

	module connections. ADDRESS the root cause of any connector or pin issues.
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Refer to Wipers and Washers for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Wipers and Washers - System Operation and Component Description .

SCCM DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B1131:08	Wiper motor module: Bus Signal / Message Failure	Sets when the SCCM detects a communication fault with the windshield wiper motor over the LIN.
B1131:11	Wiper motor module: Circuit Short to Ground	Sets when the SCCM detects a short to ground from the windshield wiper motor LIN circuit.

Possible Sources

- Wiring, terminals or connectors
- Wiper/washer switch
- Windshield wiper motor
- Rain sensor
- SCCM

Visual Inspection and Diagnostic Pre-checks

- Inspect the wiper/washer switch for damage

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NOTE: Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may damage the connector.



NOTE: It may be necessary to disconnect and then reconnect the battery after the repair to enable the wiper operation.

B1 CHECK THE HIGH SPEED WIPER OPERATION

Ignition ON.

Place the wiper/washer switch to the high speed setting and observe the windshield wipers.
Place the wiper/washer switch to the off setting.

Do the windshield wipers operate with the wiper/washer switch in the high speed setting?

Yes	GO to B2
No	GO to Pinpoint Test A

B2 CHECK THE LOW SPEED WIPER OPERATION

Place the wiper/washer switch to the low speed setting and observe the windshield wipers.
Place the wiper/washer switch to the off setting.

Do the windshield wipers operate with the wiper/washer switch in the low speed setting?

Yes	If not equipped with a rain sensor, GO to Pinpoint Test E If equipped with a rain sensor, GO to Pinpoint Test F
No	GO to B3

B3 CHECK THE INPUT TO THE SCCM (STEERING COLUMN CONTROL MODULE) USING THE FRONT WIPER COMMAND LOW SPEED (F_WIP_SLO_SW) PID (PARAMETER IDENTIFICATION)

Using a diagnostic scan tool, view the SCCM Parameter Identifications (PIDs).

Using a diagnostic scan tool, view the SCCM PID F_WIP_SLO_SW.

Place the wiper/washer switch to the low speed setting.

Does the PID indicate the wiper/washer switch is in the low speed setting?

Yes	If equipped with a rain sensor, GO to B4 If not equipped with a rain sensor, GO to B5
No	INSTALL a new wiper/washer switch. REFER to: Steering Column Multifunction Switch LH . TEST the system for normal operation. If the concern is still present, INSTALL a new SCCM. REFER to: Steering Column Control Module (SCCM) .

B4 ISOLATE THE RAIN SENSOR

Ignition OFF.

Disconnect Rain Sensor C914 .

Ignition ON.

Place the wiper/washer switch to the low speed setting and observe the windshield wipers.
Place the wiper/washer switch to the off setting.

Do the windshield wipers operate with the wiper/washer switch in the low speed setting?

Yes	INSTALL a new rain sensor. REFER to: Rain Sensor .
No	GO to B5

B5 CHECK THE LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR A SHORT TO VOLTAGE

Ignition OFF.

Disconnect Windshield Wiper Motor C125 .

Disconnect SCCM C226A.

Ignition ON.

Measure:

Positive Lead	Measurement / Action	Negative Lead
C125-4		Ground

Is any voltage present?

Yes	REPAIR the circuit.
No	GO to B6

B6 CHECK THE LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR A SHORT TO GROUND

Ignition OFF.

Measure:

Positive Lead	Measurement / Action	Negative Lead
C125-4	Ω	Ground

Is the resistance greater than 10, 000 ohms?

Yes	GO to B7
No	REPAIR the circuit.

B7 CHECK THE LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR AN OPEN

Measure:

Positive Lead	Measurement / Action	Negative Lead
C125-4	Ω	C226A-8

Is the resistance less than 3 ohms?

Yes	GO to B8
No	REPAIR the circuit.

B8 CHECK FOR CORRECT WINDSHIELD WIPER MOTOR OPERATION

Disconnect and inspect the windshield wiper motor connector.

Repair:

corrosion (install new connector or terminal - clean module pins)

damaged or bent pins - install new terminals/pins

pushed-out pins - install new pins as necessary

Reconnect the windshield wiper motor connector. Make sure it seats and latches correctly.

Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW the TSB instructions. If no Technical Service Bulletins (TSBs) address this concern, INSTALL a new windshield wiper motor. REFER to: Windshield Wiper Motor . TEST the system for normal operation. If the concern is still present, GO to B9
No	The system is operating correctly at this time. The concern may have been caused by a loose or corroded connector. ADDRESS the root cause of any connector or pin issues.

B9 CHECK FOR CORRECT SCCM (STEERING COLUMN CONTROL MODULE) OPERATION

Disconnect and inspect all the SCCM connectors.

Repair:

corrosion (install new connector or terminal - clean module pins)

damaged or bent pins - install new terminals/pins

pushed-out pins - install new pins as necessary

Reconnect the SCCM connectors. Make sure they seat and latch correctly.