BE10A–01

TROUBLESHOOTING

NOTICE:

When replacing the internal mechanism (ECU part) of the audio system, be careful that no part of your body or clothing comes in contact with the terminals of the leads from the IC, etc. of the replacement part (spare part).

HINT:

This inspection procedure is a simple troubleshooting which should be carried out on the vehicle during system operation and was prepared on the assumption of system component troubles (except for the wires and connectors, etc.).

1. Always inspect the trouble with taking the following items into consideration.

(a) Open or short circuit of the wire harness

(b) Connector or terminal connection fault

(c) For audio systems with anti–theft system, troubleshooting items marked (*) indicate that "Troubleshooting for ANTI–THEFT SYSTEM" should be carried out first.

	Problem	No.
Radio	No power coming in.	*1
	Power coming in, but radio not operating.	*2
	Noise present, but AM – FM not operating.	3
	Either speaker does not work.	4
	Either AM or FM does not work.	5
	Reception poor (Volume faint).	5
	Few preset tuning bands.	5
	Sound quality poor.	6
	Cannot set station select button.	6
	Preset memory disappears.	7
Tape Player	Cassette tape cannot be inserted.	8
	Cassette tape inserted, but no power.	*9
	Power coming in, but tape player not operating.	10
	Either speaker does not work.	11
	Sound quality poor (Volume faint).	12
	Tape jammed, malfunction with tape speed or auto – reverse.	13
	APS, SKIP, RPT buttons not operating.	14
	Cassette tape will not be ejected.	*15
CD Player	CD cannot be inserted.	16
	CD inserts, but no power.	17
	Power coming in, but CD player not operating.	18
	Sound jumps.	19
	Sound quality poor (Volume faint).	20
	Either speaker does not work.	21
	CD will not be ejected.	22
Antenna	Antenna does not fully extend or fully retract.	23
	Antenna – related.	24
Noise	Noise produced by vibration or shock while driving.	25
	Noise produced when engine starts.	26

2. Diagnosis function

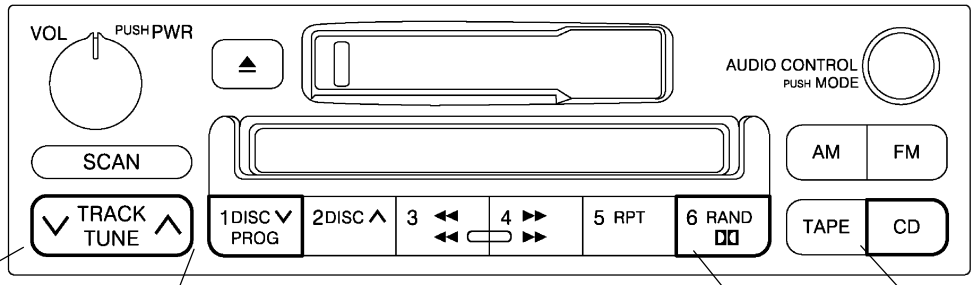
Error codes over tuner and connected equipment are displayed on the screen of tuner.

(a) Diagnosis start–up

For shifting to diagnosis mode, push ”CD” button 3 times with pressing ”1” and ”6” of TRACK TUNE APS button at the same time while the audio power is OFF and ACC is ON.

In diagnosis mode, by pressing ”CD” button for 2 seconds or turning the ignition key OFF, the diagnosis mode is released.

<Example>



TUNE ”UP” and ”DOWN” buttons — ”1” button — ”6” button — ”CD” button

I08769

(b) LAN check

When starting up the diagnosis mode, the mode turns to LAN check mode, the screen displays the code numbers (physical address) of tuner and connected equipment. Smaller codes are displayed in order, displayed code numbers are switched by operating TUNE ”UP” or TUNE ”DOWN” button. In LAN check mode, by pressing ”5” of TRACK TUNE APS button for more than 2 secs., diagnosis memory of each equipment can be deleted, when deletion is completed, the mode returns to LAN check mode.

Code No. (physical address) List

Code No.	Equipment name
190	Radio receiver assembly (Audio head unit)
240	CD changer (in Luggage room)
360	CD changer(in center console)

(c) System check

When pressing ”1” of TRACK TUNE APS button in LAN check mode, the mode turns to the system check mode, the system performs self diagnosis of connected equipment and displays the results. The smaller code numbers (physical address) are displayed in order (code No. (physical address), diagnosis code, support code of diagnosis code (object equipment)). When no error is detected in the system, ”00” is displayed. When an error code is detected, up to 6 codes per one system are displayed. Pressing TUNE ”UP” or TUNE ”DOWN” switches the display. In the system check mode, when pressing ”6” of TRACK TUNE APS button the mode returns to LAN check mode.

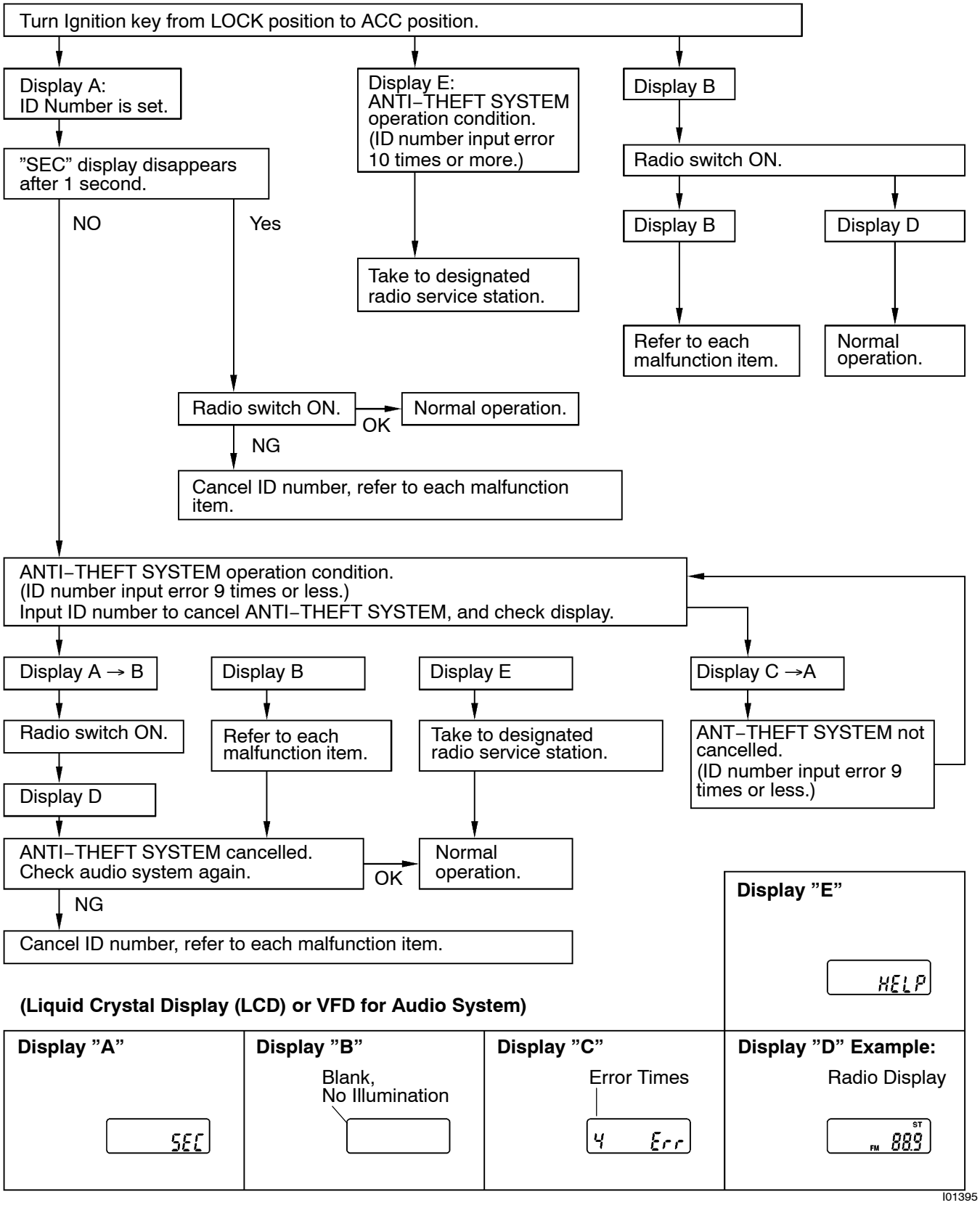
(d) Diagnosis memory
In LAN check mode, when pressing ”2” of TRACK TUNE APS button the mode turns to the diagnosis memory mode. The results of self diagnosis performed over tuner and connected equipment are memorized and displayed. The smaller code numbers (physical address) are displayed in order (code No. (physical address), periodic communication number when error occurs, diagnosis code, and support code of diagnosis code (object equipment)). When no error is detected in the system, ”00” is displayed. When an error code is detected, up to 6 codes per one system are displayed. Pressing TUNE ”UP” or TUNE ”DOWN” switches the display. Each diagnosis code is same as code in the system check mode. When pressing ”6” of TRACK TUNE APS button, the mode returns to LAN check mode.

