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2010 FORD Figo OEM Service and Repair Workshop Manual

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Steering column position switch status	SCCM (steering column control module)	HS-CAN2 (high-speed controller area network 2)	• GWM (gateway module A)
Steering column position switch status	GWM (gateway module A)	MS-CAN (medium speed-controller area network) 1	• DSM (driver front seat module)
Steering pinion angle	PSCM (power steering control module)	FD-CAN (Flexible Data Rate Controller Area Network)	• ABS (anti-lock brake system) module • Driver Status Monitor Camera Module [CMR (Camera Module - Rear)] • IPMA (image processing module A) • PCM (powertrain control module) • TCCM (transfer case control module) • TCM (transmission control module) • VDM (vehicle dynamics control module) • GWM (gateway module A)
Steering pinion angle	GWM (gateway module A)	HS-CAN1 (high-speed controller area network 1)	• BCM (body control module)
Steering pinion angle	GWM (gateway module A)	HS-CAN2 (high-speed controller area network 2)	• HCM (headlamp control module) • RCM (restraints control module)

Stop/start drive mode indicator	GWM (gateway module A)	MS-CAN (medium speed-controller area network) 1	• HVAC (heating, ventilation and air conditioning) module
Stop/start standby indicator	BCM (body control module)	HS-CAN1 (high-speed controller area network 1)	• GWM (gateway module A)
Stop/start standby indicator	GWM (gateway module A)	FD-CAN (Flexible Data Rate Controller Area Network)	• PCM (powertrain control module)
Stop/start standby indicator	GWM (gateway module A)	MS-CAN (medium speed-controller area network) 1	• DDM (driver door module) • DSM (driver front seat module) • HVAC (heating, ventilation and air conditioning) module • PDM (passenger door module) • RTM (radio transceiver module) • SCMG (driver multi-contour seat module) • SCMH (passenger multi-contour seat module)
Suspension data	VDM (vehicle dynamics control module)	FD-CAN (Flexible Data Rate Controller Area Network)	• ABS (anti-lock brake system) module
SYNC alerts	APIM (SYNC module)	HS-CAN3 (high-speed	• ACM (audio front control module)

		controller area network 3)	

GWM (gateway module A)	U3000:04	Control Module: System Internal Failure	GO to Pinpoint Test BB
GWM (gateway module A)	U3000:43	Control Module: Special Memory Failure	GO to Pinpoint Test BB
GWM (gateway module A)	U3000:49	Control Module: Internal Electronic Failure	GO to Pinpoint Test BB
GWM (gateway module A)	U3000:57	Control Module: Invalid / Incompatible Software Component	GO to Pinpoint Test BC
GWM (gateway module A)	U3003:16	Battery Voltage: Circuit Voltage Below Threshold	GO to Pinpoint Test BD
GWM (gateway module A)	U3003:17	Battery Voltage: Circuit Voltage Above Threshold	GO to Pinpoint Test BE

Symptom Chart(s)

Symptom Chart: Communication Network

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: Diagnostic Methods

(100-00 General Information, Description and Operation).

NOTE

Modules that communicate on a private CAN are diagnosed in the module's home section and are not included in this section.

Symptom Chart

Condition	Actions
The vehicle does not start with the diagnostic scan tool connected to the remote DLC (data link connector) and/or multiple malfunction indicators are only on when the diagnostic scan tool is connected to the remote DLC (data link connector)	GO to Pinpoint Test A
No power to the remote DLC (data link connector)	GO to Pinpoint Test

