

413-01 Instrumentation, Message Center and Warning Chimes  
Diagnosis and Testing

2019 Ranger



Procedure revision date: 11/27/2018

### Instrumentation, Message Center and Warning Chimes

#### DTC Chart: Instrument Panel Cluster (IPC)

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).

#### DTC Chart - IPC

DTC	Description	Action
P0460:11	Fuel Level Sensor "A" Circuit: Circuit Short To Ground	<a href="#">GO to Pinpoint Test C</a>
P0460:13	Fuel Level Sensor "A" Circuit: Circuit Open	<a href="#">GO to Pinpoint Test C</a>
P1534:01	Restraint Deployment Indicator Circuit: General Electrical Failure	DIAGNOSE the IPC.   <a href="#">Click here to access Guided Routine (IPC)</a> . DIAGNOSE all RCM Diagnostic Trouble Codes (DTCs). REFER to: <a href="#">Airbag Supplemental Restraint System (SRS)</a> (501-20B Supplemental Restraint System, Diagnosis and Testing).
P1706:00	High Vehicle Speed Observed in Park: No Sub Type Information	<a href="#">GO to Pinpoint Test AB</a>
U0100:00	Lost Communication With ECM/PCM "A": No Sub Type Information	<a href="#">GO to Pinpoint Test BP</a>
U0104:00	Lost Communication With Cruise Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BQ</a>
U0121:00	Lost Communication With Anti-Lock Brake System (ABS) Control Module "A": No Sub Type Information	<a href="#">GO to Pinpoint Test BS</a>
U0131:00	Lost Communication With Power Steering Control Module "A": No Sub Type Information	<a href="#">GO to Pinpoint Test BT</a>
U0138:82	Lost Communication With All Terrain Control Module: Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BU</a>
U0140:00	Lost Communication With Body Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BV</a>
U0146:00	Lost Communication With Gateway "A": No Sub Type Information	<a href="#">GO to Pinpoint Test BW</a>

U0151:00	Lost Communication With Restraints Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BX</a>
U0159:00	Lost Communication With Parking Assist Control Module "A": No Sub Type Information	<a href="#">GO to Pinpoint Test BY</a>
U0184:00	Lost Communication With Radio: No Sub Type Information	<a href="#">GO to Pinpoint Test BZ</a>
U0212:00	Lost Communication With Steering Column Control Module No Sub Type Information	<a href="#">GO to Pinpoint Test CA</a>
U0232:00	Lost Communication With Side Obstacle Detection Control Module - Left: No Sub Type Information	<a href="#">GO to Pinpoint Test CB</a>
U0233:00	Lost Communication With Side Obstacle Detection Control Module - Right: No Sub Type Information	<a href="#">GO to Pinpoint Test CB</a>
U023A:00	Lost Communication With Image Processing Module A: No Sub Type Information	<a href="#">GO to Pinpoint Test CC</a>
U0256:00	Lost Communication With Front Controls Interface Module "A": No Sub Type Information	<a href="#">GO to Pinpoint Test CD</a>
U0401:00	Invalid Data Received from ECM/PCM A: No Sub Type Information	<a href="#">GO to Pinpoint Test BP</a>
U0401:81	Invalid Data Received from ECM/PCM A: Invalid Serial Data Received	<a href="#">GO to Pinpoint Test BP</a>
U0401:82	Invalid Data Received from ECM/PCM A: Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BP</a>
U0405:56	Invalid Data Received From Cruise Control Module: Invalid/Incompatible Configuration	<a href="#">GO to Pinpoint Test BR</a>
U0415:00	Invalid Data Received From Anti-Lock Brake System (ABS) Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BS</a>
U0415:82	Invalid Data Received From Anti-Lock Brake System (ABS) Control Module: Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BS</a>
U0420:00	Invalid Data Received From Power Steering Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BT</a>
U0420:82	Invalid Data Received From Power Steering Control Module: Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BT</a>

U0422:00	Invalid Data Received From Body Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BV</a>
U0422:82	Invalid Data Received From Body Control Module: Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BV</a>
U0431:82	Invalid Data Received From Body Control Module "A": Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BV</a>
U0452:81	Invalid Data Received From Restraints Control Module: Invalid Serial Data Received	<a href="#">GO to Pinpoint Test BX</a>
U045A:82	Invalid Data Received From Parking Assist Control Module "A": Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BY</a>
U0533:00	Invalid Data Received From Side Obstacle Detection Control Module-Left: No Sub Type Information	<a href="#">GO to Pinpoint Test CB</a>
U0533:56	Invalid Data Received From Side Obstacle Detection Control Module-Left: Invalid/Incompatible Configuration	<a href="#">GO to Pinpoint Test CE</a>
U0533:82	Invalid Data Received From Side Obstacle Detection Control Module-Left: Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test CB</a>
U0534:00	Invalid Data Received From Side Obstacle Detection Control Module-Right: No Sub Type Information	<a href="#">GO to Pinpoint Test CB</a>
U0534:56	Invalid Data Received From Side Obstacle Detection Control Module-Right: Invalid/Incompatible Configuration	<a href="#">GO to Pinpoint Test CE</a>
U0534:82	Invalid Data Received From Side Obstacle Detection Control Module-Right: Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test CB</a>
U0557:00	Invalid Data Received From Front Controls Interface Module "A": No Sub Type Information	<a href="#">GO to Pinpoint Test CD</a>
U0557:81	Invalid Data Received From Front Controls Interface Module "A": Invalid Serial Data Received	<a href="#">GO to Pinpoint Test CD</a>
U0557:82	Invalid Data Received From Front Controls Interface Module "A": Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test CD</a>
U2100:00	Initial Configuration Not Complete: No Sub Type Information	<a href="#">GO to Pinpoint Test CF</a>