3. Diagnosis code list

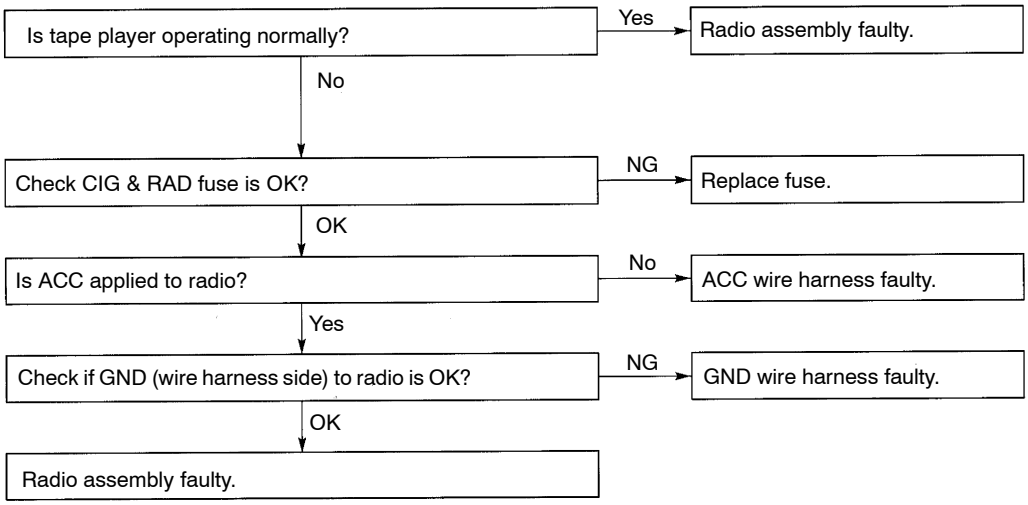
Parts Name	DTC	Diagnosis item	Diagnosis content	Countermeasure and inspected parts	System Check	Diagnosis memory
Head Unit	41	AM tuner error	There is an error in AM tuner.	Radio receiver check.	X	○
	42	FM tuner error	There is an error in FM tuner.		X	○
	50	Cassette error	There is an error in cassette deck.		X	○
	D1	Transmitter error	An error occurs whil transmitting a signal from head unit to the system.	Radio receiver check. Wire harness and connecter check.	○	○
	D4	AVC–LAN Periodic communication no response	Radio receiver does not respond to periodic communication.	Radio receiver check.	X	○
	FF	Diagnosis no response	Result of diagnosis is not issued from start to finish.		○	X
CD	60	CD error	Error codes other than 61–69 are detected.	CD changer check.	X	○
	61	EJECT error	CD is not ejected.	CD changer check. Magazine check.	X	○
	62	DISC uopside down	CD is inserted inside out or it has a flaw.	CD check.	X	○
	63	Pickup temperature detection	High temperature in CD changer is detected.	CD changer check.	X	○
	64	Excessive current detection	Excessive current to CD changer is detected.		X	○
	67	Tray insertion/ discharging error	An error occurs in insertion or discharging operation of CD changer tray.	CD changer check. Magazine check.	X	○
	68	Elevator error	An error occurs in elevator of CD changer.	CD changer check.	X	○
	69	Clamp error	An error occurs in CD changer clamp.		X	○
	D1	Transmitter error	An error occurs whil transmitting a signal from CD changer to the system.		○	○
	D4	AVC–LAN Periodic communication no response	CD changer does not respond to periodic communication.		X	○
	FF	Diagnosis no response	Result of diagnosis is not issued from start to finish.		○	X

Parts Name	DTC	Diagnosis item	Diagnosis content	Countermeasure and inspected parts	System Check	Diagnosis memory
AMP	D1	Transmitter error	An error occurs whil transmitting a signal from stereo component amplifier to the system.	Stereo component amplifier check.	○	○
	D4	AVC–LAN Periodic communication no response	Stereo component amplifier does not respond to periodic communication.		X	○
	FF	Diagnosis no response	Result of diagnosis is not issued from start to finish.		○	X

4. Troubleshooting for ANTI–THEFT SYSTEM

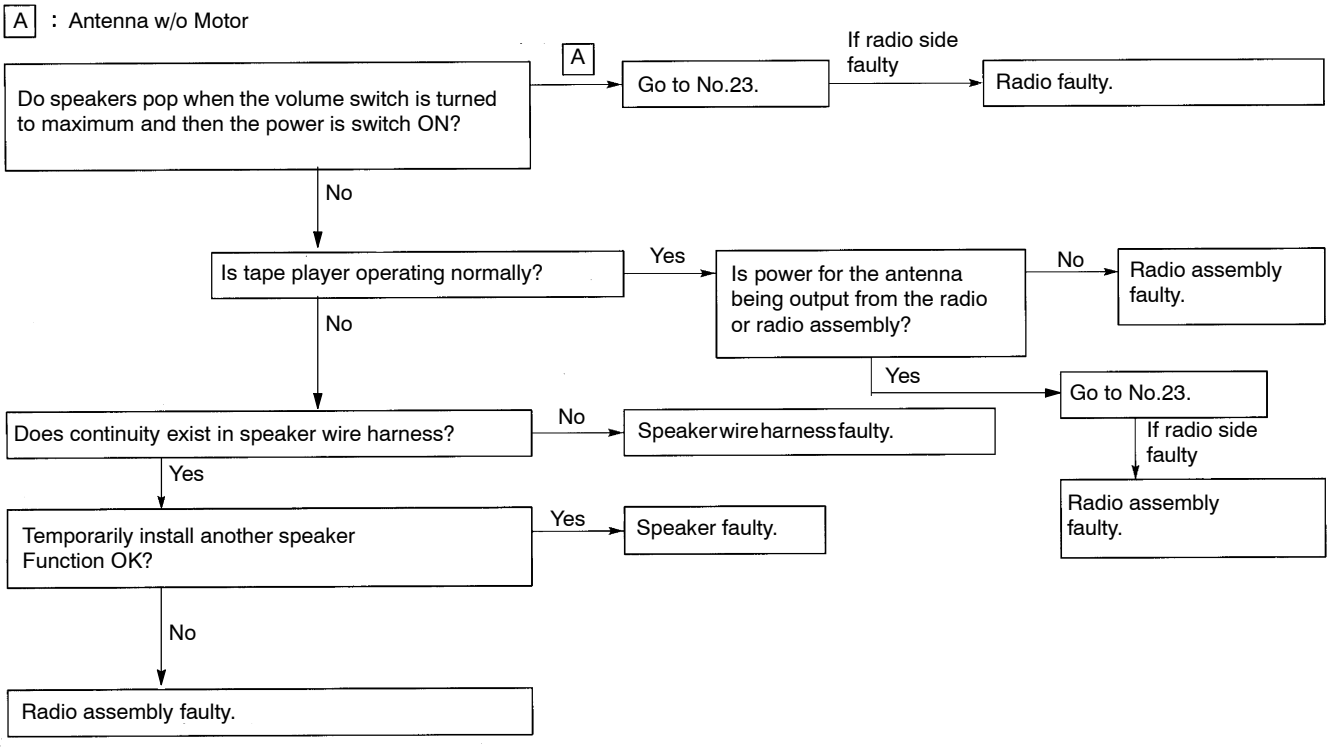


1	Radio	NO POWER COMING IN



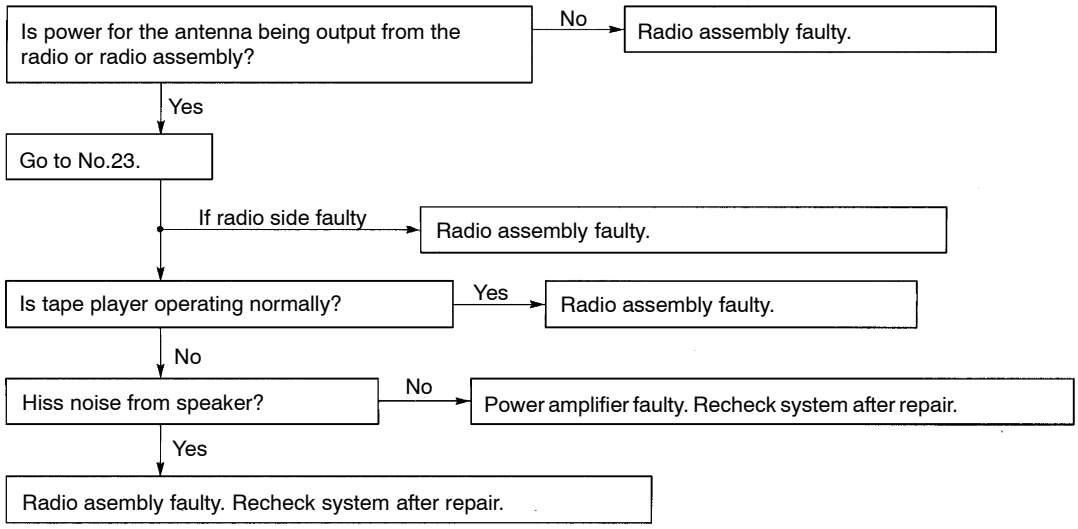
2	Radio	POWER COMING ON, BUT RADIO NOT OPERATING

