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## 2017 FORD GT OEM Service and Repair Workshop Manual

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Positive Lead	Measurement / Action	Negative Lead
C1463A-1	V	Ground
C1463A-3	V	Ground

Positive Lead	Measurement / Action	Negative Lead
C1463B-1	V	Ground

**Are the voltages greater than 11 volts?**

<b>Yes</b>	GO to <a href="#">AE4</a>
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<b>No</b>	VERIFY BCMC (body control module C) [ BJB (battery junction box) ] fuse 22 (10A), 204 (50A) and 213 (50A) are OK. If OK, REPAIR the circuit in question. If not OK, REFER to the Wiring Diagrams manual to identify the possible causes of the circuit short.
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**AE4 CHECK THE PSCM (POWER STEERING CONTROL MODULE) GROUND CIRCUITS FOR AN OPEN**

- Ignition OFF.
- Disconnect negative battery cable.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C1463A-2	$\Omega$	Ground

## PINPOINT TEST AF : THE RCM (RESTRAINTS CONTROL MODULE) DOES NOT RESPOND TO THE DIAGNOSTIC SCAN TOOL

Refer to Wiring Diagrams Cell 14 for schematic and connector information.

Refer to Wiring Diagrams Cell 46 for schematic and connector information.

**Normal Operation and Fault Conditions** The RCM (restraints control module) communicates on the HS-CAN2 (high-speed controller area network 2). REFER to: [Controller Area Network \(CAN\) Module Communications Network - System Operation and Component Description](#) (418-00A Controller Area Network (CAN) Module Communications Network, Description and Operation).

### Possible Sources

- Wiring, terminals and connectors
- BCM (body control module)
- RCM (restraints control module)

### WARNING

Never probe the electrical connectors on airbag, Safety Canopy® or side air curtain assemblies. Failure to follow this instruction may result in the accidental deployment of these assemblies, which increases the risk of serious personal injury or death.

### WARNING

Never disassemble or tamper with seat belt deployable components, including pretensioners, load limiters and inflators. Never back probe deployable device electrical connectors. Tampering or back probing may cause an accidental deployment and result in personal injury or death.

### NOTE


The Supplemental Restraint System (SRS) must be fully operational and free of faults before releasing the vehicle to the customer.

## AF1 CHECK THE RCM (RESTRAINTS CONTROL MODULE) CONNECTION

- Ignition OFF.
- DEPOWER the SRS (supplemental restraint system).  
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#) (501-20B Supplemental Restraint System, General Procedures).
- Disconnect: RCM (restraints control module) C310A and C310B.

REFER to: [Supplemental Restraint System \(SRS\) Repowering](#)(501-20B Supplemental Restraint System, General Procedures).

- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C310A-19		Ground

**Is the voltage greater than 11 volts?**

<b>Yes</b>	GO to <a href="#">AF5</a>
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<b>No</b>	REPAIR the circuit.
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#### **AF5 CHECK THE RCM (RESTRAINTS CONTROL MODULE) CASE GROUND**

- Ignition OFF.
- Measure the resistance between the RCM (restraints control module) case and a good chassis ground.

**Is the resistance less than 3 ohms?**

<b>Yes</b>	GO to <a href="#">AF6</a>
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<b>No</b>	REPAIR the RCM (restraints control module) case ground as necessary.
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#### **AF6 CHECK THE HS-CAN2 (HIGH-SPEED CONTROLLER AREA NETWORK 2) CIRCUITS BETWEEN THE RCM (RESTRAINTS CONTROL MODULE) AND THE GWM (GATEWAY MODULE A) FOR AN OPEN**

- DEPOWER the SRS (supplemental restraint system) .  
REFER to: [Supplemental Restraint System \(SRS\) Depowering](#)(501-20B Supplemental Restraint System, General Procedures).
- Disconnect GWM (gateway module A) C2431A .
- Measure:

REFER to: [Restraints Control Module \(RCM\)](#)  
(501-20B Supplemental Restraint System, Removal and Installation).

**No**

The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

## **PINPOINT TEST AG : THE RGTM (REAR GATE TRUNK MODULE) DOES NOT RESPOND TO THE DIAGNOSTIC SCAN TOOL**

Refer to Wiring Diagrams Cell 14 for schematic and connector information.

Refer to Wiring Diagrams Cell 109 for schematic and connector information.

**Normal Operation and Fault Conditions** The RGTM (rear gate trunk module) communicates on the MS-CAN (medium speed-controller area network) 2. REFER to: [Controller Area Network \(CAN\) Module Communications Network - System Operation and Component Description](#) (418-00A Controller Area Network (CAN) Module Communications Network, Description and Operation).

### **Possible Sources**

- Fuse
- Wiring, terminals and connector
- RGTM (rear gate trunk module)

### **Visual Inspection and Pre-checks**

- Verify BCMC (body control module C) [ BJB (battery junction box) ] fuse 37 (30A) is OK.

## **AG1 CHECK THE REMOTE DLC (DATA LINK CONNECTOR) PINS FOR DAMAGE**

- Ignition OFF.
- Disconnect the diagnostic scan tool cable from the remote DLC (data link connector) .
- Inspect the remote DLC (data link connector) pins 3, 4, 5, 11, and 16 for spreading or damage using a Rotunda flex probe with the dimensions: 1.5mm width x 0.80mm thickness.
  - Refer to the Rotunda flex probe or probe kit documentation to confirm the dimensions, if not printed on the probe.