U3000:41	Control Module: General Checksum Failure	<a href="#">GO to Pinpoint Test CG</a>
U3000:42	Control Module: General Memory Failure	<a href="#">GO to Pinpoint Test CG</a>
U3000:43	Control Module: Special Memory Failure	<a href="#">GO to Pinpoint Test CG</a>
U3000:44	Control Module: Data Memory Failure	<a href="#">GO to Pinpoint Test CG</a>
U3000:46	Control Module: Calibration/Parameter Memory Failure	<a href="#">GO to Pinpoint Test CG</a>
U3000:54	Control Module: Missing Calibration	<a href="#">GO to Pinpoint Test CG</a>
U3003:16	Battery Voltage: Circuit Voltage Below Threshold	<a href="#">GO to Pinpoint Test CH</a>
U3003:17	Battery Voltage: Circuit Voltage Above Threshold	<a href="#">GO to Pinpoint Test CI</a>
U300A:64	Ignition Switch: Signal Plausibility Failure	<u>DTC</u> U300A:64 sets in continuous memory when the <u>IPC</u> detects a messaged START input for 15 seconds or longer. Once the fault condition is detected, the <u>IPC</u> operates with limited functionality for 15 seconds then returns to full functionality. DIAGNOSE any ignition or starting system concerns.

### DTC Chart: Body Control Module (BCM)

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).

### DTC Chart - BCM

DTC	Description	Action
B1048:01	Brake Fluid Level Switch: General Electrical Failure	<a href="#">GO to Pinpoint Test P</a>
B1048:7B	Brake Fluid Level Switch: Low Fluid Level	<a href="#">GO to Pinpoint Test P</a>
B10F1:14	Key In Switch: Circuit Short To Ground or Open	<ul style="list-style-type: none"> <li>If the key in ignition warning chime is inoperative, <a href="#">GO to Pinpoint Test BJ</a></li> <li>If the key in ignition warning chime always sounds, <a href="#">GO to Pinpoint Test BF</a></li> </ul>
C1D00:11	Park Brake Apply Switch: Circuit Short To Ground	<a href="#">GO to Pinpoint Test P</a>
All other DTCs	-	REFER to: <a href="#">Body Control Module (BCM)</a> (419-10 Multifunction Electronic Modules, Diagnosis and Testing).

**DTC Chart: PCM**

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).

**DTC Chart - PCM**

DTC	Description	Action
P0461	Fuel Level Sensor "A" Circuit Range/Performance	<a href="#">GO to Pinpoint Test C</a>
P0462	Fuel Level Sensor "A" Circuit Low	<a href="#">GO to Pinpoint Test C</a>
P0463	Fuel Level Sensor "A" Circuit High	<a href="#">GO to Pinpoint Test C</a>
P0521	Engine Oil Pressure Sensor/Switch "A" Circuit Range/Performance	<a href="#">GO to Pinpoint Test X</a>
P0522	Engine Oil Pressure Sensor/Switch "A" Circuit Low	<a href="#">GO to Pinpoint Test X</a>
P0523	Engine Oil Pressure Sensor/Switch "A" Circuit High	<a href="#">GO to Pinpoint Test X</a>
P0524	Engine Oil Pressure Too Low	<a href="#">GO to Pinpoint Test X</a>
P25B0	Fuel Level Sensor "A" Stuck	<a href="#">GO to Pinpoint Test C</a>
All other DTCs	-	REFER to: <a href="#">Electronic Engine Controls</a> (303-14 Electronic Engine Controls - 2.3L EcoBoost (201kW/273PS), Diagnosis and Testing).

**DTC Chart: Steering Column Control Module (SCCM)**

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).

**DTC Chart - SCCM**

DTC	Description	Action
B137F:11	Steering Wheel Left Switch Pack: Circuit Short To Ground	<a href="#">GO to Pinpoint Test AI</a>
B137F:13	Steering Wheel Left Switch Pack: Circuit Open	<a href="#">GO to Pinpoint Test AI</a>
B137F:96	Steering Wheel Left Switch Pack: Component Internal Failure	<a href="#">GO to Pinpoint Test AI</a>
B137F:9E	Steering Wheel Left Switch Pack:: Stuck On	<a href="#">GO to Pinpoint Test AI</a>
All other	-	

DTCs	REFER to: <a href="#">Steering Wheel and Column Electrical Components</a> (211-05 Steering Wheel and Column Electrical Components, Diagnosis and Testing).
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## Symptom Chart(s)

### Symptom Chart: Instrument Panel Cluster (IPC)

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).

### Symptom Chart

Condition	Possible Sources	Actions
A module does not respond to the diagnostic scan tool	<ul style="list-style-type: none"> <li>Fuse</li> <li>Wiring, terminals or connectors</li> <li>Communication concern</li> <li>Module</li> </ul>	REFER to: <a href="#">Communications Network</a> (418-00 Module Communications Network, Diagnosis and Testing).
The <u>IPC</u> is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test A</a>
Multiple gauges, indicators, <u>RTT</u> indicators, warnings and chimes are inoperative or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test A</a>
Incorrect fuel gauge indication	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test C</a>
The speedometer is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test D</a>
Incorrect speedometer indication	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test E</a>
The odometer is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test F</a>
The analog tachometer is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test G</a>
Incorrect analog tachometer indication	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test H</a>
The analog temperature gauge is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test I</a>
Incorrect analog temperature gauge indication	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test J</a>
A virtual gauge (fuel, tachometer or temperature) is inoperative (high level <u>IPC</u> )	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test B</a>
The <u>4WD</u> High/Low indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test K</a>
The <u>ABS</u> warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test L</a>
The airbag warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test M</a>


The auto stop-start indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test N</a>
The brake warning indicator is never on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test O</a>
The brake warning indicator is always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test P</a>
The charging system warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test Q</a>
The door ajar indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test R</a>
The <u>ESC</u> indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AF</a>
The engine over-temperature warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test S</a>
The front fog lamp indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test U</a>
The hill descent control indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test T</a>
The <u>LH</u> - <u>RH</u> turn signal or high beam indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test U</a>
The lights on indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test V</a>
The <u>LED</u> low beam malfunction indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test W</a>
The low engine oil pressure warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test X</a>
The low fuel warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test Y</a>
The <u>MIL</u> is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test Z</a>
The PRNDL indicator is never on or never displays P	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AB</a>
The powertrain malfunction (wrench) indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AA</a>
The seatbelt warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AC</a>
The stability-traction control indicator (sliding car icon) is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AD</a>
The stability-traction control disabled indicator (sliding car OFF icon) is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AE</a>
The <u>TPMS</u> warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AG</a>

The tow haul indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AH</a>
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### Symptom Chart: Information And Message Center -Displays

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).

#### Symptom Chart

Condition	Possible Sources	Actions
The message center is not operating correctly	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AI</a>
The LH or RH message center display is blank (high level IPC)	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AI</a>
A virtual display is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AI</a>
The adaptive cruise control distance display is inoperative	Refer to the Pinpoint Test	DIAGNOSE the adaptive cruise control indications. <a href="#">GO to Pinpoint Test AP</a>
The compass is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AJ</a>
The digital speedometer displays the incorrect speed	Refer to the Pinpoint Test	DIAGNOSE the speedometer. <a href="#">GO to Pinpoint Test E</a>
The DTE-Average Fuel Economy (AFE) display is inoperative	IPC	<ul style="list-style-type: none"> <li>CHECK the operation of the fuel gauge, the speedometer and the odometer. <ul style="list-style-type: none"> <li>If the fuel gauge does not operate correctly, <a href="#">GO to Pinpoint Test C</a></li> <li>If the speedometer does not operate correctly, <a href="#">GO to Pinpoint Test D</a></li> <li>If the odometer does not operate correctly, <a href="#">GO to Pinpoint Test F</a></li> <li>If the speedometer, the fuel gauge and the odometer operate correctly,  <a href="#">Click here to access Guided Routine (IPC)</a>.</li> </ul> </li> </ul>
The DTE display is incorrect or fluctuates	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AK</a>
The lane keeping alert display is inoperative	Lane keeping alert system concern	DIAGNOSE the lane keeping aid or lane keeping alert doesn't turn on or activate. REFER to: <a href="#">Lane Keeping System</a> (419-07 Lane Keeping System, Diagnosis and Testing).
The off road display is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AL</a>

The outside air temperature display is inoperative or incorrect	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AM</a>
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### Symptom Chart: Information And Message Center - RTT Indicators

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).

#### Symptom Chart

Condition	Possible Sources	Actions
The 4WD high/low <u>RTT</u> indicator is never or always displayed	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test K</a>
The auto stop-start <u>RTT</u> indicator is never or always displayed	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test N</a>
The auto high beam <u>RTT</u> indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AN</a>
The Blind Spot Information System (BLIS®) off <u>RTT</u> indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AO</a>
The charging system <u>RTT</u> warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test Q</a>
The compass <u>RTT</u> indicator is inoperative or never on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AJ</a>
The cruise control <u>RTT</u> indicator is never on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AP</a>
The distance alert <u>RTT</u> is never on.	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AQ</a>
The door ajar <u>RTT</u> warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test R</a>
The engine over-temperature <u>RTT</u> warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test S</a>
The forward collision <u>RTT</u> warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AR</a>
The hill descent <u>RTT</u> is never or always on	Refer to the Pinpoint Test	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, DIAGNOSE the hill descent switch. <a href="#">GO to Pinpoint Test T</a></li> </ul>
The lane keeping system <u>RTT</u>	Refer to the	<a href="#">GO to Pinpoint Test AS</a>

indicator is never or always on	Pinpoint Test	
The low engine oil pressure <u>RTT</u> warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test X</a>
The low fuel <u>RTT</u> warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test Y</a>
The low washer fluid level <u>RTT</u> warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AT</a>
The powertrain malfunction (wrench) <u>RTT</u> indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AA</a>
The rear differential lock <u>RTT</u> indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AU</a>
The rear seatbelt <u>RTT</u> warning indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AV</a>
The SelectShift <u>RTT</u> indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AW</a>
The terrain management drive mode <u>RTT</u> indicators are never on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AX</a>
The trail control <u>RTT</u> indicator is never or always on	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AY</a>



### Symptom Chart: Information And Message Center - Warnings

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).

### Symptom Chart

Condition	Possible Sources	Actions
The <u>4WD</u> message is always displayed	<u>4WD</u> concern	DIAGNOSE the <u>4WD</u> system. REFER to: <a href="#">Four-Wheel Drive Systems</a> (308-07A Four-Wheel Drive Systems, Diagnosis and Testing).
The adaptive cruise control message is always displayed	Adaptive cruise control concern	DIAGNOSE the adaptive cruise control system. REFER to: <a href="#">Cruise Control</a> (419-03B Cruise Control - Vehicles With: Adaptive Cruise Control, Diagnosis and Testing).
A Blind Spot Information System (BLIS®)/Cross Traffic Alert (CTA) fault message is always displayed	Blind Spot Information System (BLIS®)/Cross Traffic Alert (CTA) system concern	DIAGNOSE the Blind Spot System (BLIS®)/Cross Traffic Alert (CTA) system. REFER to: <a href="#">Blind Spot Information System</a> (419-04 Side and Rear Vision, Diagnosis and Testing).
A brake warning (brake	<ul style="list-style-type: none"> <li>Message center</li> </ul>	<ul style="list-style-type: none"> <li>OPEN then CLOSE the driver door</li> </ul>

fluid level low, parking brake applied or brake system malfunction) message is never or always displayed	<ul style="list-style-type: none"> <li>concern</li> <li>• Brake warning indication concern</li> </ul>	<p>and VERIFY the driver door ajar message displays correctly with the door open and closed.</p> <ul style="list-style-type: none"> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly and the brake warning indicator is never on, <a href="#">GO to Pinpoint Test O</a></li> <li>• If the driver door ajar message functions correctly and the brake warning indicator is always on, <a href="#">GO to Pinpoint Test P</a></li> </ul>
The charging system warning message is always displayed	Charging system concern	DIAGNOSE the charging system. REFER to: <a href="#">Charging System - 2.3L EcoBoost (201kW/273PS)</a> (414-00 Charging System - General Information, Diagnosis and Testing).
The check fuel fill inlet message is always displayed	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test AZ</a>
A door or hood ajar warning message is never or always displayed	<ul style="list-style-type: none"> <li>• Message center concern</li> <li>• Door ajar <u>RTT</u> indication concern</li> </ul>	DIAGNOSE the door ajar <u>RTT</u> . <a href="#">GO to Pinpoint Test R</a>
A driver alert warning message is never or always displayed	<ul style="list-style-type: none"> <li>• Message center concern</li> <li>• Driver alert system concern</li> </ul>	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, DIAGNOSE the driver alert system. REFER to: <a href="#">Lane Keeping System</a> (419-07 Lane Keeping System, Diagnosis and Testing).</li> </ul>
The <u>EPAS</u> (steering system) malfunction message is always on	<ul style="list-style-type: none"> <li>• Message center concern</li> <li>• <u>EPAS</u> system concern</li> </ul>	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, DIAGNOSE the <u>EPAS</u>. REFER to: <a href="#">Power Steering</a> (211-02 Power Steering, Diagnosis and Testing).</li> </ul>
The engine oil life message is never displayed	<ul style="list-style-type: none"> <li>• Message center concern</li> </ul>	<b>NOTE:</b> <i>Using the system check in the message center, verify the oil life is between</i>

	<ul style="list-style-type: none"> <li>The <b>PCM</b> has not reached the programmed mileage/time based on the criteria required to display the message.</li> </ul>	<p><i>1 and 5% for the CHANGE ENGINE OIL SOON message or at 0% for the OIL CHANGE REQUIRED message.</i></p> <ul style="list-style-type: none"> <li>OPEN then CLOSE the driver door and VERIFY the driver door ajar message functions correctly.</li> <li>If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>If the driver door ajar message functions correctly with the oil life between 0-5%,   <a href="#">Click here to access Guided Routine (IPC)</a>.</li> <li>If the driver door ajar message functions correctly with the oil life <b>not</b> at the specified value, INFORM the customer how the message center functions and how the oil life messages are set.</li> </ul>
The engine oil change message is always displayed	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BA</a>
The engine on warning message is always displayed	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BB</a>
The engine over-temperature warning message is never or always displayed	<ul style="list-style-type: none"> <li>Message center concern</li> <li>Engine over-temperature indication concern</li> </ul>	<ul style="list-style-type: none"> <li>OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>If the driver door ajar message functions correctly, DIAGNOSE the engine over-temperature warning indicator. <a href="#">GO to Pinpoint Test S</a></li> </ul>
The factory or transport mode message is always displayed	Vehicle is in factory or transport mode	<p>PLACE the vehicle in normal operation mode.</p> <p>REFER to: <a href="#">Factory Mode Deactivation</a> (419-10 Multifunction Electronic Modules, General Procedures).</p> <p>or REFER to: <a href="#">Transport Mode Deactivation</a> (419-10 Multifunction Electronic Modules, General Procedures).</p>
A forward collision warning message is always displayed	Forward collision concern	<p>DIAGNOSE the forward collision warning system.</p> <p>REFER to: <a href="#">Collision Warning and Collision Avoidance System</a> (419-03C Collision Warning and Collision Avoidance System, Diagnosis and Testing).</p>
A hill descent control message is always	Hill descent control feature concern	<p>DIAGNOSE the hill descent control system.</p> <p>REFER to: <a href="#">Anti-Lock Brake System (ABS)</a></p>

