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2016 FORD Figo OEM Service and Repair Workshop Manual

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DISCONNECTED

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2431A-10	Ω	Ground
C2431A-23	Ω	Ground

- Disconnect modules one at a time until the resistance to ground is greater than 1,000 ohms.
  - RFA (remote function actuator) module C3860 (if equipped)
  - TCU (telematic control unit module) C4803A

Are the resistances greater than 1,000 ohms?

Yes	CONNECT the GWM (gateway module A) . For the RFA (remote function actuator) module, GO to F13 For the TCU (telematic control unit module) , GO to F14

No	REPAIR the circuit in question. CONNECT all modules.

F9 CHECK FOR RESTORED COMMUNICATION WITH THE TCU (TELEMATIC CONTROL UNIT 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: TCU (telematic control unit module) C4803A.
- Using a diagnostic scan tool, carry out the network test.

Do all other HS-CAN4 (high-speed controller area network 4) modules pass the network test?

Yes	CONNECT the module. GO to Pinpoint Test AK

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: BCM (body control module) 3-blade fuse 19/20 (5A).
- CONNECT a fused jumper wire to the open socket of BCM (body control module) fuse 20.
  Refer to Wiring Diagrams Cell 11for schematic and connector information.
- Using a diagnostic scan tool, carry out the network test.

Do all other HS-CAN4 (high-speed controller area network 4) modules pass the network test?

Yes	REMOVE the fused jumper wire and INSTALL the removed fuse. GO to Pinpoint Test AK

No	REMOVE the fused jumper wire and INSTALL the removed fuse. The HS-CAN4 (high-speed controller area network 4) tests within specification. The concern may have been caused by module connections. CONNECT any disconnected connectors or fuses. Test for normal operation. If the concern is still present, ADDRESS the root cause of any connector or pin issues.

F12 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,

- Ignition OFF.
- Disconnect and inspect the RFA (remote function actuator) 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 RFA (remote function actuator) 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	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 RFA (remote function actuator) . REFER to: Remote Function Actuator (RFA) Module (419-01D Passive Anti-Theft System (PATS) - Vehicles With: Phone as a Key, 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.

F14 CHECK THE TCU (TELEMATIC CONTROL UNIT MODULE) FOR CORRECT OPERATION

- Ignition OFF.
- Disconnect and inspect the TCU (telematic control unit 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 TCU (telematic control unit 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?

NOTE

Various modules set network DTCs during this test procedure. Clear DTCs from all modules after completing the diagnostic procedure.

G1 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 4, 5, 6, 14 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 4, 5, 6, 14 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 FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new remote DLC (data link connector) .

No	GO to G2

G2 CHECK THE MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 1 (HVAC (HEATING, VENTILATION AND AIR CONDITIONING) MODULE) TERMINATION RESISTANCE

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

Positive Lead	Measurement / Action	Negative Lead
C2431A-3	Ω	C2431A-16

C2431A-3	V	Ground
C2431A-16	V	Ground

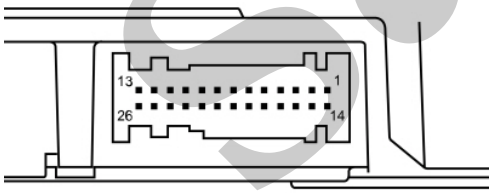
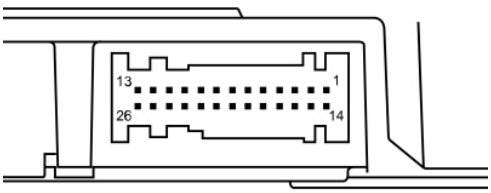
Are the voltages greater than 6 volts?

Yes	REPAIR the circuit in question.

No	GO to G5

G5 CHECK THE GWM (GATEWAY MODULE A) MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 1 TERMINATION RESISTOR (COMPONENT SIDE)

- Measure:

Positive Lead	Measurement / Action	Negative Lead
 E342878 C2431A-3 (Component Side)	Ω	 E342878 C2431A-16 (Component Side)

Is the resistance between 108 ohms and 132 ohms?

Yes	GO to G22

C228A-21	Ω	C2431A-16

Are the resistances less than 3 ohms?

Yes	CONNECT all disconnected connectors. GO to G9

No	REPAIR the circuit in question.

