# TROUBLESHOOTING

NOTICE:

When replacing the internal mechanism (computer 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.).

Always inspect the trouble taking the following items into consideration.

- Open or short circuit of the wire harness
- Connector or terminal connection fault

	Problem	No.
Radio	Radio not operating when power switch turned to 'ON'.	1
	Display indicates when power switch turned to 'ON', but no sound (including 'noise') is produced.	2
	Noise present, but AM – FM not operating.	3
	Any speaker does not work.	4
	Any AM or FM does not work.	5
	Few preset turning bands.	5
	Reception poor.	6
	Sound quality poor.	7
	Preset memory disappears.	8
Tape Player	Cassette tape cannot be inserted.	9
	Cassette tape inserted, but no power.	10
	Power coming in, but tape player not operating.	11
	Any speaker does not work.	12
	Sound quality poor.	13
	Tape jammed, malfunction with tape speed or auto-reverse.	14
	Cassette tape will not eject.	15
CD Auto Changer	CD magazine cannot be inserted.	16
	CD magazine inserted, but no power.	17
	Power coming in, but CD player not operating.	18
	Sound jumps.	19
	Sound quality poor (Volume faint).	20
	Any speaker does not work.	21
	CD magazine will not be ejected.	22
Power Amplifier	No power coming in.	23
	Power coming in, but power amplifier not operating.	24
	Any speaker does not work.	25
Noise	Noise occurs	26
	Noise produced by vibration or shock while driving.	27
	Noise produced when engine starts.	28

The term "AM" includes LW,MW and SW, and the term "FW" includes UKW.

BE1AP-03

## 1. DIAGNOSIS FUNCTION

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

For LEXUS RX300, press the function switch instead of TRACK TUNE APS switch.

(a) Diagnosis start-up

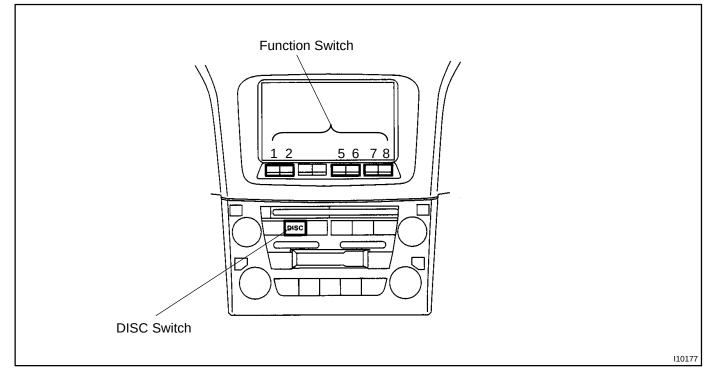
For shifting to diagnosis mode, push "DISC" switch 3 times with pressing "1" and "6","7" or "8" of function switch at the same time while the audio power is OFF and ACC is ON.

To exit from diagnosis mode, press "DISC" switch for 2 seconds or turn the ignition key OFF.

(When "1-190" is displayed, the mode is transferred to LAN check mode.)

(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 "DOWN" switch. In LAN check mode, by pressing "5" of function switch 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

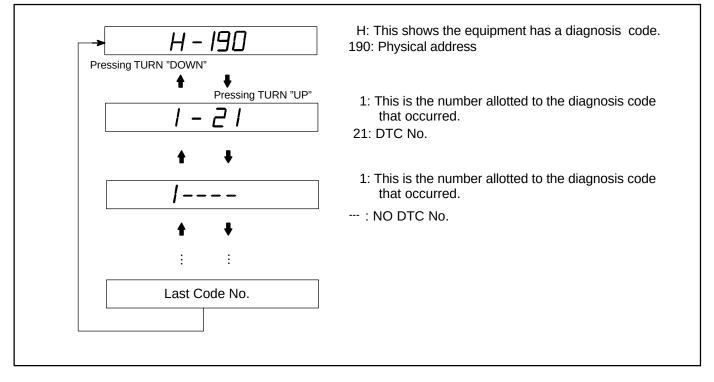
Code No. (physical address)	Equipment name
190	Radio receiver assembly (Audio head unit)
1c4 (RX300)	Center Cluster Integration Switch
1d4 (RX300)	Multi Display
240	CD changer (in Luggage room)
360	CD changer(in center console and glove compartment box)
440	Power amplifier

(c) System check

When pressing "1" of function switch in LAN check mode, the mode turns to the system check mode, the system performs self diagnosis of connected equipment and displays the results.("SYS" (showing the system is under detection) is displayed.)