A : Antenna w/o Motor

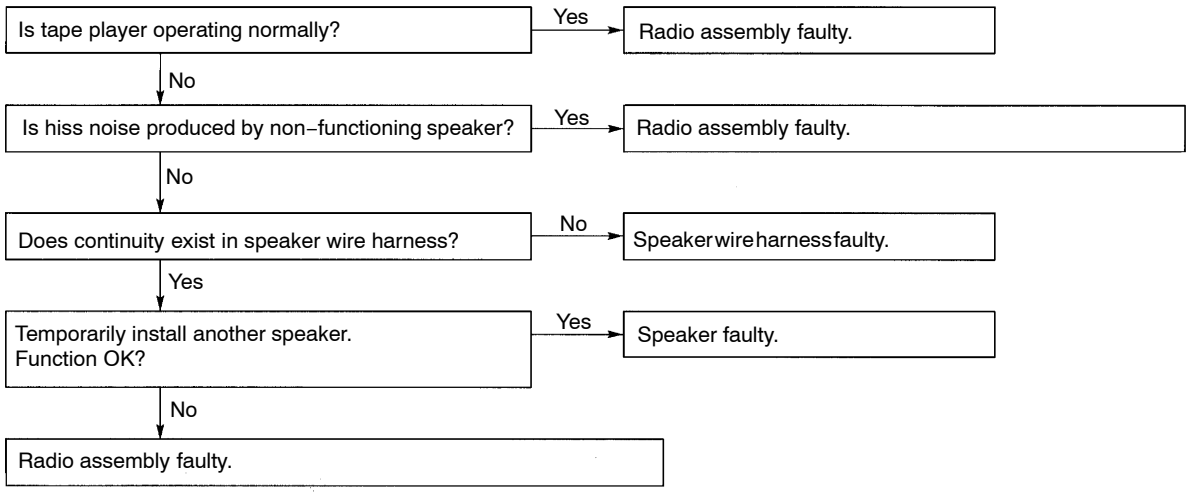


V07430

3	Radio	NOISE PRESENT, BUT AM–FM NOT OPERATING

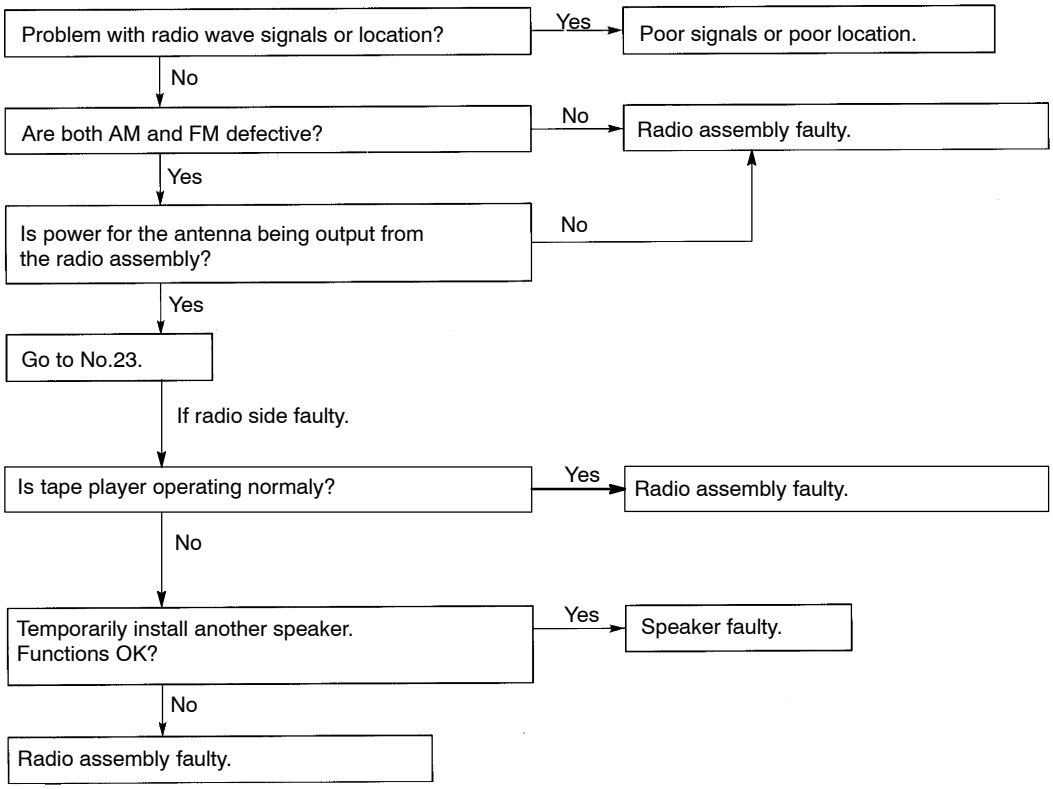


4	Radio	EITHER SPEAKER DOES NOT WORK



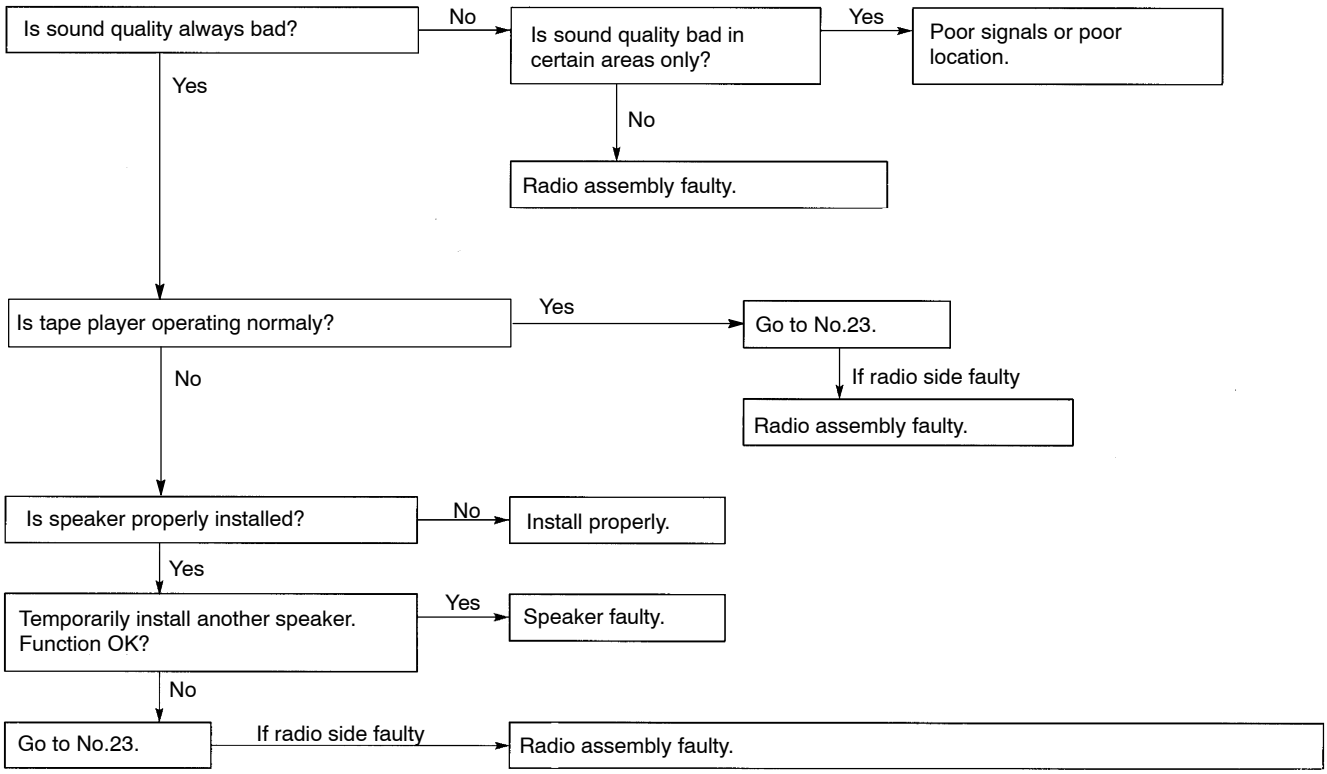
V07431

5	Radio	EITHER AM OR FM DOES NOT WORK, RECEPTION POOR (VOLUME FAINT), FEW PRESET TUNING BANDS

