

ELECTRONIC ENGINE CONTROLS – INGENIUM I6 3.0L PETROL

VARIABLE CAMSHAFT TIMING SOLENOID (G2417308)

REMOVAL AND INSTALLATION

18.31.51	VARIABLE CAMSHAFT TIMING SOLENOID – ENGINE SET – RENEW	3000 CC, INGENIUM PETROL	1.60	USED WITHINS	
18.31.62	VARIABLE CAMSHAFT TIMING SOLENOID – INTAKE – RENEW	2000 CC, INGENIUM PETROL	0.90	USED WITHINS	
18.31.63	VARIABLE CAMSHAFT TIMING SOLENOID – EXHAUST – RENEW	2000 CC, INGENIUM DIESEL	0.90	USED WITHINS	
18.31.63	VARIABLE CAMSHAFT TIMING SOLENOID – EXHAUST – RENEW	2000 CC, INGENIUM PETROL	0.90	USED WITHINS	
18.31.63	VARIABLE CAMSHAFT TIMING SOLENOID – EXHAUST – RENEW	3000 CC, INGENIUM PETROL	1.50	USED WITHINS	

PART(S)

STEP	PART NAME	QUANTITY
Installation Step 2	Variable Camshaft Timing (VCT) solenoid O-ring seals	2

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:

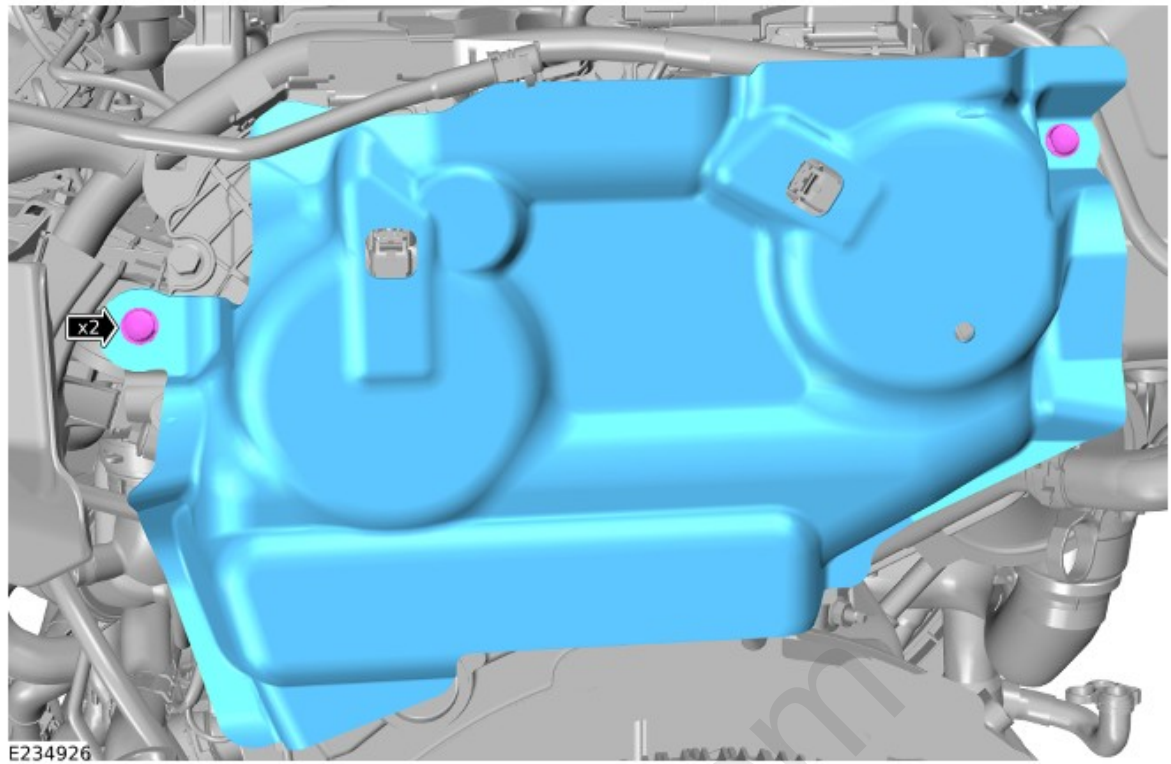
- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.