(d) Perform the operation shown in the following illustration, then read the result of the inspection. HINT:

- It sometimes takes approx. 40 secs. till the system inspection is completed.
- The chart below is an example of when diagnosis code "21" appears on the physical address (190) equipment. (ROM error occurs on the radio receiver.)
- The smaller code numbers (physical address) are displayed in order (code No., 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 "DOWN" switches the display.
- In the system check mode, when pressing "8" of function switch the mode returns to LAN check mode.



#### (e) Diagnosis memory

(1) In LAN check mode, when pressing "2" of TRACK TUNE APS switch the mode turns to the diagnosis memory mode. ("CODE" is displayed.)

The results of self diagnosis performed over tuner and connected equipment are memorized and displayed.

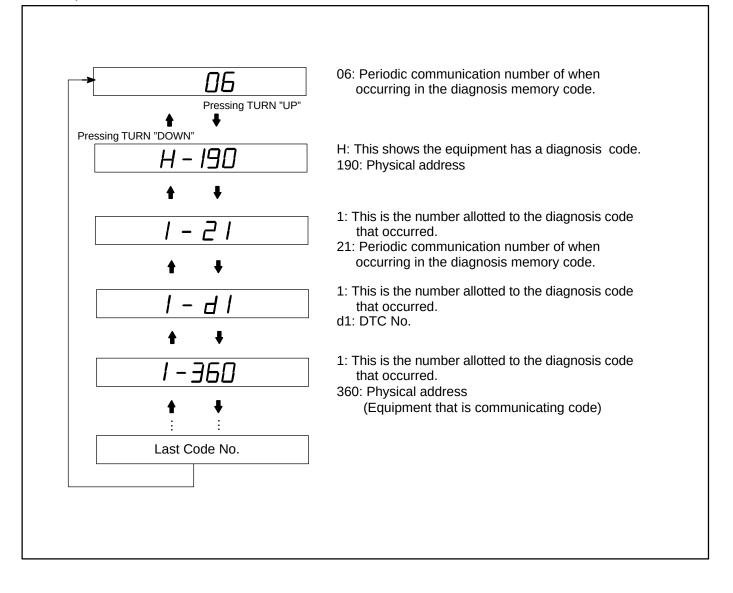
(2) Perform the operation shown in the following illustration, then read the result of the inspection.

HINT:

- The smaller code numbers (physical address) are displayed in order (code No., 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 "DOWN" switches the display. Each diagnosis code is same as code in the system check mode.
- When pressing "8" of function switch, the mode returns to LAN check mode. 2002 LEXUS RX300 (RM876U)

Date :

 The following illustration below is an example of when diagnosis code "D1" appears on the code (190) and (240 or 360) equipment. (Communication error occurs between the radio receiver and CD changer.)



### (f) Diagnosis memory clear

- (1) After error is fixed, start up the diagnosis mode.
- (2) Continue pressing TRACK TURN APS switch "5" for 2 secs. (CLr is displayed.)
- (3) Press the TRACK TURN APS switch "2" and transfer to the diagnosis memory mode and check that the normal code (00) is output.

BE-177

## 2. DIAGNOSIS CODE LIST

- If there is "O" in the column of system check, an error can be detected when the mode is switched to the system check mode.
- If there is "O" in the column of diagnosis mode, each unit is monitoring whether or not it has failure. In case of detecting failure, it memorizes DTC.

