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2008 FORD Focus 5 Doors OEM Service and Repair Workshop Manual

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- Ignition OFF.
- Turn the headlamps on.
- Open the driver door.
- Monitor the headlamps on warning chime.

Does the headlamps on warning chime operate?

Yes	GO to Pinpoint Test AA
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No	GO to Pinpoint Test A
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PINPOINT TEST CJ : THE ELECTRIC VEHICLE (EV) ENGINE OFF REMINDER WARNING CHIME IS INOPERATIVE

Normal Operation and Fault Conditions

See Electric Vehicle (EV) Engine Off Reminder. REFER to: [Warning Chimes - System Operation and Component Description](#)(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

Possible Sources

- Communication concern
- Door ajar indication concern
- BCM (body control module) concern
- PCM (powertrain control module) concern
- GWM (gateway module A)
- IPC (instrument panel cluster)

CJ1 CHECK THE SEATBELT WARNING CHIME OPERATION

- Ignition OFF.
- Ignition ON.
- Unbuckle the driver seatbelt.
- Monitor the seatbelt warning chime when the ignition is transitioned from OFF to RUN for 6 seconds.

Does the seatbelt warning chime operate for approximately 6 seconds?

Yes	GO to CJ2
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PINPOINT TEST CK : THE HEADLAMPS ON WARNING CHIME IS INOPERATIVE

Normal Operation and Fault Conditions

See Headlamps On Warning Chime. REFER to: [Warning Chimes - System Operation and Component Description](#)(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

Possible Sources

- BCM (body control module)
- GWM (gateway module A)
- IPC (instrument panel cluster)

CK1 CHECK THE SEATBELT WARNING CHIME OPERATION

- Ignition OFF.
- Ignition ON.
- Unbuckle the driver seatbelt.
- Monitor the seatbelt warning chime when the ignition is transitioned from OFF to RUN for 6 seconds.

Does the seatbelt warning chime operate for approximately 6 seconds?

Yes GO to [CK2](#)

No GO to [Pinpoint Test A](#)

CK2 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) SELF-TEST

- Using a diagnostic scan tool, perform the IPC (instrument panel cluster) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes REFER to the IPC (instrument panel cluster) DTC (diagnostic trouble code) Chart.

No GO to [CK3](#)

No

[GO to Pinpoint Test A](#)

CL2 CHECK THE DOOR AJAR INDICATION

- Open the driver door.
- Observe the door ajar warning indicator or door ajar RTT (reconfigurable telltale) warning indicator.

Does the door ajar warning indicator or door ajar RTT (reconfigurable telltale) warning indicator turn on with the driver door ajar?

Yes

GO to [CL3](#)

No

[GO to Pinpoint Test AA](#)

CL3 CHECK THE PRNDL OPERATION

- Shift the transmission range selector through the ranges while observing the PRNDL indication.

Does the PRNDL indication match the selected transmission range?

Yes

GO to [CL4](#)

No

[GO to Pinpoint Test AV](#)

CL4 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) SELF-TEST

- Using a diagnostic scan tool, perform the IPC (instrument panel cluster) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes

REFER to the IPC (instrument panel cluster) DTC (diagnostic trouble code) Chart.

No

GO to [CL5](#)

Yes	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
No	DIAGNOSE the ignition system. REFER to: Steering Wheel and Column Electrical Components (211-05 Steering Wheel and Column Electrical Components, Diagnosis and Testing).

PINPOINT TEST CM : THE KEY-IN-IGNITION WARNING CHIME IS INOPERATIVE

Refer to Wiring Diagrams Cell 60for schematic and connector information.

Normal Operation and Fault Conditions See Key-In-Ignition Warning Chime. REFER to: [Warning Chimes - System Operation and Component Description](#)

(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
BCM (body control module) B10F1:14	Key In Switch: Circuit Short To Ground Or Open	A continuous and on-demand DTC (diagnostic trouble code) that sets in the BCM (body control module) if an open is detected on the key-in-ignition switch input with the ignition ON.

Possible Sources

- Wiring, terminals or connectors
- Interior lighting concern
- Key-in-ignition switch (part of the ignition switch)
- BCM (body control module)
- GWM (gateway module A)
- IPC (instrument panel cluster)

CM1 CHECK THE SEATBELT WARNING CHIME OPERATION

- Ignition OFF.
- Ignition ON.
- Monitor the seatbelt warning chime when the ignition switch is transitioned from OFF to RUN for 6 seconds.

