

INTAKE AIR DISTRIBUTION AND FILTERING – INGENIUM I6 3.0L PETROL

LEAKAGE TEST USING SMOKE TEST EQUIPMENT

[G2410324]

GENERAL PROCEDURES

01.01.28	LEAKAGE TEST USING SMOKE TEST EQUIPMENT	2000 CC, INGENIUM DIESEL	0.40	USED WITHINS	
01.01.28	LEAKAGE TEST USING SMOKE TEST EQUIPMENT	2000 CC, INGENIUM PETROL	0.40	USED WITHINS	
01.01.28	LEAKAGE TEST USING SMOKE TEST EQUIPMENT	3000 CC, INGENIUM PETROL	0.40	USED WITHINS	

SPECIAL TOOL(S)



E244759

JLR-303-1704-2

Blanking Plug for (Petrol) Air Intake Systems

GENERAL EQUIPMENT

EQUIPMENT NAME
Adapter - High Pressure Diagnostic Leak Detector
High Pressure Diagnostic Leak Detector

ACTIVATION

⚠ CAUTION:

- Do not exceed 0.35 bar (5 psi, 34.5 kPa) test pressure, when testing the engine intake system.
- Only use calibrated equipment recommended by Jaguar Land Rover.

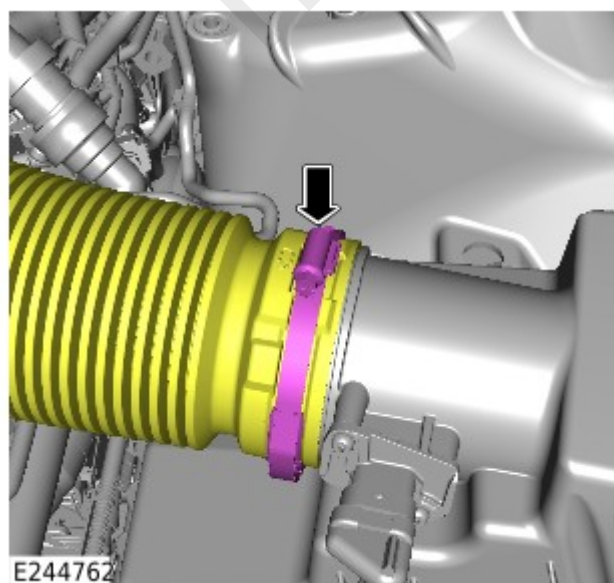
△ NOTE:

- 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. Remove the engine cover.

Refer to: [Engine Cover - INGENIUM I6 3.0L Petrol](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

- 2.

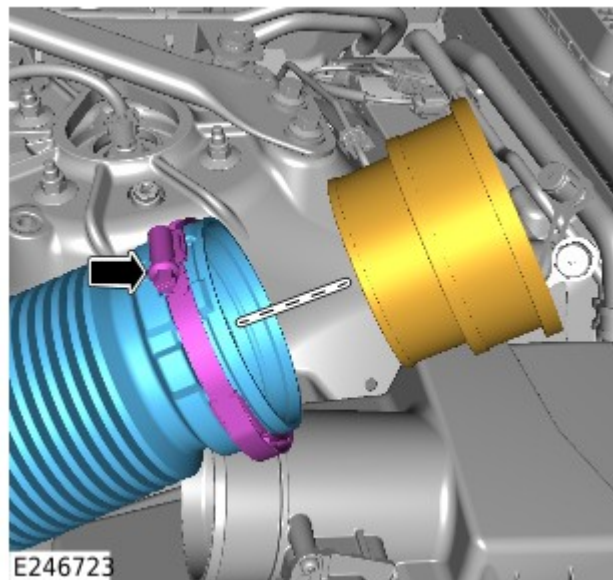


- Release the hose clamp.
- Disconnect the air filter outlet pipe from the air filter housing.

3.

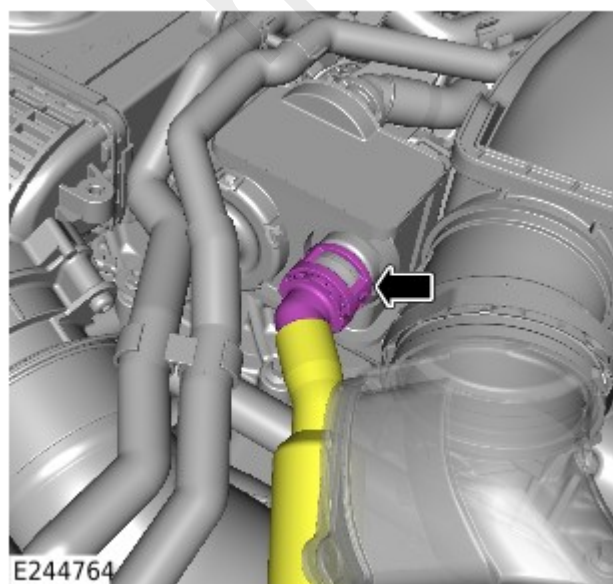
 NOTE:

Make sure the adapter is a good fit to the clean air duct. This must be an air tight seal.



- Insert the appropriate adapter into the air filter outlet pipe.
General Equipment: [Adapter - High Pressure Diagnostic Leak Detector](#)
- Tighten the hose clamp.
Torque: 3.5Nm

4.



- Release the hose connector.

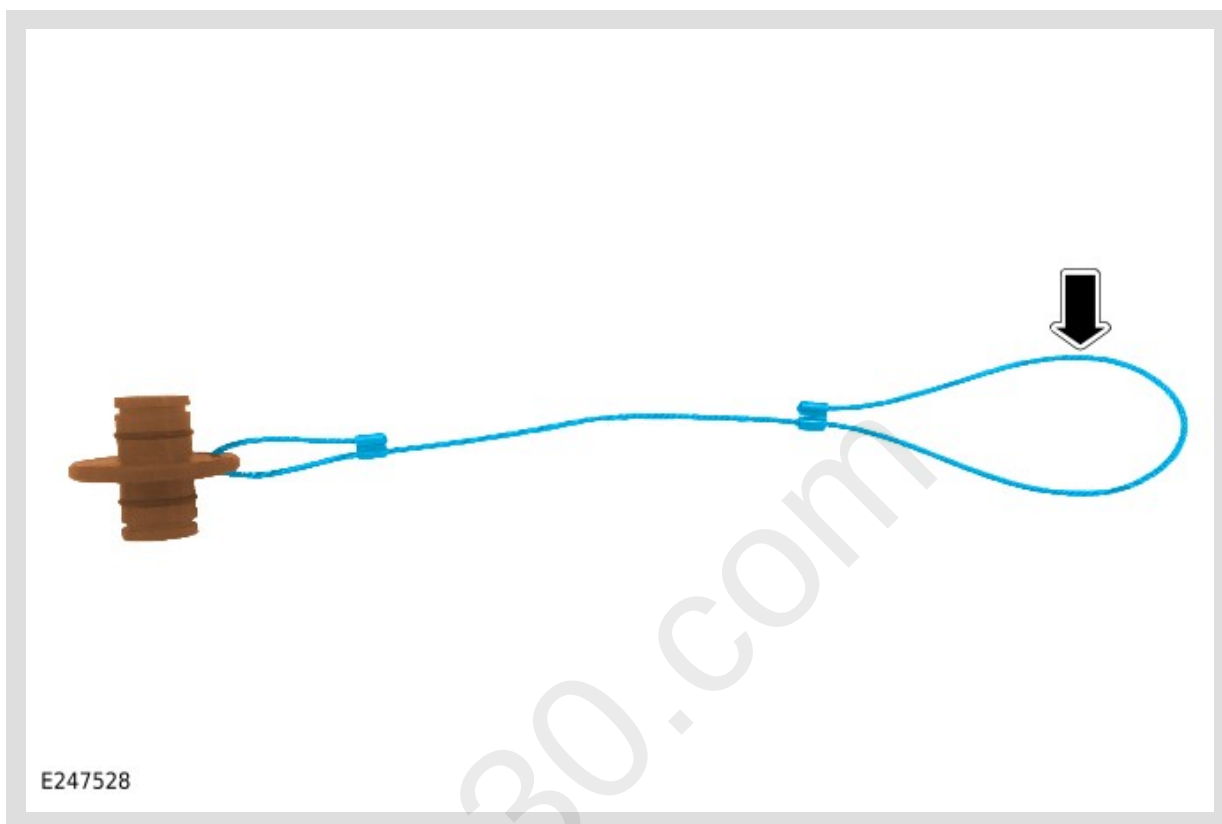
- Disconnect the breather hose.