displayed		<a href="#">and Stability Control</a> (206-09 Anti-Lock Brake System (ABS) and Stability Control, Diagnosis and Testing).
The hill start assist not available message is always displayed	Hill start assist feature concern	DIAGNOSE the hill start assist feature. REFER to: <a href="#">Anti-Lock Brake System (ABS) and Stability Control</a> (206-09 Anti-Lock Brake System (ABS) and Stability Control, Diagnosis and Testing).
The lane keeping alert system warning message (keep hands on wheel) is never or always displayed	<ul style="list-style-type: none"> <li>• Message center concern</li> <li>• Lane keeping alert warning chime concern</li> </ul>	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, DIAGNOSE the lane keeping alert warning chime. <a href="#">GO to Pinpoint Test BK</a></li> </ul>
A lane keeping system fault message is always displayed	Lane departure warning system concern	DIAGNOSE the lane keeping system. REFER to: <a href="#">Lane Keeping System</a> (419-07 Lane Keeping System, Diagnosis and Testing).
A load shed warning message is always displayed	<ul style="list-style-type: none"> <li>• Message center concern</li> <li>• Charging system indication concern</li> </ul>	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, DIAGNOSE the charging system warning indicator or charging system <a href="#">RTT</a>. <a href="#">GO to Pinpoint Test Q</a></li> </ul>
A locking system (child lock malfunction, switches inhibited) warning message is always displayed	Locking system concern	DIAGNOSE the locking system. REFER to: <a href="#">Locks, Latches and Entry Systems</a> (501-14 Handles, Locks, Latches and Entry Systems, Diagnosis and Testing).
The low fuel warning message is always displayed	Refer to the Pinpoint Test	DIAGNOSE the low fuel warning indicator. <a href="#">GO to Pinpoint Test Y</a>
The low engine oil pressure warning message is always displayed	<ul style="list-style-type: none"> <li>• Message center concern</li> <li>• Low engine oil pressure indication concern</li> </ul>	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, DIAGNOSE the low engine oil pressure indicator or <a href="#">RTT</a> indicator. <a href="#">GO to Pinpoint Test X</a></li> </ul>

A MyKey® menu is not available or incorrect	<ul style="list-style-type: none"> <li>• MyKey® programmed key in use</li> <li>• Number of keys set to unlimited mode</li> <li>• Non-Ford approved remote start system installed</li> </ul>	<p><b>NOTE:</b> MyKey® may not be compatible with non-Ford approved remote start systems.</p> <ul style="list-style-type: none"> <li>• REFER to the Owner's Literature.</li> </ul>
The parking aid message is always displayed	Parking aid system concern	DIAGNOSE the parking aid system. REFER to: <a href="#">Parking Aid</a> (413-13A Parking Aid, Diagnosis and Testing).
A passive entry-start message (key program failure, key battery low) is always displayed	<u>PATS</u> concern	DIAGNOSE the <u>PATS</u> . REFER to: <a href="#">Passive Anti-Theft System (PATS)</a> (419-01B Passive Anti-Theft System (PATS), Diagnosis and Testing). or REFER to: <a href="#">Passive Anti-Theft System (PATS)</a> (419-01C Passive Anti-Theft System (PATS) - Vehicles With: Keyless Vehicle System, Diagnosis and Testing).
The perimeter alarm message is always displayed	<ul style="list-style-type: none"> <li>• Message center concern</li> <li>• Perimeter alarm concern</li> </ul>	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, REFER to: <a href="#">Perimeter Anti-Theft Alarm</a> (419-01A Perimeter Anti-Theft Alarm, Diagnosis and Testing).</li> </ul>
The PRNDL not in park (shift to park) message is always displayed	<ul style="list-style-type: none"> <li>• Message center concern</li> <li>• PRNDL not in park warning chime concern</li> </ul>	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, DIAGNOSE the PRNDL. <a href="#">GO to Pinpoint Test AB</a></li> </ul>
The rear differential lock message is always displayed	Rear locking differential concern	DIAGNOSE the rear locking differential. REFER to: <a href="#">Four-Wheel Drive Systems</a> (308-07A Four-Wheel Drive Systems, Diagnosis and Testing).
A starting/ignition status message is always on	<ul style="list-style-type: none"> <li>• Message center concern</li> <li>• Push button start concern</li> </ul>	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, DIAGNOSE the ignition/starting system concern.</li> </ul>



		REFER to: <a href="#">Steering Wheel and Column Electrical Components</a> (211-05 Steering Wheel and Column Electrical Components, Diagnosis and Testing).
A terrain management drive mode warning message is always displayed	Terrain management concern	DIAGNOSE the terrain management drive mode system. REFER to: <a href="#">Anti-Lock Brake System (ABS) and Stability Control</a> (206-09 Anti-Lock Brake System (ABS) and Stability Control, Diagnosis and Testing).
A <u>TPMS</u> malfunction message is always displayed	<ul style="list-style-type: none"> <li>• Message center concern</li> <li>• <u>TPMS</u> warning indication concern</li> </ul>	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door and VERIFY the driver door ajar message displays correctly with the door open and closed.</li> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, DIAGNOSE the <u>TPMS</u> warning indicator. <a href="#">GO to Pinpoint Test AG</a></li> </ul>
The tire training complete message is never on	<u>TPMS</u> sensor training incomplete	<p><b>NOTE:</b> <i>This message only appears during the <u>TPMS</u> sensor training procedure.</i></p> <ul style="list-style-type: none"> <li>• CARRY OUT the <u>TPMS</u> sensor training. REFER to: <a href="#">Tire Pressure Monitoring System (TPMS)</a> (204-04B Tire Pressure Monitoring System (TPMS), Diagnosis and Testing).</li> </ul>
A tire training message (train left front, right front, left rear or right rear tire) message is never on	<ul style="list-style-type: none"> <li>• <u>TPMS</u> warning indicator concern</li> <li>• <u>TPMS</u> sensor training concern</li> </ul>	<p><b>NOTE:</b> <i>These messages only appear during the <u>TPMS</u> sensor training procedure.</i></p> <ul style="list-style-type: none"> <li>• VERIFY the <u>TPMS</u> warning indicator functions.</li> <li>• If the <u>TPMS</u> warning indicator does not operate, <a href="#">GO to Pinpoint Test AG</a></li> <li>• If the <u>TPMS</u> warning indicator operates, CARRY OUT the <u>TPMS</u> sensor training. REFER to: <a href="#">Tire Pressure Monitoring System (TPMS)</a> (204-04B Tire Pressure Monitoring System (TPMS), Diagnosis and Testing).</li> </ul>
The tires not trained message is always on	<u>TPMS</u> sensor training concern	<ul style="list-style-type: none"> <li>• This message only appears during the <u>TPMS</u> sensor training procedure.</li> <li>• CARRY OUT the <u>TPMS</u> sensor training. REFER to: <a href="#">Tire Pressure Monitoring System (TPMS)</a> (204-04B Tire Pressure Monitoring System (TPMS), Diagnosis and Testing).</li> </ul>
A transmission warning	<ul style="list-style-type: none"> <li>• Message center</li> </ul>	<ul style="list-style-type: none"> <li>• OPEN then CLOSE the driver door</li> </ul>



