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## 2013 FORD Figo OEM Service and Repair Workshop Manual

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**Is the resistance between 108 and 132 ohms?**

<b>Yes</b>	GO to <a href="#">C3</a>
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<b>No</b>	If the resistance is greater than 132 ohms, GO to <a href="#">C6</a> If the resistance is less than 108 ohms, GO to <a href="#">C7</a>
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**C3 CHECK THE HS-CAN1 (HIGH-SPEED CONTROLLER AREA NETWORK 1) (+) AND HS-CAN1 (HIGH-SPEED CONTROLLER AREA NETWORK 1) (-) CIRCUITS FOR A SHORT TO GROUND**

- Connect the negative battery cable.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2431A-7	$\Omega$	Ground
C2431A-20	$\Omega$	Ground

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

<b>Yes</b>	GO to <a href="#">C4</a>
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<b>No</b>	GO to <a href="#">C8</a>
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**C4 CHECK THE HS-CAN1 (HIGH-SPEED CONTROLLER AREA NETWORK 1) (+) AND HS-CAN1 (HIGH-SPEED CONTROLLER AREA NETWORK 1) (-) CIRCUITS FOR A SHORT TO VOLTAGE**

- Ignition ON.
- Measure:

**No**

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).

**C6 CHECK THE HS-CAN1 (HIGH-SPEED CONTROLLER AREA NETWORK 1) CIRCUITS BETWEEN THE BCMC (BODY CONTROL MODULE C) [ BJB (BATTERY JUNCTION BOX) ] AND THE GWM (GATEWAY MODULE A) FOR AN OPEN**

- Disconnect BCMC (body control module C) [ BJB (battery junction box) ] C1035E .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C1035E-2	$\Omega$	C2431A-7
C1035E-6	$\Omega$	C2431A-20

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

**Yes**      CONNECT all disconnected connectors. GO to [C9](#)

**No**      REPAIR the circuit in question.

**C7 CHECK THE HS-CAN1 (HIGH-SPEED CONTROLLER AREA NETWORK 1) (+) AND HS-CAN1 (HIGH-SPEED CONTROLLER AREA NETWORK 1) (-) CIRCUITS FOR A SHORT TOGETHER WITH THE MODULES**

board diagnostic control module A) (Battery Charging Control Module [BCCM]), GO to [C34](#) For the SOBDMB (Secondary On-Board Diagnostic Control Module B (SOBDMB)), GO to [C35](#)

**No** REPAIR the circuit in question. CONNECT all modules.

**C8 CHECK THE HS-CAN1 (HIGH-SPEED CONTROLLER AREA NETWORK 1) (+) AND HS-CAN1 (HIGH-SPEED CONTROLLER AREA NETWORK 1) (-) CIRCUITS FOR A SHORT TO GROUND WITH THE MODULES DISCONNECTED**

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2431A-7	$\Omega$	Ground
C2431A-20	$\Omega$	Ground

- Disconnect modules one at a time until the resistance to ground is greater than 1,000 ohms.
  - ACCM (air conditioning control module) C1803A
  - ACCMB (Air Conditioning Compressor Control Module B) C120 (if equipped)
  - BCM (body control module) C2280G
  - BCMC (body control module C) [ BJB (battery junction box) ] C1035E
  - High Voltage Battery C4238
  - DCACA (Direct Current/Alternating Current Converter Module A) C4632A
  - DCACB (Direct Current/Alternating Current Converter Module B) C4631A (if equipped)
  - DCDC (direct current/direct current converter control module) C1457B
  - FHCM (Front Hatch Control Module) C2332A
  - OBCC (Off-Board Charger Controller) C1012
  - PACM (pedestrian alert control module) C2828
  - SOBDM (secondary on-board diagnostic control module A) (Battery Charging Control Module [BCCM]) C1821A

## C10 CHECK FOR RESTORED NETWORK COMMUNICATION WITH THE DCDC (DIRECT CURRENT/DIRECT CURRENT CONVERTER CONTROL MODULE) DISCONNECTED

### NOTE

When re-running the network test, close the network test application first or the screen display reverts back to the prior network test results.

- Disconnect: DCDC (direct current/direct current converter control module) C1457B.
- Using a diagnostic scan tool, carry out the network test.

**Do all other HS-CAN1 (high-speed controller area network 1) modules pass the network test?**

<b>Yes</b>	CONNECT the module. <a href="#">GO to Pinpoint Test T</a>
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<b>No</b>	CONNECT the module. GO to <a href="#">C11</a>
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## C11 CHECK FOR RESTORED NETWORK COMMUNICATION WITH THE ACCM (AIR CONDITIONING CONTROL MODULE) AND ACCMB (AIR CONDITIONING COMPRESSOR CONTROL MODULE B) DISABLED

### NOTE

When re-running the network test, close the network test application first or the screen display reverts back to the prior network test results.

- Disconnect: BCMC (body control module C) [ BJB (battery junction box) ] fuse 8 (20A).
- Using a diagnostic scan tool, carry out the network test.

**Do all other HS-CAN1 (high-speed controller area network 1) modules pass the network test?**

<b>Yes</b>	INSTALL the removed fuse. If equipped with an ACCMB (Air Conditioning Compressor Control Module B) , GO to <a href="#">C12</a> INSTALL the removed fuse. If not equipped with an ACCMB (Air Conditioning Compressor Control Module B) , <a href="#">GO to Pinpoint Test J</a>
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<b>No</b>	INSTALL the removed fuse. GO to <a href="#">C13</a>
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## NOTE

When re-running the network test, close the network test application first or the screen display reverts back to the prior network test results.

