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 Player	CD cannot be inserted.	16
	CD 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 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.

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1	Radio	RADIO NOT OPERATING WHEN POWER SWITCH TURNED TO "ON"					
Is tape player operating normally?			Yes	Radio assembly faulty.			
Check if RAD-No.2 fuse is OK?			NG	Replace fuse.			
Is power supplied to ACC terminal of radio assembly? Yes			No	ACC wire harness faulty.			
Check if RAD-No.1 fuse is OK?			NG	Replace fuse.			
ls po	ower supplied to +B ter	minal of radio assembly?	No	+ B wire harness faulty.			
Check if GND (wire harness side) to radio assembly is OK?			NG	GND faulty.			
Rad	io assembly faulty.						

2 Radio

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

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

3	Radio	OPERATING		
Got	to No.25			
	If radio sid	e faulty.		Radio faulty.
4	Radio	ANY SPEAKER DOSE NO	OT WORK	
ls ta	pe player operating nor	mally?	Yes	Radio assembly faulty.
Is hiss noise produced by non-functioning speaker?			Yes	 Radio assembly faulty. Recheck system after repair.
Does continuity exist in speaker wire harness? Yes			No	Speaker wire harness faulty.
Temporarily install another speaker? Functions OK?			Yes	Speaker faulty.
Pow	er amplifier faulty. Rech	neck system after repair.		

Author :

5	Radio	ANY AM OR FM DOES NO FEW PRESET TUNING BA				
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			¹ No			
Go to	No.16					
	V					
Is tap	e player operating norr	nally?		Radio assembly faulty.		
No			Yes			
Temporarily install another speaker. Functions OK?				Speaker faulty.		
	No		Yes			
Hiss noise from speaker?				Power amplifier faulty.		
Yes			No	Recheck system after repair.		
Radio assembly faulty. Recheck system after repair.						

6 Radio POOR RECEPTION				
Is the conditi	on bad in comparison wit	h other vehicles?	Yes	An electric wave environment is bad.
Are there any additional installation parts? (Sun shade film, telephone antenna, etc.)			Yes	Does the condition get better if removing them?
	No			Yes
	Ļ			Influence of additional installation parts.
	,	-	Yes	Repair. (See page BE-102)
	No			
Is the con	tact of the plug jack	of the radio OK?		Take a measure for contact.
	Yes		No	
	condition get better such as pillar anten		No	Check the radio.
	Yes			
	act of the antenna tend the defogger term		No	Take a measure for contact.
L	Yes			
Is the con	tinuity of the antenn	a cord OK?		Replace the antenna cord.
	Yes		No	
Check the choke coil	grounding of the an , and noise filter. (S	tenna, antenna cord, ee page BE-167)	NG	Grounding failure.
	ОК			
Does the condition get better by replacing the choke coil?			Yes	Replace the choke coil.
L	No]	
Does the condition get better by replacing the antenna cord?			Yes	Replace the antenna cord.
L	No]	
Exchange	the glass.			

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7	Radi	o	SOUND QU	JALITY POOR				
Is sou	nd quali	ty always bad?	No	Is sound qual areas only?	ity bad in cer	tain	Yes	Poor signals, poor location.
		Yes			No			
				Is tape playe	r operating n	ormally?	Yes	
		,		Radio assem amplifier fault				Radio assembly faulty.
Is tape	e player	operating norm	ally? Yes				•	Radio assembly faulty.
Is spe	aker pro	operly installed?	I					Install properly.
		Yes			No			
Tempo	orarily ir	istall another sp	eaker. Functi	ons OK?]			Speaker faulty.
		No			Yes			
		oly or power am em after repair.	plifier faulty.					
8	Radi	0	PRESET M	EMORY DISA	PPEARS			
Can c	assette	tape be inserted	l in tape playe	ır?		- Radi	o assem	bly faulty.
		No			Yes			
Check	k if RAD	IO No.1 fuse is	OK?			- Repl	ace fuse	
		ОК			NG			
Is power supplied to +B terminal of radio assembly?			No	► +B w	vire harn	ess faulty.		
		Yes						
	c if GND ded nor	(wire harness s mally?	side) of radio	assembly	NG	→ GND)	
L	,	OK]			
Radio	asseml	oly 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?	Radio assembly faulty.
No	Yes Yes
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
<u> </u>	
Check if GND (wire harness side) of radio assembly	GND faulty.
grounded normally?	
ОК	NG
Radio assembly faulty.	

