

ENGINE SYSTEM - GENERAL INFORMATION

CYLINDER COMPRESSION TEST - INGENIUM I6 3.0L PETROL (G2320014)

GENERAL PROCEDURES

12.25.01	CYLINDER PRESSURES - CHECK	2000 CC, INGENIUM DIESEL	1.30	USED WITHINS
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GENERAL EQUIPMENT

EQUIPMENT NAME
Compression tester and adapters
Jaguar Land Rover approved diagnostic equipment

CHECK

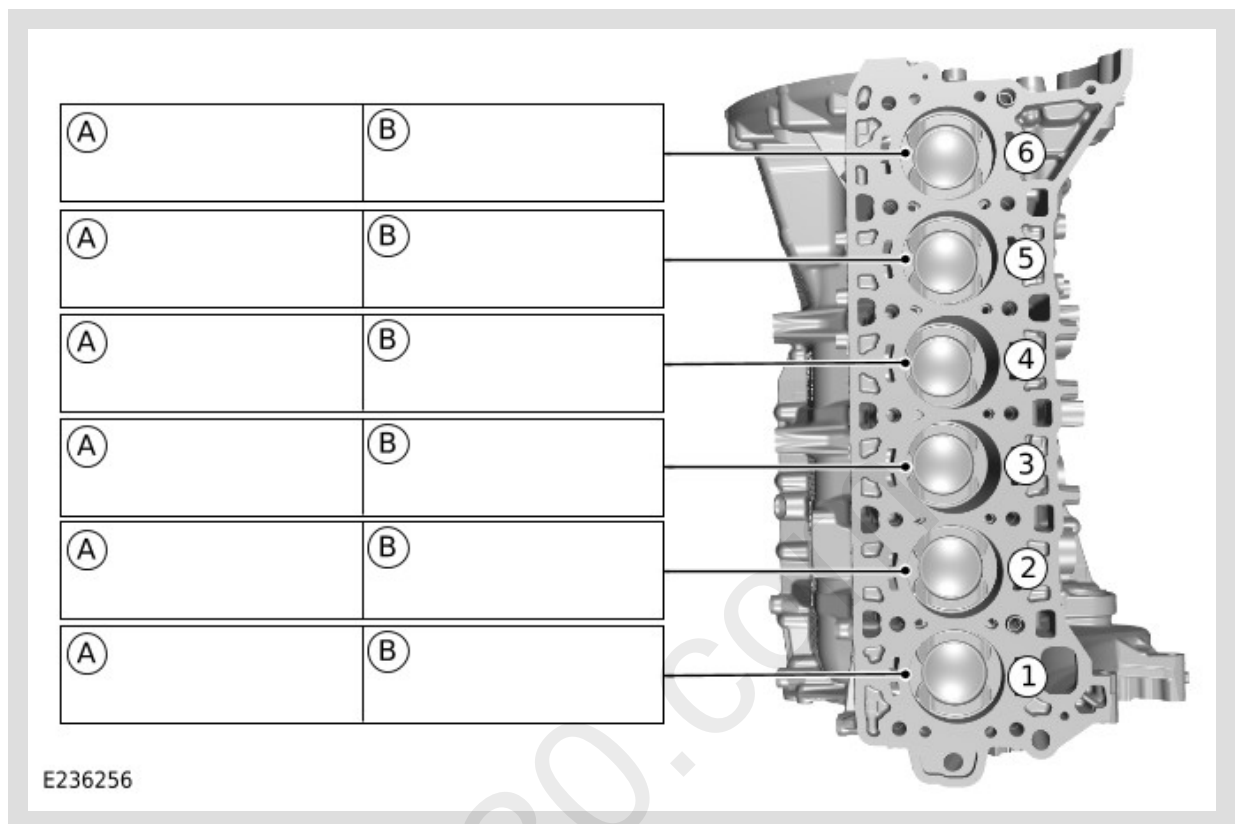
 NOTES:

- 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.
- Make sure the startup battery is fully charged and in good condition.

1.

 NOTES:

- A = dry cylinder head compression test.
- B = wet cylinder head compression test.

