground cable.
Refer to: Specifications (414-00, Specifications).

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2. Remove the engine cover.

Refer to:Engine Cover (501-05, Removal and Installation).

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3. Position the charge air cooler in the service position.

Refer to:Charge Air Cooler Service Position (303-12, General Procedures).

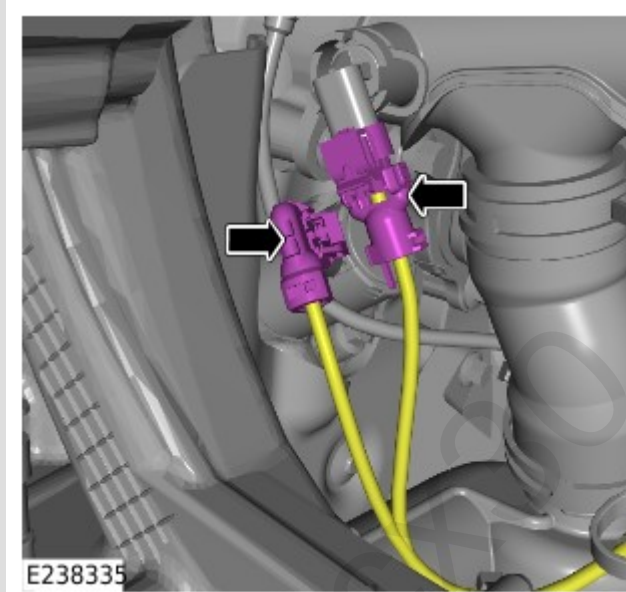
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4. Partially drain the cooling system.

Refer to:Cooling System Partial Draining and Vacuum Filling (303-03G, General Procedures).

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5. Remove the belt intergrated starter generator.

Refer to:Belt Integrated Starter Generator (414-02, Removal and Installation).

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- 6.

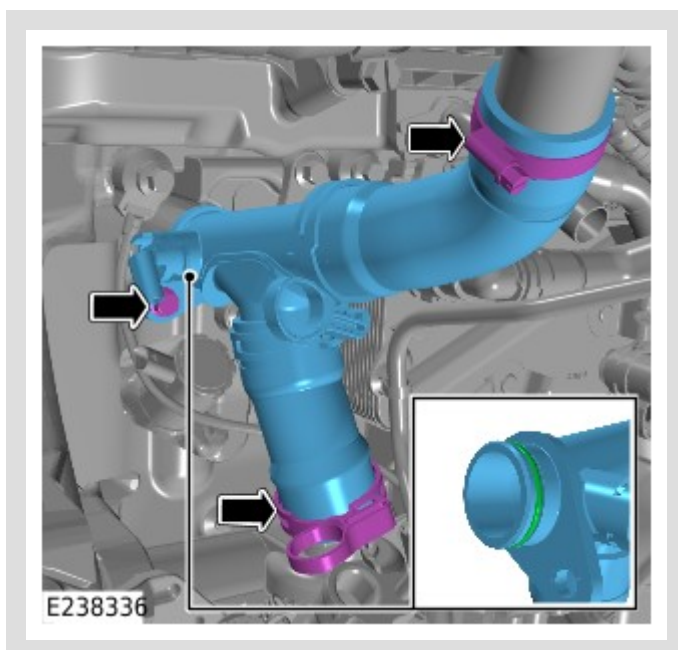


Disconnect the 2 electrical connectors.

7.

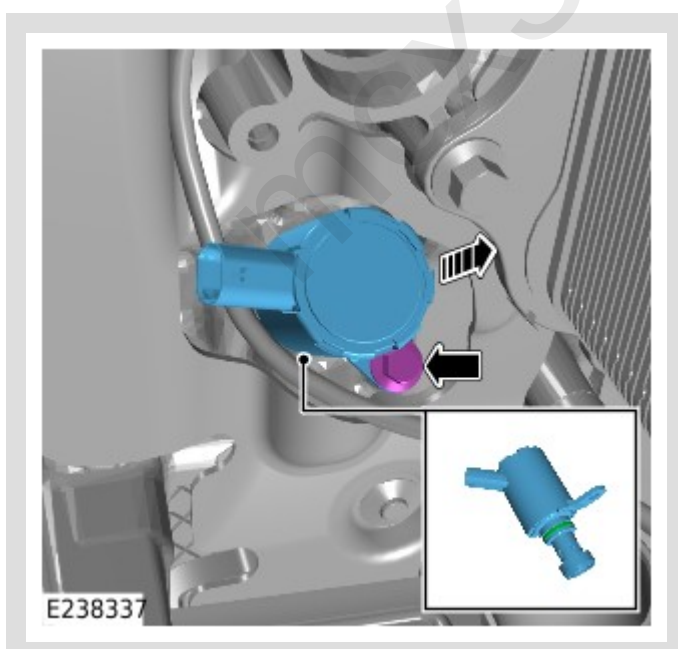
⚠ CAUTION:

Be prepared to collect escaping coolant.



- Release the 2 coolant hoses.
- Remove the engine coolant bypass hose.
- Remove and discard the O-ring seal.

8.



- Remove the piston cooling oil jet solenoid.
- Remove and discard the O-ring seal.

INSTALLATION

1.

- Install the new O-ring seal.

Renew Part: [Piston cooling oil jet solenoid O-ring seal](#) Quantity: 1.

- Install the piston cooling oil jet solenoid.

Torque: 11Nm

2.

- Install the new O-ring seal.

Renew Part: [Engine coolant bypass hose O-ring seal](#) Quantity: 1.

- Install the engine coolant bypass hose.

Torque: 11Nm

- Connect the 2 coolant hoses.

3.

Connect the 2 electrical connectors.

4.

Install the belt intergrated starter generator.

Refer to: Belt Integrated Starter Generator (414-02, Removal and Installation).

5.

Vacuum fill the cooling system.

Refer to: Cooling System Partial Draining and Vacuum Filling (303-03G, General Procedures).

6.

Install the charge air cooler.

Refer to: Charge Air Cooler Service Position (303-12, General Procedures).

7.

Install the engine cover.

Refer to: Engine Cover (501-05, Removal and Installation).

8.

Connect the startup battery ground cable.

Refer to: Specifications (414-00, Specifications).