5.



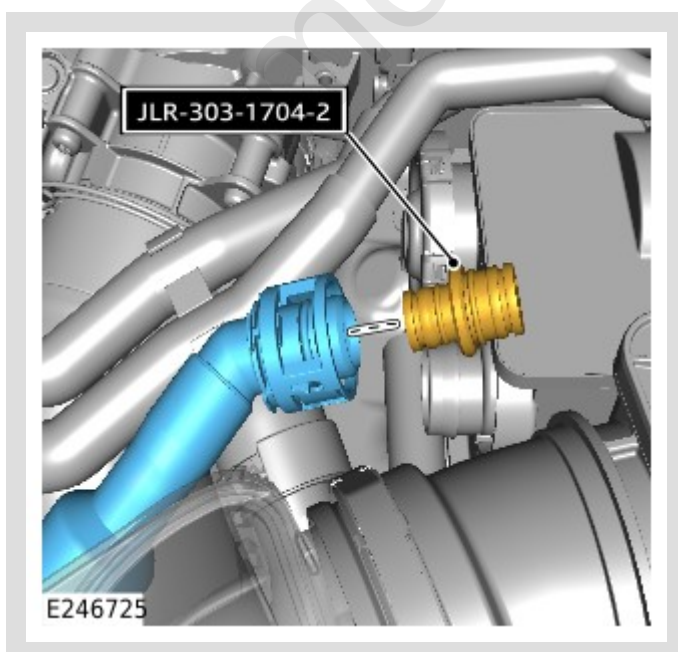
WARNING:

Failure to follow this step may result in injury.



When using the special tool JLR-303-1704-2, secure the lanyard to a suitable position.

6.



Install the special tool into the breather hose.

Install the Special Tool(s): [JLR-303-1704-2](#)

7.

 CAUTION:

Never use dye/ Ultraviolet (UV) dye in intake or exhaust systems. Failure to follow this instruction may coat or harm critical sensors.

 NOTES:

- Only use JLR approved vapor producing fluid.
- 60 ml maximum to refill the vapor producing fluid when the reservoir is empty.

Check the high pressure diagnostic leak detector vapor producing fluid level. Top up if required.

8.

 CAUTIONS:

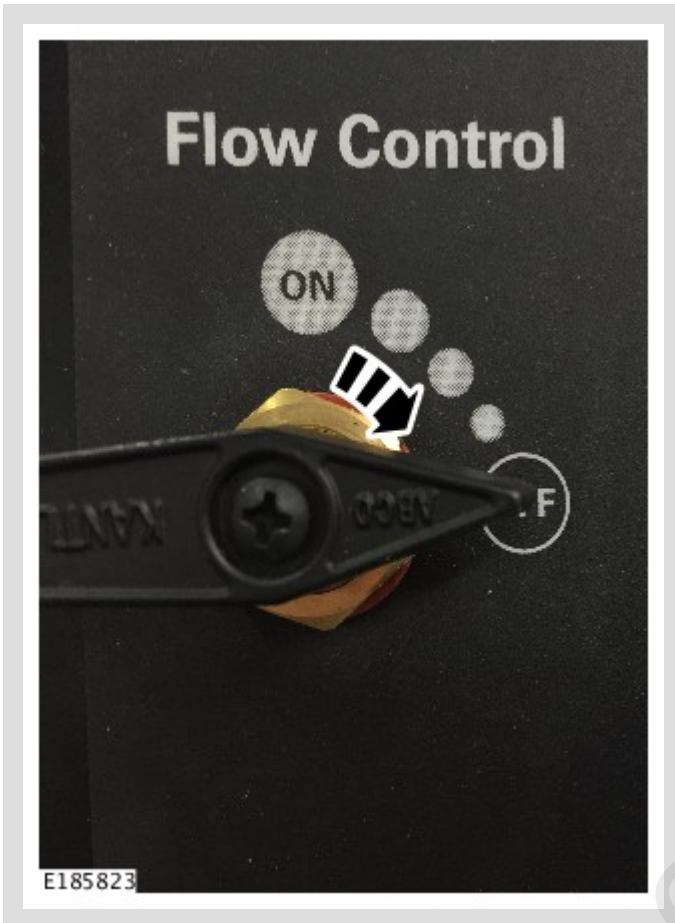
- Do not connect the high pressure diagnostic leak detector to a battery charger, battery support unit or jumper box.
- Never connect the high pressure diagnostic leak detector to the vehicle with the engine running.