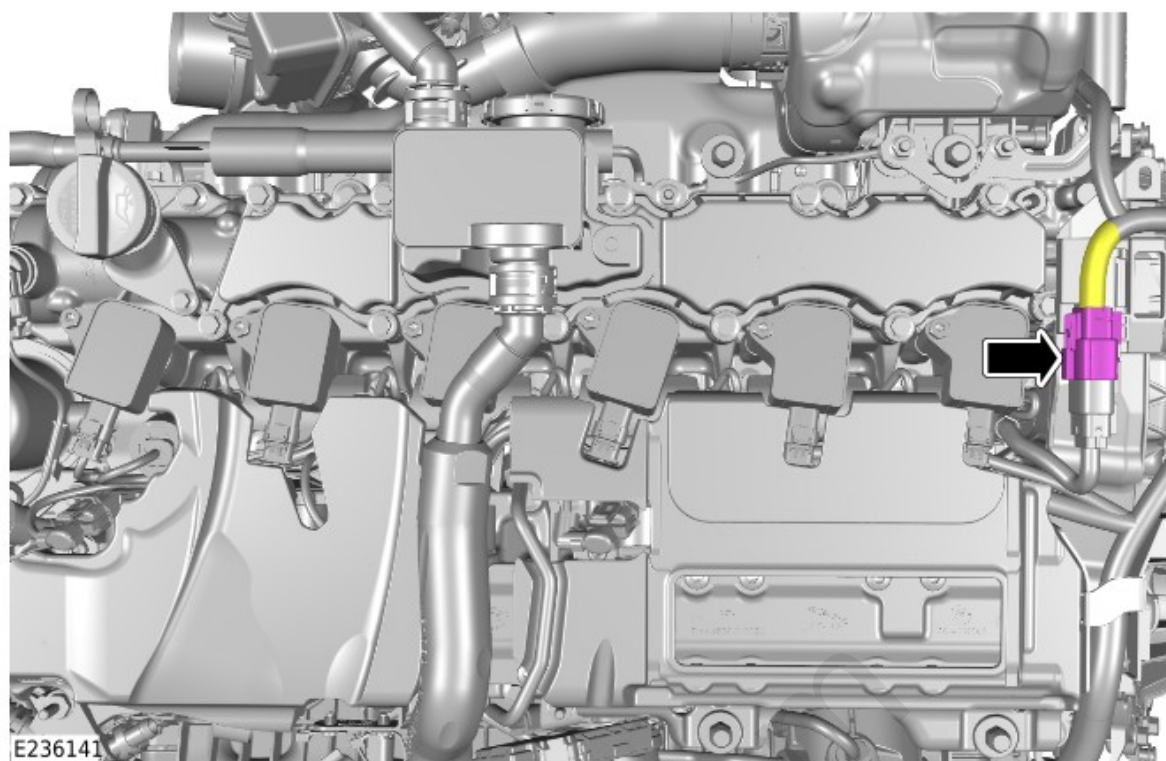


- Print the illustration E236256.
- Use the illustration E236256 to record each cylinder compression figure.

2. Remove the spark plugs.

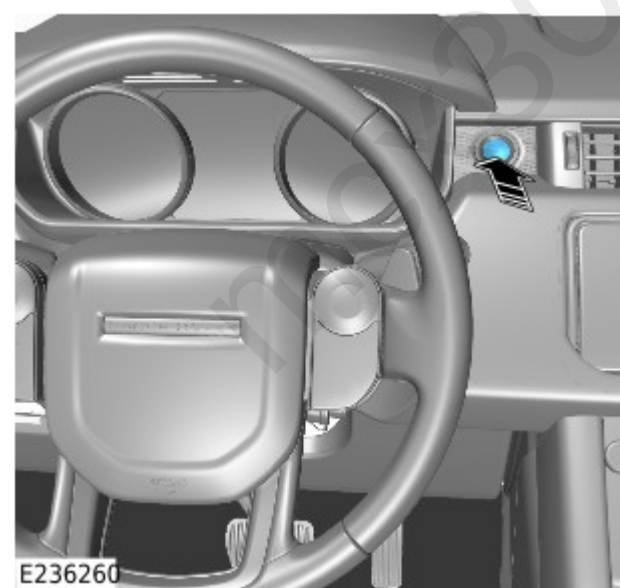
Refer to: [Spark Plugs](#) (303-07C Engine Ignition - INGENIUM I6 3.0L Petrol, Removal and Installation).

3.



Disconnect the fuel injector wiring harness electrical connector.

