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1999 FORD Focus 5 Doors OEM Service and Repair Workshop Manual

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- Verify the Belt-Minder® is activated or configured on for the seating position in question.
REFER to: [Seatbelt Minder Deactivating/Activating](#)(413-01 Instrumentation, Message Center and Warning Chimes, General Procedures).

Is the Belt-Minder activated for the seating position in question?

Yes	<p>If the Belt-Minder® is always on above 10 km/h (6 mph) with the seatbelt unfastened, the system is operating correctly.</p> <p>If the Belt-Minder® is always on with the seatbelt fastened or never on with the seatbelt unfastened above 10 km/h (6 mph), INSTALL a new RCM (restraints control module) . REFER to: Restraints Control Module (RCM) (501-20B Supplemental Restraint System, Removal and Installation).</p>
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No	<p>ACTIVATE the Belt-Minder® for the seating position in question. REFER to: Seatbelt Minder Deactivating/Activating (413-01 Instrumentation, Message Center and Warning Chimes, General Procedures).</p>
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PINPOINT TEST BD : THE DOOR AJAR WARNING CHIME IS INOPERATIVE

Normal Operation and Fault Conditions

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

Possible Sources

- Door ajar indication concern
- IPC (instrument panel cluster)

BD1 CHECK THE HEADLAMPS ON WARNING CHIME

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

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the DTC (diagnostic trouble code) Chart in this section.
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No	GO to BE3
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BE3 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 - Electric (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 BF : THE IGNITION-ENGINE ON WARNING CHIME IS INOPERATIVE

Normal Operation and Fault Conditions

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

Possible Sources

- Interior lighting concern
- PRND indication concern
- BCM (body control module)
- PCM (powertrain control module)
- SOBDMC (secondary on-board diagnostic control module C)
- GWM (gateway module A)
- IPC (instrument panel cluster)

BF1 CHECK THE SEATBELT WARNING CHIME OPERATION

Yes	REFER to the DTC (diagnostic trouble code) Chart in this section.
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No	GO to BF5
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BF5 PERFORM THE BCM (BODY CONTROL MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the BCM (body control module) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the Master DTC (diagnostic trouble code) Chart.
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No	GO to BF6
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BF6 PERFORM THE PCM (POWERTRAIN CONTROL MODULE) KOEO (KEY ON, ENGINE OFF) SELF-TEST

- Using a diagnostic scan tool, perform the PCM (powertrain control module) KOEO (key on, engine off) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the Master DTC (diagnostic trouble code) Chart.
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No	GO to BF7
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BF7 PERFORM THE SOBDMC (SECONDARY ON-BOARD DIAGNOSTIC CONTROL MODULE C) SELF-TEST

- Using a diagnostic scan tool, perform the SOBDMC (secondary on-board diagnostic control module C) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to the Master DTC (diagnostic trouble code) Chart.
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No

GO to [Pinpoint Test A](#)

BG2 PERFORM THE DSM (DRIVER FRONT SEAT MODULE) SELF-TEST

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

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes

REFER to: [Front Seats](#)(501-10A Front Seats, Diagnosis and Testing).

No

GO to [BG3](#)

BG3 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 DTC (diagnostic trouble code) Chart in this section.

No

GO to [BG4](#)

BG4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCS)

BH2 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) . REFER to: Instrument Panel Cluster (IPC) - Electric, Vehicles With: 8 Inch Center Display Screen/12 Inch Center Display Screen (413-01 Instrumentation, Message Center and Warning Chimes, 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 BI : THE PASSENGER SEAT MAX RECLINE WARNING CHIME IS INOPERATIVE

Normal Operation and Fault Conditions

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

Possible Sources

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

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network - Electric (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
No	DIAGNOSE the front power seat max recline feature. REFER to: Front Seats (501-10A Front Seats, Diagnosis and Testing).

PINPOINT TEST BJ : THE PERIMETER ALARM CHIME IS INOPERATIVE

Normal Operation and Fault Conditions

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

Possible Sources

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

BJ1 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.

Does the seatbelt warning chime operate for approximately 6 seconds?

Yes	GO to BJ2
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No	GO to Pinpoint Test BC
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BJ2 CHECK THE OPERATION OF THE PERIMETER ALARM

Normal Operation and Fault Conditions

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

Possible Sources

- PRND concern
- IPC (instrument panel cluster)

BK1 CHECK THE HEADLAMPS ON WARNING CHIME

- 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 AE
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No	GO to Pinpoint Test A
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PINPOINT TEST BL : THE SERVICE ADVANCETRAC WARNING CHIME IS INOPERATIVE

Normal Operation and Fault Conditions

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

Possible Sources

- Stability-traction control concern
- IPC (instrument panel cluster)

BL1 CHECK THE HEADLAMPS ON WARNING CHIME

- 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 BM3
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No	GO to Pinpoint Test Y
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BM3 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 - Electric (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 BN : LOST COMMUNICATION WITH A MODULE

Normal Operation and Fault Conditions

REFER to: [Controller Area Network \(CAN\) Module Communications Network - Electric - System Operation and Component Description](#)(418-00A Controller Area Network (CAN) Module Communications Network, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
IPC (instrument panel cluster) U0100:00	Lost Communication With ECM/PCM 'A': No Sub Type Information	Sets in continuous memory in the IPC (instrument panel cluster) if data messages received from the PCM (powertrain control module) through the GWM (gateway module A) are missing for 5 seconds or longer.
IPC (instrument panel cluster)	Lost Communication with Transfer Case Control Module:	Sets in continuous memory in the IPC (instrument panel cluster) if data messages received from the

U0151:00	Sub Type Information	RCM (restraints control module) through the GWM (gateway module A) are missing for 5 seconds or longer.
IPC (instrument panel cluster) U019B:82	Lost Communication With Battery Charger Control Module 'A': Alive/Sequence Counter Incorrect/Not Updated	Sets in continuous memory in the IPC (instrument panel cluster) if data messages received from the SOBDM (secondary on-board diagnostic control module A) through the GWM (gateway module A) are missing for 5 seconds or longer.
IPC (instrument panel cluster) U0212:00	Lost Communication With Steering Column Control Module: No Sub Type Information	Sets in continuous memory in the IPC (instrument panel cluster) if data messages received from the SCCM (steering column control module) through the GWM (gateway module A) are missing for 5 seconds or longer.
IPC (instrument panel cluster) U0212:82	Lost Communication With Steering Column Control Module: Alive/Sequence Counter Incorrect/Not Updated	Sets in continuous memory in the IPC (instrument panel cluster) if data messages received from the SCCM (steering column control module) through the GWM (gateway module A) are missing for 5 seconds or longer.
IPC (instrument panel cluster) U0232:00	Lost Communication With Side Obstacle Detection Control Module 'A': No Sub Type Information	Sets in continuous memory in the IPC (instrument panel cluster) if data messages received from the SODL (side obstacle detection control module LH) through the IPMA (image processing module A) and the GWM (gateway module A) are missing for 5 seconds or longer.
IPC (instrument panel cluster) U0233:00	Lost Communication With Side Obstacle Detection Control Module 'B': No Sub Type Information	Sets in continuous memory in the IPC (instrument panel cluster) if data messages received from the SODR (side obstacle detection control module RH) through the IPMA (image processing module A) and the GWM (gateway module A) are missing for 5 seconds or longer.
IPC (instrument panel cluster) U023A:00	Lost Communication With Image Processing Module A: No Sub Type Information	Sets in continuous memory in the IPC (instrument panel cluster) if data messages received from the IPMA (image processing module A) through the GWM (gateway module A) are missing for 5 seconds or longer.