

## Possible Sources

- Wiring, terminals or connectors
- LH PRB motor
- RBM

## Visual Inspection and Diagnostic Pre-checks

- LH PRB motor harness connections and wiring.

## DIAGNOSIS AND TESTING > POWER RUNNING BOARD (PRB) > PINPOINT TESTS > PINPOINT TEST D : C1006:11, C1006:12, C1006:13, C1006:19 > PINPOINT TEST D : C1006:11, C1006:12, C1006:13, C1006:19



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

### D1 CHECK THE LH (LEFT-HAND) PRB (POWER RUNNING BOARD) MOTOR CONTROL CIRCUITS FOR A SHORT TO VOLTAGE

Ignition OFF.

Disconnect Left PRB motor C3185 .

Ignition ON.

Wait 10 seconds so any PRB movement commands are complete.

Measure:

| Positive Lead | Measurement / Action | Negative Lead |
|---------------|----------------------|---------------|
| C3185-1       |                      | Ground        |
| C3185-3       |                      | Ground        |

### Is any voltage present?

|            |                     |
|------------|---------------------|
| <b>Yes</b> | REPAIR the circuit. |
| <b>No</b>  | GO to D2            |

### D2 CHECK THE LH (LEFT-HAND) PRB (POWER RUNNING BOARD) MOTOR CONTROL CIRCUITS FOR A SHORT TO GROUND

Ignition OFF.

Measure:

| Positive Lead | Measurement / Action | Negative Lead |
|---------------|----------------------|---------------|
| C3185-1       | $\Omega$             | Ground        |
| C3185-3       | $\Omega$             | Ground        |

**Are the resistances greater than 10, 000 Ohms?**

|            |          |
|------------|----------|
| <b>Yes</b> | GO to D3 |
|------------|----------|

|           |                     |
|-----------|---------------------|
| <b>No</b> | REPAIR the circuit. |
|-----------|---------------------|

D3 CHECK THE LH (LEFT-HAND) PRB (POWER RUNNING BOARD) MOTOR CONTROL CIRCUITS FOR AN OPEN

Disconnect RBM C3313A .

Measure:

| Positive Lead | Measurement / Action | Negative Lead |
|---------------|----------------------|---------------|
| C3185-1       | $\Omega$             | C3313A-2      |
| C3185-3       | $\Omega$             | C3313A-1      |

**Are the resistances less than 3 Ohms?**

|            |          |
|------------|----------|
| <b>Yes</b> | GO to D4 |
|------------|----------|

|           |                     |
|-----------|---------------------|
| <b>No</b> | REPAIR the circuit. |
|-----------|---------------------|

D4 CHECK THE LH (LEFT-HAND) PRB (POWER RUNNING BOARD) MOTOR CIRCUITS FOR A SHORT TOGETHER

Measure:

| Positive Lead | Measurement / Action | Negative Lead |
|---------------|----------------------|---------------|
| C3185-1       | $\Omega$             | C3185-3       |
| C3185-1       | $\Omega$             | C3185-5       |
| C3185-1       | $\Omega$             | C3185-6       |
| C3185-1       | $\Omega$             | C3185-4       |
| C3185-3       | $\Omega$             | C3185-5       |
| C3185-3       | $\Omega$             | C3185-6       |

|         |          |         |
|---------|----------|---------|
| C3185-3 | $\Omega$ | C3185-4 |
| C3185-5 | $\Omega$ | C3185-6 |
| C3185-5 | $\Omega$ | C3185-4 |
| C3185-6 | $\Omega$ | C3185-4 |

**Are the resistances greater than 10, 000 ohms?**

|            |          |
|------------|----------|
| <b>Yes</b> | GO to D5 |
|------------|----------|

|           |                     |
|-----------|---------------------|
| <b>No</b> | REPAIR the circuit. |
|-----------|---------------------|

**D5 CHECK FOR CORRECT RBM (RUNNING BOARD CONTROL MODULE) OUTPUT**

 **NOTE:** Use a meter with a min-max feature or recording capabilities to obtain accurate measurements. The RBM disables the voltage output immediately if the PRB motor is not present

Connect RBM C3313A .

Ignition ON.

Make sure the PRB is set to AUTO in the vehicle message center.

Close all vehicle doors.

Connect the meter to the LH PRB motor electrical connector, harness side.

Set the meter to measure DC (direct current) voltage.

Set the meter range to greater than 15 volts.

Enable the min-max or recording feature on the meter.

 **NOTE:** Make sure all test connections are made at the PRB motor before the LH door is opened.

Open any LH side door.

Measure:

| Positive Lead | Measurement / Action                                                                | Negative Lead |
|---------------|-------------------------------------------------------------------------------------|---------------|
| C3185-3       |  | C3185-1       |

**Is the voltage greater than 10 volts?**