Parts Name	DTC	Diagnosis item	Diagnosis content	Countermeasure and inspected parts	-	Diagnosis memory
	21	ROM error	There is an error on internal ROM.		0	Х
	22	RAM error	There is an error on internal RAM.		0	Х
Head	41	AM tuner error	There is an error in AM tuner	Radio receiver check	X	0
Unit	42	FM tuner error	There is an error in FM tuner		Х	0
(190)	50	Cassette error	There is an error in cassette deck.		х	0
	51	Cassette eject error	Cassette can not be ejected from Head Unit.		х	0
	D1	Transmitter error	Communication with the equipment that is communicating has failed successively.	Radio receiver check Wire harness and connecter check.	0	0
	D2	Periodic communication no response	Error in periodic communication.	• Wire harness and connector	x	0
	D4	Periodic communication error	Connection confirmation has not come from the equipment that is communicating	<ul> <li>Radio receiver check.</li> <li>Wire harness check.</li> </ul>	x	0
	FF	Diagnosis no response	Result of diagnosis is not issued from start to finish.	Radio receiver check	. 0	х
	21	ROM error	There is an error on internal ROM.		0	Х
	22	RAM error	There is an error on internal RAM.	CD changer check.	0	Х
	60	CD error	Error codes other than 61–69 are detected.		Х	0
CD	61	EJECT error	CD is not ejected.	CD changer check. Magazine check.	х	0
(240)		DISC inside out/flaw	CD is inserted inside out or it has a flaw.	CD check.	x	0
(360)	63	Pickup temperature detection	High temperature of CD changer is detected.		х	0
	64		Excessive current to CD changer is detected.	CD changer check.	Х	0
	67	Tray insertion/ discharging error	An error occurs in insertion and discharging operation of CD changer tray.	CD changer check. Magazine check.	х	0

Parts DT		Diagnosis item	Diagnosis content	Countermeasure	-	Diagnosis
Vame		2.49.10010 11011		and inspected parts	Check	memory
			An error occurs in			-
	68	Elevator error	elevator of CD changer		Х	0
			elevator.			
	69	Clamp error	An error occurs in CD		~	0
	09	Clamp error	changer clamp.	CD changer check.	Check     m       X     X       X     X       X     X       X     X       X     X       X     X       X     X       X     X       X     X       X     X       X     X       X     X       X     X       X     X       X     X	0
			Communication with the			
CD		1 Transmitter error equipment that is				
(240)	DI	Transmiller error	communicating has failed		0 0	
(360)			successively.			
(000)			Connection confirmation			
		Periodic communication	has not come from the	<ul> <li>Radio receiver check.</li> </ul>		
	D4	error		<ul> <li>Wire harness check.</li> </ul>	Х	X O
			communicating			
			Result of diagnosis is not			
	FF	Diagnosis no response	issued from start to finish.	CD changer check.	0	Х
			Communication with the			
			equipment that is	Stereo component	0	~
	D1	Transmitter error		amplifier check.	0	0
			successively.			
			Connection confirmation			
(440)		Periodic	has not come from the	<ul> <li>Radio receiver check.</li> </ul>		
()	D4	communication			Х	0
		error	communicating	• Whe harness check.		
			Ũ	Stereo component		
	FF	Diagnosis no response		amplifier check.	0	Х
			Communication with the			
		1 Transmitter error	equipment that is			
	D1		communicating has failed	Center Cluster Check	0	0
Center			successively.			
Cluster			Connection confirmation			
1c4)		Periodic	In a second second second state second	<ul> <li>Radio receiver check.</li> </ul>		
	D4	communication		<ul> <li>Wire harness check.</li> </ul>	Х	0
		error	communicating			
			Communication with the			
			equipment that is			
	D1	Transmitter error	communicating has failed	Multi–Display Check	0	0
			successively.	-		
			Connection confirmation			
Multi		Periodic				
Display	D4	communication		Radio receiver check.	Х	0
1d4)		error	oquipinone inacio	<ul> <li>Wire harness check.</li> </ul>		-
			communicating			
		1	These is an even as			

There is an error on

There is an error on

internal ROM.

internal RAM.