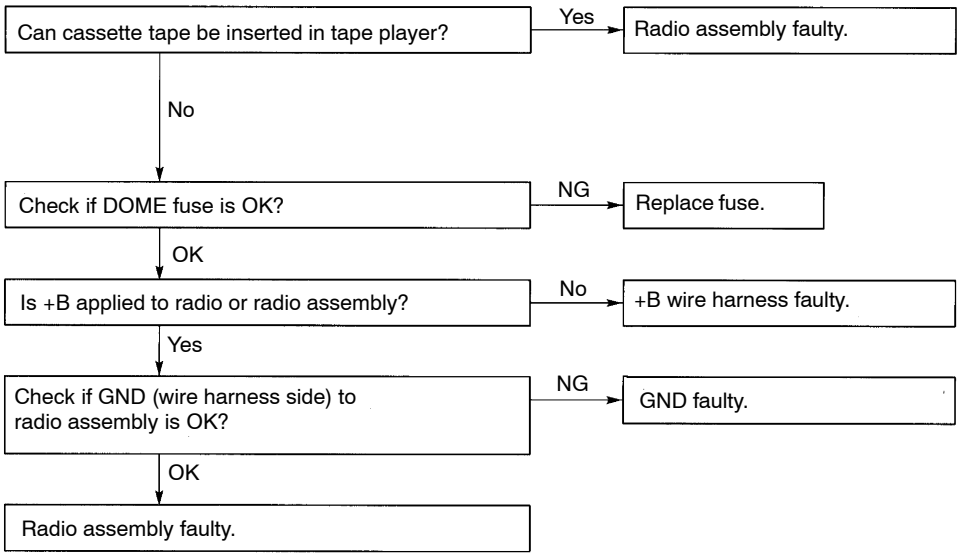


V07432

6	Radio	SOUND QUALITY POOR

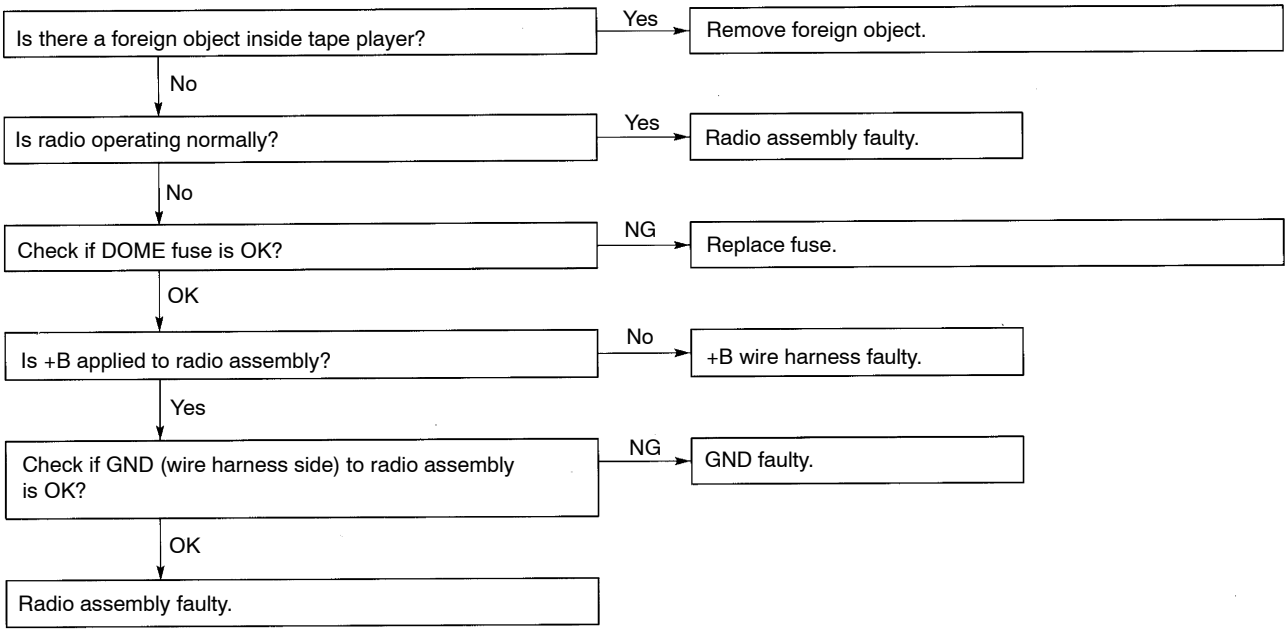


7	Radio	CANNOT SET STATION SELECT BUTTON, PRESET MEMORY DISAPPEARS

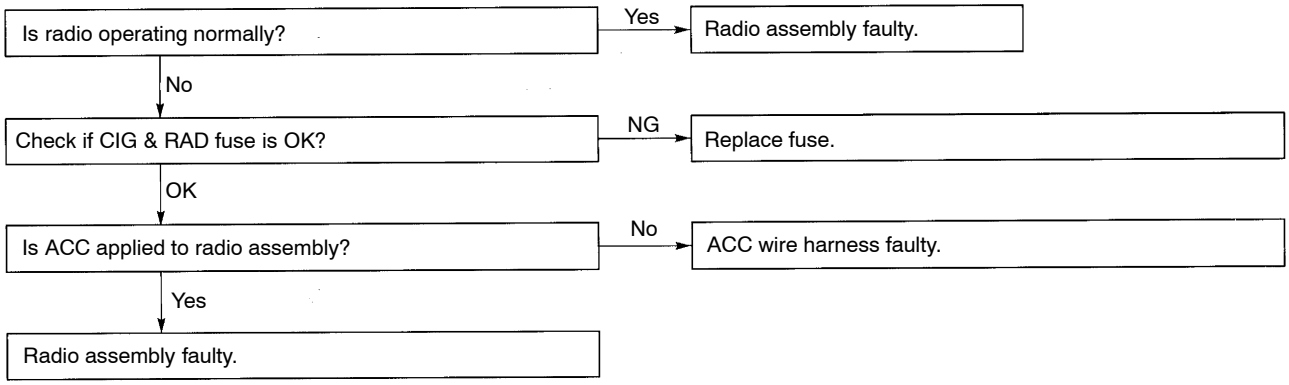


V07433

8 Tape Player — CASSETTE TAPE CANNOT BE INSERTED

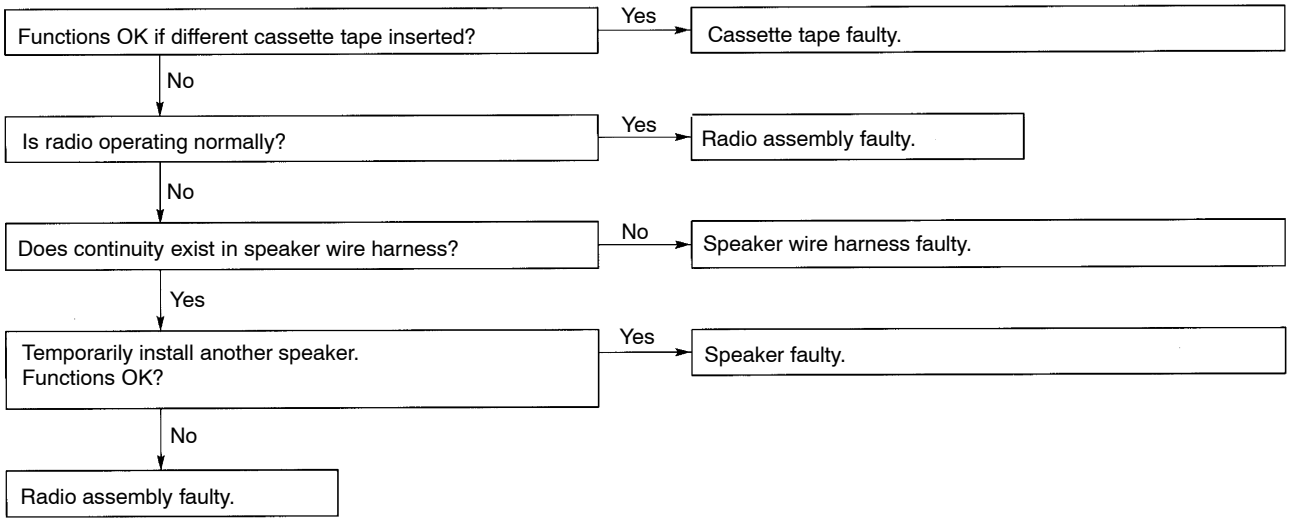


9 Tape Player — CASSETTE TAPE INSERTED, BUT NO POWER

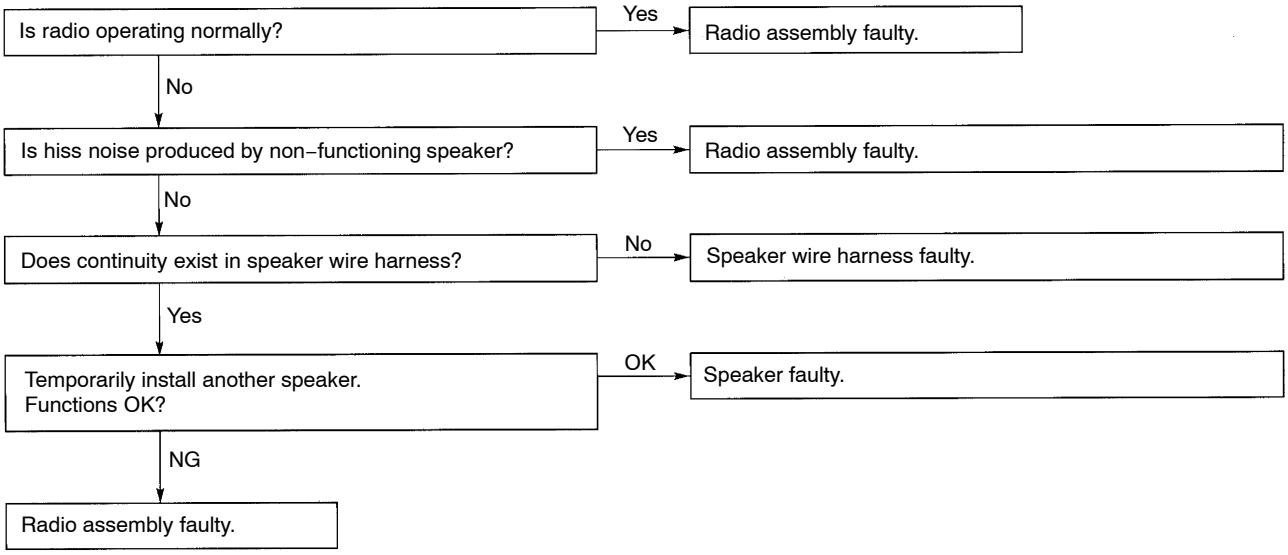


V07434

10	Tape Player	POWER COMING IN, BUT TAPE PLAYER NOT OPERATING

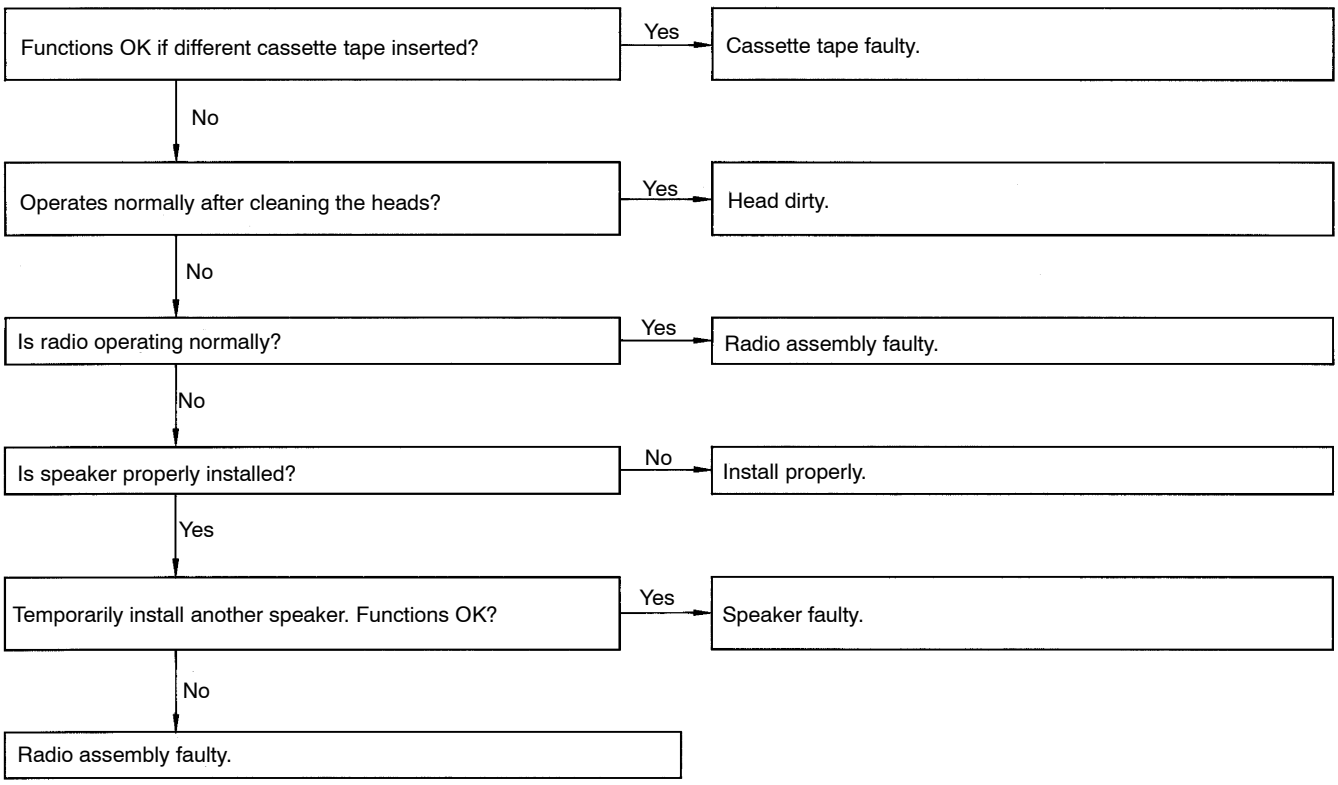


11	Tape Player	EITHER SPEAKER DOES NOT WORK

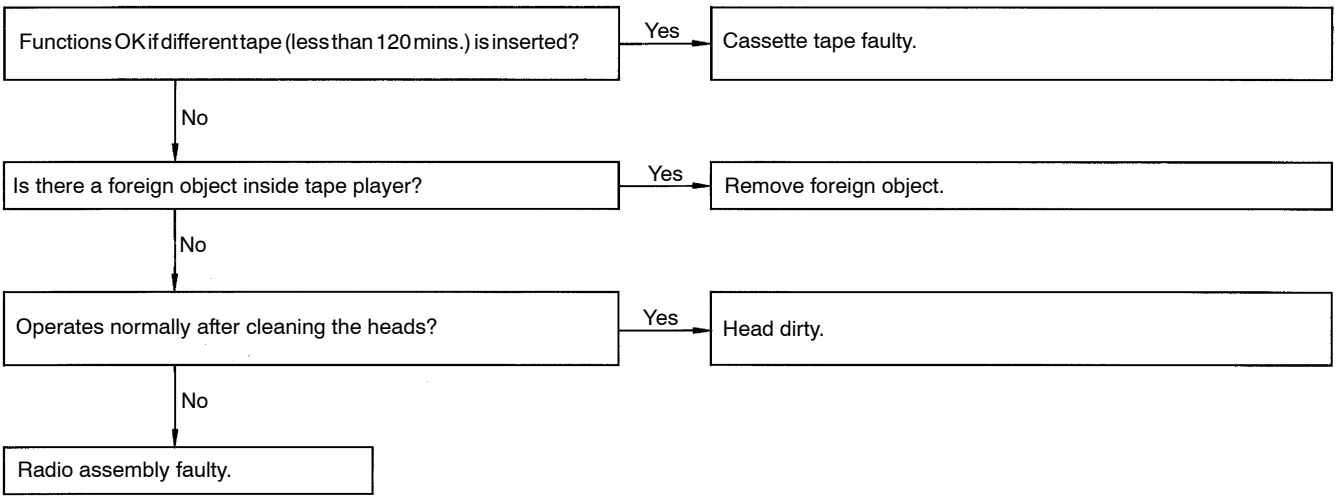


V07435

12	Tape player	SOUND QUALITY POOR (VOLUME FAINT)

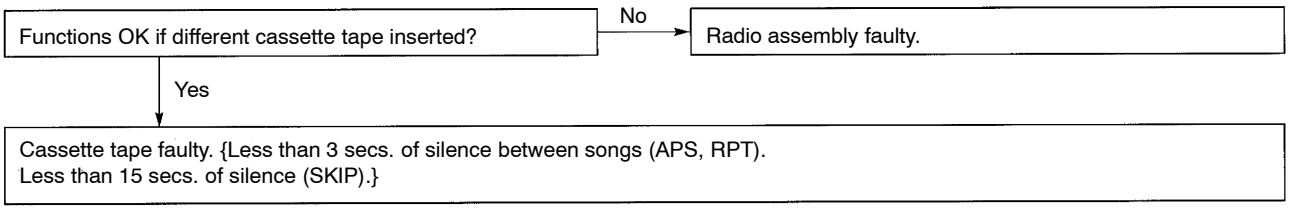


