

- Brake fluid level switch
- Parking brake system concern (electronic parking brake)
- Parking brake switch (manual parking brake)
- BCM
- IPC

Visual Inspection and Diagnostic Pre-checks

Inspect the:

- brake fluid level switch for signs of any external damage.
- wiring harness for signs of a pinched harness causing a shorted circuit.
- verify the parking brake operates correctly when applied and released

DIAGNOSIS AND TESTING > INSTRUMENTATION, MESSAGE CENTER AND WARNING CHIMES > PINPOINT TESTS > PINPOINT TEST R : THE BRAKE WARNING INDICATOR IS NEVER ON > PINPOINT TEST R : THE BRAKE WARNING INDICATOR IS NEVER ON

R1 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) INDICATOR LAMP CONTROL ACTIVE COMMAND USING A SCAN TOOL

Ignition ON.

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

Select the IPC brake warning indicator (PBA_LMP) PID.

Command the brake warning indicator on then off while observing the brake warning indicator.

Does the brake warning indicator turn on when commanded on and turn off when commanded off?

Yes	GO to R2
No	

R2 DETERMINE IF THE BRAKE WARNING INDICATOR OPERATES WITH THE PARKING BRAKE APPLIED

Apply the parking brake while monitoring the brake warning indicator.

Does the brake warning indicator illuminate?

Yes	GO to R6
No	If equipped with electronic parking brakes, DIAGNOSE the electronic parking brake system. REFER to: Parking Brake . If equipped with manual parking brakes, GO to R3

R3 CHECK THE PARKING BRAKE POSITION SWITCH

Ignition OFF.

Disconnect Parking Brake Position Switch C306 .

Connect a fused jumper wire:

Lead 1	Measurement / Action	Lead 2
C306-1		C306-2

Ignition ON.

Does the brake warning indicator illuminate?

Yes	REMOVE the fused jumper wire. INSTALL a new parking brake position switch.
No	REMOVE the fused jumper wire. GO to R4

R4 CHECK THE PARKING BRAKE POSITION SWITCH GROUND CIRCUIT FOR AN OPEN

Ignition OFF.

Measure:

Positive Lead	Measurement / Action	Negative Lead
C306-2	Ω	Ground

Is the resistance less than 3 ohms?

Yes	GO to R5
No	REPAIR the circuit.

R5 CHECK THE PARKING BRAKE WARNING INDICATOR SIGNAL CIRCUIT FOR AN OPEN

Disconnect BCM C2280E .

Measure:

Positive Lead	Measurement / Action	Negative Lead

C306-1



C2280E-47

Is the resistance less than 3 ohms?

Yes	GO to R7
------------	----------

No	REPAIR the circuit.
-----------	---------------------

R6 CHECK THE BRAKE FLUID LEVEL SWITCH OPERATION

Ignition OFF.

Disconnect Brake Fluid Level Switch C124 .

Ignition ON.

Wait one minute.

Does the brake warning indicator illuminate?

Yes	VERIFY the brake fluid level is low enough to turn on the brake warning indicator or has been reported low enough to turn on the brake warning indicator. If the brake fluid level is currently low or has been reported low, INSTALL a new brake fluid level switch. If the brake fluid level is not currently low or has not been reported low, the system is operating correctly at this time.
------------	---

No	GO to R7
-----------	----------

R7 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

Ignition OFF.

Disconnect and inspect all BCM connectors and related in-line 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

Reconnect the BCM connectors and related in-line connectors. Make sure they seat and latch 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 TSB instructions. If no Technical
------------	---