10	Tape Player	CASSETTE TAPE INSERTED, BUT NO POWER				
	•		_			
Is rad	dio operating normal?		•	Radio assembly faulty.		
	No		∃ Yes			
Chec	k if RAD No.2 fuse is C	DK?		Replace fuse.		
ОК			[─] NG			
ls po	wer supplied to ACC te	rminal of radio assembly?		ACC wire harness faulty.		
Yes			No			
Chec	k if RADIO No.1 fuse is	s OK?	•	Replace fuse.		
ОК			[_] NG			
Is power supplied to +B terminal of radio assembly?				+B wire harness faulty.		
	Yes		No			
Radio assembly faulty.						

|--|

11	Tape Player	POWER COMING IN, BU	IT TAPE PLA	AYER NOT OPERATING
Function OK if different cassette tape inserted?			Yes	Cassette tape faulty.
Is rac	tio operating normally? No		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.
Hiss	No noise from speaker? Yes		No	 Power amplifier faulty. Recheck system after repair.
♦ Radio assembly faulty. Recheck system after repair.				

12	Tape Player	ANY SPEAKER DOES NOT WORK		
Is rad	dio operating normally?	Yes	Radio assembly faulty.	
Is his	ss noise produced by no	n-functioning speaker.	Radio assembly faulty. Recheck system after repair.	
Does continuity exist in speaker wire harness?		aker wire harness?	Speaker wire harness faulty.	
Yes Temporarily install another speaker. Function OK?		peaker. Yes	Speaker faulty.	
Radi	No ▼ No assembly or power ar	nplifier faulty.		

13	Tape Player	SOUND QUALITY POOR (VOLUME FAINT)		
Function OK if different cassette tape inserted?			Yes	Cassette tape faulty.
Opera	Operates normally after cleaning the heads?			Head dirty.
Is radio operating normally?			Yes	Radio assembly faulty.
Is spe	Is speaker properly installed? Yes			Install properly.
Temporarily install another speaker. Function OK?			Yes	Speaker faulty.
Radio assembly faulty.				

14	Tape Player	TAPE JAMMED MALFUNCTION WITH TAPE SPEED OR AUTO-REVERSE		
Functio	on OK if different tape (less that	an 120 mins.) is inserted?	Yes Cassette tape fault	<i>J</i> .
·	No			
Is the	re a foreign object insic	le tape player?	Yes Remove foreign ob	ect.
	No			
Operates normally after cleaning the heads?			Yes Head dirty.	
Radio	assembly faulty.			

Tape Player 15

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	
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	
Radio assembly faulty.		

16	CD Player	CD CANNOT BE INSERTED
	iscs have been already	
_	No	Yes
Is auto	search button of radio operat	ing normally? Yes Radio assembly faulty.
	No	
Chec	k if RADIO No.1 fuse is	
	OK	NG
Is po	wer supplied to +B term	inal of radio assembly? +B wire harness faulty.
	Yes	No
	k if GND (wire harness ided normally?	side) of radio assembly GND faulty.
giodi	OK	
Radio	o assembly faulty.	

17	CD Player	CD INSERTED, BUT NO POWER	
ls rad	lio operating normally	? Yes Radio assembly faulty.	
Chec	k if RADIO No.2 fuse OK	is OK? ► Replace fuse.	
Is pov		erminal of radio assembly? ACC wire harness faulty.	
Radic	assembly faulty.		
18	CD Player	POWER COMING IN, BUT CD PLAYER NOT OPERATING	
18		side up?	
18	CD Player		
18 Is CD	CD Player	side up? Insert correctly. No CD faulty.	
18 Is CE	CD Player	side up? Insert correctly.	
18 Is CE Func	CD Player D inserted with correct Yes tion OK if different CE	side up? Insert correctly. No D inserted? CD faulty.	

Dose continuity exist in speaker wire harness?	Speaker wire harness faulty.
Yes	No
Temporarily install another speaker.	Speaker faulty.
Functions OK?	Yes
No	-
Hiss noise from speaker?	No Power amplifier faulty.
Yes	Recheck system after repair.
Radio assembly faulty. Recheck system after repair.	

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19	CD Player	SOUND JUMPS		
Does	sound jump only during	g strong vibration?		Jumping caused by vibration.
	No		Yes	
Is rad	io assembly properly ir	nstalled?	_	Install properly.
	Yes		No	
Funct	ions OK if different CD	inserted?	Yes	CD faulty.
	No		165	
Radio	assembly faulty.			
20	CD Player	SOUND QUALITY POO	DR (VOLUME F	AINT)
Func	tion OK if different CD	inserted?		CD faulty.
L	No		Yes	
ls rad	dio operating normally?			Radio assembly faulty.
L	No		Yes	
Is speaker property installed?				
13 SP	eaker property installed	1?	•	Install properly.
13.30	eaker property installed Yes	1?	No	Install properly.
Temp	Yes		No	Install properly. Speaker faulty.
Temp	Yes		No	

Radio assembly or power amplifier faulty.