13	Tape Player	TAPE JAMMED, MALFUNCTION WITH TAPE SPEED OR AUTO–REVERSE

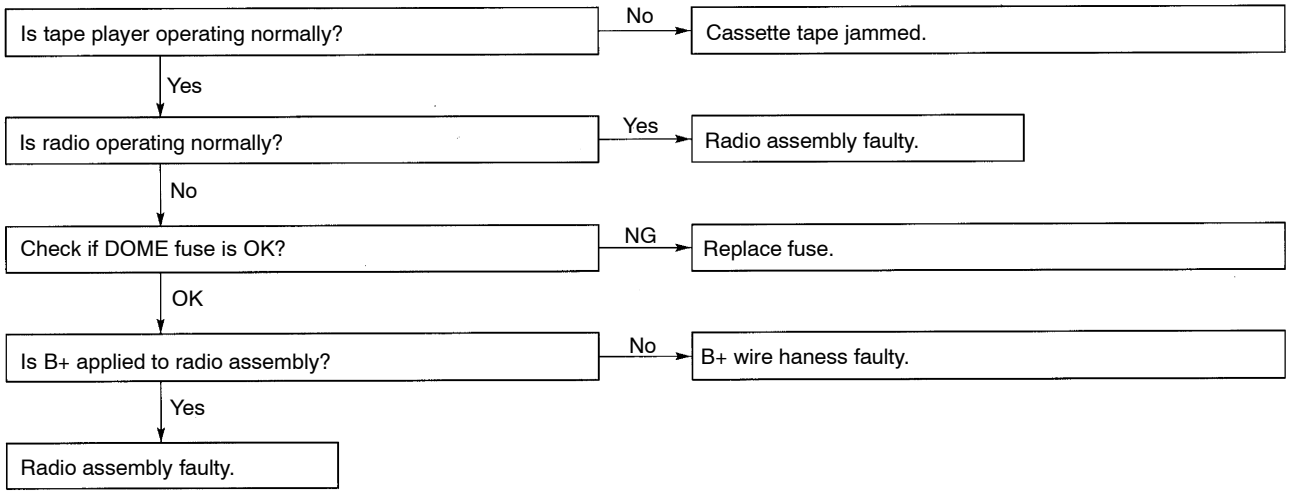


V04922

14	Tape Player	APS, SKIP, RPT BUTTONS NOT OPERATING

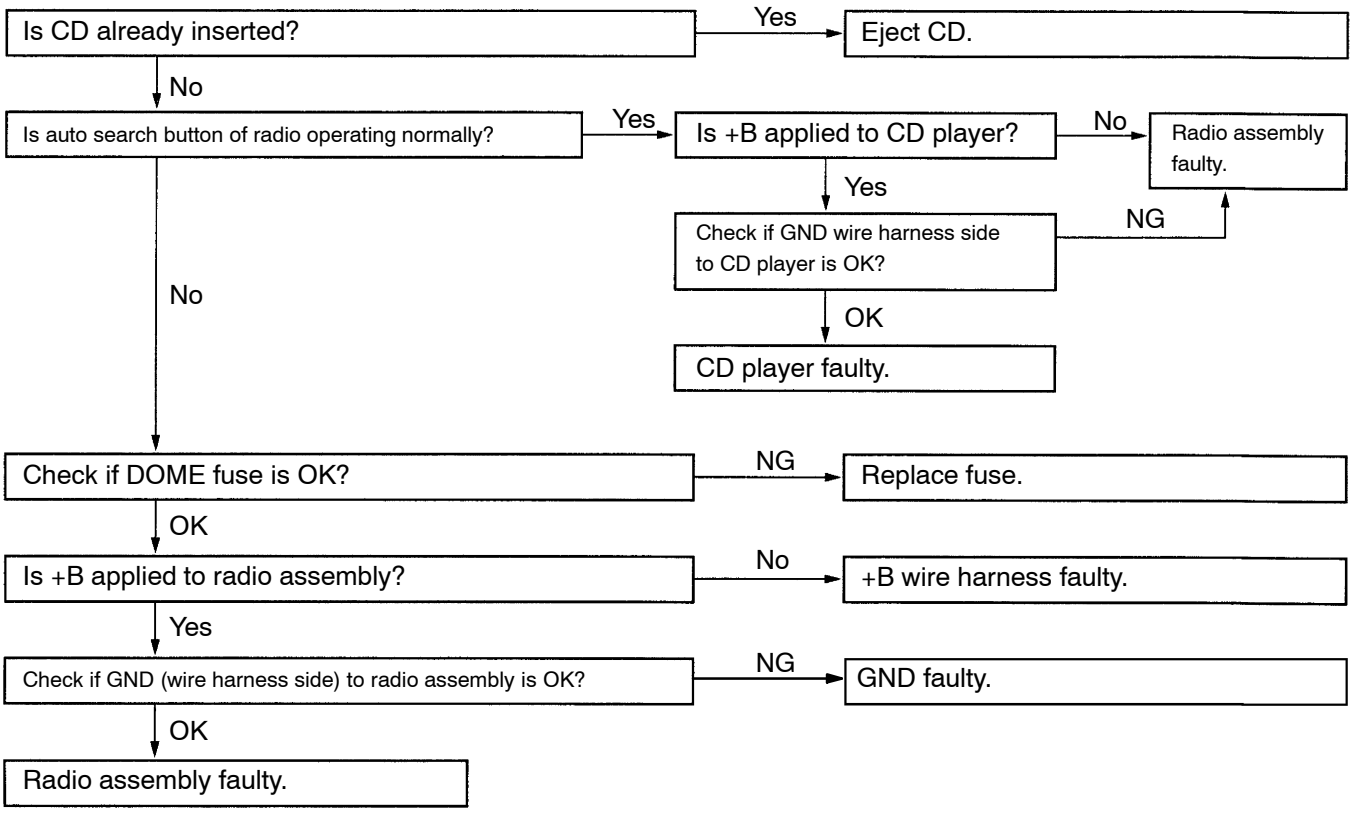


15	Tape Player	CASSETTE TAPE WILL NOT BE EJECTED

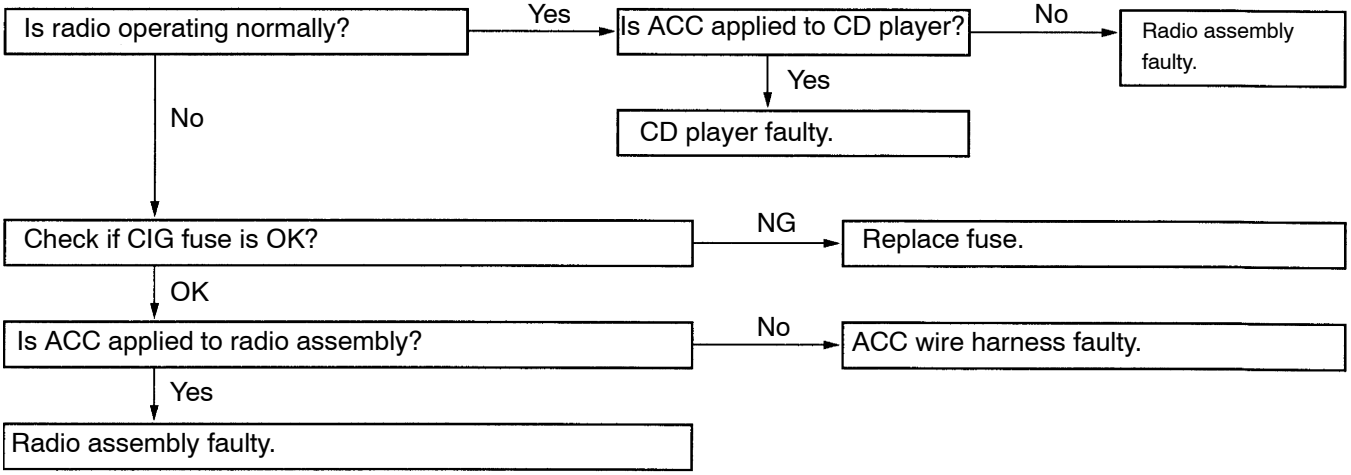


V07436

16	CD Player	CD CANNOT BE INSERTED

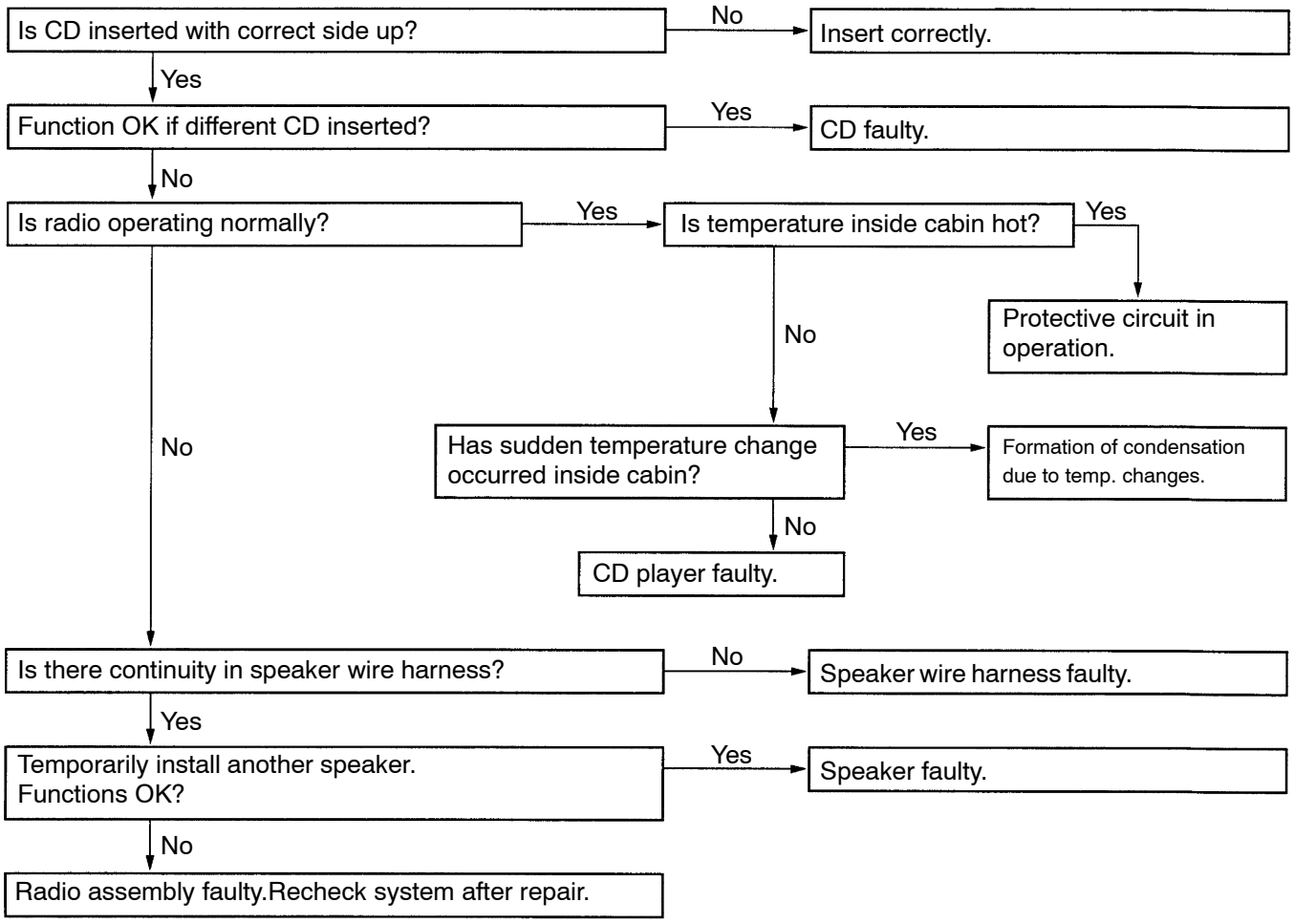