- Disconnect: BCMC (body control module C) [ BJB (battery junction box) ] fuse 10 (10A).
- Using a diagnostic scan tool, carry out the network test.

### Do all other HS-CAN1 (high-speed controller area network 1) modules pass the network test?

<b>Yes</b>	INSTALL the removed fuse. If equipped with a DCACB (Direct Current/Alternating Current Converter Module B) , GO to <a href="#">C15</a> INSTALL the removed fuse. If not equipped with a DCACB (Direct Current/Alternating Current Converter Module B) , <a href="#">GO to Pinpoint Test R</a>
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<b>No</b>	INSTALL the removed fuse. GO to <a href="#">C16</a>
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### C15 CHECK FOR RESTORED NETWORK COMMUNICATION WITH THE DCACB (DIRECT CURRENT/ALTERNATING CURRENT CONVERTER MODULE B) DISCONNECTED

## NOTE

When re-running the network test, close the network test application first or the screen display reverts back to the prior network test results.

- Disconnect: DCACB (Direct Current/Alternating Current Converter Module B) C4631A.
- Using a diagnostic scan tool, carry out the network test.

### Do all other HS-CAN1 (high-speed controller area network 1) modules pass the network test?

<b>Yes</b>	CONNECT the module. <a href="#">GO to Pinpoint Test S</a>
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<b>No</b>	CONNECT the module. <a href="#">GO to Pinpoint Test R</a>
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### C16 CHECK FOR RESTORED NETWORK COMMUNICATION WITH THE BECM (BATTERY ENERGY CONTROL MODULE) DISABLED

When re-running the network test, close the network test application first or the screen display reverts back to the prior network test results.

- Disconnect BCMC (body control module C) [ BJB (battery junction box) ] fuse 46 (10A).
- Using a diagnostic scan tool, carry out the network test.

**Do all other HS-CAN1 (high-speed controller area network 1) modules pass the network test?**

<b>Yes</b>	INSTALL the removed fuse. <a href="#">GO to Pinpoint Test AQ</a>
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<b>No</b>	INSTALL the removed fuse. GO to <a href="#">C19</a>
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### **C19 CHECK FOR RESTORED NETWORK COMMUNICATION WITH THE OBCC (OFF-BOARD CHARGER CONTROLLER) DISCONNECTED**

#### **NOTE**

When re-running the network test, close the network test application first or the screen display reverts back to the prior network test results.

- Disconnect: OBCC (Off-Board Charger Controller) C1012.
- Using a diagnostic scan tool, carry out the network test.

**Do all other HS-CAN1 (high-speed controller area network 1) modules pass the network test?**

<b>Yes</b>	CONNECT the module. <a href="#">GO to Pinpoint Test AD</a>
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<b>No</b>	CONNECT the module. GO to <a href="#">C20</a>
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### **C20 CHECK FOR RESTORED NETWORK COMMUNICATION WITH THE FHCM (FRONT HATCH CONTROL MODULE) DISABLED**

#### **NOTE**

When re-running the network test, close the network test application first or the screen display reverts back to the prior network test results.

- 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?**

<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 ACCM (air conditioning control module) .</p> <p>REFER to: <a href="#">Air Conditioning (A/C) Compressor - Electric</a> (412-00 Climate Control System - General Information, Removal and Installation).</p>
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<b>No</b>	<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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**C23 CHECK FOR CORRECT ACCMB (AIR CONDITIONING COMPRESSOR CONTROL MODULE B) OPERATION**

- Ignition OFF.
- Disconnect and inspect the ACCMB (Air Conditioning Compressor Control Module B) 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 ACCMB (Air Conditioning Compressor Control Module B) 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 ACCMB (Air Conditioning Compressor Control Module B) .</p>
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- Reconnect the BCMC (body control module C) [ BJB (battery junction box) ] connectors. Make sure they seat and latch 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 BCMC (body control module C) [ BJB (battery junction box) ].</p> <p>REFER to: <a href="#">Body Control Module C (BCMC)</a> (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
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<b>No</b>	<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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**C26 CHECK FOR CORRECT HIGH VOLTAGE BATTERY OPERATION**

- Ignition OFF.
- Disconnect and inspect the high voltage battery 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 high voltage battery 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 High Voltage Battery.</p> <p>REFER to: <a href="#">High Voltage Battery - Electric</a> (414-03A High Voltage Battery, Mounting and Cables, Removal and Installation).</p>
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- 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 DCACB (Direct Current/Alternating Current Converter Module B) 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 DCACB (Direct Current/Alternating Current Converter Module B) .</p> <p>REFER to: <a href="#">Direct Current/Alternating Current (DC/AC) Inverter - Electric, Vehicles With: Pickup Bed Power Outlet</a> (414-05 Voltage Converter/Inverter, Removal and Installation).</p>
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<b>No</b>	<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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**C29 CHECK FOR CORRECT DCDC (DIRECT CURRENT/DIRECT CURRENT CONVERTER CONTROL MODULE) OPERATION**

- Ignition OFF.
- Disconnect and inspect all the DCDC (direct current/direct current converter control module) connectors.
- 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 DCDC (direct current/direct current converter control module) connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

**Is the concern still present?**