

**DIAGNOSIS AND TESTING > PARKING BRAKE > PINPOINT TESTS > PINPOINT TEST
G : U0100:87 > PINPOINT TEST G : U0100:87**

G1 CHECK THE COMMUNICATION NETWORK

Ignition ON.

Using a diagnostic scan tool, carry out the Network Test.

Do the GWM and PCM pass the Network Test?

Yes	GO to G2
No	DIAGNOSE the no communication with the GWM or PCM. REFER to: Communications Network .

**G2 CHECK THE EPB (ELECTRIC PARKING BRAKE) MODULE CONTINUOUS MEMORY
DIAGNOSTIC TROUBLE CODES (CMDTCS)**

Using a diagnostic scan tool, carry out the EPB module self-test.

Clear the EPB module Diagnostic Trouble Codes (DTCs).

Ignition OFF.

Ignition ON.

Using a diagnostic scan tool, carry out the EPB module self-test.

Record the EPB module Diagnostic Trouble Codes (DTCs).

Is DTC U0100:87 retrieved again?

Yes	GO to G3
No	For all other EPB module Diagnostic Trouble Codes (DTCs), GO to the DTC Chart: Electronic Parking Brake (EPB) Module . If no Diagnostic Trouble Codes (DTCs) are present, the system is operating correctly at this time. The DTC may have been set due to high network traffic or an intermittent fault condition.

**G3 REVIEW THE RECORDED DIAGNOSTIC TROUBLE CODES (DTCs) FROM THE EPB
(ELECTRIC PARKING BRAKE) SELF-TEST**

Review the recorded Diagnostic Trouble Codes (DTCs) from the EPB self-test.

Is DTC U3003:16 or U3003:17 recorded?

Yes	For DTC U3003:16, GO to Pinpoint Test A For DTC U3003:17, GO to Pinpoint Test C
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No	GO to G4
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G4 CHECK FOR DIAGNOSTIC TROUBLE CODES (DTCS) IN THE GWM (GATEWAY MODULE A)

Using a diagnostic scan tool, carry out the GWM self-test.

Are any Diagnostic Trouble Codes (DTCs) present in the GWM?

Yes	DIAGNOSE the GWM Diagnostic Trouble Codes (DTCs). REFER to: Communications Network .
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No	GO to G5
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G5 CHECK FOR DIAGNOSTIC TROUBLE CODES (DTCS) IN THE PCM (POWERTRAIN CONTROL MODULE)

Using a diagnostic scan tool, carry out the PCM KOEO self-test.

Are any Diagnostic Trouble Codes (DTCs) present in the PCM?

Yes	DIAGNOSE the PCM Diagnostic Trouble Codes (DTCs). 2.7L EcoBoost REFER to: ELECTRONIC ENGINE CONTROLS . 3.5L Duratec REFER to: ELECTRONIC ENGINE CONTROLS . 3.5L EcoBoost REFER to: ELECTRONIC ENGINE CONTROLS . 5.0L 32V Ti-VCT REFER to: ELECTRONIC ENGINE CONTROLS .
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No	GO to G6
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G6 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0100:XX SET IN OTHER MODULES

Using a diagnostic scan tool, carry out the self-test for all modules.

Retrieve the Continuous Memory Diagnostic Trouble Codes (CMDTCs) from all modules.

Is DTC U0100:xx set in 1 or more modules in addition to the EPB module?

Yes	GO to G7
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No	GO to G8
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G7 CHECK FOR CORRECT PCM (POWERTRAIN CONTROL MODULE) OPERATION

Ignition OFF.

Disconnect all PCM electrical connectors.

Disconnect all in-line electrical connectors between the PCM and the EPB module.

Using a good light source, inspect all disconnected electrical connectors for the following:

corrosion - install new connector or terminal and clean the module pins

damaged or bent pins - install new terminals or pins

pushed-out pins - install new pins as necessary

spread terminals - install new terminals as necessary

Connect all in-line electrical connectors between the PCM and the EPB module. Make sure they seat and latch correctly.

Connect all PCM 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 the TSB instructions. If no Technical Service Bulletins (TSBs) address this concern, INSTALL a new PCM. 2.7L EcoBoost REFER to: POWERTRAIN CONTROL MODULE (PCM) . 3.5L Duratec REFER to: POWERTRAIN CONTROL MODULE (PCM) . 3.5L EcoBoost REFER to: POWERTRAIN CONTROL MODULE (PCM) . 5.0L 32V Ti-VCT REFER to: POWERTRAIN CONTROL MODULE (PCM) .
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

G8 CHECK FOR CORRECT EPB (ELECTRIC PARKING BRAKE) MODULE OPERATION

Ignition OFF.

Disconnect EPB module C3675 .

Disconnect all in-line electrical connectors between the EPB module and the PCM.

Using a good light source, inspect all disconnected electrical connectors for the following:

corrosion - install new connector or terminal and clean the module pins

damaged or bent pins - install new terminals or pins

pushed-out pins - install new pins as necessary

spread terminals - install new terminals as necessary

Connect all in-line electrical connectors between the EPB module and the PCM. Make sure they seat and latch correctly.

Connect EPB module C3675 . Make sure it seats and latches correctly.

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