DIAGNOSTIC TROUBLE CODE CHART

0549J–1

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 address.
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: component name, (physical address), [DTC displayed name].
- For the DTC of a vehicle with a navigation system, refer to "NAVIGATION SYSTEM" (see page 05–1585).

1. MULTI–DISPLAY (PHYSICAL ADDRESS: 110) [EMV]

(a) Logical address: 01 (Communication control)

DTC	Name	Diagnosis	Verification	See page
21	ROM error	Abnormal condition of ROM is detected.	Replace multi–display	67–7
22	RAM error	Abnormal condition of RAM is detected.	Replace multi–display	67–7

DTC	Name	Diagnosis	Verification
D5	Registered component is missed	Component in which this code is recorded is or was disconnected from the system when power switch is in ACC (ON).	• Inspection of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
D8	No response for connection check	The device indicated by the sub code is (was) disconnected from the system after engine start.	• Inspection of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
D9	Last mode error	The device (for audio visual system) that had functioned before the engine stopped is (was) disconnected from the system when the power switch is (was) in the ACC or ON state.	• Inspection of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
DA	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 of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
DB	Mode status error	This code detects a dual alarm.	• Inspection of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
DC	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 of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
DE	Slave reset	This code is stored when a slave device has been disconnected after engine start.	• Inspection of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.

(b) Logical address: 221 (SW unit): 223 (SW with name unit): 224 (SW converting unit): 225 (command SW unit)

HINT:

The numbers 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	Panel SW failure	Panel SW detection circuit failure	Replace multi–display	67–7

2. RADIO RECEIVER ASSY (PHYSICAL ADDRESS: 190) [AUDIO H/U]

(a) Logical address: 01 (Communication control)

HINT:

The numbers 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	Absence of master unit	Component in which this code is recorded was disconnected from system or master component with ignition switch in ACC or ON.	1. Power source circuit (multi–display) 2. Power source circuit (radio receiver assy) 3. AVC–LAN circuit (multi–display – radio receiver assy) 4. Replace multi–display 5. Replace radio receiver assy	05–1630 05–1492 05–1523 67–7 67–5
D7	Connection check error	Component in which this code is recorded is (was) disconnected from system after engine start. Either that, or radio receiver assy was disconnected when this code was recorded.	1. Power source circuit (multi–display) 2. Power source circuit (radio receiver assy) 3. AVC–LAN circuit (multi–display – radio receiver assy) 4. Replace multi–display 5. Replace radio receiver assy	05–1630 05–1492 05–1523 67–7 67–5
DC	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.	1. Inspection of components indicated by sub–codes. 2. Refer to the table for inspection of components indicated by sub–code.	– –
DD	Master reset	After the power switch ON (READY), master component was disconnected from system.	1. Power source circuit (multi–display) 2. AVC–LAN circuit (multi–display – radio receiver assy) 3. Replace multi–display	05–1630 05–1523 67–7
DF	Master error	Due to defective cognition of component with a display, master function is switched to audio equipment. Error occurs in communication between sub–master (audio) and master component.	1. Power source circuit (multi–display) 2. AVC–LAN circuit (multi–display – radio receiver assy) 3. Replace multi–display	05–1630 05–1523 67–7
E0	Registration complete indication error	”Registration complete” command from the master device cannot be received. NOTE: This DTC may not be directly related to the problem.	–	–

E1	Voice processing device ON error	The AMP device records that the AMP output does not function even while the source device operates.	1. Power source circuit (multi–display) 2. AVC–LAN circuit (multi–display – radio receiver assy) 3. Replace multi–display	05–1630 05–1523 67–7
E2	ON/OFF indication parameter error	The command for ON/OFF control from the master device has a problem.	Replace multi–display	67–7
E3	Registration demand transmission	The registration demand command from the slave device is output, or the registration demand command is output by receiving connection confirmation command from the sub master device. NOTE: This DTC may not be directly related to the problem.	–	–
E4	Multiple frame incomplete	The multiple frame transmission ends incomplete. NOTE: This DTC may not be directly related to the problem.	–	–

DTC	Name	Diagnosis	Verification
D5	Registered component is missed	Component in which this code is recorded is or was disconnected from the system when power switch is in ACC (ON).	• Inspection of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
D8	No response for connection check	The device indicated by the sub code is (was) disconnected from the system after engine start.	• Inspection of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
D9	Last mode error	The device (for audio visual system) that had functioned before the engine stopped is (was) disconnected from the system when the power switch is (was) in the ACC or ON state.	• Inspection of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
DA	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 of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
DB	Mode status error	This code detects a dual alarm.	• Inspection of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.
DE	Slave reset	This code is stored when a slave device has been disconnected after engine start.	• Inspection of components indicated by sub–codes. • Refer to the table for inspection of components indicated by sub–code.

