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2015 FORD Figo OEM Service and Repair Workshop Manual

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(501-10A Front Seats, 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.

G22 CHECK THE GWM (GATEWAY MODULE A) FOR CORRECT OPERATION

- Ignition OFF.
- Disconnect and inspect the GWM (gateway module A) 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 GWM (gateway module A) connector. Make sure it seats and latches correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

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 FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new GWM (gateway module A) .

If equipped with 8-inch center display screen/12.3-inch center display screen,

REFER to: [Gateway Module A \(GWM\) - Electric, Vehicles With: 8 Inch Center Display Screen/12 Inch Center Display Screen](#)

(418-00A Controller Area Network (CAN) Module Communications Network, Removal and Installation).

If equipped with 15-inch center display screen,

REFER to: [Gateway Module A \(GWM\) - Electric, Vehicles With: 15.5 Inch Center Display Screen](#)

(418-00A Controller Area Network (CAN) Module Communications Network, 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.

Yes	<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 PDM (passenger door module) .</p> <p>REFER to: Passenger Door Module (PDM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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No	<p>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.</p>
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G25 CHECK THE RTM (RADIO TRANSCEIVER MODULE) FOR CORRECT 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?

Yes	<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: Radio Transceiver Module (RTM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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No	<p>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.</p>
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Yes	<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 SCMH (passenger multi-contour seat module) .</p> <p>REFER to: Driver Multi-Contour Seat Module [SCMG] (501-10A Front Seats, Removal and Installation).</p>
No	<p>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.</p>

PINPOINT TEST H : ALL NETWORKS DO NOT RESPOND TO THE DIAGNOSTIC SCAN TOOL

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

Normal Operation and Fault Conditions The GWM (gateway module A) communicates with the diagnostic scan tool through the DIAG1 network. The GWM (gateway module A) operates as a gateway for communication between the modules on FD-CAN (Flexible Data Rate Controller Area Network) , HS-CAN1 (high-speed controller area network 1) , HS-CAN2 (high-speed controller area network 2) , HS-CAN3 (high-speed controller area network 3) , HS-CAN4 (high-speed controller area network 4) , MS-CAN (medium speed-controller area network) 1 and MS-CAN (medium speed-controller area network) 2. REFER to:

[Controller Area Network \(CAN\) Module Communications Network - Electric - System Operation and Component Description](#)

(418-00A Controller Area Network (CAN) Module Communications Network, Description and Operation).

Possible Sources

- Fuse
- Wiring, terminals and connector
- GWM (gateway module A)
- Remote DLC (data link connector)

Visual Inspection and Pre-checks

- Verify BCM (body control module) fuse 32 (20A) is OK.

H1 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, 6, 11, 14 and 16 for spreading or damage using a Rotunda flex probe with the dimensions: 1.5mm width x 0.80mm thickness.

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2431A-14	Ω	Ground

Is the resistance less than 3 ohms?

Yes	GO to H4
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No	REPAIR the circuit.
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H4 CHECK THE GWM (GATEWAY MODULE A) CASE GROUND

- Ignition OFF.
- Measure the resistance between the GWM (gateway module A) case and a good chassis ground.

Is the resistance less than 3 ohms?

Yes	GO to H5
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No	REPAIR the GWM (gateway module A) case ground as necessary.
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H5 CHECK THE DIAG 1 AND DIAG 2 NETWORK CIRCUITS FOR A SHORT TOGETHER

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2431A-5	Ω	C2431A-6

No	<p>INSTALL a new GWM (gateway module A) .</p> <p>If equipped with 8-inch center display screen/12.3-inch center display screen, REFER to: Gateway Module A (GWM) - Electric, Vehicles With: 8 Inch Center Display Screen/12 Inch Center Display Screen (418-00A Controller Area Network (CAN) Module Communications Network, Removal and Installation).</p> <p>If equipped with 15-inch center display screen, REFER to: Gateway Module A (GWM) - Electric, Vehicles With: 15.5 Inch Center Display Screen (418-00A Controller Area Network (CAN) Module Communications Network, Removal and Installation).</p>
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H7 CHECK FOR CORRECT GWM (GATEWAY MODULE A) OPERATION

