

- Inspect the headlamp switch for damage.
- Inspect the light sensor for damage.

DIAGNOSIS AND TESTING > AUTOLAMPS > PINPOINT TESTS > PINPOINT TEST B : THE AUTOLAMPS ARE ON CONTINUOUSLY > PINPOINT TEST B : THE AUTOLAMPS ARE ON CONTINUOUSLY

B1 CHECK FOR BCM (BODY CONTROL MODULE) DIAGNOSTIC TROUBLE CODE (DTCS)

Ignition ON.

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

Is DTC B1A85:11 or B1A85:13 present?

Yes	For DTC B1A85:11, GO to B3 For DTC B1A85:13, GO to B5
No	GO to B2

B2 CHECK FOR VOLTAGE TO THE LIGHT SENSOR (NO DTC (DIAGNOSTIC TROUBLE CODE))

Ignition OFF.

Disconnect: Autolamp Sensor C287 (vehicles with EMTC).

Disconnect: Autolamp/Sunload Sensor C286 (vehicles with DATC).

Ignition ON.

Place the headlamp switch in the AUTOLAMPS position.

Measure:

Vehicles With EMTC

Positive Lead	Measurement / Action	Negative Lead
C287-2		Ground

Vehicles With DATC

Positive Lead	Measurement / Action	Negative Lead
C286-2		Ground

Is the voltage approximately 5 volts?

Yes	INSTALL a new autolamp or autolamp/sunload sensor. REFER to: Light Sensor .
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No	GO to B10
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B3 CHECK FOR VOLTAGE TO THE LIGHT SENSOR (DTC (DIAGNOSTIC TROUBLE CODE) B1A85:11)

Ignition OFF.

Disconnect: Autolamp Sensor C287 (vehicles with EMTC).

Disconnect: Autolamp/Sunload Sensor C286 (vehicles with DATC).

Ignition ON.

Measure:

Vehicles With EMTC

Positive Lead	Measurement / Action	Negative Lead
C287-2		Ground

Vehicles With DATC

Positive Lead	Measurement / Action	Negative Lead
C286-2		Ground

Is the voltage approximately 5 volts?

Yes	INSTALL a new autolamp or autolamp/sunload sensor. REFER to: Light Sensor .
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No	GO to B4
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B4 CHECK THE LIGHT SENSOR INPUT CIRCUIT FOR A SHORT TO GROUND

Ignition OFF.

Disconnect: BCM C2280B .

Measure:

Vehicles With EMTC

Positive Lead	Measurement / Action	Negative Lead
C287-2	Ω	Ground

Vehicles With DATC

Positive Lead	Measurement / Action	Negative Lead
C286-2	Ω	Ground

Is the resistance greater than 10, 000 ohms?

Yes	GO to B10
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No	REPAIR the circuit.
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B5 CHECK FOR VOLTAGE TO THE LIGHT SENSOR (DTC (DIAGNOSTIC TROUBLE CODE) B1A85:13)

Ignition OFF.

Disconnect: Autolamp Sensor C287 (vehicles with EMTC).

Disconnect: Autolamp/Sunload Sensor C286 (vehicles with DATC).

Ignition ON.

Measure:

Vehicles With EMTC

Positive Lead	Measurement / Action	Negative Lead
C287-2		Ground

Vehicles With DATC

Positive Lead	Measurement / Action	Negative Lead
C286-2		Ground

Is the voltage approximately 5 volts?

Yes	GO to B6
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No	GO to B8
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B6 CHECK THE LIGHT SENSOR FOR GROUND

Measure:

Vehicles With EMTC

Positive Lead	Measurement / Action	Negative Lead
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C287-2		C287-4
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Vehicles With DATC

Positive Lead	Measurement / Action	Negative Lead
C286-2		C286-4

Is the voltage approximately 5 volts?

Yes	INSTALL a new autolamp or autolamp/sunload sensor. REFER to: Light Sensor .
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No	GO to B7
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B7 CHECK THE LIGHT SENSOR GROUND CIRCUIT FOR AN OPEN

Ignition OFF.

Disconnect: BCM C2280B .

Measure:

Vehicles With EMTC

Positive Lead	Measurement / Action	Negative Lead
C287-4	Ω	C2280B-22

Vehicles With DATC

Positive Lead	Measurement / Action	Negative Lead
C286-4	Ω	C2280B-22

Is the resistance less than 3 ohms?

Yes	GO to B10
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No	REPAIR the circuit.
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B8 CHECK THE LIGHT SENSOR INPUT CIRCUIT FOR A SHORT TO VOLTAGE

Disconnect: BCM C2280B .

Measure:

Vehicles With EMTC

Positive Lead	Measurement / Action	Negative Lead
C287-2		Ground

Vehicles With DATC

Positive Lead	Measurement / Action	Negative Lead
C286-2		Ground

Is any voltage present?

Yes	REPAIR the circuit.
No	GO to B9

B9 CHECK THE LIGHT SENSOR INPUT CIRCUIT FOR AN OPEN

Measure:

Vehicles With EMTC

Positive Lead	Measurement / Action	Negative Lead
C287-2	Ω	C2280B-24

Vehicles With DATC

Positive Lead	Measurement / Action	Negative Lead
C286-2	Ω	C2280B-24

Is the resistance less than 3 ohms?

Yes	GO to B10
No	REPAIR the circuit.

B10 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

Disconnect and inspect all BCM 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