



# TOYOTA Technical Service BULLETIN

July 24, 1998

Title:

## AVC-LAN AUDIO DIAGNOSIS

Models:

All '98 models

Audio  
AU001-98

**Introduction** 1998 deluxe and premium grade audio systems are equipped with an Audio Visual Communication-Local Area Network (AVC-LAN) that standardizes the audio, visual, switch, and communication data used between the radio, amplifier, cassette player, and CD player/changer. The AVC-LAN standards allow diagnostic functions and easy product interchangeability.

**AVC-LAN Diagnostics** The AVC-LAN system identifies each audio component by a Code Number and the probable cause of the condition by a Diagnostic Trouble Code. These codes can be accessed by the following procedure:

**Activate the Diagnostic Mode**

1. Set the ignition key to the "ON" position and turn the radio "OFF".
2. While pressing the "1" and "6" buttons, press the "CD" button 3 times. The Code Number, which identifies the audio components, will display.

CODE #	COMPONENT
190	Radio Receiver Assembly
240	CD Player/Changer Luggage Area
360	CD Player/Changer Center Console

- Display the Code Numbers of other audio components by using the "TUNE UP" or "TUNE DOWN" button.

**Activate the System Check Mode**

3. Press the "1" button to activate the System Check Mode. The system will perform a self-diagnosis, store up to six error codes, and display the first error code.
  - Display other error codes by using the "TUNE UP" or "TUNE DOWN" button.
  - When no errors are detected, "00" will display.
  - Press "6" to exit this mode.

**Activate the Diagnostic Memory Mode**

4. Press the "2" button to activate the Diagnosis Memory Mode. The results of the self-diagnosis performed on the radio and other components attached to the radio are stored. Up to six error codes are stored in memory and the system displays the first error code.
  - The other error codes can be displayed by using the "TUNE UP" or "TUNE DOWN" button.
  - When no errors are detected, "00" will display.
  - Press "6" to exit this mode.

**Erasing the Diagnostic Memory**

5. Pressing the "5" button for 2 seconds will erase the memory.

**Exiting the Diagnostic Mode**

6. Exit the diagnosis mode by pressing and holding the "CD" button for 2 seconds or by turning the key to the "OFF" position.

**NOTE:**

When +B or GND short is detected in the AVC-LAN circuit, communication stops and the audio system will not function normally.



**Part Name:  
Head Unit**

CODE: 190			SYSTEM CHECK	DIAG. MEM.
DTC	DIAGNOSTIC ITEM	COUNTERMEASURE		
00	No Errors	N/A	○	○
41	AM Tuner Error	Check radio receiver & connections		○
42	FM Tuner Error	Check radio receiver & connections		○
50	Cassette Error	Check for foreign object inside the radio receiver		○
51	No Eject	Check for foreign object inside the radio receiver		○
60	CD Error	Check CD player/changer		○
61	Eject Error	Check for obstructions in CD player/changer		○
62	Disc Upside Down or has a flaw	Check CD		○
D1	Communication Error	Check radio connections	○	○
D2	Intermittent No Response	Check radio connections	○	○
D4	AVC LAN Periodic Communication – No Response	Check radio connections		○
FF	Diagnosis No Response	Check radio connections	○	
○ indicates applicable codes				

**Part Name:  
CD**

CODE: 240/360			SYSTEM CHECK	DIAG. MEM.
DTC	DIAGNOSTIC ITEM	COUNTERMEASURE		
00	No Errors	N/A	○	○
60	CD Error	Check CD player/changer		○
61	Eject Error	Check for obstructions in CD player/changer		○
62	Disc Upside Down or has a flaw	Check CD		○
63	Pick–Up Temperature Detection	Check for high temperature. Cool CD player/changer		○
64	Excessive Current Detection	Check CD player/changer connections/wiring shorts		○
67	Tray Insert/Eject Error	Check CD magazine		○
68	Elevator Error	Check for obstructions of CD changer magazine		○
69	Clamp Error	Check for foreign object in CD player/changer		○
D1	Communication Error	Check CD player/changer connections	○	○
D4	AVC LAN Periodic Communication – No Response	Check CD player/changer connections		○
FF	Diagnosis No Response	Check CD player/changer connections	○	
○ indicates applicable codes				

**Part Name:  
Amplifier**

CODE:			SYSTEM CHECK	DIAG. MEM.
DTC	DIAGNOSTIC ITEM	COUNTERMEASURE		
00	No Errors	N/A	○	○
D1	Communication Error	Check amplifier connections	○	○
D4	AVC LAN Periodic Communication – No Response	Check amplifier connections		○
FF	Diagnosis No Response	Check amplifier connections	○	
○ indicates applicable codes				