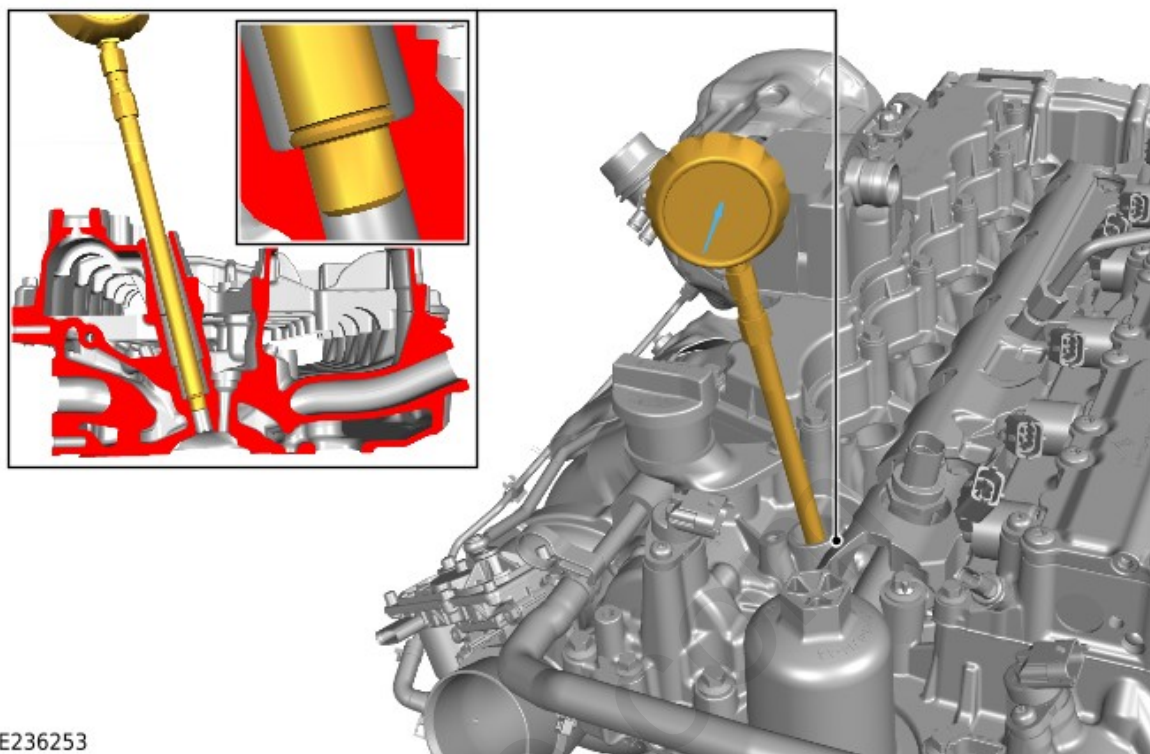
4.



Crank the engine for approximately 5 seconds to remove any remaining fuel in the cylinders.

△ NOTE:

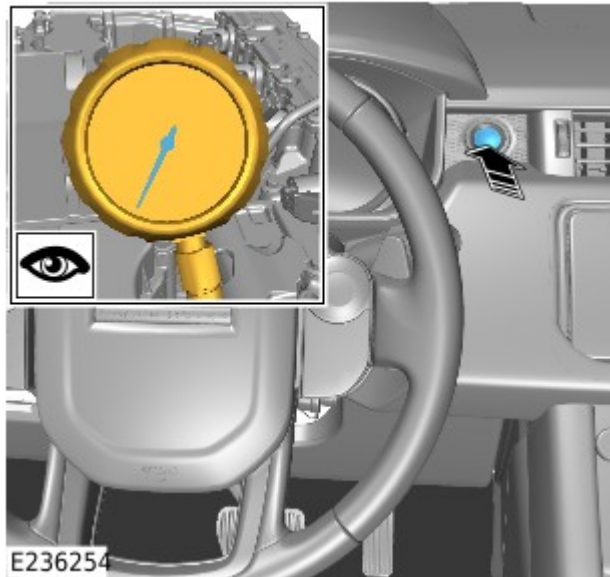
Dry cylinder head compression test.



Install the compression tester.

General Equipment: [Compression tester and adapters](#)

6.