G7 CHECK THE MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 1 (+) AND MS-CAN (MEDIUM SPEED-CONTROLLER AREA NETWORK) 1 (-) CIRCUITS FOR A SHORT TOGETHER WITH THE MODULES DISCONNECTED

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2431A-3	Ω	C2431A-16

- Disconnect modules one at a time until the resistance is greater than 3 ohms.
  - DDM (driver door module) C501A (if equipped)
  - DSM (driver front seat module) / RBM (running board control module) C341D (if equipped)
  - HVAC (heating, ventilation and air conditioning) module C271A (15-inch display with DATC (dual automatic temperature control)) or C228A (DATC (dual automatic temperature control))
  - PDM (passenger door module) C652A (if equipped)
  - RTM (radio transceiver module) C9026
  - SCMG (driver multi-contour seat module) C3385 (if equipped)
  - SCMH (passenger multi-contour seat module) C3386 (if equipped)

Did the resistance change to greater than 3 ohms with one of the modules disconnected?

Yes	CONNECT all disconnected connectors. For the DDM (driver door module) , GO to G20 For the DSM (driver front seat module) , GO to G21 For the HVAC (heating, ventilation and air conditioning) module, GO to G23 For the PDM (passenger door module) , GO to G24 For the RTM (radio transceiver module) , GO to G25 For

	the SCMG (driver multi-contour seat module) , GO to G26 For the SCMH (passenger multi-contour seat module) , GO to G27

No	REPAIR the circuit in question. CONNECT all modules.

G9 CHECK FOR RESTORED COMMUNICATION WITH THE HVAC (HEATING, VENTILATION AND AIR CONDITIONING) 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: HVAC (heating, ventilation and air conditioning) module C271A (15-inch display with DATC (dual automatic temperature control)) or C228A (DATC (dual automatic temperature control)).
- Using a diagnostic scan tool, carry out the network test.

Do all other MS-CAN (medium speed-controller area network) 1 modules pass the network test?

Yes	CONNECT the module. GO to Pinpoint Test AA

No	CONNECT the module. GO to G10

G10 CHECK FOR RESTORED COMMUNICATION WITH THE RTM (RADIO TRANSCEIVER 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.

- Disconnect: BCM (body control module) fuse 31 (10A).
- Using a diagnostic scan tool, carry out the network test.

Do all other MS-CAN (medium speed-controller area network) 1 modules pass the network test?

Yes	INSTALL the removed fuse. GO to Pinpoint Test AM

No	GO to G15

G14 CHECK FOR RESTORED NETWORK COMMUNICATION WITH THE DDM (DRIVER DOOR 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.

- Disconnect: BCM (body control module) fuse 23 (30A).
- Using a diagnostic scan tool, carry out the network test.

Do all other MS-CAN (medium speed-controller area network) 1 modules pass the network test?

Yes	INSTALL the removed fuse. GO to Pinpoint Test U
No	INSTALL the removed fuse. GO to G15

G15 VERIFY VEHICLE EQUIPMENT - SCMG (DRIVER MULTI-CONTOUR SEAT MODULE) AND SCMH (PASSENGER MULTI-CONTOUR SEAT MODULE)

- Inspect the vehicle for a SCMG (driver multi-contour seat module) and SCMH (passenger multi-contour seat module) .

Is the vehicle equipped with a SCMG (driver multi-contour seat module) and SCMH (passenger multi-contour seat module) ?

Yes	GO to G16
No	GO to G18

G16 CHECK FOR RESTORED NETWORK COMMUNICATION WITH THE SCMG (DRIVER MULTI-CONTOUR SEAT MODULE) AND SCMH (PASSENGER MULTI-CONTOUR SEAT MODULE) DISABLED

Yes	GO to G19

No	The MS-CAN (medium speed-controller area network) 1 tests within specification. The concern may have been caused by module connections. CONNECT any disconnected connectors or fuses. Test for normal operation. If the concern is still present, ADDRESS the root cause of any connector or pin issues.

G19 CHECK FOR RESTORED NETWORK COMMUNICATION WITH THE DSM (DRIVER FRONT SEAT MODULE) / RBM (RUNNING BOARD 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.

- Disconnect: BCMC (body control module C) [BJB (battery junction box)] fuses 30 (40A) (climate controlled seats) and 38 (40A).
- Using a diagnostic scan tool, carry out the network test.

Do all other MS-CAN (medium speed-controller area network) 1 modules pass the network test?

Yes	INSTALL the removed fuses. GO to Pinpoint Test V

No	INSTALL the removed fuses. The MS-CAN (medium speed-controller area network) 1 tests within specification. The concern may have been caused by module connections. CONNECT any disconnected connectors or fuses. Test for normal operation. If the concern is still present, ADDRESS the root cause of any connector or pin issues.

G20 CHECK THE DDM (DRIVER DOOR MODULE) FOR CORRECT OPERATION

- Ignition OFF.
- Disconnect and inspect the DDM (driver door module) connector.
- Repair:
  - corrosion (install new connector or terminals - clean module pins)
  - damaged or bent pins - install new terminals/pins