Connect the high pressure diagnostic leak detector to a suitable power supply.

9.

Connect the high pressure diagnostic leak detector to a suitable air supply.

10.



Switch the flow control valve to the 'OFF' position.

11.



Pull the pressure regulator valve out.

12.



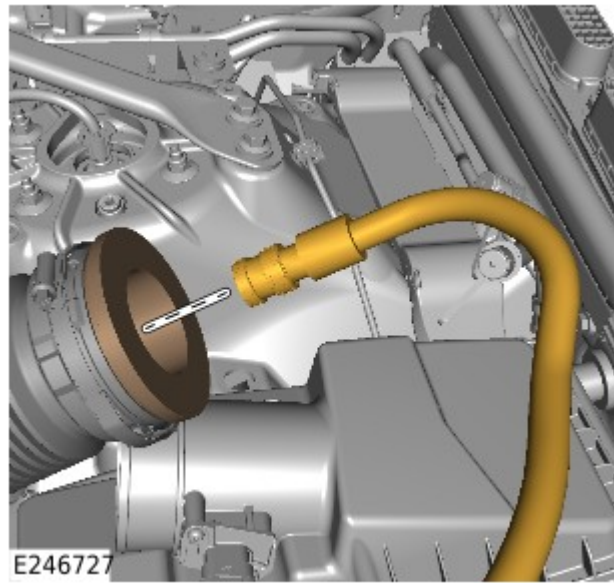
Set the test pressure to 0.35 bar (5 psi, 34.5 kPa).

13.



Push the pressure regulator valve in to lock it.

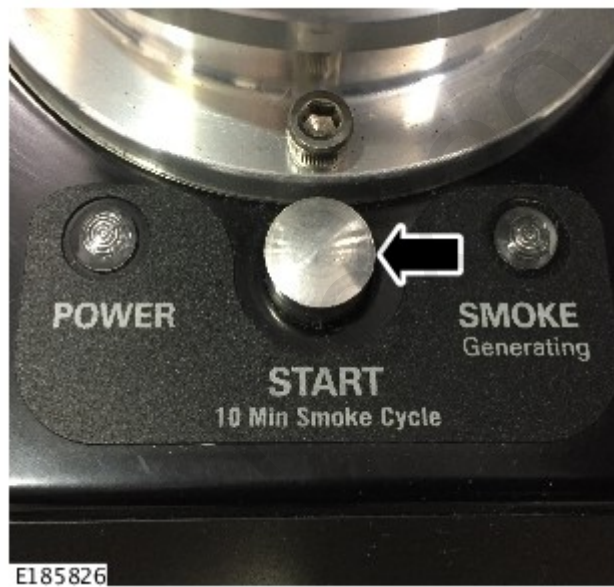
14.



- Connect the high pressure diagnostic leak detector outlet pipe to the adapter.

General Equipment: [High Pressure Diagnostic Leak Detector](#)

15.



Press the 'START' switch to begin a 10 minute vapor cycle.

16.



Turn the flow control valve to the 'ON' position to release pressure / vapor.

17.

- Use the inspection light supplied with the high pressure diagnostic leak detector, to inspect for leaks.
- If a leak is detected, rectify the cause.

18.

- Disconnect the high pressure diagnostic leak detector from the power supply.
- Disconnect the high pressure diagnostic leak detector from the air supply.
- Disconnect the high pressure diagnostic leak detector from the adapter.

19.

Remove the special tool from the breather hose.

Remove the Special Tool(s): [JLR-303-1704-2](#)

20.

Install the breather hose.

21.

Remove the adapter from the air filter outlet pipe.

22.

- Connect the air filter outlet pipe to the air filter housing.
- Tighten the hose clamp.

*Torque: **3.5Nm***

23. Remove the block off adapter.

24. Install the engine cover.

Refer to: [Engine Cover - INGENIUM I6 3.0L Petrol](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).

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