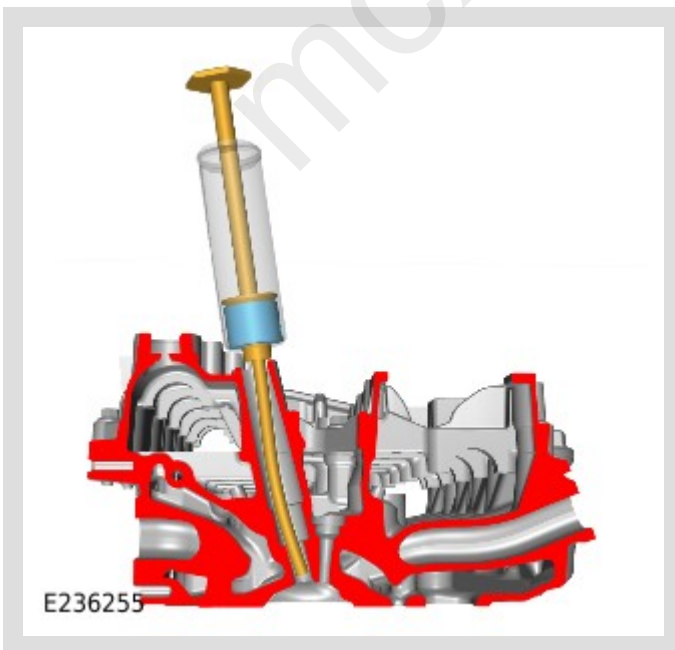
- With the aid of another technician, crank the engine for 10 seconds and record the figure displayed on the compression tester.
- Remove the compression tester.

7. Repeat steps 6 and 7 for the remaining cylinders.

8.

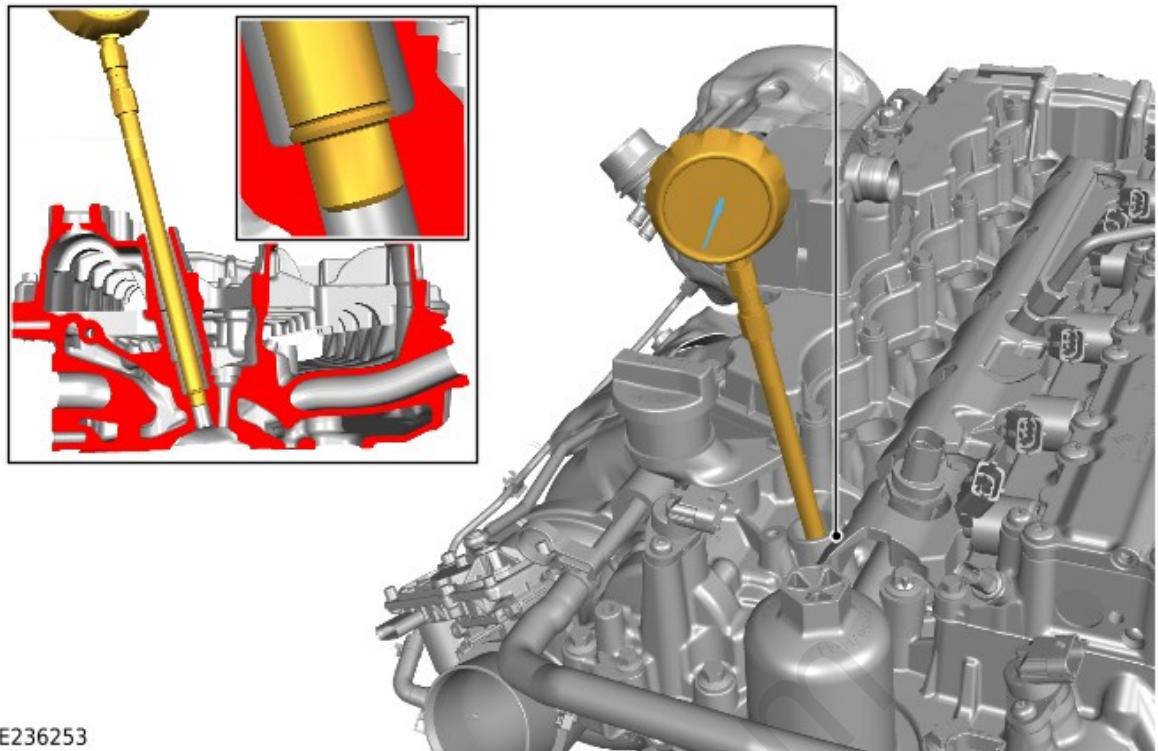
 NOTE:

Wet cylinder head compression test.



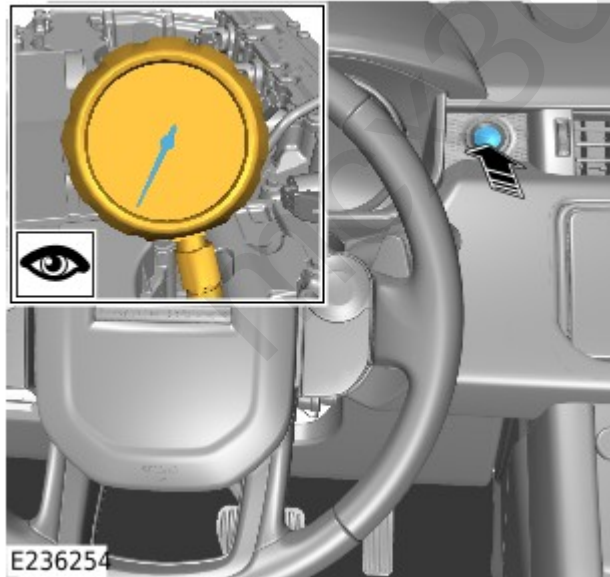
Using a suitable syringe add 10 ml of clean engine oil into the cylinder.