The ACM (audio front control module) does not respond to the diagnostic scan tool	GO to Pinpoint Test L
The APIM (SYNC module) does not respond to the diagnostic scan tool	GO to Pinpoint Test M
The BCM (body control module) does not respond to the diagnostic scan tool	GO to Pinpoint Test N
The BCMC (body control module C) [BJB (battery junction box)] does not respond to the diagnostic scan tool	GO to Pinpoint Test O
The BECM (battery energy control module) does not respond to the diagnostic scan tool	GO to Pinpoint Test P
The CMR (Camera Module - Rear) does not respond to the diagnostic scan tool	GO to Pinpoint Test Q
The DCACA (Direct Current/Alternating Current Converter Module A) does not respond to the diagnostic scan tool	GO to Pinpoint Test R
The DCACB (Direct Current/Alternating Current Converter Module B) does not respond to the diagnostic scan tool	GO to Pinpoint Test S
The DCDC (direct current/direct current converter control module) does not respond to the diagnostic scan tool	GO to Pinpoint Test T
The DDM (driver door module) does not respond to the diagnostic scan tool	GO to Pinpoint Test U
The DSM (driver front seat module) / RBM (running board control module) does not respond to the diagnostic scan tool	GO to Pinpoint Test V

	AH
The PSCM (power steering control module) does not respond to the diagnostic scan tool	GO to Pinpoint Test AI
The RCM (restraints control module) does not respond to the diagnostic scan tool	GO to Pinpoint Test AJ
The RFA (remote function actuator) module does not respond to the diagnostic scan tool	GO to Pinpoint Test AK
The RGTM (rear gate trunk module) does not respond to the diagnostic scan tool	GO to Pinpoint Test AL
The RTM (radio transceiver module) does not respond to the diagnostic scan tool	GO to Pinpoint Test AM
The SCCM (steering column control module) does not respond to the diagnostic scan tool	GO to Pinpoint Test AN
The SCMG (driver multi-contour seat module) does not respond to the diagnostic scan tool	GO to Pinpoint Test AO
The SCMH (passenger multi-contour seat module) does not respond to the diagnostic scan tool	GO to Pinpoint Test AP
The SOBDM (secondary on-board diagnostic control module A) (Battery Charging Control Module [BCCM]) does not respond to the diagnostic scan tool	GO to Pinpoint Test AQ
The SOBDMB (Secondary On-Board Diagnostic Control Module B (SOBDMB)) (All Wheel Drive Control [AWDC]) does not respond to the diagnostic scan tool	GO to Pinpoint Test AR
The SOBDMC (secondary on-board diagnostic control module C) does not respond to the diagnostic scan tool	GO to Pinpoint Test AS

- Inspect the remote DLC (data link connector) pins 4, 5 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 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 A2

A2 CHECK THE REMOTE DLC (DATA LINK CONNECTOR) VOLTAGE SUPPLY FOR AN OPEN

- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2122-16	V	Ground

Is the voltage greater than 11 volts?

Yes	GO to A3

No	VERIFY BCMC (body control module C) [BJB (battery junction box)] fuse 160 (10A) is OK. If OK, REPAIR the circuit. If not OK, REFER to the Wiring Diagrams manual to identify the possible causes of the circuit short.

A3 CHECK THE REMOTE DLC (DATA LINK CONNECTOR) GROUND CIRCUITS FOR AN OPEN

- Measure:

- HCM (headlamp control module)
- IPMA (image processing module A)
- PCM (powertrain control module)
- PSCM (power steering control module)
- SOBDMC (secondary on-board diagnostic control module C)
- VDM (vehicle dynamics control module) (if equipped)

NOTE

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

B1 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 B2

B2 CHECK THE DIAG 1 NETWORK CIRCUIT TERMINATION RESISTANCE

- Disconnect the negative battery cable.
- Measure:

Positive Lead	Measurement / Action	Negative Lead

Positive Lead	Measurement / Action	Negative Lead
C2122-6	V	Ground
C2122-14	V	Ground

Is the voltage greater than 6 volts on either circuit?

Yes	REPAIR the circuit in question.

No	GO to B8

B5 CHECK THE DIAG 1 NETWORK CIRCUIT (+) AND (-) CIRCUITS FOR AN OPEN WITH THE GWM (GATEWAY MODULE A) DISCONNECTED

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

Positive Lead	Measurement / Action	Negative Lead
C2122-6	Ω	C2431A-5
C2122-14	Ω	C2431A-18

Are the resistances less than 3 ohms?

Yes	CONNECT the negative battery cable. GO to B28