DIAGNOSIS AND TESTING > INSTRUMENTATION, MESSAGE CENTER AND WARNING CHIMES > PINPOINT TESTS > PINPOINT TEST BQ : U0140:00 OR U0422:82

Normal Operation and Fault Conditions

IPC DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
U0140:00	Lost Communication With Body Control Module: No Sub Type Information	Sets in continuous memory in the IPC if data messages received from the BCM through the GWM are missing for 5 seconds or longer.
U0422:82	Invalid Data Received From Body Control Module: Alive/Sequence Counter Incorrect/Not Updated	Sets in continuous memory in the IPC if load shed, power child lock or park lock data messages received from the BCM through the GWM are missing for 5 seconds or longer.

Possible Sources

- Communication concern
- Battery voltage concern
- GWM concern
- BCM
- IPC

DIAGNOSIS AND TESTING > INSTRUMENTATION, MESSAGE CENTER AND WARNING CHIMES > PINPOINT TESTS > PINPOINT TEST BQ : U0140:00 OR U0422:82 > PINPOINT TEST BQ : U0140:00 OR U0422:82

BQ1 VERIFY THE CUSTOMER CONCERN

Ignition ON.

Verify there is an observable symptom present.

Is an observable symptom present?

Yes	GO to BQ2

No	CLEAR the DTC. The system is operating normally at this time. The DTC may have been set due to high network traffic or an intermittent fault condition.

BQ2 CHECK THE COMMUNICATION NETWORK

Using a diagnostic scan tool, perform the network test.

Does the BCM pass the network test?

Yes	GO to BQ3

No	REFER to: Communications Network .

BQ3 PERFORM THE BCM (BODY CONTROL MODULE) SELF-TEST

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

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Body Control Module (BCM) .

No	GO to BQ4

BQ4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCS)

Using a diagnostic scan tool, check the GWM Continuous Memory Diagnostic Trouble Codes (CMDTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Communications Network .

No	GO to BQ5

BQ5 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) SELF-TEST

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

Is DTC U3003:16 or DTC U3003:17 recorded?

Yes	REFER to DTC Chart: IPC .

No	GO to BQ6

BQ6 RECHECK THE IPC (INSTRUMENT PANEL CLUSTER) DIAGNOSTIC TROUBLE CODES (DTCS)

NOTE: If new modules were installed prior to the DTC being set, the module configuration may be incorrectly set during the Programmable Module Installation (PMI), or the Programmable Module Installation (PMI) may not have been carried out.

Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs).

Wait 10 seconds.

Repeat the IPC self-test.

Is DTC U0140:00 or DTC U0422:82 still present?

Yes	GO to BQ7

No	The system is operating correctly at this time. The DTC may have been set due to high network traffic or an intermittent fault condition.

BQ7 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0140:00 SET IN OTHER MODULES

Using a diagnostic scan tool, clear all Diagnostic Trouble Codes (DTCs).

Ignition OFF.

Ignition ON.

Wait 10 seconds.

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

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

Is DTC U0140:00 set in the ABS, APIM (if equipped) or RCM?

Yes	GO to BQ8

No	GO to BQ9

BQ8 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