(b) Logical address: 60 (Radio unit)

HINT:

The numbers 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 turner PLL does not lock	The PULL circuit in the AM tuner is abnormal.	1. After clearing the DTC, check the antenna wiring. 2. If the same code is detected again, replace the radio receiver assy.	05–1464 67–5

11	FM tuner PLL does not lock	The PULL circuit in the FM tuner is abnormal.	1. After clearing the DTC, check the antenna wiring. 2. If the same code is detected again, replace the radio receiver assy.	05–1464 67–5
40	Antenna not connected	Antenna is disconnected.	1. After clearing the DTC, check the antenna wiring. 2. If the same code is detected again, replace the radio receiver assy.	05–1464 67–5
41	Antenna power source error	A malfunction is detected in the antenna power supply system.	1. After clearing the DTC, check the antenna wiring. 2. If the same code is detected again, replace the radio receiver assy.	05–1464 67–5
42	Tuner power source error	The power source of the tuner is abnormal.	1. Power source circuit (radio receiver assy) 2. Replace radio receiver assy	05–1492 67–5
43	AM tuner error	The AM tuner is abnormal.	Replace radio receiver assy	67–5
44	FM tuner error	The FM tuner is abnormal.	Replace radio receiver assy	67–5
45	SW tuner error	The SW tuner is abnormal.	Replace radio receiver assy	67–5

(c) Logical address: 62 (CD unit): 63 (CD changer unit)

HINT:

The numbers 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 if a CD is inserted. If a CD is inserted, check if it can be ejected. If it cannot be ejected, replace the radio receiver assy. 2. Inspect CD 3. If the same code is detected again, replace the radio receiver assy.	05–1529 05–1454 67–5
41	Wrong disc	An unsuitable disc is inserted.	1. Inspect CD 2. If the same code is detected again, replace the radio receiver assy.	05–1454 67–5
42	Disc cannot be read	The disc cannot be read.	1. Inspect CD 2. If the same code is detected again, replace the radio receiver assy.	05–1454 67–5
43	CD–ROM abnormal	CD–ROM operation is abnormal.	Replace radio receiver assy	67–5

45	EJECT error	The magazine cannot be ejected.	1. Eject the magazine, check the inserting direction, and check the symptom. 2. If the same code is detected again, replace the 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 again, replace the radio receiver assy.	– 67–5
46	CD has scratches or upside down	CD has dirt or scratches on the surface or is upside down.	1. Inspect CD 2. If the same code is detected again, replace the radio receiver assy.	05–1454 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 receiver assy becomes sufficiently low, turn the engine on in order to verify the malfunction symptom. 2. If the same code is detected again, replace the radio receiver assy.	– 67–5
48	Over–current detection	Over–current flows in to the CD changer.	Replace radio receiver assy	67–5
50	Tray insertion/ejection error	The tray insertion/ejection error occurs in the CD changer.	1. Foreign matter is found. 2. Replace radio receiver assy	– 67–5
51	Elevator error	Elevator error occurs in the CD changer.	Replace radio receiver assy	67–5
52	Clamp error	Clamp error occurs in the CD changer.	Replace radio receiver assy	67–5

(d) Logical address: 61 (Cassette unit)

HINT:

The numbers 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 again, 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 again, 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	05–1492 67–5

3. GATEWAY ECU (PHYSICAL ADDRESS: 1C6) [G/W]

(a) Logical address: 01 (Communication control)

HINT:

The numbers 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	Regulator communication error	The device whose code is recorded is separated when the power switch is in ON (or ACC) position. When the code is recorded, the multi–display is disconnected.	1. Power source circuit (multi–display) 2. Power source circuit (gateway ECU) 3. AVC–LAN circuit (multi–display – gateway ECU) 4. Replace multi–display 5. replace gateway ECU	05–1530 – 05–1523 67–7 67–5

4. STEREO COMPONENT AMPLIFIER ASSY (PHYSICAL ADDRESS: 440) [DSP AMP]

(a) Logical address: 01 (Communication control)

HINT:

The numbers 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	Absence of master unit	Component in which this code is recorded was disconnected from system or master component with ignition switch in ACC or ON.	1. Power source circuit (multi–display) 2. AVC–LAN circuit (multi–display – radio receiver assy) 3. Power source circuit (stereo component amplifier assy) 4. AVC–LAN circuit (radio receiver assy – stereo component amplifier assy) 5. Replace multi–display 6. Replace stereo component amplifier assy	05–1530 05–1523 05–1495 05–1519 67–7 67–25
D7	Connection check error	Component in which this code is recorded is (was) disconnected from system after engine start. Either that, or radio receiver assy was disconnected when this code was recorded.	1. Power source circuit (multi–display) 2. AVC–LAN circuit (multi–display – radio receiver assy) 3. Power source circuit (stereo component amplifier assy) 4. AVC–LAN circuit (radio receiver assy – stereo component amplifier assy) 5. Replace multi–display 6. Replace stereo component amplifier assy	05–1530 05–1523 05–1495 05–1519 67–7 67–25

DC	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.	1. Power source circuit (multi–display) 2. AVC–LAN circuit (multi–display – radio receiver assy) 3. Power source circuit (stereo component amplifier assy) 4. AVC–LAN circuit (radio receiver assy – stereo component amplifier assy) 5. Replace multi–display 6. Replace stereo component amplifier assy	05–1630 05–1523 05–1495 05–1519 67–7 67–25
DD	Master reset	After the power switch ON (READY), master component was disconnected from system.	1. Power source circuit (multi–display) 2. AVC–LAN circuit (multi–display – radio receiver assy) 3. Replace multi–display	05–1630 05–1523 67–7
DF	Master error	Due to defective cognition of component with a display, master function is switched to audio equipment. Error occurs in communication between sub–master (audio) and master component.	1. Power source circuit (multi–display) 2. AVC–LAN circuit (multi–display – radio receiver assy) 3. Replace multi–display	05–1630 05–1523 67–7
E0	Registration complete indication error	”Registration complete” command from the master device cannot be received. NOTE: This DTC may not be directly related to the problem.	–	–
E1	Voice processing device ON error	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 (multi–display – radio receiver assy) 3. Replace radio receiver assy	05–1492 05–1523 67–5
E2	ON/OFF indication parameter error	The command for ON/OFF control from the master device has a problem.	Replace multi–display	67–7
E3	Registration demand transmission	The registration demand command from the slave device is output, or the registration demand command is output by receiving connection confirmation command from the sub master device. NOTE: This DTC may not be directly related to the problem.	–	–
E4	Multiple frame incomplete	The multiple frame transmission ends incomplete. NOTE: This DTC may not be directly related to the problem.	–	–

5. COMPONENT CHECK TABLE INDICATED BY SUB CODES

HINT:

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

Sub code address	Verification	See page
110 (Multi–display)	1. Power source circuit (multi–display) 2. AVC–LAN circuit (multi–display – radio receiver assy) 3. Replace multi–display	05–1630 05–1523 67–7
190 (Radio Receiver Assy)	1. Power source circuit (radio receiver assy) 2. AVC–LAN circuit (multi–display – radio receiver assy) 3. Replace radio receiver assy	05–1492 05–1523 67–5

Sub code address	Verification	See page
1C6 (Gateway ECU)	1. Power source circuit (gateway ECU) 2. AVC–LAN circuit (multi–display – gateway ECU) 3. Replace gateway ECU	– 05–1569 67–26
440 (Stereo Component Amplifier Assy)	1. Power source circuit (stereo component amplifier assy) 2. AVC–LAN circuit (radio receiver assy – stereo component amplifier assy) 3. Replace stereo component amplifier assy	05–1495 05–1521 67–25