

Normal Operation and Fault Conditions

REFER to: Module Controlled Functions - System Operation and Component Description .

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B1430:12	Power Point Relay Reset Output: Circuit Short To Battery	A continuous and on-demand DTC that sets when the BCM detects a short to voltage on the power point relay coil circuit.
B1430:14	Power Point Relay Reset Output: Circuit Short To Ground or Open	A continuous and on-demand DTC that sets when the BCM detects a short to ground or open on the power point relay coil circuit.
B1435:12	Power Point Relay Set Output: Circuit Short To Battery	A continuous and on-demand DTC that sets when the BCM detects a short to voltage on the power point relay coil circuit.
B1435:14	Power Point Relay Set Output: Circuit Short To Ground or Open	A continuous and on-demand DTC that sets when the BCM detects a short to ground or open on the power point relay coil circuit.

Possible Sources

- BCM
- BJB
- Power point
- Wiring, terminals or connectors

Visual Inspection and Diagnostic Pre-Checks

Inspect BJB fuse 89 (20A), fuse 90 (20A), and, if equipped, fuse 91 (20A) and fuse 92 (20A).

DIAGNOSIS AND TESTING > BODY CONTROL MODULE (BCM) > PINPOINT TESTS > PINPOINT TEST S : B1430:12, B1430:14, B1435:12, B1435:14 > PINPOINT TEST S : B1430:12, B1430:14, B1435:12, B1435:14

S1 VERIFY BATTERY

Perform battery test. REFER to: Battery .

Did battery pass test?

Yes	GO to S2
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No	REPLACE battery. REFER to: Battery .
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S2 CHECK BJB (BATTERY JUNCTION BOX) FUSES

Check BJB fuse 89 (20A), fuse 90 (20A), and if equipped, fuse 91 (20A) and fuse 92 (20A).

Are fuses OK?

Yes	GO to S4
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No	REPLACE fuses as necessary. GO to S3
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S3 RECHECK BJB (BATTERY JUNCTION BOX) FUSES

Check BJB fuse 89 (20A), fuse 90 (20A), and if equipped, fuse 91 (20A) and fuse 92 (20A).

Are fuses OK?

Yes	GO to S4
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No	REPAIR the circuit short.
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S4 CHECK THE POWER POINT WITH KEY OFF

Ignition OFF.

Connect a known good device to each power point.

Are all power points off?

Yes	GO to S5
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No	GO to S6
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S5 CHECK THE POWER POINT OPERATION WITH KEY ON

Ignition ON.

Connect a known good device to each power point and verify the device works.

Are all the power points operational?

Yes	GO to S6
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No	If no power points are operational, GO to S6 If some, but not all, power points are operational, REFER to OEM WIRING DIAGRAMS and correct open circuit as necessary.
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S6 CHECK FOR BCM (BODY CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

Using a diagnostic scan tool, perform the BCM self-test.

Is BCM DTC B1430:12, B1430:14, B1435:12, or B1435:14 present?

Yes	For BCM DTC B1430:12 or B1435:12, GO to S7 For BCM DTC B1430:14 or B1435:14, GO to S9
No	For all other BCM Diagnostic Trouble Codes (DTCs) Refer to BCM DTC Chart . If no BCM Diagnostic Trouble Codes (DTCs) are found, the system is operating correctly at this time.

S7 CHECK THE BJB (BATTERY JUNCTION BOX) FOR INTERNAL SHORT

Ignition OFF.

Disconnect BJB C1035C .

Ignition ON.

Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs) the and repeat the BCM self-test.

Is DTC B1430:12 or DTC B1435:12 still present?

Yes	GO to S8
No	INSTALL a new BJB.

S8 CHECK THE POWER POINT CONTROL CIRCUITS FOR A SHORT TO VOLTAGE

Ignition OFF.

Disconnect BCM C2280F .

Using the Terminal Release Kit, release and temporarily remove BCM C2280F-23 and C2280F-33 .

Connect: BCM C2280F .

Ignition ON.

Measure:

Positive Lead	Measurement / Action	Negative Lead
C1035C-23		Ground
C1035C-33		Ground

Is any voltage present?

Yes	REPAIR the circuit.
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No	Install C2280F-23 and C2280F-33 and
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S9 CHECK THE POWER POINT CONTROL CIRCUITS FOR OPENS

Ignition OFF.

Disconnect BCM C2280F .

Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280F-23		Ground
C2280F-33		Ground

Are voltages greater than 11v?

Yes	
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No	GO to S10
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S10 CHECK THE POWER POINT CONTROL CIRCUITS FOR SHORT TO GROUND

Disconnect BJB C1035C .

Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280F-23	Ω	Ground
C2280F-33	Ω	Ground

Is the resistance greater than 10, 000 ohms?

Yes	GO to S11
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No	Repair the circuit.
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S11 CHECK THE POWER POINT CONTROL CIRCUITS FOR OPENS

Measure:

Positive Lead	Measurement / Action	Negative Lead
C2280F-23	Ω	C1035C-13