

DIAGNOSTIC TROUBLE CODE CHART

Terms	Description
Physical address	3-digit, hexadecimal code assigned to all components connected to the AVC-LAN. Individual symbols are specified based on function. Units whose names are unknown or relevant units are displayed with physical addresses.
Logical address	2-digit, hexadecimal code assigned to all the functions in the AVC-LAN system.

HINT:

Titles for each unit are stated in the following order: parts name (physical address) [Name indicated by DTC]

1. RADIO RECEIVER ASSY (Physical address: 190) [AUDIO H/U]

(a) Logical address: 01 (Communication control)

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the verification column.

DTC	Name	Diagnosis	Verification	See page
D5 *1 *5	Absence of registration unit	A device that the sub code shows is (was) disconnected from the system when turning the ignition switch to the ACC or ON position. The communication condition with the device that the code shows cannot be obtained when the engine starts.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 7
D8 *2 *5	No response for connection check	The device indicated by the sub code is (was) disconnected from the system after engine start.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 7
D9 *1 *5	Last mode error	The device (for audio visual system) that had functioned before the engine stopped is (was) disconnected from the system when the ignition switch is (was) in the ACC or ON position.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 7
DA *5	No response against ON/OFF command	No response is identified when changing mode (audio and visual mode change). Detected when sound and image do not change by switch operation.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 7
DB *1 *5	Mode status error	This code detects a dual alarm.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 7
DC *3 *5	Failure in transmission	This code indicates a transmission failure to the device indicated by the sub code. NOTE: This DTC may have no direct relationship with the malfunction.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 7
DE *4 *5	Slave reset	This code is stored when a slave device has been disconnected after engine start.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 7

HINT:

- *1: Even if no failure is detected, a trouble code may be recorded depending on the battery condition or engine start voltage.
- *2: If the power connector is disconnected after the engine starts, this code is recorded after 180 seconds.
- *3: This code may be stored if the ignition key is turned again after the engine starts.
- *4: This code may be stored if the ignition key is held in the START position for one minute or more before returning to the ON position.
- *5: If the device is reported as not existing during verification, check the power source circuit and AVC-LAN circuit for the device.

(b) Logical address: 62 (CD): 63 (CD changer)

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the verification column.

DTC	Name	Diagnosis	Verification	See page
10	CD player mechanical error	A mechanical error in the CD player is detected while the CD is not being inserted or ejected.	Replace radio receiver assy	67-5
11	CD insertion & eject error	CD insertion or ejection is failed.	Replace radio receiver assy	67-5
12	CD reading abnormal	CD read problem occurs.	Replace radio receiver assy	67-5
40	No disc	No disc is inserted.	1. Check whether the CD is inserted or not. If the CD is inserted, check whether it can be ejected or not. If it cannot be ejected, replace radio receiver assy. 2. Inspect CD. 3. If the same code is detected, replace the radio receiver assy	67-5 05-1692 67-5
41	Wrong disc	An unsuitable disc is inserted.	1. Inspect CD. 2. If the same code is detected, replace the radio receiver assy	05-1692 67-5
42	Disc cannot be read	The disc cannot be read.	1. Inspect CD. 2. If the same code is detected, replace the radio receiver assy	05-1692 67-5
43	CD-ROM abnormal	CD-ROM operation is abnormal.	Replace radio receiver assy	67-5
44	CD abnormal	Operation error in the CD mechanism (except for code 10).	1. After clearing the DTC, check the malfunction symptom. 2. If the same code is detected, replace the radio receiver assy	– 67-5
45	EJECT error	Magazine cannot be ejected.	Replace radio receiver assy	67-5
46	Disc has scratches in the reverse surface	CD has a dirt or scratches in the reverse side.	1. Inspect CD. 2. If the same code is detected, replace the radio receiver assy	05-1692 67-5
47	CD temperature is high	The sensor detects that the CD unit temperature is high.	1. Park the vehicle in a cool place. Turn the engine off. After checking that the temperature of the radio and navigation assy becomes sufficiently low, turn the engine on in order to verify the malfunction symptom. 2. If the same code is detected, replace the radio receiver assy	– 67-5
48	Excess current	Excess current is applied disc player changer.	Replace radio receiver assy	67-5
50	Tray insertion/ejection error	Malfunction insertion/ejection system	Replace radio receiver assy	67-5
51	Elevator error	Mechanical error occurred during elevator operation.	Replace radio receiver assy	67-5
52	Clamp error	Clamp unusually generating	Replace radio receiver assy	67-5

(c) Logical address: 61 (Cassette)

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the Verification column.

DTC	Name	Diagnosis	Verification	See page
10	Belt cut	The inside belt is cut or come off.	Replace radio receiver assy	67-5
40	Mechanical error of media	A malfunction due to mechanical problem, cassette tape is cut or entangled.	1. Replace the cassette tape and recheck the symptom. 2. If the same code is detected, replace the radio receiver assy	- 67-5
41	EJECT Error	A malfunction due to mechanical problem.	Replace radio receiver assy	67-5
42	Tape tangling	Cassette tape is tangled.	Replace radio receiver assy	67-5
43	Head dirt	Head is dirty.	1. Clean the head and recheck the symptom. 2. If the same code is detected, replace the radio receiver assy	- 67-5
44	Device power supply problem	A short or open in the power circuit.	1. Power source circuit (radio receiver assy) 2. Replace radio receiver assy	05-1699 67-5

2. TELEPHONE TRANSCEIVER AND SPEAKER RELAY (Physical address: 17D) (TEL)

(a) Logical address: 01 (Communication control)

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the verification column.

DTC	Name	Diagnosis	Verification	See page
D6 *1	No master	When either the following condition meets. - The device that stores (stored) the code has (had) been disconnected when the ignition switch is in ACC or ON position. - The master device has (had) been disconnected when this code is stored.	- Power source circuit (radio receiver assy) - AVC-LAN circuit (radio receiver assy – stereo component tuner) - AVC-LAN circuit (stereo component amplifier assy – stereo component tuner) - Replace radio receiver assy - Replace telephone transceiver and speaker relay	05-1699 05-1736 05-1728 67-5 –
D7	Connection check error	When either the following condition meets. - The device that stored this code has (had) been disconnected after the engine starts (started). - The master device has (had) been disconnected when this code is (was) stored.	- Power source circuit (radio receiver assy) - AVC-LAN circuit (radio receiver assy – stereo component tuner) - AVC-LAN circuit (stereo component amplifier assy – stereo component tuner) - Replace radio receiver assy - Replace telephone transceiver and speaker relay	05-1699 05-1736 05-1728 67-5 –
DC *2 *5	Transmission error	The device stores the fact that transmission to the device indicated by the sub code has failed.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 7
DD *3	Master reset	When the device that should be the master has been disconnected after engine starts.	- Power source circuit (radio receiver assy) - AVC-LAN circuit (radio receiver assy – stereo component tuner) - Replace radio receiver assy	05-1699 05-1736 67-5
DF *4	Master error	When the device with a display fails and the master is switched to the audio device. Also when a communication error between sub master (audio) and master occurs, this code is stored.	- Power source circuit (radio receiver assy) - AVC-LAN circuit (radio receiver assy – stereo component tuner) - Replace radio receiver assy	05-1699 05-1736 67-5
E0 *1	Registration complete indication error	When "Registration complete" command from the master device cannot be received.	This code will be detected when signal receiving time is delayed.	–
E1 *1	Voice processing device ON error	When the AMP device records that the AMP output does not function even while the source device operates.	- Power source circuit (radio receiver assy) - AVC-LAN circuit (radio receiver assy – stereo component tuner) - Replace radio receiver assy	05-1699 05-1736 67-5
E2	ON/OFF indication parameter error	When the command for ON/OFF control from the master device has a problem.	Replace radio receiver assy	67-5
E3 *1	Registration demand transmission	When the registration demand command from the slave device is output, or when the registration demand command is output by receiving connection confirmation command from the sub master device.	–	–
E4	Multiple frame incomplete	When the multiple frame transmission ends incomplete	–	–

21	ROM error	This code is output when a malfunction exists in ROM.	Replace telephone transceiver and speaker relay	–
22	RAM error	This code is output when a malfunction exists in RAM.	Replace telephone transceiver and speaker relay	–

HINT:

- *1: Even if no failure is detected, a trouble code may be recorded depending on the battery condition or engine start voltage.
- *2: If the power connector is disconnected after the engine starts, this code is recorded after 180 seconds.
- *3: This code may be stored if the ignition key is turned again after the engine starts.
- *4: This code may be stored if the ignition key is held in the START position for one minute or more before returning to the ON position.
- *5: If the device is reported as not existing during verification, check the power source circuit and AVC-LAN circuit for the device.

(b) Logical address: 57 (telephone information drawing): 68 (TEL)

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the verification column.

DTC	Name	Diagnosis	Verification	See page
10	TEL ECU malfunction	Malfunction in TEL ECU is detected.	Replace telephone transceiver and speaker relay	–
40	Communication line serial line malfunction	Communication malfunction with TEL ECU is detected.	1. AVC-LAN circuit (stereo component amplifier assy – stereo component tuner) 2. Replace telephone transceiver and speaker relay	05-1728 –
41	Telephone power line malfunction	TEL ECU detects a malfunction with cellular phone power.	1. Inspect telephone 2. Replace telephone	– –

3. AUDIO AND REAR A/C CONTROL SW (Physical address: 1C0) [Rr-CONT]

(a) Logical address: 01 (Communication control)

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the verification column.

DTC	Name	Diagnosis	Verification	See page
D6 *1	No master	When either of the following conditions meets. • The device that stores (stored) the code has (had) been disconnected when the ignition switch is in ACC or ON position. • The master device has (had) been disconnected when this code is stored.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Power source circuit (audio and rear A/C control SW) 4. AVC-LAN circuit (stereo component amplifier assy – audio and rear A/C control SW) 5. Replace radio receiver assy 6. Replace audio and rear A/C control SW	05-1699 05-1736 05-1706 05-1731 67-5 67-11
D7	Connection check error	When either of the following conditions meets. • The device that stored this code has (had) been disconnected after the engine starts (started). • The master device has (had) been disconnected when this code is (was) stored.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Power source circuit (audio and rear A/C control SW) 4. AVC-LAN circuit (stereo component amplifier assy – audio and rear A/C control SW) 5. Replace radio receiver assy 6. Replace audio and rear A/C control SW	05-1699 05-1736 05-1706 05-1731 67-5 67-5
DC *2 *5	Transmission error	The device stores the fact that transmission to the device indicated by the sub code has failed.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 7
DD *3	Master reset	When the device that should be the master has been disconnected after the engine starts.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace radio receiver assy	05-1699 05-1736 67-5
DF *4	Master error	When the device with a display fails and the master is switched to the audio device. Also when a communication error between sub master (audio) and master occurs, this code is stored.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace radio receiver assy	05-1699 05-1736 67-5
E0 *1	Registration complete indication error	When "Registration complete" command from the master device cannot be received.	This code will be detected when signal receiving time is delayed.	–
E1 *1	Voice processing device ON error	When the AMP device records that the AMP output does not function even while the source device operates.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace radio receiver assy	05-1699 05-1736 67-5
E2	ON/OFF indication parameter error	When the command for ON/OFF control from the master device has a problem.	Replace radio receiver assy	67-5

E3 *1	Registration demand transmission	When the registration demand command from the slave device is output, or when the registration demand command is output by receiving connection confirmation command from the sub master device.	–	–
E4	Multiple frame incomplete	When the multiple frame transmission ends incomplete	–	–

HINT:

- *1: Even if no failure is detected, a trouble code may be recorded depending on the battery condition or engine start voltage.
- *2: If the power connector is disconnected after the engine starts, this code is recorded after 180 seconds.
- *3: This code may be stored if the ignition key is turned again after the engine starts.
- *4: This code may be stored if the ignition key is held in the START position for one minute or more before returning to the ON position.
- *5: If the device is reported as not existing during verification, check the power source circuit and AVC-LAN circuit for the device.

4. GATEWAY ECU (Physical address: 1C6) [G/W]

(a) Logical address: 01 (Communication control)

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the verification column.

DTC	Name	Diagnosis	Verification	See page
D4	Regular Communication Error	Component in which this code is recorded has been disconnected from system with ignition in the ACC or ON position. Either that, or the radio receiver assy was disconnected when this code was recorded.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. AVC-LAN circuit (radio receiver assy – gateway ECU) 4. Replace radio receiver assy 5. Replace gateway ECU	05-1699 05-1736 05-1734 67-5 –

HINT:

This code is stored 210 seconds after the power supply connector of the master component is disconnected with the ignition switch in the ACC or ON position.

5. STEREO COMPONENT TUNER (Physical address: 1F0) [RADIO TUNER]

(a) Logical address: 01 (Communication control)

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the verification column.

DTC	Name	Diagnosis	Verification	See page
D6 *1	No master	When either of the following conditions meets. • The device that stores (stored) the code has (had) been disconnected when the ignition switch is in ACC or ON position. • The master device has (had) been disconnected when this code is stored.	1. Power source circuit (radio receiver assy) 2. Power source circuit (stereo component tuner) 3. AVC-LAN circuit (radio receiver assy – stereo component tuner) 4. Replace radio receiver assy 5. Replace stereo component tuner	05-1699 05-1701 05-1736 67-5 67-12
D7	Connection check error	When either of the following conditions meets. • The device that stored this code has (had) been disconnected after the engine starts (started). • The master device has (had) been disconnected when this code is (was) stored.	1. Power source circuit (radio receiver assy) 2. Power source circuit (stereo component tuner) 3. AVC-LAN circuit (radio receiver assy – stereo component tuner) 4. Replace radio receiver assy 5. Replace stereo component tuner	05-1699 05-1701 05-1736 67-5 67-12
DC *2 *5	Transmission error	The device stores the fact that transmission to the device indicated by the sub code has failed.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 7
DD *3	Master reset	When the device that should be the master has been disconnected after engine starts.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace radio receiver assy	05-1699 05-1736 67-5
DF *4	Master error	When the device with a display fails and the master is switched to the audio device. Also when a communication error between sub master (audio) and master occurs, this code is stored.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace radio receiver assy	05-1699 05-1736 67-5
E0 *1	Registration complete indication error	When "Registration complete" command from the master device cannot be received.	This code will be detected when signal receiving time is delayed.	–
E1 *1	Voice processing device ON error	When the AMP device records that the AMP output does not function even while the source device operates.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace radio receiver assy	05-1699 05-1736 67-5
E2	ON/OFF indication parameter error	When the command for ON/OFF control from the master device has a problem.	Replace radio receiver assy	67-5
E3 *1	Registration demand transmission	When the registration demand command from the slave device is output, or when the registration demand command is output by receiving connection confirmation command from the sub master device.	–	–
E4	Multiple frame incomplete	When the multiple frame transmission ends incomplete	–	–

HINT:

- *1: Even if no failure is detected, a trouble code may be recorded depending on the battery condition or engine start voltage.

- *2: If the power connector is disconnected after the engine starts, this code is recorded after 180 seconds.
- *3: This code may be stored if the ignition key is turned again after the engine starts.
- *4: This code may be stored if the ignition key is held in the START position for one minute or more before returning to the ON position.
- *5: If the device is reported as not existing during verification, check the power source circuit and AVC-LAN circuit for the device.

(b) Logical address: 60 (Radio)

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the verification column.

DTC	Name	Diagnosis	Verification	See page
10	AM tuner PLL does not lock	The PLL circuit in the AM tuner is abnormal.	1. After clearing the DTC, check the antenna wiring. 2. If the same code is detected, replace the stereo component tuner.	– 67-12
11	FM tuner PLL does not lock	The PLL circuit in the FM tuner is abnormal.	1. After clearing the DTC, check the antenna wiring. 2. If the same code is detected, replace the stereo component tuner.	– 67-12
40	Antenna is not connected	The antenna is disconnected.	1. After clearing the DTC, check the antenna wiring. 2. If the same code is detected, replace the stereo component tuner.	– 67-12
41	Antenna power source error	The power source system of the antenna is abnormal.	1. After clearing the DTC, check the antenna wiring. 2. If the same code is detected, replace the stereo component tuner.	– 67-12
42	Tuner power source error	The power source of the tuner is abnormal.	1. Power source circuit (stereo component tuner) 2. Replace stereo component tuner	05-101 67-12
43	AM tuner error	The AM tuner is abnormal.	Replace stereo component tuner	67-12
44	FM tuner error	The FM tuner is abnormal.	Replace stereo component tuner	67-12
45	SW tuner error	The SW tuner is abnormal.	Replace stereo component tuner	67-12

6. STEREO COMPONENT AMPLIFIER ASSY (Physical address: 440) [DSP AMP]

(a) Logical address: 01 (Communication control)

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the verification column.

DTC	Name	Diagnosis	Verification	See page
D6 *1	No master	When either of the following conditions meets. • The device that stores (stored) the code has (had) been disconnected when the ignition switch is in ACC or ON position. • The master device has (had) been disconnected when this code is stored.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Power source circuit (stereo component amplifier assy) 4. AVC-LAN circuit (stereo component amplifier assy – stereo component tuner) 5. Replace radio receiver assy 6. Replace stereo component amplifier assy	05-1699 05-1736 05-1703 05-1728 67-5 67-16
D7	Connection check error	When either of the following conditions meets. • The device that stored this code has (had) been disconnected after the engine starts (started). • The master device has (had) been disconnected when this code is (was) stored.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Power source circuit (stereo component amplifier assy) 4. AVC-LAN circuit (stereo component amplifier assy – stereo component tuner) 5. Replace radio receiver assy 6. Replace stereo component amplifier assy	05-1699 05-1736 05-1703 05-1728 67-5 67-16
DC *2 *5	Transmission error	The device stores the fact that transmission to the device indicated by the sub code has failed.	Inspection for the device indicated by the sub code. (Refer to the inspection list for the device indicated by the sub code.)	Refer to step 10
DD *3	Master reset	When the device that should be the master has been disconnected after engine starts.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace radio receiver assy	05-1699 05-1736 67-5
DF *4	Master error	When the device with a display fails and the master is switched to the audio device. Also when a communication error between sub master (audio) and master occurs, this code is stored.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace radio receiver assy	05-1699 05-1736 67-5
E0 *1	Registration complete indication error	When "Registration complete" command from the master device cannot be received.	This code will be detected when signal receiving time is delayed.	–
E1 *1	Voice processing device ON error	When the AMP device records that the AMP output does not function even while the source device operates.	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace radio receiver assy	05-1699 05-1736 67-5
E2	ON/OFF indication parameter error	When the command for ON/OFF control from the master device has a problem.	Replace radio receiver assy	67-5

E3 *1	Registration demand transmission	When the registration demand command from the slave device is output, or when the registration demand command is output by receiving connection confirmation command from the sub master device.	–	–
E4	Multiple frame incomplete	When the multiple frame transmission ends incomplete	–	–

HINT:

- *1: Even if no failure is detected, a trouble code may be recorded depending on the battery condition or engine start voltage.
- *2: If the power connector is disconnected after the engine starts, this code is recorded after 180 seconds.
- *3: This code may be stored if the ignition key is turned again after the engine starts.
- *4: This code may be stored if the ignition key is held in the START position for one minute or more before returning to the ON position.
- *5: If the device is reported as not existing during verification, check the power source circuit and AVC-LAN circuit for the device.

7. THE INSPECTION LIST FOR THE DEVICE INDICATED BY THE SUB CODE

HINT:

Methods used to verify the cause of the problem are listed in order of probability in the verification column.

Sub code address (Device name)	Verification	See page
190 (Radio receiver assy)	1. Power source circuit (radio receiver assy) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace radio receiver assy	05-1799 05-1736 67-5
17D (Telephone Transceiver and Speaker Relay)	1. AVC-LAN circuit (stereo component amplifier assy – stereo component tuner) 2. Replace telephone transceiver and speaker relay	05-1728 –
1C0 (Audio and Rear A/C Control SW)	1. Power source circuit (audio and rear A/C control SW) 2. AVC-LAN circuit (stereo component amplifier assy – audio and rear A/C control SW) 3. Replace audio and rear A/C control SW	05-1706 05-1731 67-11
1C6 (Gateway ECU)	1. AVC-LAN circuit (radio receiver assy – gateway ECU) 2. Replace gateway ECU	05-1734 –
1F0 (Stereo Component Tuner)	1. Power source circuit (stereo component tuner) 2. AVC-LAN circuit (radio receiver assy – stereo component tuner) 3. Replace stereo component tuner	05-1701 05-1736 67-12
440 (Stereo Component Amplifier Assy)	1. Power source circuit (stereo component amplifier assy) 2. AVC-LAN circuit (stereo component amplifier assy – stereo component tuner) 3. Replace stereo component amplifier assy	05-1703 05-1728 67-15