9.



Install the compression tester.

10.



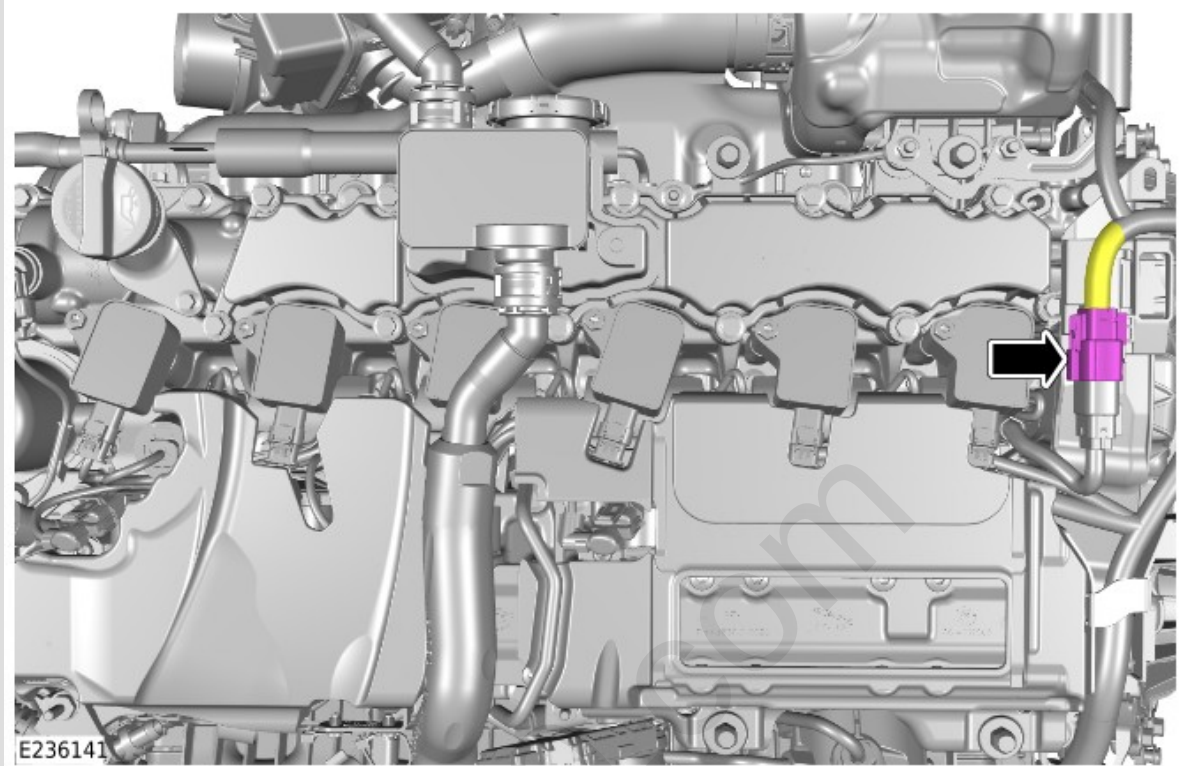
With the aid of another technician, crank the engine for 10 seconds and record the figure displayed on the compression tester.

11. Remove the compression tester and crank the engine for approximately 10 seconds to remove any engine oil from the cylinder.

12. Repeat steps 9 to 12 for the remaining cylinders.

13. The minimum cylinder head compression reading recorded must be within 10% of the maximum cylinder head compression reading recorded. If the difference across the cylinders is higher than 10% please contact Retailer Technical Support (RTS) for further assistance.

14.



Connect the fuel injector wiring harness electrical connector.

15. Install the spark plugs.
Refer to: [Spark Plugs](#) (303-07C Engine Ignition - INGENIUM I6 3.0L Petrol, Removal and Installation).

16. Using the Jaguar Land Rover approved diagnostic equipment, read and clear any Diagnostic Trouble Codes (DTCs).

General Equipment: [Jaguar Land Rover approved diagnostic equipment](#)