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2007 FORD Focus Sedan OEM Service and Repair Workshop Manual

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C8 CHECK THE BCMC (BODY CONTROL MODULE C) RUN/START RELAY COIL CONTROL CIRCUIT FOR A SHORT TO VOLTAGE

- Disconnect BCMC (body control module C) C1035B .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C1035B-25		Ground


Is the voltage greater than 11 volts?

Yes	GO to C9
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No	GO to C10
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C9 ISOLATE THE BCMC (BODY CONTROL MODULE C) RUN/START RELAY COIL CONTROL CIRCUIT SHORT TO VOLTAGE

- Disconnect BCM (body control module) C2280F .
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280F-25		Ground

Is the voltage greater than 11 volts?

Yes	REPAIR the circuit.
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C2280F-25	Ω	Ground
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Is the resistance greater than 10,000 ohms?

Yes	GO to C12
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No	REPAIR the circuit.
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C12 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM (body 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 BCM (body control module) connectors and all other previously disconnected connectors. Make sure they seat and latch 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 BCM (body control module)</p> <p>REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Diagnosis and Testing).</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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PINPOINT TEST D : NO POWER IN START - CONVENTIONAL IGNITION SWITCH


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.


D2 CHECK FOR VOLTAGE TO THE PCM (POWERTRAIN CONTROL MODULE) WITH THE IGNITION SWITCH IN THE START POSITION

- Ignition OFF.
- Disconnect PCM (powertrain control module) C1232B 2.7L .
- Disconnect PCM (powertrain control module) C1233B 3.0L Diesel .
- Disconnect PCM (powertrain control module) C1551B 3.3L .
- Disconnect PCM (powertrain control module) C175B 3.5L .
- Disconnect PCM (powertrain control module) C1381B 5.0L .
- Place the ignition switch in the START position.
- Measure:


2.7L

Positive Lead	Measurement / Action	Negative Lead
C1232B-43		Ground

3.0L Diesel

Positive Lead	Measurement / Action	Negative Lead
C1233B-22		Ground

3.3L

Positive Lead	Measurement / Action	Negative Lead
C1551B-43		Ground

Positive Lead	Measurement / Action	Negative Lead
C1233B-22	Ω	C250-1

3.3L

Positive Lead	Measurement / Action	Negative Lead
C1551B-43	Ω	C250-1

3.5L

Positive Lead	Measurement / Action	Negative Lead
C175B-43	Ω	C250-1

5.0L

Positive Lead	Measurement / Action	Negative Lead
C1381B-43	Ω	C250-1

Is the resistance less than 3 ohms?

Yes	GO to D4
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No	REPAIR the circuit.
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D4 CHECK THE IGNITION START CIRCUIT FOR A SHORT TO GROUND

C1381B-43	Ω	Ground
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Is the resistance greater than 10,000 ohms?

Yes	GO to D5
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No	REPAIR the circuit.
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D5 CHECK THE IGNITION START CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition ON.
- Measure:

2.7L

Positive Lead	Measurement / Action	Negative Lead
C1232B-43	\bar{V}	Ground

3.0L Diesel

Positive Lead	Measurement / Action	Negative Lead
C1233B-22	\bar{V}	Ground

3.3L

Positive Lead	Measurement / Action	Negative Lead
C1551B-43	\bar{V}	Ground

exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern,



Guided Routine available in the on-line Workshop Manual.

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 E : THE IGNITION KEY CANNOT BE RETURNED TO THE OFF POSITION

Refer to Wiring Diagrams Cell 37 for schematic and connector information.

Normal Operation and Fault Conditions REFER to: [Steering Wheel and Column Electrical Components - System Operation and Component Description](#)

(211-05 Steering Wheel and Column Electrical Components, Description and Operation).

Possible Sources

- Wiring, terminals or connectors
- Ignition switch
- Ignition lock cylinder
- Key release interlock actuator

NOTICE

Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may damage the connector.

E1 CHECK FOR AN ENERGIZED KEY RELEASE INTERLOCK ACTUATOR

- Disconnect BCM (body control module) fuse 20 (5A).
- Attempt to turn the ignition lock cylinder to the ON position and then back to the OFF-LOCK position and remove the key.

Can the ignition lock cylinder be turned to the OFF-LOCK position and the key removed?

Yes

GO to [E3](#)

E4 CHECK THE KEY RELEASE INTERLOCK ACTUATOR CONTROL CIRCUIT FOR A SHORT TO GROUND

- Connect BCM (body control module) fuse 20 (5A).
- Select PARK.
- Disconnect Key release interlock actuator C2139 .
- Connect:

Positive Lead	Measurement / Action	Negative Lead
C2139-2	Ω	Ground

Is the resistance greater than 10000 ohms?

Yes	GO to E6
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No	GO to E5
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E5 ISOLATE THE KEY RELEASE INTERLOCK ACTUATOR CONTROL CIRCUIT FOR A SHORT TO GROUND

- Disconnect BCM (body control module) C2280B .
- Connect:

Positive Lead	Measurement / Action	Negative Lead
C2139-2	Ω	Ground

Is the resistance greater than 10000 ohms?

Yes	GO to E6
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No	REPAIR the circuit.
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BCM (body control module) B1472:12	Ignition Key Removal Inhibit: Circuit Short To Battery	Sets when the BCM (body control module) detects a short to voltage from the key removal inhibit solenoid control circuit.
BCM (body control module) B1472:14	Ignition Key Removal Inhibit: Circuit Short To Ground Or Open	Sets when the BCM (body control module) detects an open from the key removal inhibit solenoid control circuit.

Possible Sources

- Wiring, terminals or connectors
- Key Release Interlock Actuator
- BCM (body control module)

NOTICE

Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may damage the connector.

F1 CHECK THE KEY RELEASE INTERLOCK ACTUATOR POWER CIRCUIT FOR VOLTAGE

F3 CHECK THE KEY RELEASE INTERLOCK ACTUATOR CONTROL CIRCUIT FOR AN OPEN

- Disconnect BCM (body control module) C2280B .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280B-12	Ω	C2139-2

Is the resistance less than 3 ohms?

Yes GO to [F4](#)

No REPAIR the circuit.

F4 CHECK THE KEY RELEASE INTERLOCK ACTUATOR CONTROL CIRCUIT FOR A SHORT TO VOLTAGE.

- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280B-12	\overline{V}	Ground

Is any voltage present?

Yes GO to [F5](#)

No REPAIR the circuit.

F5 CHECK THE KEY RELEASE INTERLOCK ACTUATOR CONTROL CIRCUIT FOR AN OPEN