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2020.0 DEFENDER (LE), 303-05C

ACCESSORY DRIVE - INGENIUM I6 3.0L PETROL

[G2400964]

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PRINCIPLES OF OPERATION

For a detailed description of the Accessory Drive, refer to the relevant Description and Operation section in the workshop manual. REFER to: [Accessory Drive](#) (303-05C Accessory Drive - INGENIUM I6 3.0L Petrol, Description and Operation).

INSPECTION AND VERIFICATION

 CAUTIONS:

- If the engine is run without the drive belt(s) connected to eliminate driven components, diagnostic trouble codes may be set which must be cleared before the vehicle is returned to the owner. The engine should not be run for more than 2 minutes with the belts disconnected. Failure to follow this instruction may result in damage to the vehicle.
- Diagnosis by substitution from a donor vehicle is **NOT** acceptable. Substitution of control modules does not guarantee confirmation of a fault, and may also cause additional faults in the vehicle being tested and /or the donor vehicle.

 NOTES:

- If a control module or a component is at fault or may be at fault and the vehicle remains under manufacturer warranty, refer to the Warranty Policy and Procedures manual, or determine if any prior approval program is in operation, prior to the installation of a new module/component.
- When performing voltage or resistance tests, always use a digital multimeter that has the resolution ability to view 3 decimal places. For example, on the 2 volts range can measure 1 mV or 2 kΩ range can measure 1 Ω. When testing resistance always take the resistance of the digital multimeter leads into account.
- Check and rectify basic faults before beginning diagnostic routines involving pinpoint tests.

1. Verify the customer concern
2. Visually inspect for obvious signs of damage and system integrity

Visual Inspection**MECHANICAL**

- Viscous cooling fan pulley
- Belt integrated starter generator drive belt tensioner
- Belt integrated starter generator

MECHANICAL

- Belt integrated starter generator drive belt
- Air conditioning (AC) compressor
- Coolant pump
- Idler pulley
- Crank shaft pulley / Torsional mass damper
- Viscous cooling fan drive belt

3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step

4. If the cause is not visually evident, verify the symptom and refer to the Symptom Chart, alternatively check for Diagnostic Trouble Codes (DTCs) and refer to the DTC Index

5. Check JLR claims submission system for open campaigns. Refer to the corresponding bulletins and SSMS which may be valid for the specific customer complaint and complete the recommendations as required

SYMPTOM CHART

SYMPTOM	POSSIBLE CAUSES	ACTION
Noise	■ Accessory drive belt condition and tension ■ Pulleys misaligned ■ Driven components (including tensioners)	■ Check the integrity of the accessory drive belt. Rectify as necessary ■ Check the alignment of the accessory drive belt pulleys. Rectify as necessary ■ Check the integrity of the driven components. Rectify as necessary
Accessory drive belt does not hold tension	■ Accessory drive belt wear ■ Belt tensioner failure	■ Check the integrity of the accessory drive belt. Rectify as necessary ■ Check the integrity of the belt tensioner. Rectify as necessary

DTC INDEX

For a list of Diagnostic Trouble Codes (DTCs) that could be set on this vehicle, please refer to Section 100-00. REFER to: [Diagnostic Trouble Code Index - INGENIUM I6 3.0L Petrol, Vehicles With: MHEV, DTC: Powertrain Control Module \(PCM\) B1087-88 to P0634-00](#) (100-00 General Information, Description and Operation).

