

Possible Source

- Audio DSP module

DIAGNOSIS AND TESTING > INFORMATION AND ENTERTAINMENT SYSTEM > PINPOINT TESTS > PINPOINT TEST AN : U0238:00 > PINPOINT TEST AN : U0238:00

AN1 VERIFY THE CUSTOMER'S CONCERN

Ignition ON.

Verify there is an observable symptom present.

Is an observable symptom present?

Yes	GO to AN2
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.

AN2 RECHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0238:00

Ignition ON.

Using a diagnostic scan tool, clear all Continuous Memory Diagnostic Trouble Codes (CMDTCs).

Ignition OFF.

Ignition ON.

Wait at least 10 seconds.

Using a diagnostic scan tool, retrieve all Continuous Memory Diagnostic Trouble Codes (CMDTCs).

Is DTC U0238:00 set in the ACM or APIM?

Yes	GO to AN3
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.

AN3 CHECK FOR BATTERY VOLTAGE OUT-OF-RANGE DIAGNOSTIC TROUBLE CODES (DTCS)

Using a diagnostic scan tool, perform the self-test for the following modules:

ACM

APIM

Audio DSP module

Are any low or high voltage Diagnostic Trouble Codes (DTCs) recorded in the ACM, APIM, or audio DSP module?

Yes	* For DTC U3003:16, GO to Pinpoint Test AT * For DTC U3003:17, GO to Pinpoint Test AU
No	GO to AN4

AN4 CHECK FOR DTC (DIAGNOSTIC TROUBLE CODE) U0238:00 SET IN MULTIPLE MODULES

Review the recorded results from the self-test.

Is DTC U0238:00 set in both the ACM and APIM?

Yes	GO to AN5
No	* If there is an observable symptom, REFER to: Information and Entertainment System . See Symptom Chart: General Audio System.* If there is no observable symptom, the system is operating correctly at this time. The DTC may have been set due to high network traffic or an intermittent fault condition.

AN5 CHECK FOR CORRECT AUDIO DSP (AUDIO DIGITAL SIGNAL PROCESSING MODULE) MODULE OPERATION

Ignition OFF.

Disconnect and inspect all the audio DSP module connectors.

Repair:

Corrosion (clean module pins or install new connectors or terminals)

Damaged or bent pins (install new terminals or pins)

Pushed-out pins (install new pins as necessary)

Reconnect the audio DSP module 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 audio DSP module. REFER to: Audio Digital Signal Processing (DSP) Module .
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