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.

2008 FORD Fiesta 5 Doors OEM Service and Repair Workshop Manual

Go to manual page

No	The system is operating correctly at this time.

PINPOINT TEST R : U3003:16

Refer to Wiring Diagrams Cell 92for schematic and connector information.

Normal Operation and Fault Conditions REFER to: Exterior Lighting - Overview (417-01 Exterior Lighting, Description and Operation).

REFER to: Exterior Lighting - System Operation and Component Description (417-01 Exterior Lighting, Description and Operation).

DTC Fault Trigger Conditions

DTC (diagnostic trouble code)	Description	Fault Trigger Condition
TRM (trailer module) Continuous U3003:16	Battery Voltage: Circuit Voltage Below Threshold	A continuous memory DTC (diagnostic trouble code) that sets in the TRM (trailer module) if the TRM (trailer module) detects low battery voltage on the voltage supply input.
TRM (trailer module) Continuous U3008:13	Control Module Ground 'A': Circuit Open	A continuous memory DTC (diagnostic trouble code) that sets in the TRM (trailer module) if the TRM (trailer module) detects low battery voltage on the voltage supply input.

Possible Sources

- Wiring, terminals or connectors
- Battery concern
- Charging system concern
- TRM (trailer module)

R1 CARRY OUT THE TRM (TRAILER MODULE) SELF-TEST

- Ignition ON.
- Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs).
- Wait 10 seconds.
- Using a diagnostic scan tool, perform the TRM (trailer module) self-test.

Is DTC (diagnostic trouble code) U3003:16 still present?

Yes	GO to R2

- Ignition OFF.
- Disconnect: TRM (trailer module) C2498F.
- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2498F-14	V	Ground

Are the voltages greater than 11 volts?

Yes	GO to R5

No	REPAIR the circuit in question for high resistance.

R5 CHECK THE TRM (TRAILER MODULE) PROCESSOR GROUND

- Ignition OFF.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C2498F-12	Ω	Ground

Is the resistance less than 3 ohms?

Yes	GO to R6

No	REPAIR the circuit for high resistance.

TRM (trailer module) Continuous U3003:17	Battery Voltage: Circuit Voltage Above Threshold	A continuous memory DTC (diagnostic trouble code) that sets in the HCM (headlamp control module) if the TRM (trailer module) detects high battery voltage on the voltage supply input.

Possible Sources

- Charging system concern
- TRM (trailer module)

S1 CHECK FOR DIAGNOSTIC TROUBLE CODES (DTCS) P0563 (PCM (POWERTRAIN CONTROL MODULE)), U3003:17 OR U3006:17 SET IN OTHER MODULES

- Ignition ON.
- Using a diagnostic scan tool, retrieve the Continuous Memory Diagnostic Trouble Codes (CMDTCs) from all modules.

Is DTC (diagnostic trouble code) U3003:17, U3006:17 or P0563 (PCM (powertrain control module)) set in more than one module?

Yes	Diagnose the DTC (diagnostic trouble code) . REFER to the master DTC (diagnostic trouble code) chart.
No	GO to S2

S2 CHECK THE BATTERY VOLTAGE

- Turn off all interior/exterior lights and accessories.
- Start and run the engine at approximately 2,000 RPM for 3 minutes while monitoring the battery voltage.

Does the battery voltage rise to 15.9 volts or higher?

Yes	Diagnose the charging system. REFER to: Charging System - 2.7L EcoBoost (238kW/324PS)/3.5L EcoBoost (BM) (414-00 Charging System - General Information, Diagnosis and Testing). REFER to: Charging System - 3.3L Duratec-V6/5.0L 32V Ti-VCT (414-00 Charging System - General Information, Diagnosis and Testing).

Turn Signal and Hazard Lamps - Electric

417-01 Exterior Lighting	***2022 F-150***
Diagnosis and Testing	***Procedure revision date: 04/1/2022***

Turn Signal and Hazard Lamps - Electric

Diagnostic Trouble Code (DTC) Chart

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).