No	GO to CM8
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CM5 CHECK THE KEY-IN-IGNITION INPUT CIRCUIT FOR VOLTAGE

- Ignition OFF.
- Insert the key into the ignition cylinder.
- Disconnect BCM (body control module) C2280B .
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280B-38	\bar{V}	Ground

Is the voltage greater than 11 volts?

Yes	GO to CM8
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No	GO to CM6
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CM6 CHECK THE KEY-IN-IGNITION INPUT CIRCUIT FOR SHORT TO GROUND

- Remove the key from the ignition cylinder.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280B-38	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to CM7
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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) .

REFER to: [Body Control Module \(BCM\)](#)

(419-10 Multifunction Electronic Modules, 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.

PINPOINT TEST CN : THE MEMORY FEEDBACK CHIME IS INOPERATIVE

Normal Operation and Fault Conditions

See Memory Feedback Chime. REFER to: [Warning Chimes - System Operation and Component Description](#)(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

Possible Sources

- Memory seat feature concern
- DSM (driver front seat module)
- GWM (gateway module A)
- IPC (instrument panel cluster)

CN1 CHECK THE SEATBELT WARNING CHIME OPERATION

- Ignition OFF.
- Ignition ON.
- Unbuckle the driver seatbelt.
- Monitor the seatbelt warning chime when the ignition is transitioned from OFF to RUN for 6 seconds.

Does the seatbelt warning chime operate for approximately 6 seconds?

Yes

GO to [CN2](#)

No

[GO to Pinpoint Test A](#)

CN2 PERFORM THE DSM (DRIVER FRONT SEAT MODULE) SELF-TEST

- Using the diagnostic scan tool, perform the DSM (driver front seat module) self-test.

See Message Center Chime. REFER to: [Warning Chimes - System Operation and Component Description](#)(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

Possible Sources

- No warnings present
- IPC (instrument panel cluster)

CO1 CHECK THE DOOR AJAR WARNING OPERATION

- Close the doors and the hood.
- Ignition ON.
- Wait until the IPC (instrument panel cluster) completes prove-out.
- Open the driver door and observe the IPC (instrument panel cluster) .
- Verify the IPC (instrument panel cluster) displays the door ajar message and the chime sounds once.

Did the door ajar message display in the message center and the chime sound once?

Yes	The system is operating correctly at this time. The message center warning chime only sounds when a new warning is displayed in the message center.
No	If the door ajar message does not display, GO to Pinpoint Test AA If the door ajar message displays and the chime does not sound, GO to CO2

CO2 CHECK FOR CORRECT IPC (INSTRUMENT PANEL CLUSTER) OPERATION

- Ignition OFF.
- Disconnect and inspect the IPC (instrument panel cluster) 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 IPC (instrument panel cluster) 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 IPC (instrument panel cluster) .
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Yes	REFER to: Front Seats (501-10A Front Seats, Diagnosis and Testing).
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No	GO to CP3
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CP3 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) SELF-TEST

- Using a diagnostic scan tool, perform the IPC (instrument panel cluster) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the IPC (instrument panel cluster) DTC (diagnostic trouble code) Chart.
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No	GO to CP4
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CP4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCs)

- Using a diagnostic scan tool, check the GWM (gateway module A) Continuous Memory Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
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No	DIAGNOSE the front power seat max recline feature. REFER to: Front Seats (501-10A Front Seats, Diagnosis and Testing).
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PINPOINT TEST CQ : THE PERIMETER ALARM CHIME IS INOPERATIVE

Normal Operation and Fault Conditions

See Perimeter Alarm Warning Chime. REFER to: [Warning Chimes - System Operation and Component Description](#)(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

Possible Sources

No	GO to CQ4
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CQ4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCs)

- Using a diagnostic scan tool, check the GWM (gateway module A) Continuous Memory Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
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No	DIAGNOSE all BCM (body control module) Diagnostic Trouble Codes (DTCs). REFER to the Master DTC (diagnostic trouble code) Chart.
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PINPOINT TEST CR : THE TRANSMISSION NOT IN PARK CHIME IS INOPERATIVE

Normal Operation and Fault Conditions

See Transmission Not In Park Chime. REFER to: [Warning Chimes - System Operation and Component Description](#)(413-01 Instrumentation, Message Center and Warning Chimes, Description and Operation).

Possible Sources

- PRNDM concern
- IPC (instrument panel cluster)

CR1 CHECK THE HEADLAMPS ON WARNING CHIME