

# Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

## 2015 FORD Fiesta ST OEM Service and Repair Workshop Manual

[Go to manual page](#)

Adaptive cruise control	Cruise control status	PCM (powertrain control module)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
	Adaptive cruise control forward distance alert	IPMA (image processing module A)		
Auto hitch	Trailer hitch chime request	IPMA (image processing module A)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
Belt-Minder®	<ul style="list-style-type: none"> <li>• Driver seatbelt buckle status</li> <li>• Passenger seatbelt buckle status</li> </ul>	RCM (restraints control module)	HS-CAN2 (high-speed controller area network 2)	IPC (instrument panel cluster)
	Vehicle speed	PCM (powertrain control module)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
	Gear lever position	PCM (powertrain control module) (gas/ HEV (hybrid electric vehicle) )/ TCM (transmission control module) (diesel)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
Chime control	<ul style="list-style-type: none"> <li>• IPC (instrument panel cluster) chime request</li> <li>• Chime source</li> <li>• Chime module power up</li> <li>• Chime controls</li> </ul>	IPC (instrument panel cluster)	HS-CAN3 (high-speed controller area network 3)	<ul style="list-style-type: none"> <li>• IPC (instrument panel cluster)</li> <li>• DSP (audio digital signal processing module) (if equipped)</li> </ul>

Diesel exhaust over-temperature	Diesel exhaust over-temperature	PCM (powertrain control module)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
Door ajar	<ul style="list-style-type: none"> <li>• Driver door ajar status</li> <li>• Passenger door ajar status</li> <li>• Left rear door ajar status</li> <li>• Right rear door ajar status</li> </ul>	BCM (body control module)	HS-CAN1 (high-speed controller area network 1)	IPC (instrument panel cluster)
	Vehicle speed	PCM (powertrain control module)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
Forward collision warning	Forward collision chime request	IPMA (image processing module A)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
Headlamps on	Headlamps on warning chime	BCM (body control module)	HS-CAN1 (high-speed controller area network 1)	IPC (instrument panel cluster)
Electric Vehicle (EV) engine off reminder ( HEV (hybrid electric vehicle) )	<ul style="list-style-type: none"> <li>• Gear lever position</li> <li>• Power pack ready status</li> </ul>	PCM (powertrain control module)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
	Driver door ajar status	BCM (body control module)	HS-CAN1 (high-speed controller area network 1)	IPC (instrument panel cluster)

Parking aid	Parking aid chime request	IPMA (image processing module A)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
PRNDM not in park	Transmission gear display mode	PCM (powertrain control module) (gas/ HEV (hybrid electric vehicle) )/ TCM (transmission control module) (diesel)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
	Vehicle speed	PCM (powertrain control module)	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)
	<ul style="list-style-type: none"> <li>• Ignition status</li> <li>• Driver door ajar status</li> <li>• Transport mode</li> </ul>	BCM (body control module)	HS-CAN1 (high-speed controller area network 1)	IPC (instrument panel cluster)
Perimeter alarm	Perimeter alarm chime request	BCM (body control module)	HS-CAN1 (high-speed controller area network 1)	IPC (instrument panel cluster)
Seatbelt	<ul style="list-style-type: none"> <li>• Driver seatbelt buckle status</li> <li>• Passenger seatbelt buckle status</li> <li>• Front passenger detect status</li> </ul>	RCM (restraints control module)	HS-CAN2 (high-speed controller area network 2)	IPC (instrument panel cluster)
Service AdvanceTrac	Brake chime request	ABS (anti-lock brake system) module	FD-CAN (Flexible Data Rate Controller Area Network)	IPC (instrument panel cluster)

The auto hitch chime alerts the driver that a trailer has been detected, backup maneuvering is ready, and to stop now. The chimes sound as part of the trailer information and back assist system.

## **Belt-Minder® Feature**

### **NOTE**

Whenever the vehicle is operated using MyKey®, the IPC (instrument panel cluster) enables the Belt-Minder®.

The Belt-Minder® is configurable on or off.

Refer to: [Seatbelt Minder Deactivating/Activating](#)

(413-01 Instrumentation, Message Center and Warning Chimes, General Procedures).

The Belt-Minder® feature supplements the current seatbelt warning function and is enabled after the current seatbelt warning is complete. The Belt-Minder® reminds the driver the driver or front passenger seatbelt is unbuckled by intermittently sounding a chime and simultaneously illuminating the seatbelt warning indicator through the front speakers. The Belt-Minder® begins once the current seatbelt warning has ended and the vehicle speed has exceeded 10 km/h (6 mph) with the driver or front passenger seatbelt unbuckled. While activated, the Belt-Minder® chime provides a series of chimes/seatbelt warning indicator flash sequences.