Diagnostic Trouble Code Chart

Module	DTC (diagnostic trouble code)	Description	Action
BCM (body control module)	B1247:11	Left Rear Turn Indicator: Circuit Short To Ground	GO to Pinpoint Test C
BCM (body control module)	B1247:15	Left Rear Turn Indicator: Circuit Short To Battery or Open	GO to Pinpoint Test C
BCM (body control module)	B1248:11	Right Rear Turn Indicator: Circuit Short To Ground	GO to Pinpoint Test C
BCM (body control module)	B1248:15	Right Rear Turn Indicator: Circuit Short To Battery or Open	GO to Pinpoint Test C
BCM (body control module)	B1265:01	Left Rear Turn Lamp Feedback: General Electrical Failure	GO to Pinpoint Test F

LDCMB (Lighting Driver Control Module B)	B123B:12	Right Front Turn Indicator: Circuit Short To Battery	GO to Pinpoint Test B
LDCMB (Lighting Driver Control Module B)	B123B:13	Right Front Turn Indicator: Circuit Open	GO to Pinpoint Test B
LDCMB (Lighting Driver Control Module B)	B123B:14	Right Front Turn Indicator: Circuit Short To Ground or Open	GO to Pinpoint Test B
LDCMB (Lighting Driver Control Module B)	B123B:16	Right Front Turn Indicator: Circuit Voltage Below Threshold	GO to Pinpoint Test B
LDCMB (Lighting Driver Control Module B)	B123B:1E	Right Front Turn Indicator: Circuit Resistance Out of Range	GO to Pinpoint Test B
LDCMB (Lighting Driver Control Module B)	B123B:4B	Right Front Turn Indicator: Over Temperature	GO to Pinpoint Test B
LDCMB (Lighting Driver Control Module B)	B123B:87	Right Front Turn Indicator: Missing Message	GO to Pinpoint Test B
PDM (passenger door module)	B1D07:11	Right Turn Indicator: Circuit Short To Ground	GO to Pinpoint Test D
SCCM (steering column control module)	B124C:96	Turn Indicator Stalk Switch Pack: Component Internal Failure	GO to Pinpoint Test G
SCCM (steering column control module)	B124C:9E	Turn Indicator Stalk Switch Pack: Stuck On	GO to Pinpoint Test G

Global Customer Symptom Code (GCSC) Chart

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).

Global Customer Symptom Code Chart

Customer Symptom	Action

The turn signal function is inoperative or always on	Refer to the Pinpoint Test	GO to Pinpoint Test A
One front turn signal lamp is inoperative, always on or not operating correctly	Refer to the Pinpoint Test	GO to Pinpoint Test B
One rear turn signal lamp is inoperative or always on	Refer to the Pinpoint Test	GO to Pinpoint Test C
One exterior mirror turn signal lamp is inoperative or always on	Refer to the Pinpoint Test	GO to Pinpoint Test D
The hazard lamp function is inoperative or always on	Refer to the Pinpoint Test	GO to Pinpoint Test E
The turn signal indicator flashes fast when no turn signal lamps are inoperative or does not flash fast when a turn signal lamp is inoperative - LED (light emitting diode) headlamps or rear lamps	Refer to the Pinpoint Test	GO to Pinpoint Test F

Pinpoint Tests

PINPOINT TEST A : THE TURN SIGNAL FUNCTION IS INOPERATIVE OR ALWAYS ON

Refer to Wiring Diagrams Cell 90for schematic and connector information.
Normal Operation and Fault Conditions REFER to: Exterior Lighting - Overview (417-01 Exterior Lighting, Description and Operation).
REFER to: Exterior Lighting - System Operation and Component Description (417-01 Exterior Lighting, Description and Operation).
Possible Sources

- LH (left-hand) steering column multifunction switch
- SCCM (steering column control module)
- BCM (body control module)

A1 CHECK THE SCCM (STEERING COLUMN CONTROL MODULE) TURN SIGNAL PARAMETER IDENTIFICATIONS (PIDS)

- Ignition ON.