1. Disconnect the startup battery ground cable.

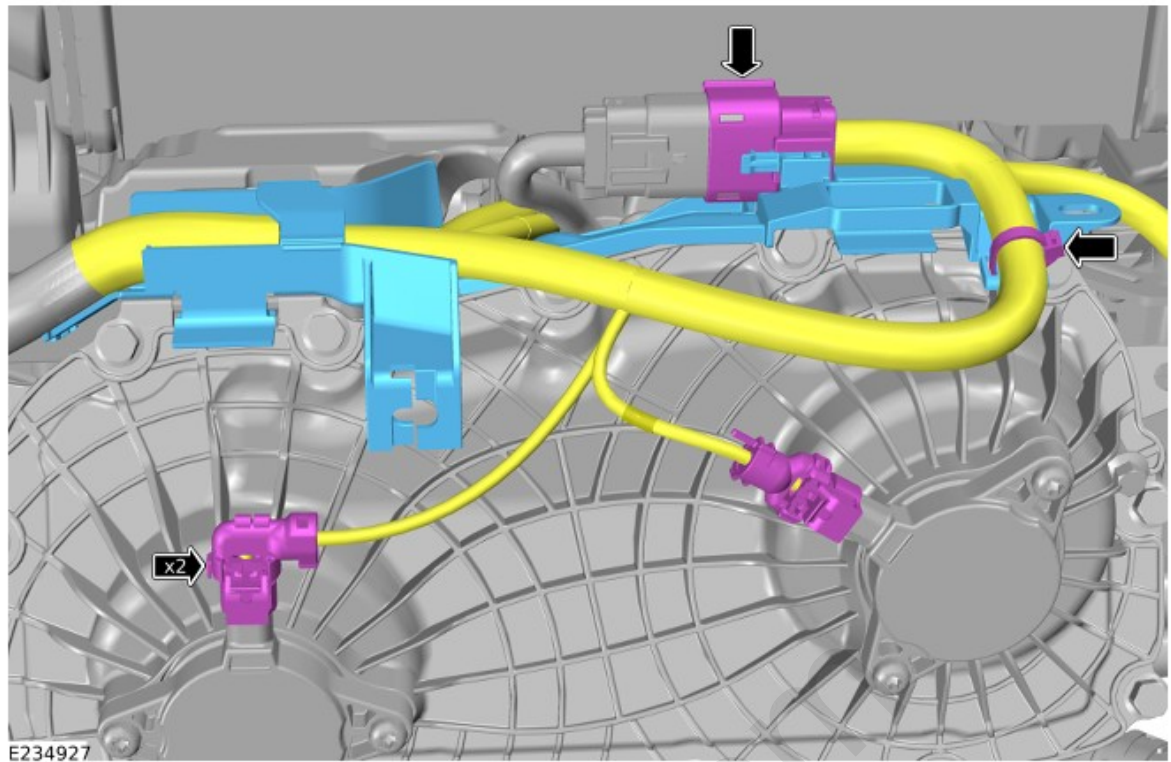
Refer to: [Startup Battery Disconnect and Connect](#) (414-00 Battery and Charging System - General Information, General Procedures).