message is always displayed	concern <ul style="list-style-type: none"> <li>• Transmission concern</li> </ul>	and VERIFY the driver door ajar message displays correctly with the door open and closed. <ul style="list-style-type: none"> <li>• If the driver door ajar message does not function correctly, <a href="#">GO to Pinpoint Test R</a></li> <li>• If the driver door ajar message functions correctly, DIAGNOSE the transmission concern. REFER to: <a href="#">Diagnostic Trouble Code (DTC) Charts and Pinpoint Tests - 2.3L EcoBoost (201kW/273PS) (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing)</a>.</li> </ul>
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### Symptom Chart: Warning Chimes

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).

### Symptom Chart

Condition	Possible Sources	Actions
All the chimes are inoperative	<a href="#">IPC</a>	<a href="#">GO to Pinpoint Test A</a>
The chime always sounds	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BF</a>
The chime only sounds from the <a href="#">IPC</a>	Refer to the Pinpoint Test	<ul style="list-style-type: none"> <li>• Using a diagnostic scan tool, perform the <a href="#">IPC</a> self-test.</li> <li>• If any Diagnostic Trouble Codes (DTCs) are present, REFER to the <a href="#">IPC DTC DTC Chart</a>.</li> <li>• If no Diagnostic Trouble Codes (DTCs), DIAGNOSE the audio system. Without SYNC, REFER to: <a href="#">Information and Entertainment System (415-00A Information and Entertainment System - General Information - Vehicles With: AM/FM, Diagnosis and Testing)</a>. With SYNC, REFER to: <a href="#">Information and Entertainment System (415-00B Information and Entertainment System - General Information - Vehicles With: SYNC 3, Diagnosis and Testing)</a>.</li> </ul>
The adaptive cruise control warning chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BD</a>
The airbag secondary warning chime is inoperative	<ul style="list-style-type: none"> <li>• Normal condition</li> <li>• <a href="#">IPC</a></li> </ul>	<ul style="list-style-type: none"> <li>• Using a diagnostic scan tool, PERFORM the <a href="#">IPC</a> self-test.</li> <li>• If <a href="#">DTC</a> P1534:01 is present,   <a href="#">Click here to access Guided Routine (IPC)</a>.</li> </ul>

		<ul style="list-style-type: none"> <li>If <u>DTC</u> P1534:01 is <b>not</b> present, the system is operating correctly. The airbag secondary warning chime sounds only when a fault in the airbag warning indicator is present and <u>DTC</u> P1534:01 is recorded.</li> </ul>
The airbag secondary warning chime has activated	<u>IPC</u>	 <a href="#">Click here to access Guided Routine (IPC).</a>
The Belt-Minder® feature is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BN</a>
The Belt-Minder® cannot be deactivated	MyKey® programmed key in use	The system is operating correctly. Use an administrator key to disable the Belt-Minder®.
The Blind Spot Information System (BLIS®)/Cross Traffic Alert (CTA) warning chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BE</a>
The door ajar warning chime is inoperative	<ul style="list-style-type: none"> <li>Door ajar indication concern</li> <li><u>IPC</u></li> </ul>	<ul style="list-style-type: none"> <li>With the ignition OFF, the headlamps in the PARKING LAMPS position and the doors closed, OPEN the driver door and VERIFY the headlamps on warning chime sounds.</li> <li>If the headlamps on chime sounds, <a href="#">GO to Pinpoint Test R</a></li> <li>If the headlamps on chime does not sound,  <a href="#">Click here to access Guided Routine (IPC).</a></li> </ul>
The forward collision warning chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BG</a>
The headlamps on warning chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BH</a>
The ignition-engine on warning chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BI</a>
The key-in-ignition warning chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BJ</a>
The lane keeping aid warning chime is inoperative	Refer to the Pinpoint Test	<p><b>NOTE:</b> The lane keeping aid warning chime only sounds to alert the driver they have their hands off the steering wheel. Normal alerting is done through steering wheel vibrations, which cannot be felt when the driver's hands are not on the steering wheel.</p> <p><a href="#">GO to Pinpoint Test BK</a></p>
The lane keeping aid warning chime sounds with the hands on the steering wheel	Road conditions	<p>Certain road conditions could lead to false activation of the chime.</p> <p>REFER to: <a href="#">Lane Keeping System</a> (419-07 Lane Keeping System, Diagnosis and Testing).</p>
The message center warning chime is	<ul style="list-style-type: none"> <li>No warnings</li> </ul>	<ul style="list-style-type: none"> <li>With all the doors closed and the ignition OFF, PLACE the ignition ON. Once the <u>IPC</u> has</li> </ul>

inoperative	<ul style="list-style-type: none"> <li>present</li> <li><u>IPC</u></li> </ul>	<p>completed the prove-out, OPEN the driver door and VERIFY the message center displays the door ajar <u>RTT</u> indicator and the chime sounds once.</p> <ul style="list-style-type: none"> <li>If the chime sounds, the system is operating correctly. The message center warning chime only sounds when a new warning is displayed in the message center.</li> <li>If the door ajar message does not display, <a href="#">GO to Pinpoint Test R</a></li> <li>If the door ajar message displays and the chime does not sound,   <a href="#">Click here to access Guided Routine (IPC).</a></li> </ul>
The parking aid chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BC</a>
The parking brake warning chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BL</a>
The perimeter alarm chime is inoperative	<ul style="list-style-type: none"> <li>Perimeter alarm concern</li> <li><u>IPC</u></li> </ul>	<a href="#">GO to Pinpoint Test BM</a>
The PRNDL not in park warning chime is inoperative	<ul style="list-style-type: none"> <li>PRNDL indication concern</li> <li><u>IPC</u></li> </ul>	<ul style="list-style-type: none"> <li>With the ignition OFF, the headlamps in the PARKING LAMPS position and the doors closed, OPEN the driver door and VERIFY the headlamps on warning chime sounds.</li> <li>If the headlamps on chime sounds, DIAGNOSE the PRNDL indicator. <a href="#">GO to Pinpoint Test AB</a></li> <li>If the headlamps on chime does not sound,   <a href="#">Click here to access Guided Routine (IPC).</a></li> </ul>
The seatbelt warning chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BN</a>
The turn signal-hazard on warning chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BO</a>
The turn signal left on chime is inoperative	Refer to the Pinpoint Test	<a href="#">GO to Pinpoint Test BO</a>

## Pinpoint Tests

► [PINPOINT TEST A : THE IPC \(INSTRUMENT PANEL CLUSTER\) IS INOPERATIVE/MULTIPLE GAUGES, INDICATORS, RTT \(RECONFIGURABLE TELLTALE\) INDICATORS, WARNINGS AND CHIMES ARE INOPERATIVE OR ALWAYS ON](#)

► [PINPOINT TEST B : A VIRTUAL GAUGE \(FUEL, TACHOMETER OR TEMPERATURE\) IS INOPERATIVE \(HIGH LEVEL IPC \(INSTRUMENT PANEL CLUSTER\) \)](#)

► [PINPOINT TEST C : INCORRECT FUEL GAUGE INDICATION](#)

- ▶ PINPOINT TEST D : THE SPEEDOMETER IS INOPERATIVE
- ▶ PINPOINT TEST E : INCORRECT SPEEDOMETER INDICATION
- ▶ PINPOINT TEST F : THE ODOMETER IS INOPERATIVE
- ▶ PINPOINT TEST G : THE ANALOG TACHOMETER IS INOPERATIVE
- ▶ PINPOINT TEST H : INCORRECT ANALOG TACHOMETER INDICATION
- ▶ PINPOINT TEST I : THE ANALOG TEMPERATURE GAUGE IS INOPERATIVE
- ▶ PINPOINT TEST J : INCORRECT ANALOG TEMPERATURE GAUGE INDICATION
- ▶ PINPOINT TEST K : A 4WD (FOUR-WHEEL DRIVE) INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST L : THE ABS (ANTI-LOCK BRAKE SYSTEM) WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST M : THE AIRBAG WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST N : THE AUTO STOP-START INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST O : THE BRAKE WARNING INDICATOR IS NEVER ON
- ▶ PINPOINT TEST P : THE BRAKE WARNING INDICATOR IS ALWAYS ON
- ▶ PINPOINT TEST Q : THE CHARGING SYSTEM WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST R : THE DOOR AJAR WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST S : THE ENGINE OVER-TEMPERATURE WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST T : THE HILL DESCENT INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST U : THE LH (LEFT-HAND) - RH (RIGHT-HAND) TURN SIGNAL, FRONT FOG LAMP OR HIGH BEAM INDICATOR IS NEVER OR ALWAYS ON

- ▶ PINPOINT TEST V : THE LIGHTS ON INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST W : THE LED (LIGHT EMITTING DIODE) LOW BEAM MALFUNCTION INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST X : THE LOW ENGINE OIL PRESSURE WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST Y : THE LOW FUEL WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST Z : THE MIL (MALFUNCTION INDICATOR LAMP) IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AA : THE POWERTRAIN MALFUNCTION (WRENCH) WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AB : THE PRNDL INDICATOR IS NEVER ON OR NEVER DISPLAYS P
- ▶ PINPOINT TEST AC : THE SEATBELT WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AD : THE STABILITY-TRACTION CONTROL INDICATOR (SLIDING CAR ICON) IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AE : THE STABILITY-TRACTION CONTROL DISABLED INDICATOR (SLIDING CAR OFF ICON) IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AF : THE ESC (ELECTRONIC STABILITY CONTROL) INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AG : THE TPMS (TIRE PRESSURE MONITORING SYSTEM) WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AH : THE TOW HAUL MODE INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AI : THE MESSAGE CENTER IS NOT OPERATING CORRECTLY
- ▶ PINPOINT TEST AJ : THE COMPASS IS INOPERATIVE
- ▶ PINPOINT TEST AK : THE DTE (DISTANCE TO EMPTY) DISPLAY IS INCORRECT OR FLUCTUATES

- ▶ PINPOINT TEST AL : THE OFF ROAD DISPLAY IS INOPERATIVE
- ▶ PINPOINT TEST AM : THE OUTSIDE AIR TEMPERATURE DISPLAY IS INOPERATIVE OR INCORRECT
- ▶ PINPOINT TEST AN : THE AUTO HIGH BEAM RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AO : THE BLIND SPOT INFORMATION SYSTEM (BLIS®) OFF RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AP : THE CRUISE CONTROL RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER ON
- ▶ PINPOINT TEST AQ : THE DISTANCE ALERT RTT (RECONFIGURABLE TELLTALE) WARNING INDICATOR IS NEVER ON
- ▶ PINPOINT TEST AR : THE FORWARD COLLISION RTT (RECONFIGURABLE TELLTALE) WARNING INDICATOR IS NEVER ON
- ▶ PINPOINT TEST AS : THE LANE KEEPING SYSTEM RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AT : THE LOW WASHER FLUID LEVEL RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AU : THE REAR DIFFERENTIAL LOCK RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AV : THE REAR SEATBELT RTT (RECONFIGURABLE TELLTALE) WARNING INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AW : THE SELECTSHIFT RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER OR ALWAYS ON
- ▶ PINPOINT TEST AX : THE TERRAIN MANAGEMENT DRIVE MODE RTT (RECONFIGURABLE TELLTALE) INDICATOR IS INOPERATIVE
- ▶ PINPOINT TEST AY : THE TRAIL CONTROL RTT (RECONFIGURABLE TELLTALE) INDICATOR IS NEVER ON
- ▶ PINPOINT TEST AZ : THE CHECK FUEL FILL INLET MESSAGE IS ALWAYS DISPLAYED

- ▶ PINPOINT TEST BA : THE ENGINE OIL CHANGE MESSAGE ALWAYS DISPLAYED
- ▶ PINPOINT TEST BB : THE ENGINE ON WARNING MESSAGE IS NEVER OR ALWAYS DISPLAYED
- ▶ PINPOINT TEST BC : THE PARKING AID CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BD : THE ADAPTIVE CRUISE CONTROL WARNING CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BE : THE BLIND SPOT INFORMATION SYSTEM (BLIS®)/CROSS TRAFFIC ALERT (CTA) WARNING CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BF : THE CHIME ALWAYS SOUNDS
- ▶ PINPOINT TEST BG : THE FORWARD COLLISION WARNING CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BH : THE HEADLAMPS ON WARNING CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BI : THE IGNITION-ENGINE ON WARNING CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BJ : THE KEY-IN-IGNITION WARNING CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BK : THE LANE KEEPING ALERT WARNING CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BL : THE PARKING BRAKE WARNING CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BM : THE PERIMETER ALARM CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BN : THE SEATBELT WARNING CHIME OR THE BELT-MINDER® FEATURE IS INOPERATIVE
- ▶ PINPOINT TEST BO : THE TURN SIGNAL-HAZARD ON CHIME OR TURN SIGNAL LEFT ON CHIME IS INOPERATIVE
- ▶ PINPOINT TEST BP : U0100:00, U0401:00, U0401:81 OR U0401:82
- ▶ PINPOINT TEST BQ : U0104:00
- ▶ PINPOINT TEST BR : P0405:56

- ▶ [PINPOINT TEST BS : U0121:00, U0415:00 OR U0415:82](#)
- ▶ [PINPOINT TEST BT : U0131:00, U0420:00 OR U0420:82](#)
- ▶ [PINPOINT TEST BU : U0138:82](#)
- ▶ [PINPOINT TEST BV : U0140:00, U0422:00, U0422:82 OR U0431:82](#)
- ▶ [PINPOINT TEST BW : U0146:00](#)
- ▶ [PINPOINT TEST BX : U0151:00 OR U0452:81](#)
- ▶ [PINPOINT TEST BY : U0159:00 OR U045A:82](#)
- ▶ [PINPOINT TEST BZ : U0184:00](#)
- ▶ [PINPOINT TEST CA : U0212:00](#)
- ▶ [PINPOINT TEST CB : U0232:00, U0233:00, U0533:00, U0533:82, U0534:00 OR U0534:82](#)
- ▶ [PINPOINT TEST CC : U023A:00](#)
- ▶ [PINPOINT TEST CD : U0256:00, U0242:00, U0424:81, U0424:82, U0557:00, U0557:81 OR U0557:82](#)
- ▶ [PINPOINT TEST CE : U0533:56 OR U0534:56](#)
- ▶ [PINPOINT TEST CF : U2100:00](#)
- ▶ [PINPOINT TEST CG : U3000:41, U3000:42, U3000:43, U3000:44, U3000:46 OR U3000:54](#)
- ▶ [PINPOINT TEST CH : U3003:16](#)
- ▶ [PINPOINT TEST CI : U3003:17](#)