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.

A3 CHECK FOR CORRECT SCCM (STEERING COLUMN CONTROL MODULE) OPERATION

- Disconnect and inspect all SCCM (steering column control module) and all related in-line 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 SCCM (steering column control module) and all related in-line 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	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 SCCM (steering column control module) . Vehicles without adaptive steering, REFER to: Steering Column Control Module (SCCM) (211-05 Steering Wheel and Column Electrical Components, Removal and Installation). Vehicles with adaptive steering, REFER to: Steering Column Control Module (SCCM) - Vehicles With: Adaptive Steering (211-05 Steering Wheel and Column Electrical Components, 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 B : ONE FRONT TURN SIGNAL LAMP IS INOPERATIVE, ALWAYS ON OR NOT OPERATING CORRECTLY

Refer to Wiring Diagrams Cell 85for schematic and connector information.

Normal Operation and Fault Conditions REFER to: Exterior Lighting - Overview

Module A) B123A:4B		Control Module A) detects a high temperature from the LH (left-hand) turn signal output circuit.
LDCMA (Lighting Driver Control Module A) B123A:87	Left Front Turn Indicator: Missing Message	A continuous memory DTC (diagnostic trouble code) that sets when the LDCMA (Lighting Driver Control Module A) detects a missing message from the HCM (headlamp control module) .
LDCMB (Lighting Driver Control Module B) B123B:11	Right Front Turn Indicator: Circuit Short To Ground	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the LDCMB (Lighting Driver Control Module B) detects a short to ground from the RH (right-hand) turn signal output circuit.
LDCMB (Lighting Driver Control Module B) B123B:12	Right Front Turn Indicator: Circuit Short To Battery	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the LDCMB (Lighting Driver Control Module B) detects a short to voltage from the RH (right-hand) turn signal output circuit.
LDCMB (Lighting Driver Control Module B) B123B:13	Right Front Turn Indicator: Circuit Open	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the LDCMB (Lighting Driver Control Module B) detects an open from the RH (right-hand) turn signal output circuit.
LDCMB (Lighting Driver Control Module B) B123B:14	Right Front Turn Indicator: Circuit Short To Ground Or Open	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the LDCMB (Lighting Driver Control Module B) detects an open or a short to ground from the RH (right-hand) turn signal output circuit.
LDCMB (Lighting Driver Control Module B) B123B:16	Right Front Turn Indicator: Circuit Voltage Below Threshold	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the LDCMA (Lighting Driver Control Module A) detects a low voltage from the RH (right-hand) turn signal output circuit.
LDCMB (Lighting Driver Control Module B) B123B:1E	Right Front Turn Indicator: Circuit Resistance Out Of Range	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the LDCMA (Lighting Driver Control Module A) detects an incorrect resistance from the RH (right-hand) turn signal output circuit.
LDCMB (Lighting Driver Control	Right Front Turn Indicator: Over Temperature	A continuous memory and on-demand DTC (diagnostic trouble code) that sets when the LDCMA (Lighting Driver

- Ignition OFF.
- Disconnect: Suspect LH (left-hand) Headlamp C1509 or RH (right-hand) Headlamp C1510.
- Ignition ON.
- Measure:

LH (left-hand) Headlamp

Positive Lead	Measurement / Action	Negative Lead
C1509-3	V⎓	Ground
C1509-5	V⎓	Ground

RH (right-hand) Headlamp

Positive Lead	Measurement / Action	Negative Lead
C1510-3	V⎓	Ground
C1510-5	V⎓	Ground

Is the voltage greater than 11 volts?

Yes	GO to B3

No	REPAIR the circuit.

B3 CHECK THE HEADLAMP MOUNTED LDCM (LIGHTING DRIVER CONTROL MODULE) GROUND CIRCUITS FOR AN OPEN

- Measure: