

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 Service Bulletins (TSBs) address this concern, INSTALL a new PCM.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.

**DIAGNOSIS AND TESTING > ELECTRONIC ENGINE CONTROLS > PINPOINT TESTS
> PINPOINT TEST C : U0164****DTC Fault Trigger Condition-PCM**

DTC	Description	Fault Trigger Conditions
U0164	Lost Communication With HVAC Control Module	The PCM sets this DTC if data messages received from the FCIM through the GWM are missing.

Normal Operation and Fault Conditions

The HVAC control module is housed in the FCIM. REFER to: MODULE COMMUNICATIONS NETWORK .

Possible Sources

- FCIM module
- BCM
- PCM

**DIAGNOSIS AND TESTING > ELECTRONIC ENGINE CONTROLS > PINPOINT TESTS
> PINPOINT TEST C : U0164 > PINPOINT TEST C : U0164****C1 VERIFY THE CUSTOMER CONCERN**

Ignition ON.

Verify there is an observable symptom present.

Is an observable symptom present?

Yes	GO to C2
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No	The system is operating normally at this time. The DTC may have been set due to high network traffic or an intermittent fault condition.
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C2 CHECK THE COMMUNICATION NETWORK

Using a diagnostic scan tool, perform a network test.

Does the FCIM module pass the network test?

Yes	GO to C3
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No	REFER to: MODULE COMMUNICATIONS NETWORK .
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C3 PERFORM FCIM (FRONT CONTROLS INTERFACE MODULE) MODULE SELF-TEST

Using a diagnostic scan tool, perform a FCIM module self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	Without touchscreen, REFER to: Information and Entertainment System - Vehicles With: AM/FM/CD/SYNC. With touchscreen, REFER to: Information and Entertainment System - Vehicles With: Touchscreen Display.
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No	GO to C4
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C4 CHECK THE BCM (BODY CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCs)

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

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Body Control Module (BCM) .
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No	GO to C5
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C5 PERFORM THE PCM (POWERTRAIN CONTROL MODULE) SELF-TEST

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

Is DTC P0562 or DTC P0563 recorded?

Yes	REFER to DTC Chart: Powertrain Control Module (PCM) .
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No	GO to C6
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NOTE: If new modules were installed prior to the DTC being set, the module configuration may be incorrectly set during the PMI, or the PMI may not have been carried out.

C6 RECHECK THE PCM (POWERTRAIN CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

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

Wait 10 seconds.

Repeat the PCM self-test.

Is DTC U0164 still present?

Yes	GO to C7
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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.
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C7 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0164 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, retrieve **all** Continuous Memory Diagnostic Trouble Codes (CMDTCs).

Is DTC U0164 set in any other module?

Yes	GO to C8
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No	GO to C9
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C8 CHECK FOR CORRECT FCIM (FRONT CONTROLS INTERFACE MODULE) MODULE OPERATION

Ignition OFF.

Disconnect and inspect all FCIM MODULE connectors.

Repair:

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

damaged or bent pins - install new terminals/pins