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

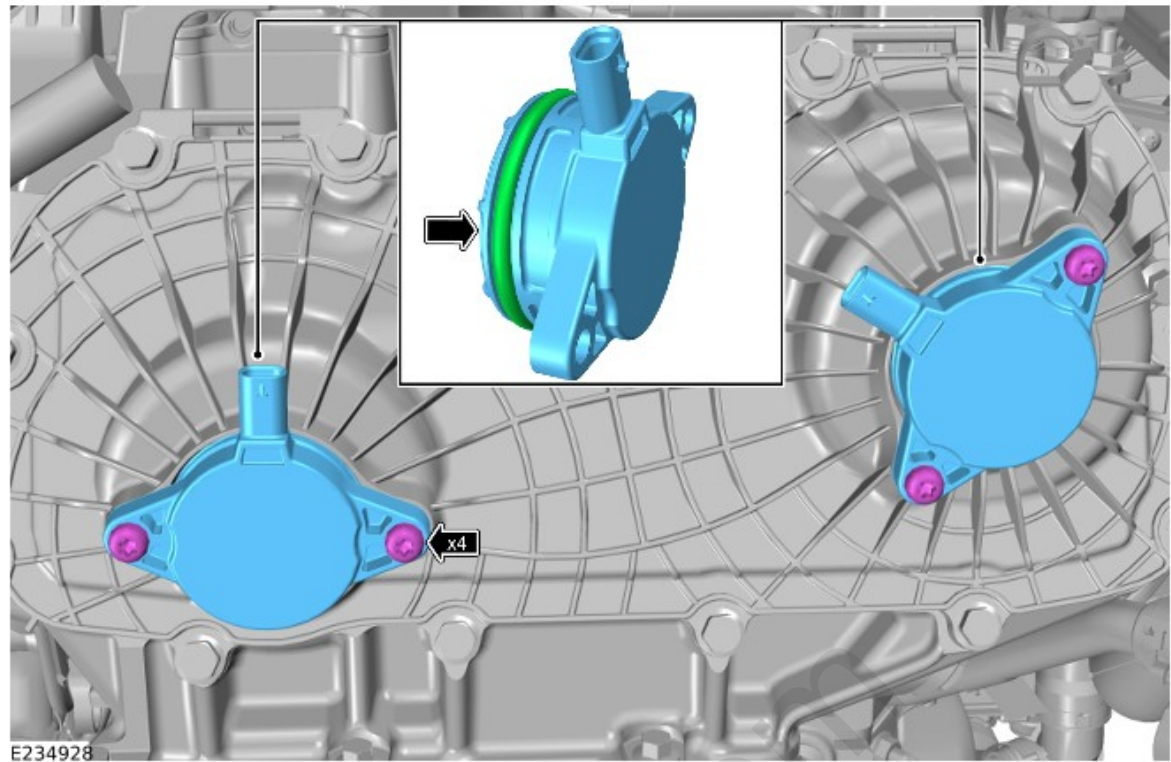
Refer to: [Charge Air Cooler Service Position](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, General Procedures).



- Remove the 2 clips.
- Remove the Noise, Vibration and Harshness (NVH) material.



- Disconnect the 3 electrical connectors.
- Remove and discard the cable tie.
- Remove the wiring harness bracket.



- Remove the 4 bolts.
- Remove the 2 variable valve timing solenoids.
- Remove and discard the 2 O-ring seals.

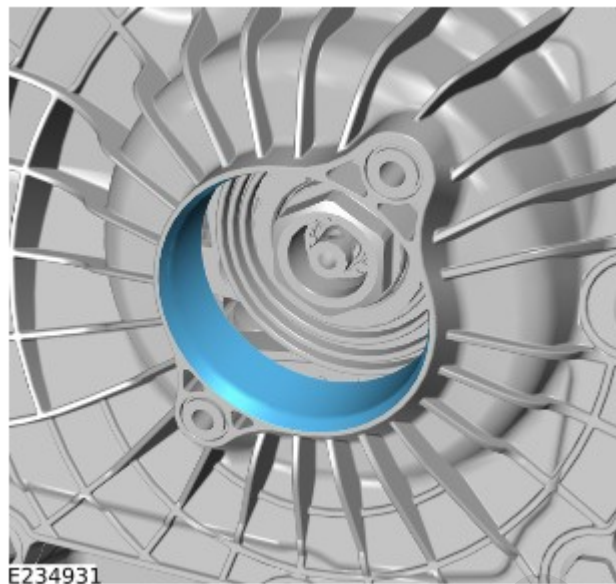
INSTALLATION

1.



NOTE:

Repeat this step for the other side.



Apply clean engine oil to the mating face.

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

2.

- Install 2 new O-ring seals.
Renew Part: [Variable Camshaft Timing \(VCT\) solenoid O-ring seals](#) Quantity: 2.
- Install the 2 variable valve timing solenoids.
- Install and tighten the 4 bolts.
Torque: 9Nm

3.

- Install the wiring harness bracket.
- Install a new cable tie.
- Connect the 3 electrical connectors.

4.

- Install the Noise, Vibration and Harshness (NVH) material.
- Install the 2 clips.

5.

Install the charge air cooler.

Refer to: [Charge Air Cooler Service Position](#) (303-12C Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol, General Procedures).

6. Connect the startup battery ground cable.

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

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