17	CD Player	CD INSERTED, BUT NO POWER

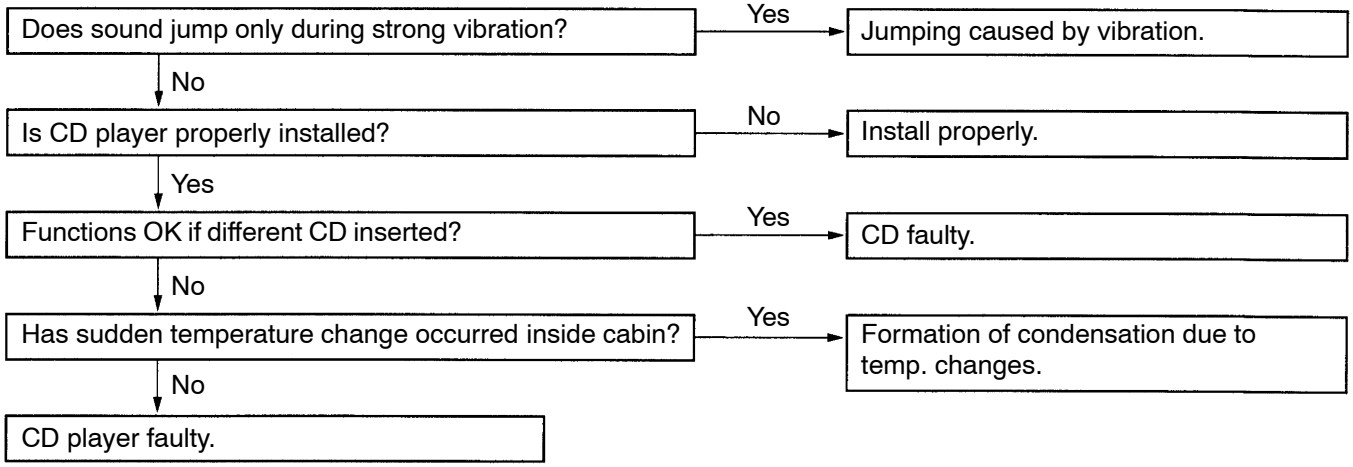


V09487

18	CD Player	POWER COMING IN, BUT CD PLAYER NOT OPERATING

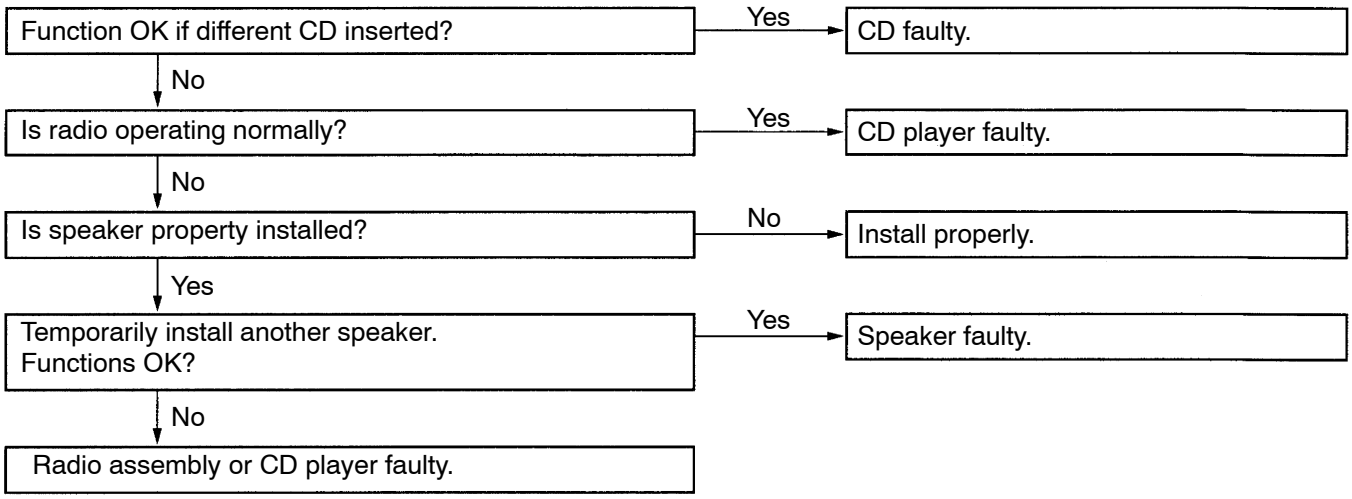


19	CD Player	SOUND JUMPS

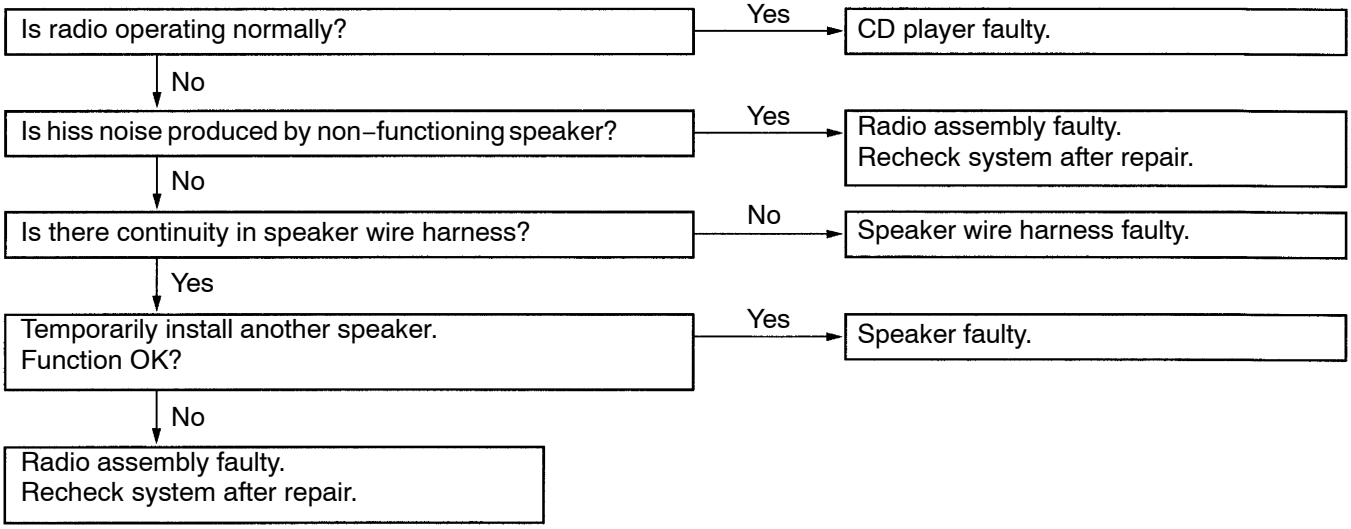


V08559

20	CD Player	SOUND QUALITY POOR (VOLUME FAINT)

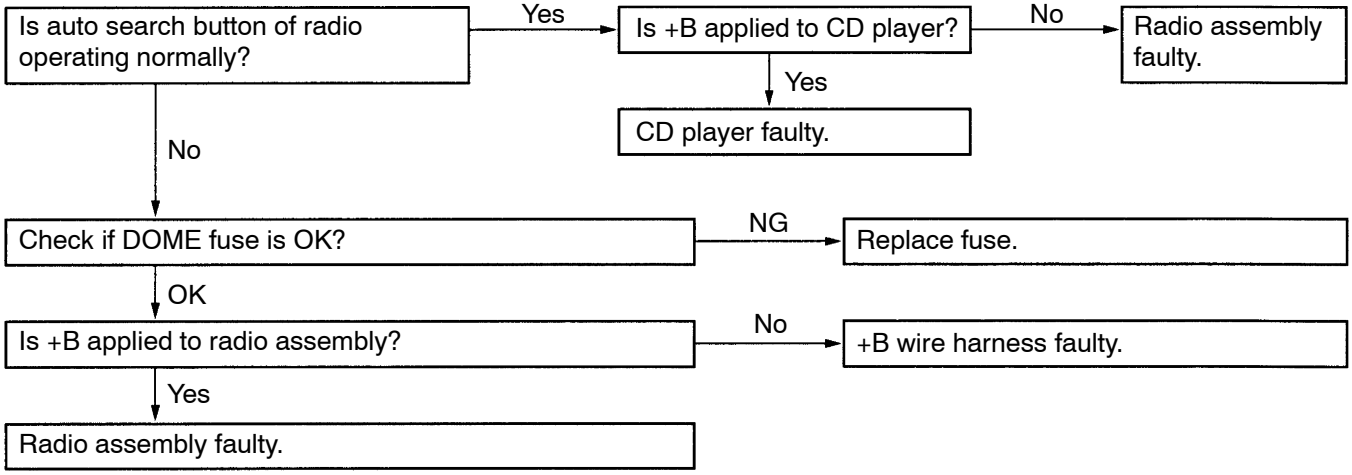