- Ignition OFF.
- Disconnect and inspect the GWM (gateway module A) 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 GWM (gateway module A) connector. Make sure it seats and latches correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	<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 GWM (gateway module A) .</p> <p>If equipped with 8-inch center display screen/12.3-inch center display screen, REFER to: Gateway Module A (GWM) - Electric, Vehicles With: 8 Inch Center Display Screen/12 Inch Center Display Screen (418-00A Controller Area Network (CAN) Module Communications Network, Removal and Installation).</p> <p>If equipped with 15-inch center display screen, REFER to: Gateway Module A (GWM) - Electric, Vehicles With: 15.5 Inch Center Display Screen (418-00A Controller Area Network (CAN) Module Communications Network, Removal and Installation).</p>
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C135-45	\bar{V}	Ground
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Are the voltages greater than 11 volts?

Yes	GO to I2
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No	VERIFY BCMC (body control module C) [BJB (battery junction box)] fuses 23 (10A), 28 (50A) and 29 (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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I2 CHECK THE ABS (ANTI-LOCK BRAKE SYSTEM) MODULE GROUND CIRCUITS FOR AN OPEN

- Ignition OFF.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C135-30	Ω	Ground
C135-46	Ω	Ground

Are the resistances less than 3 ohms?

Yes	GO to I3
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No	REPAIR the circuit in question.
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I3 CHECK THE FD-CAN (FLEXIBLE DATA RATE CONTROLLER AREA NETWORK) CIRCUITS BETWEEN THE ABS (ANTI-LOCK BRAKE SYSTEM) MODULE AND THE GWM (GATEWAY MODULE A) FOR AN OPEN

(206-09 Anti-Lock Brake System (ABS) and Stability Control, Diagnosis and Testing).

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 J : THE ACCM (AIR CONDITIONING 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 54 for schematic and connector information.

Normal Operation and Fault Conditions The ACCM (air conditioning control module) communicates on the HS-CAN1 (high-speed controller area network 1) . REFER to: [Controller Area Network \(CAN\) Module Communications Network - Electric - System Operation and Component Description](#) (418-00A Controller Area Network (CAN) Module Communications Network, Description and Operation).

Possible Sources


- Fuse
- Wiring, terminals and connector
- ACCM (air conditioning control module)

Visual Inspection and Pre-checks

- Verify BCMC (body control module C) [BJB (battery junction box)] fuse 8 (20A) is OK.

J1 CHECK THE ACCM (AIR CONDITIONING CONTROL MODULE) VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect: ACCM (air conditioning control module) C1803A.
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C1803A-1		Ground

Is the voltage greater than 11 volts?

Yes

GO to [J2](#)

Are the resistances less than 3 ohms?

Yes	CONNECT all disconnected connectors. GO to J4
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No	REPAIR the circuit in question.
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J4 CHECK FOR CORRECT ACCM (AIR CONDITIONING CONTROL MODULE) OPERATION

- Ignition OFF.
- Disconnect and inspect the ACCM (air conditioning control 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 ACCM (air conditioning control 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?

Yes	<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 ACCM (air conditioning control module) .</p> <p>REFER to: Air Conditioning (A/C) Compressor - Electric (412-00 Climate Control System - General Information, Removal and Installation).</p>
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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.
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PINPOINT TEST K : THE ACCMB (AIR CONDITIONING COMPRESSOR CONTROL MODULE B) DOES NOT RESPOND TO THE DIAGNOSTIC SCAN TOOL

- Ignition OFF.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C120-4	Ω	Ground

Is the resistance less than 3 ohms?

Yes	GO to K3
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No	REPAIR the circuit.
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K3 CHECK THE HS-CAN1 (HIGH-SPEED CONTROLLER AREA NETWORK 1) CIRCUITS BETWEEN THE ACCMB (AIR CONDITIONING COMPRESSOR CONTROL MODULE B) AND THE GWM (GATEWAY MODULE A) FOR AN OPEN

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

Positive Lead	Measurement / Action	Negative Lead
C120-2	Ω	C2431A-7
C120-3	Ω	C2431A-20

Are the resistances less than 3 ohms?

Yes	CONNECT all disconnected connectors. GO to K4
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