05FIP–01

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 AND NAVIGATION ASSY (physical address: 140) [AVN]

(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.	• Check harness for power supply of component shown by sub–code. • Check harness for communication system of component shown by sub–code.	–
D8 *2 *5	No response for connection check	The device indicated by the sub code is (was) disconnected from the system after engine start.	• Check harness for power supply of component shown by sub–code. • Check harness for communication system of component shown by sub–code.	–
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.	• Check harness for power supply of component shown by sub–code. • Check harness for communication system of component shown by sub–code.	–
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.	• Check harness for power supply of component shown by sub–code. • Check harness for communication system of component shown by sub–code.	–
DB *1 *5	Mode status error	This code detects a dual alarm.	• Check harness for power supply of component shown by sub–code. • Check harness for communication system of component shown by sub–code.	–
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.)	–
DE *4 *5	Slave reset	This code is stored when a slave device has been disconnected after engine start.	• Check harness for power supply of component shown by sub–code. • Check harness for communication system of component shown by sub–code.	–
E4	Multiple frame incomplete	When the multiple frame transmission ends incomplete	–	–

HINT:

- *1: This code may be recorded depending on the battery condition or engine start voltage even if no failure is detected.
- *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 to the START position again with the engine running.
- *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.

HINT:

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

(1): See pub. No. RM915E, page 67–4.

(b) Logical address: 58 (Navigation): 80 (GPS)

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	Gyro error	Ground short, power supply short, or open circuit in the gyro signal, gyro failure.	Replace radio and navigation assy	(1)
11	GPS receiver error	RTC, ROM, and RAM of the GPS receiver and TCXO errors. GPS receiver is failed.	Replace radio and navigation assy	(1)
40	GPS antenna error	GPS antenna error	1. Replace GPS antenna 2. Replace radio and navigation assy	(2) (1)
41	GPS antenna power source error	Error of the power source to the GPS antenna	1. Replace GPS antenna 2. Replace radio and navigation assy	(2) (1)
42	Map disc read error	Player error. A scratch or dirt on the disc. Access to an invalid address due to software error.	1. Inspect map disc read error 2. Replace map disc 3. Replace radio and navigation assy	05–100 – (1)
43	SPD signal error	The difference between the GPS speed and SPD pulse is detected.	1. Inspect SPD signal error 2. Speed signal circuit 3. Replace radio and navigation assy	05–101 05–106 (1)

(1): See pub. No. RM915E, page 67–4.

(2): See pub. No. RM915E, page 67–17.