## (): w/ Navigation system

21

22

ROM error

RAM error

 $\bigcirc$ 

 $\bigcirc$ 

Multi-Display Check

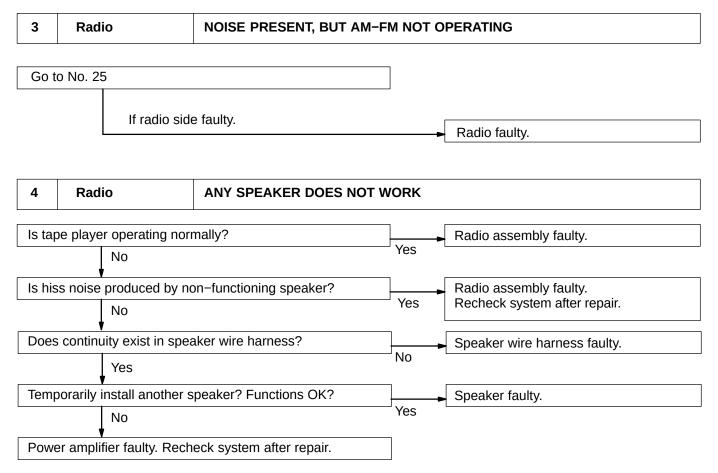
Х

Х

1 Radio		io	RADIO NOT OPERATING W	HEN PO	WER SWITCH TURNED TO "ON"
Is tape player operating normally?			mally?	Vaa	Radio assembly faulty.
		No		┘ Yes	
Che	ck if RAI	D-No. 2 fuse is	OK?		Replace fuse.
		OK		<sup></sup> NG	
ls po	ower sup	plied to ACC te	erminal of power amplifier?	]	ACC wire harness faulty.
		Yes		<sup></sup> No	
Che	ck if RA	D-No. 1 fuse is	OK?		Replace fuse.
		OK		<sup></sup> NG	
Is po	ower sup	plied to +B terr	ninal of power amplifier?		+ B wire harness faulty.
		Yes		<sup>]</sup> No	
	ck if GNE		side) of power amplifier	NG	GND faulty.
		ОК			
Is po	ower sup	plied to ACC te	erminal of radio assembly?	No	Power amplifier or ACC wire harness faulty.
		Yes		INU	
Is power supplied to +B terminal of radio assembly?			Power amplifier or +B wire harness faulty.		
		Yes		<sup></sup> No	
Check if GND (wire harness side) to radio assembly is OK?		NG	GND faulty.		
ок		NG			
Radio assembly faulty.					

DISPLAY INDICATES WHEN POWER SWITCH TURNED TO "ON", BUT NO SOUND (INCLUDING "NOISE") IS PRODUCED

Is tape player operating normally?		<ul> <li>Radio assembly faulty.</li> </ul>
No	Yes	
Check if RAD-No. 2 fuse is OK?		Replace fuse.
ОК	NG	
Is power supplied to ACC terminal of power amplifier?		ACC wire harness faulty.
Yes	No	Acc wire namess laulty.
Check if RAD-No. 1 fuse is OK?		Replace fuse.
ок	'NG	
Is power supplied to +B terminal of power amplifier?		+ B wire harness faulty.
Yes	'No	
Check if GND (wire harness side) of power amplifier		GND faulty.
grounded normally?		
ОК	NG	
Is power supplied to ACC terminal of radio receiver?		Power amplifier faulty.
Yes	'No	
Is power supplied to +B terminal of radio receiver?		Power amplifier faulty.
Yes	No	
Check if GND (wire harness side) of power amplifier		GND faulty.
grounded normally?	NG	
ОК		
Does continuity exist in speaker wire harness?	<b>.</b>	Speaker wire harness faulty.
Yes	<sup>I</sup> No	· · · · ·
Temporarily install another speaker. Functions OK?	<b>,</b>	Speaker faulty.
No	'Yes	· · ·
Hiss noise from speaker?	<b>•</b>	Power amplifier faulty.
Yes	No	Recheck system after repair.
Radio assembly faulty. Recheck system after repair.		



5	Radio	ANY AM OR FM DOES NOR FEW PRESET TUNING BAN		
Problem with radio wave signals or location?				Poor signals, poor location.
	No		Yes	
Is pow	ver for the antenna being outp	ut from the radio assembly?	]	Radio assembly faulty.
	No		Yes	
Are b	oth AM and FM defecti	ve?	No	
Yes				
Go to	No. 26			
	Ļ			
Is tap	e player operating norn	nally?	•	Radio assembly faulty.
	No		Yes	
Temp	orarily install another s	peaker. Functions OK?	Yes	Speaker faulty.
	No		— Yes	
Hiss noise from speaker?			No	Power amplifier faulty.
Yes				Recheck system after repair.
Radio	o assembly faulty. Rech	eck system after repair.		