**Are any pin fit concerns or damage observed with remote DLC (data link connector) pins 3, 4, 5, 11, and 16?**

**Yes**

CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and

C4623-1	$\Omega$	Ground
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**Is the resistance less than 3 ohms?**

<b>Yes</b>	GO to <a href="#">AG4</a>
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<b>No</b>	REPAIR the circuit.
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**AG4 CHECK THE MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 2 (+) AND MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 2 (-) CIRCUITS FOR A SHORT TO GROUND**

- Disconnect: GWM (gateway module A) C2431A.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2431A-11	$\Omega$	Ground
C2431A-24	$\Omega$	Ground

**Are the resistances greater than 1,000 ohms?**

<b>Yes</b>	GO to <a href="#">AG5</a>
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<b>No</b>	REPAIR the circuit in question.
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**AG5 CHECK THE MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 2 (+) AND MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 2 (-) CIRCUITS FOR A SHORT TO VOLTAGE**

- Ignition ON.

**No**

REPAIR the circuit in question.

**AG7 CHECK THE MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 2 (+) AND MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 2 (-) CIRCUITS FOR A SHORT TOGETHER WITH THE RGTM (REAR GATE TRUNK MODULE) DISCONNECTED**

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2431A-11	$\Omega$	C2431A-24

**Did the resistance change to greater than 3 ohms with the RGTM (rear gate trunk module) disconnected?**

**Yes**

GO to [AG8](#)

**No**

REPAIR the circuits.

**AG8 CHECK THE GWM (GATEWAY MODULE A) MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 2 TERMINATION RESISTOR (COMPONENT SIDE)**

- Measure:

Positive Lead	Measurement / Action	Negative Lead
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(501-04 Pickup Bed and Platform Body, Removal and Installation).

**No**

The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

## PINPOINT TEST AH : THE RTM (RADIO TRANSCEIVER MODULE) DOES NOT RESPOND TO THE DIAGNOSTIC SCAN TOOL

Refer to Wiring Diagrams Cell 14 for schematic and connector information.

Refer to Wiring Diagrams Cell 118 for schematic and connector information.

**Normal Operation and Fault Conditions** The RTM (radio transceiver module) communicates on the MS-CAN (medium speed-controller area network) 1. REFER to: [Controller Area Network \(CAN\) Module Communications Network - System Operation and Component Description](#) (418-00A Controller Area Network (CAN) Module Communications Network, Description and Operation).

### Possible Sources


- Fuse
- Wiring, terminals and connector
- RTM (radio transceiver module)

### Visual Inspection and Pre-checks

- Verify BCM (body control module) fuse 31 (10A) is OK.

## AH1 CHECK THE RTM (RADIO TRANSCEIVER MODULE) VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect: RTM (radio transceiver module) C9026.
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C9026-6		Ground

**Is the voltage greater than 11 volts?**

**Yes**

GO to [AH2](#)



### Are the resistances less than 3 ohms?

<b>Yes</b>	CONNECT all disconnected connectors. GO to <a href="#">AH4</a>
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<b>No</b>	REPAIR the circuit in question.
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### AH4 CHECK FOR CORRECT RTM (RADIO TRANSCEIVER MODULE) OPERATION

- Ignition OFF.
- Disconnect and inspect the RTM (radio transceiver module) connector.
- Repair:
  - corrosion (install new connector or terminals - clean module pins)
  - damaged or bent pins - install new terminals/pins
  - pushed-out pins - install new pins as necessary
- Reconnect the RTM (radio transceiver module) connector. Make sure it seats and latches correctly.
- Operate the system and determine if the concern is still present.

#### Is the concern still present?

<b>Yes</b>	<p>CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new RTM (radio transceiver module) .</p> <p>REFER to: <a href="#">Radio Transceiver Module (RTM)</a> (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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<b>No</b>	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.
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### PINPOINT TEST AI : THE SASM (STEERING ANGLE SENSOR MODULE) DOES NOT RESPOND TO THE DIAGNOSTIC SCAN TOOL

Refer to Wiring Diagrams Cell 14 for schematic and connector information.  
Refer to Wiring Diagrams Cell 128 for schematic and connector information.

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2414A-1	$\Omega$	Ground

**Is the resistance less than 3 ohms?**

<b>Yes</b>	GO to <a href="#">AI3</a>
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<b>No</b>	REPAIR the circuit.
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**AI3 CHECK THE HS-CAN2 (HIGH-SPEED CONTROLLER AREA NETWORK 2) CIRCUITS BETWEEN THE SASM (STEERING ANGLE SENSOR MODULE) AND THE GWM (GATEWAY MODULE A) FOR AN OPEN**

- Disconnect GWM (gateway module A) C2431A .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2414A-2	$\Omega$	C2431A-8
C2414A-3	$\Omega$	C2431A-21

**Are the resistances less than 3 ohms?**

<b>Yes</b>	CONNECT all disconnected connectors. GO to <a href="#">AI4</a>
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<b>No</b>	REPAIR the circuit in question.
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