

417-01 Exterior Lighting
Diagnosis and Testing

2019 Ranger
Procedure revision date: 12/4/2018

Headlamps

DTC Charts

DTC Chart: 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).

B143B:11	Autolamp On Input: Circuit Short to Ground	GO to Pinpoint Test C
B143C:11	Headlamp Off Input: Circuit Short to Ground	GO to Pinpoint Test C
B143D:11	Headlamp On Input: Circuit Short to Ground	GO to Pinpoint Test C
B143E:11	Headlamp Switch Input: Circuit Short to Ground	GO to Pinpoint Test C
B143E:15	Headlamp Switch Input: Circuit Short to Battery or Open	GO to Pinpoint Test C
B1447:11	Parklamp On Switch Input: Circuit Short to Ground	GO to Pinpoint Test C
B1D00:11	Left Low Beam: Circuit Short to Ground	GO to Pinpoint Test A
B1D00:15	Left Low Beam: Circuit Short to Battery or Open	<ul style="list-style-type: none"> • If the low beam is inoperative, GO to Pinpoint Test A • If the low beam is always on, GO to Pinpoint Test C
B1D01:11	Right Low Beam: Circuit Short to Ground	GO to Pinpoint Test A
B1D01:15	Right Low Beam: Circuit Short to Battery or Open	<ul style="list-style-type: none"> • If the low beam is inoperative, GO to Pinpoint Test A • If the low beam is always on, GO to Pinpoint Test C
B1D02:11	Left High Beam Circuit: Circuit Short to Ground	GO to Pinpoint Test B
B1D02:15	Left High Beam Circuit: Circuit Short to Battery or Open	<ul style="list-style-type: none"> • If the high beam is inoperative, GO to Pinpoint Test B • If the high beam is always on, GO to Pinpoint Test D
B1D03:11	Right High Beam Circuit: Circuit Short to Ground	GO to Pinpoint Test B

B1D03:15	Right High Beam Circuit: Short to Battery or Open	<ul style="list-style-type: none"> • If the high beam is inoperative, GO to Pinpoint Test B • If the high beam is always on, GO to Pinpoint Test D
U1000:00	Solid State Driver Protection Active -Driver Disabled: No Sub Type Information	<ul style="list-style-type: none"> • If the low beam is inoperative, GO to Pinpoint Test A • If the high beam is inoperative, GO to Pinpoint Test B
U3000:49	Control Module: Internal Electronic Failure	<ul style="list-style-type: none"> • If the low beam is inoperative, GO to Pinpoint Test A • If the high beam is inoperative, GO to Pinpoint Test B
For other <u>BCM</u> Diagnostic Trouble Codes (DTCs)	-	REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Diagnosis and Testing).

DTC Chart: SCCM

<u>DTC</u>	Description	Action
B124C:96	Turn Indicator Stalk Switch Pack: Component Internal Failure	GO to Pinpoint Test F
B124C:9E	Turn Indicator Stalk Switch Pack: Stuck On	GO to Pinpoint Test F
All other <u>SCCM</u> Diagnostic Trouble Codes (DTCs)	-	REFER to: Steering Wheel and Column Electrical Components (211-05 Steering Wheel and Column Electrical Components, Diagnosis and Testing).

Symptom Chart

Symptom Chart: Headlamps

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).

Condition	Possible Sources	Actions
A module does not respond to the diagnostic scan tool	<ul style="list-style-type: none"> • Fuse • Wiring, terminals or connectors • Module 	REFER to: Communications Network (418-00 Module Communications Network, Diagnosis and Testing).
One or both low beams is inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test A

One or both high beams is inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test B
One or both low beams are on continuously	Refer to the Pinpoint Test	GO to Pinpoint Test C
One or both high beams are on continuously	Refer to the Pinpoint Test	GO to Pinpoint Test D
The flash-to-pass feature is inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test E

Pinpoint Tests

- ▶ [PINPOINT TEST A : ONE OR BOTH LOW BEAMS IS INOPERATIVE](#)
- ▶ [PINPOINT TEST B : ONE OR BOTH HIGH BEAMS IS INOPERATIVE](#)
- ▶ [PINPOINT TEST C : ONE OR BOTH LOW BEAMS ARE ON CONTINUOUSLY](#)
- ▶ [PINPOINT TEST D : ONE OR BOTH HIGH BEAMS ARE ON CONTINUOUSLY](#)
- ▶ [PINPOINT TEST E : THE FLASH-TO-PASS FEATURE IS INOPERATIVE](#)
- ▶ [PINPOINT TEST F : B124C:96, B124C:9E](#)

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