6 Radio		POOR RECEPTION		
Is the condition bad in comparison with		th other vehicles?	Yes	An electric wave environment is bad.
	No		165	
	ere any additional insta shade film, telephone a		Yes	Does the condition get better if removing them?
	No			Yes
				Influence of additional installation parts.
		and breaking of a wire on		Repair. (See page BE-92)
(visua	ass antenna and the de Il check. tester) page BE–169)	nogger pattern.	Yes	
	No			
Is the	contact of the plug jack	of the radio OK?	No	Take a measure for contact.
	Yes		NU	
	the condition get better na (such as pillar anten		No	Check the radio.
	Yes			
	contact of the antenna te e and the defogger terr		No	Take a measure for contact.
	Yes			
Is the	continuity of the antenr	na cord OK?		Replace the antenna cord.
	Yes		No	
	the grounding of the ar		NG	Grounding failure.
CHOKE	e coil, and noise filter. (S	ee hage pc-109)		
Does the condition get better by replacing		by replacing		Replace the choke coil.
the choke coil?		,	Yes	
	No			
Does the condition get better batter		by replacing the	Yes	<ul> <li>Replace the antenna cord.</li> </ul>
L	No		]	
Exchange the glass.				

7	Radio	SOUND QUALITY POOF	2		
Is sou	nd quality always bad? Yes	No Is sound qua areas only?	lity bad in certa	in Yes	Poor signals, poor location.
	e player operating norm No aker properly installed?	Radio assem amplifier faul nally? Yes	r operating nor No bly or power ty.	mally? Yes	Radio assembly faulty. Radio assembly faulty.
	Yes		No	•	Install properly.
Tempo	prarily install another sp	beaker. Functions OK?	] Yes		Speaker faulty.
	No assembly or power am eck system after repair.		]		
8	Radio	PRESET MEMORY DISA	PPEARS		
Can c	assette tape be inserted	d in tape player?	Yes	Radio asseml	bly faulty.
Check	tif RADIO No.1 fuse is	OK?		Replace fuse.	
	ОК		NG		
Is pow	ver supplied to +B termi	nal of power amplifier?	No	+B wire harne	ess faulty.
	ded normally?	side) of power amplifier	NG	GND faulty.	
Is pow	ver supplied to +B termi	nal of radio assembly?	No	Power amplifi	er faulty.
	ded normally?	side) of radio assembly	NG	Power amplifi	er faulty.
[_	OK				
Radio	assembly faulty.				

9 Tape Player CASSETTE TAPE CANNOT BE INSERTED						
Is there a foreign object inside tape player?		Remove foreign object.				
No	Yes					
Is auto search button radio operating normally?	Yes	Radio assembly faulty.				
No	Tes					
Check if RADIO No. 1 fuse is OK?		Replace fuse.				
ОК	NG					
Is power supplied to +B terminal of power amplifier?		+B wire harness faulty.				
Yes	No					
Check if GND (wire harness side) of power amplifier		GND faulty.				
grounded normally?	NG					
ОК						
Is power supplied to +B terminal of radio assembly?	No	Power amplifier faulty.				
Yes						
Check if GND (wire harness side) of radio assembly grounded normally?	NG	Power amplifier faulty.				
OK						
Radio assembly faulty.						
10 Tape Player CASSETTE TAPE INSER	TED, BUT NO	D POWER				
Is radio operating normal?	Yes	Radio assembly faulty.				
No						
Check if RAD No. 2 fuse is OK?	NG	Replace fuse.				
ок 						
Is power supplied to ACC terminal of power amplifier?	No	ACC wire harness faulty.				
Yes	INO					
Check if RADIO No. 1 fuse is OK?		Replace fuse.				
ок	NG					
Is power supplied to +B terminal of radio assembly?		+B wire harness faulty.				
Yes	No					
Is power supplied to ACC terminal of radio assembly?	<b>.</b> .	► Power amplifier faulty.				
Yes	No					
Radio assembly faulty.						

11	Tape Player	POWER COMING IN, BUT TAPE PLAYER NOT OPERATING				
Function OK if different cassette tape inserted?			Yes	Cassette tape faulty.		
Is radio operating normally?			Yes	Radio assembly faulty.		
Does continuity exist in speaker wire harness? Yes			No	Speaker wire harness faulty.		
Temporarily install another speaker. Function OK?			Yes	Speaker faulty.		
No Hiss noise from speaker? Yes			No	<ul> <li>Power amplifier faulty.</li> <li>Recheck system after repair.</li> </ul>		
	assembly faulty. eck system after repair					

12	Tape Player	ANY SPEAKER DOES NOT W	IY SPEAKER DOES NOT WORK				
Is radio operating normally?			Yes	Radio assembly faulty.			
Is his	Is hiss noise produced by non-functioning speaker.			Radio assembly faulty. Recheck system after repair.			
Does	s continuity exist in spea			Speaker wire harness faulty.			
	Yes		No				
	Temporarily install another speaker. Function OK?			Speaker faulty.			
	No						
Radi	o assembly or power a	mplifier faulty.					

13	Tape Player	SOUND QUALITY POOR (VOLUME FAINT)				
Function OK if different cassette tape inserted?			Yes	Cassette tape faulty.		
Opera	ates normally after clear No	ning the heads?	Yes	Head dirty.		
Is radio operating normally?			Yes	Radio assembly faulty.		
Is speaker properly installed? Yes			No	Install properly.		
Temporarily install another speaker. Function OK?			Yes	Speaker faulty.		
Radio	assembly faulty.					

14	Tape Player	TAPE JAMMED MALFUN	TAPE JAMMED MALFUNCTION WITH TAPE SPEED OR AUTO-REVERSE				
Functio	on OK if different tape (less tha	n 120 mins.) is inserted?	Yes	Cassette tape faulty.			
Is there a foreign object inside tape player?			Yes	Remove foreign object.			
Operates normally after cleaning the heads?			Yes	. Head dirty.			
Radio	assembly faulty.						

## 15 Tape Player

ayer

#### CASSETTE TAPE WILL NOT BE EJECTED

Is tape player operating normally?	Cassette tape jammed.
Yes	No
,	
Is auto search button of radio operating normally?	Radio assembly faulty.
No	Yes
	Deplace fue
Check if RADIO No. 1 fuse is OK?	NG Replace fuse.
ОК	
Is power supplied to +B terminal of power amplifier?	+B wire harness faulty.
Yes	No No
Is power supplied to +B terminal of radio receiver?	Power amplifier faulty.
Yes	No No
Radio assembly faulty.	

### 16 CD Auto Changer CD MAGAZINE CANNOT BE INSERTED

Is CD magazine already inserted?		Eject CD m	nagazine.	
No	Yes			
Is auto search button of radio operating normally?	Is power supplied to of CD auto changer		Radio assembly faulty.	
No	Yes		No	
	Check if GND (wire side) of CD player ( normally?		NG	
	ок	]		
	CD auto changer f	aulty.		
Check if RADIO No. 1 fuse is OK?		Replace fu	se.	
ОК	NG			
Is power supplied to +B terminal of power amplifier	?	+B wire harness faulty.		
Yes	No	Ť		
Check if GND (wire harness side) of radio assemb grounded normally?	NG	]		
ОК				
Radio assembly faulty.				

17	CD Auto Changer	CD MAGAZINE INSERTED, BUT NO POWER					
Is rad	lio operating normally?	Yes	Is power s terminal o			No	Radio assembly faulty.
				Yes			
			CD auto	thanger f	aultv.		
[							
Chec	k if RADIO No. 2 fuse i	s OK?		⊢► NG	Replace fu	se.	
	OK						
Is pov	wer supplied to ACC te	rminal of power ampli	fier?	}► No	ACC wire h	narness	faulty.
	Yes			NU			
Is pov	wer supplied to ACC te	rminal of radio assem	bly?		Power amp	olifier fa	ulty.
	Yes			No			
Radio	assembly faulty.			7			
	·····						
18	CD Auto Changer	POWER COMING	IN. BUT C		HANGER N	ΟΤ ΟΡ	FRATING
10							
Is CE	) inserted with correct s	side up?		]	Insert corre	ectly.	
	Yes			No			
Func	tion OK if different CD i	magazine inserted?		] _	CD magaz	ine faul	ty
	No			Yes	OD magaz		
	dio operating normally?			oturo incid	la aabin hat2		Protective circuit in
15 140		Yes	is tempera	temperature inside cabin hot? Protective circuit operation.			
	No			•			
			Has sudde		ature change n?	Yes	Formation of
						163	condensation due to temp. changes.
			[	No		1	
			CD auto c	hanger fa	ulty.		
	•			7			
Does	continuity exist in spea	ker wire harness?		No	Speaker w	ire harn	ess faulty.
	Yes			-			
	oorarily install another s tions OK?	peaker.		Yes	Speaker fa	ulty.	
	No ▼						
Hiss	noise from speaker?			No	Power am		
	Yes				Recheck s	ystem a	
Radio Rech	o assembly faulty. leck system after repair	r.					

19	CD Auto Changer	SOUND JUMPS		
Does sound jump only during strong vibration?			Yes	Jumping caused by vibration.
Is CD auto changer properly installed? Yes			No	Install properly.
Functions OK if another CD is played?			Yes	CD faulty.
Has sudden temperature change occurred inside cabin?			Yes	Formation of condensation due to temp. changes.
CD a	uto changer faulty.			

20	CD Auto Changer	SOUND QUALITY POOR (VO	DLUME FAINT)		
Function OK if another CD is played?			Yes	CD faulty.	
Is radio operating normally?			Yes	CD auto chenger faulty.	
Is speaker property installed? Yes			No	Install properly.	
Temporarily install another speaker. Functions OK?			Yes	Speaker faulty.	
Radio	No assembly or CD auto	changer or power amplifier faulty.			

21	CD Auto Changer	ANY SPEAKER DOES NOT WORK					
Is radio operating normally?			Yes	CD auto changer faulty.			
Is hiss noise produced by non-functioning speaker?			Yes	Radio assembly faulty. Recheck system after repair.			
Does	Does continuity exist in speaker wire harness? Yes			Speaker wire harness faulty.			
Temporarily install another speaker. Function OK?			Yes	Speaker faulty.			
No							
Power amplifier faulty. Recheck system after repair.							

22	CD	Auto Changer	CD MAGAZINE WILL NOT BE EJECTED						
	to searc ating no	h button of radio rmally? No	)	Yes	Is power s of CD auto	Yes		No	Radio assembly faulty.
Chec	k if RAE	DIO No. 1 fuse is OK	s OK?			NG	Replace fu	se.	
Is pov	wer sup	plied to +B termi Yes	nal of power a	amplifier	?	No	+B wire ha	rness fau	lty.
Is power supplied to +B terminal of radio receiver Yes			?	No	Power amp	olifier fault	у.		
Radio assembly faulty.					]				

23	Power Amplifier	NO POWER COMING IN		
Is ta	Is tape player operating normally?			Radio assembly faulty.
L	No		Yes	
Che	ck if RAD-No. 2 fuse is	OK?		Replace fuse.
	ОК		NG	
Is po	ower supplied to ACC te	erminal of power amplifier?		ACC wire harness faulty.
	Yes		No	
Che	ck if RAD-No. 1 fuse is	OK?		Replace fuse.
	ОК		' NG	
Is po	ower supplied to +B terr	ninal of power amplifier?		+ B wire harness faulty.
	Yes		No	
	ck if GND (wire harness inded normally?	s side) of power amplifier	NG	GND faulty.
	ОК			
Is po	ower supplied to ACC te	erminal of radio assembly?		► Power amplifier or wire harness faulty.
	Yes		' No	
Is po	Is power supplied to +B terminal of radio assembly?			Power amplifier or wire harness faulty.
Yes			No	
	Check if GND (wire harness side) of radio assembly grounded normally?			GND faulty.
	ОК			
Rad	io assembly faulty.			

24 Power Amplifier	POWER COMING IN, BUT WOOFER (POWER) AMPLIFIER NOT OPERATING					
Is tape player operating nor	nally?		Radio assembly faulty.			
No		Yes	,			
Check if RAD-No. 2 fuse is	OK?		Replace fuse.			
OK		'NG				
Is power supplied to ACC te	rminal of power amplifier?		ACC wire harness faulty.			
Yes		No				
Check if RAD-No. 1 fuse is	OK?		Replace fuse.			
OK		'NG				
Is power supplied to +B tern	ninal of power amplifier?		+ B wire harness faulty.			
Yes		No				
Check if GND (wire harness	side) of power amplifier	NG	GND faulty.			
grounded normally?		ING				
OK						
Is power supplied to ACC te	rminal of radio assembly?	No	<ul> <li>Power amplifier faulty.</li> </ul>			
Yes						
Is power supplied to +B tern	ninal of radio assembly?	No	<ul> <li>Power amplifier faulty.</li> </ul>			
Yes						
Check if GND (wire harness grounded normally?	side) of radio assembly	NG	GND faulty.			
ОК		ING				
<u> </u>	r wire herness?					
Is there continuity in speake	r wire namess?	No	<ul> <li>Speaker wire harness faulty.</li> </ul>			
¥						
Temporarily install another s	peaker. Functions OK?	Yes	<ul> <li>Speaker faulty.</li> </ul>			
¥						
Hiss noise from speaker?		No	<ul> <li>Power amplifier faulty.</li> <li>Recheck system after repair.</li> </ul>			
Radio assembly faulty. Rech	neck system after repair.					

25	Power Amplifier	ANY SPEAKER DOES NOT WORK			
Is radio operating normally?			Yes	CD player faulty.	
Is hiss noise produced by non-functioning speaker?			Yes	Radio assembly faulty. Recheck system after repair.	
Does continuity exist in speaker wire harness?			No	Speaker wire harness faulty.	
Temporarily install another speaker. Function OK?			Yes	Speaker faulty.	
	No				
Power amplifier faulty. Recheck system after repair.					

26	Noise	NOISE OCCURS		
Does the noise occur only in the radio?			(It occurs in th	e cassette and CD.)
Dues	Yes		No	
Does the noise occur in a particular place?			An electric environment.	
	No		Yes	
Is there any additional installation part around the glass imprinted antenna?			Yes	Does the noise stop by removing it?
(Sun	shade film, telephone a	antenna etc.)		Influence of the film or the point rediction
	No			Influence of the film or the noise radiation of the additional installation part.
	the noise occur even p na cord from the radio?		Yes	Check the radio.
	No			
	the noise occur even a na terminal on the glas		Yes	Noise mixing into the antenna cable.
	No		_	
Isn't there any adhesive (Butyl rubber) stuck on the bases of the antenna			Yes	Failure of glass installation. Must plane the butyl rubber.
termir	nal, defogger terminal a	and bus dar?		
Does the noise occur even after pulling out the defogger terminal?		Yes	Interfering noise from the defogger line and choke coil.	
	No			
Check the grounding of the antenna, antenna cord, coke coil, and noise filter. (See page BE-169)		NG	Grounding failure.	
	ОК			
	the condition get better noke coil?	r by replacing	Yes	Replace the choke coil.
	No			
	the condition get better ntenna cord.	r by replacing	Yes	Replace the antenna cord.
I	No		L	
	rediates directly to the ration source.	antenna from the		

27	Noise	NOISE PRODUCED BY		VIBRATION OR SHOCK WHILE DRIVING				
Is speaker properly installed?				Install properly.				
	Yes	·	No					
Is speaker properly installed?			No					
	Yes							
With vehicles stationary lightly tap each system. Is noise produced?			Ye	Each system faulty.				
	No							
Noise is produced from static eletricity accumulating in the vehicle body.								
28 Noise NOISE PRODUCED WHE			EN ENGI	NE STARTS				
Whistling	noise which becom	es high-pitched when		Generator noise.				
accelera	Whistling noise which becomes high–pitched when accelerator strongly depressed, disappears shortly after engine stops.		Yes					
	No							
Whining	noise occurs when A	VC is operating.	Yes	A/C noise.				
	No		163					
Scratching noise occurs during sudden acceleration, driving on rough roads or when ignition switch is turned ON.			Yes	Fuel gauge noise.				
	No							
Clicking sound is heard when horn button is pressed, then released. Whirring/grating sound is heard when pushed continuously.		Yes	Horn noise.					
	No							
Murmuring sound stops when engine stops.		Yes	Ignition noise.					
	No		_					
Tick-tack noise occurs in co-ordination with blinking offlasher.		Yes	Turn signal noise.					
	No		_					
Noise occurs during window washer operation.		Yes	Washer noise.					
No		100						
Scratching noise occurs while engine is running, and continues a while even after engine stops.			Yes	Engine coolant temp. gauge noise.				
No								
Scraping noise in line with wiper beat.			}►	Wiper noise.				
	No		Yes					
Other type of noise			]					