If the vehicle speed drops below 5 km/h (3 mph) once the Belt-Minder® chime has activated, the chime turns off and the seatbelt warning indicator remains on. When the vehicle speed exceeds 10 km/h (6 mph) again, the Belt-Minder® chime resumes.

When MyKey® is in use, the driver cannot configure the Belt-Minder® off. Once the Belt-Minder® is activated, the Belt-Minder® continues to chime periodically (does not time out after 5 minutes) and the audio system is muted until the driver and passenger seatbelts are fastened.

## **CTA (cross traffic alert)**

The CTA (cross traffic alert) warning chime alerts the driver that a vehicle has been detected or there is a system fault. The CTA (cross traffic alert) warning chime sounds a 0.25-second chime continuously until the request is ended. The chime sounds through the rear speakers.

## **Diesel Exhaust Fluid Level**

The diesel exhaust fluid level warning chime informs the driver that the exhaust fluid level is getting low, is low or is contaminated. The diesel exhaust fluid level chime sounds five 0.25 second chime tones through the front speakers.

## **Diesel Exhaust Over-Temperature**

The diesel exhaust over-temperature warning chime informs the driver that an exhaust over-temperature condition exists due to a powertrain fault. The diesel exhaust over-temperature chime sounds five 0.25

## **Ignition-Engine On**

The ignition-engine on chime informs the driver they are exiting the vehicle when the ignition has been left on (engine off) or the engine is running. When the driver exits the vehicle with the ignition on or with the engine running, the ignition-engine on warning chime sounds five 1-second chime tones. The ignition-engine on warning chime sounds through the front speakers.

## **Key-In-Ignition**

The key-in-ignition warning chime alerts the driver the ignition is ON or ACC when the driver door is ajar. The key-in-ignition warning chime sounds repetitive chime 0.5 second tones through the front speakers until the ignition is in RUN or the driver door is closed.

## **Max Recline (Sleeper Seat)**

The Max Recline warning chime for the sleeper seat feature, along with the warning message, warns the passenger seat is positioned beyond the set 'normal' recline position while the vehicle is operating. The warning chime sounds through the front speakers, and continues to sound until the seat is returned to the upright position.

## **Memory Stored Feedback (Memory Seats)**

The memory-stored feedback chime informs the driver the selected preferences have been programmed successfully using the memory switches. When the driver holds either of the memory buttons, the adjustable features including seat position, pedal position or side mirror position selections will be stored in the DSM (driver front seat module) . The DSM (driver front seat module) sends a request to the IPC (instrument panel cluster) to sound the feedback chime.

## **Message Center Warnings**

The message center warning chime feature draws the driver's attention to the message center display to view new warning messages. There are 3 different message center warning chime types that are defined by the length of the chime tone, which are designed to create a greater sense of urgency based on the nature of the condition and message displayed in the message center.

- Informational (1-second chime)
- Soft warning (0.5-second chime)
- Hard warning (0.25-second chime)

## **Parking Aid**

The parking aid system uses a visual display in the centerstack infotainment display and a chime to alert the driver objects are close to the vehicle. The parking aid chime sounds a repetitive chime tone that decreases the time off between chime tones as objects get closer to the sensor until a continuous tone is heard. The parking aid chime sounds through the front speakers for front parking aid, and through the rear speakers for rear parking aid.

is on.

### **Turn Signal Left On**

The turn signal left on or turn signal minder chime uses both odometer and turn signal status messages. The turn signal left on chime sounds a repetitive 1-second chime through the front speakers when the vehicle is driven with the turn signal on for more than 3.2 km (2.0 miles).

Copyright © Ford Motor Company

Sample

IPC (instrument panel cluster)	U0100:00	Lost Communication With ECM/PCM "A": No Sub Type Information	<a href="#">GO to Pinpoint Test BN</a>
IPC (instrument panel cluster)	U0102:00	Lost Communication with Transfer Case Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BN</a>
IPC (instrument panel cluster)	U0103:00	Lost Communication With Gear Shift Control Module "A:" No Sub Type Information	<a href="#">GO to Pinpoint Test BN</a>
IPC (instrument panel cluster)	U0111:82	Lost Communication With Battery Energy Control Module "A": No Sub Type Information	<a href="#">GO to Pinpoint Test BN</a>
IPC (instrument panel cluster)	U0121:00	Lost Communication With Anti-Lock Brake System (ABS) Control Module "A": No Sub Type Information	<a href="#">GO to Pinpoint Test BN</a>
IPC (instrument panel cluster)	U0137:00	Lost Communication With Trailer Brake Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BN</a>
IPC (instrument panel cluster)	U013F:82	Lost Communication With Pedestrian Alert Control Module: Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BN</a>
IPC (instrument panel cluster)	U0140:00	Lost Communication With Body Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BN</a>
IPC (instrument panel cluster)	U0151:00	Lost Communication With Restraints Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BN</a>
IPC (instrument panel cluster)	U019B:82	Lost Communication With Battery Charger Control Module "A": Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BN</a>
IPC (instrument panel cluster)	U0212:00	Lost Communication With Steering Column Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BN</a>



IPC (instrument panel cluster)	U0401:86	Invalid Data Received from ECM/PCM A: Signal Invalid	<a href="#">GO to Pinpoint Test BO</a>
IPC (instrument panel cluster)	U0405:56	Invalid Data Received From Cruise Control Module: Invalid/Incompatible Configuration	<a href="#">GO to Pinpoint Test BP</a>
IPC (instrument panel cluster)	U0415:00	Invalid Data Received from Anti-Lock Brake System (ABS) Control Module "A": No Sub Type Information	<a href="#">GO to Pinpoint Test BO</a>
IPC (instrument panel cluster)	U0415:82	Invalid Data Received from Anti-Lock Brake System (ABS) Control Module "A": Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BO</a>
IPC (instrument panel cluster)	U0420:82	Invalid Data Received from Power Steering Control Module "A": Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BO</a>
IPC (instrument panel cluster)	U0424:00	Invalid Data Received From HVAC Control Module: No Sub Type Information	<a href="#">GO to Pinpoint Test BO</a>
IPC (instrument panel cluster)	U0424:81	Invalid Data Received From HVAC Control Module: Invalid Serial Data Received	<a href="#">GO to Pinpoint Test BO</a>
IPC (instrument panel cluster)	U0424:82	Invalid Data Received From HVAC Control Module: Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BO</a>
IPC (instrument panel cluster)	U0428:82	Invalid Data Received From Steering Angle Sensor Module: Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BO</a>
IPC (instrument panel cluster)	U0431:82	Invalid Data Received From Body Control Module "A": Alive/Sequence Counter Incorrect/Not Updated	<a href="#">GO to Pinpoint Test BO</a>
IPC (instrument panel cluster)	U0452:81	Invalid Data Received From Restraints Control Module: Invalid Serial Data Received	<a href="#">GO to Pinpoint Test BO</a>

IPC (instrument panel cluster)	U3000:46	Control Module: Calibration/Parameter Memory Failure	<a href="#">GO to Pinpoint Test BR</a>
IPC (instrument panel cluster)	U3000:54	Control Module: Missing Calibration	<a href="#">GO to Pinpoint Test BR</a>
IPC (instrument panel cluster)	U3003:16	Battery Voltage: Circuit Voltage Below Threshold	<a href="#">GO to Pinpoint Test BS</a>
IPC (instrument panel cluster)	U3003:17	Battery Voltage: Circuit Voltage Above Threshold	<a href="#">GO to Pinpoint Test BT</a>
IPC (instrument panel cluster)	U300A:64	Ignition Switch: Signal Plausibility Failure	<a href="#">GO to Pinpoint Test BU</a>
PCM (powertrain control module)	P0071:00	Ambient Air Temperature Sensor Circuit A Range/Performance: No Sub Type Information	<a href="#">GO to Pinpoint Test AP</a>
PCM (powertrain control module)	P0072:00	Ambient Air Temperature Sensor Circuit A Low: No Sub Type Information	<a href="#">GO to Pinpoint Test AP</a>
PCM (powertrain control module)	P0073:00	Ambient Air Temperature Sensor Circuit A High: No Sub Type Information	<a href="#">GO to Pinpoint Test AP</a>
SCCM (steering column control module)	B1380:11	Steering Wheel Right Switch Pack: Circuit Short To Ground	<a href="#">GO to Pinpoint Test AM</a>
SCCM (steering column control module)	B1380:13	Steering Wheel Right Switch Pack: Circuit Open	<a href="#">GO to Pinpoint Test AM</a>
SCCM (steering column control module)	B1380:4A	Steering Wheel Right Switch Pack: Incorrect Component Installed	<a href="#">GO to Pinpoint Test AM</a>