21	CD Player	EITHER SPEAKER DOES NOT WORK



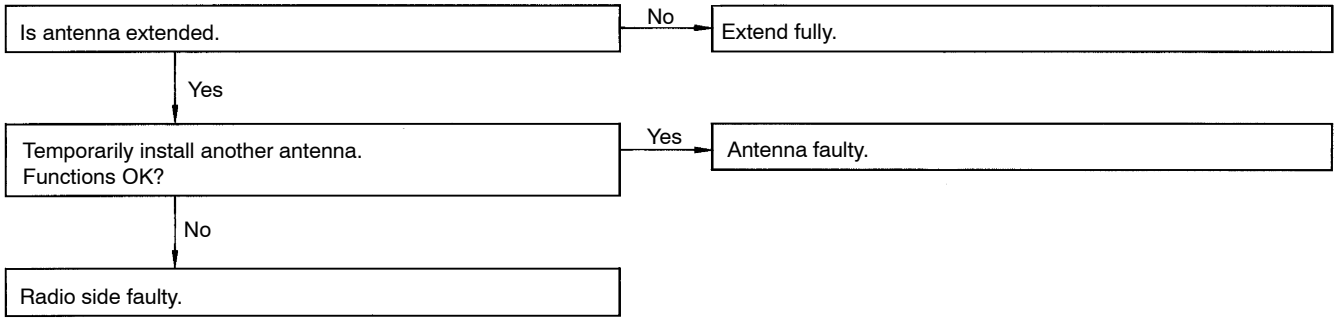
V08551

22	CD Player	CD WILL NOT BE EJECTED

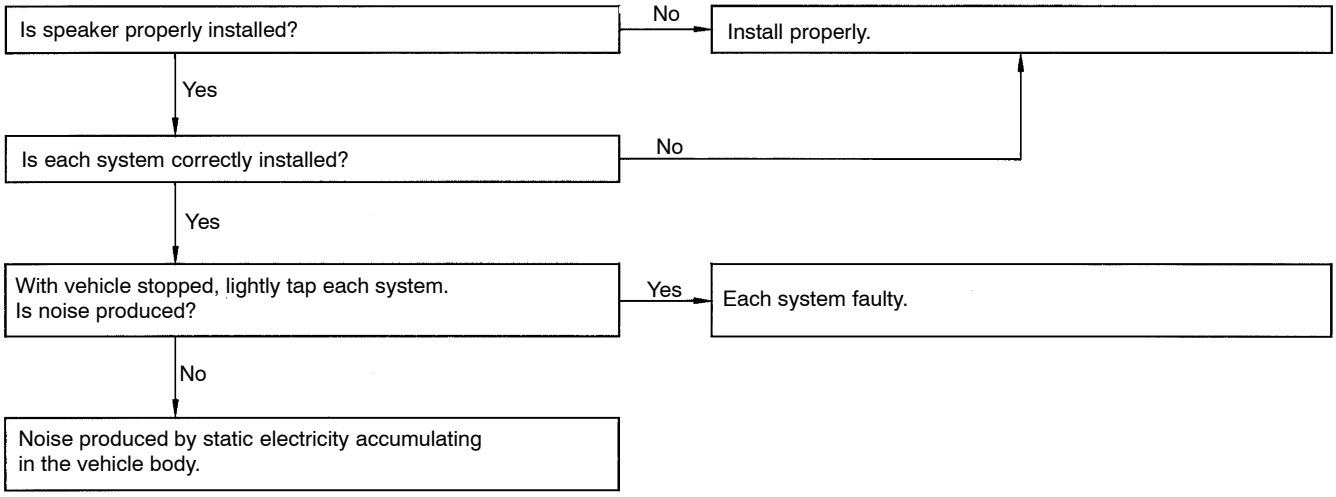


I05490

23	Antenna	ANTENNA–RELATED

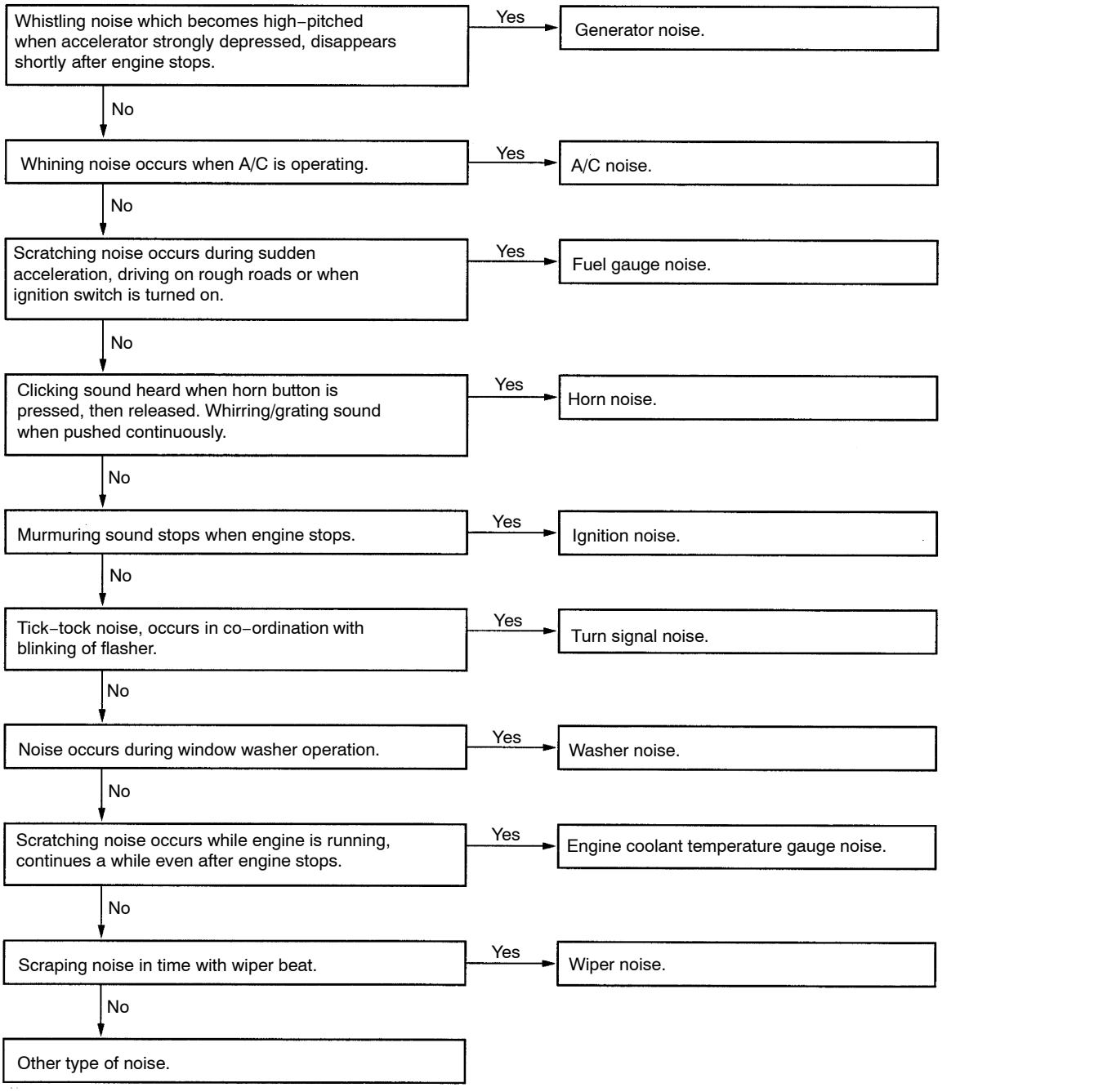


24	Noise	NOISE PRODUCED BY VIBRATION OR SHOCK WHILE DRIVING



V04924

25	Noise	NOISE PRODUCED WHEN ENGINE STARTS



V08467