21	CD Player	ANY SPEAKER DOES NOT	VORK	
ls rac	lio operating normally?		Radio assembly faulty.	
	No		Yes	
Is his	s noise produced by no	on-functioning speaker?	Yes Radio assembly faulty. Recheck system after repair	ir.
Does	continuity exist in spea	aker wire harness?	Speaker wire harness fault	у.
Temporarily install another speaker. Function OK?		peaker.	Yes Speaker faulty.	
	No		L	
	er amplifier faulty. eck system after repair	ſ.		
22	CD Player	CD WILL NOT BE EJECTED		
	o search button of radi ating normally?	o Yes Radio a	ssembly faulty.	
	No			

		_	
Check if RAI	DIO No.1 fuse is OK?		Replace fuse.
	ОК	NG	
Is power sup	plied to +B terminal of radio assembly?		+B wire harness faulty.
	Yes	No	
Radio assem	, bly faulty.]	

23	23 Power Amplifier NO POWER COMING IN			
Is ta	pe player operating nor	mally?		Radio assembly faulty.
	No		Yes	
Che	ck if RAD-No.2 fuse is	OK?		Replace fuse.
	ок		NG	
ls 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	minal 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?		ACC wire harness faulty.
	Yes		No	
Is po	ower supplied to +B terr	ninal of radio assembly?	No	+B wire harness faulty.
	Yes			
	Check if GND (wire harness side) of radio assembly grounded normally?			GND faulty.
	OK			
Rad	io assembly faulty.			

24	Power Amplifier	POWER COMING IN, BUT OPERATING	(POWER) AMPLIFIER NOT	
Is tap	e player operating norn	nally?		 Radio assembly faulty.
	No		Yes	
Chec	k if RAD-No.2 fuse is C	DK?		Replace fuse.
	OK		'NG	
Is pov	wer supplied to ACC ter	rminal of power amplifier?		ACC wire harness faulty.
	Yes		No	
Chec	k if RAD-No.1 fuse is C	DK?		Replace fuse.
	ОК		'NG	
Is pov	wer supplied to +B term	inal of power amplifier?		+ B wire harness faulty.
	Yes		No	
		side) of power amplifier	NG	GND faulty.
groun	ided normally?			
	OK			
Is pov		rminal of radio assembly?		ACC wire harness faulty.
	Yes		No	
Is pov	wer supplied to +B term	inal of radio assembly?		+B wire harness faulty.
	Yes		No	
	k if GND (wire harness ided normally?	side) of radio assembly		GND faulty.
groun	OK		NG	
Is the	re continuity in speaker	r wire harness?	No	 Speaker wire harness faulty.
	Yes			
Temp	orarily install another s	peaker. Functions OK?		Speaker faulty.
	No		Yes	
Hiss r	noise from speaker?		No	 Power amplifier faulty.
	Yes		No	Recheck system after repair.
Radio	assembly faulty. Rech	eck system after repair.		

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

26 Noise	NOISE OCCUR	S	
Doop the relies are		(It occurs ir	the cassette and CD.)
	ur only in the radio?	No	► Refer to No.27.
Yes	a la constitución de solo de o		
L	ur in a particular place?	Yes	An electric environment.
No V			
Is there any additio around the glass in		Yes	Does the noise stop by removing it?
	lephone antenna etc.)	163	
No			Influence of the film or the noise radiation of the additional installation part.
Does the noise occ	ur even pulling out the		Check the radio.
antenna cord from		Yes	
No			
	ur even after pulling out the		Noise mixing into the antenna cable.
antenna terminal or antenna?	n the glass surface and pole	Yes	
No			
¥			Failure of glass installation.
Isn't there any adhe stuck on the bases	esive (Butyl rubber) of the antenna terminal?	Yes	Must plane the butyl rubber.
No			
↓ ···-			
Does the noise occur even after pulling out the defogger terminal?		Yes	 Interfering noise from the defogger line and choke coil.
No			
V			Grounding failure.
Check the groundir antenna cord.	ng of the antenna,	NG	
OK			
Does the condition the Pole antenna?	get better by replacing		Replace the Pole antenna.
		Yes	
No			
	get better by replacing	Yes	Replace the antenna cord.
the antenna cord.		162	
No V			
Noise radiates direction generation source.	ctly to the antenna from the		

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27	Noise	NOISE PRODUCED BY VIBRATION OR SHOCK WHILE DRIVING		
Is speaker properly installed?		No	Install properly.	
\\/ith	Yes	the tap agab system		
With vehicles stationary lightly tap each system. Is noise produced?		Yes	Each system faulty.	
	No			
Noise is produced from static electricity accumulating in the vehicle body.				

28	Noise	NOISE PRODUCED WHE	IEN ENGINE STARTS		
W/bist	ling noise which becom	high-nitchod whon		Generator noise.	
Whistling noise which becomes high-pitched when accelerator strongly depressed, disappears shortly after engine stops.		Yes	1		
	No				
Whini	ng noise occurs when A	VC is operating.		A/C noise.	
	No		Yes		
	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				
Murm	uring sound stops wher	n engine stops.	Yes	Ignition noise.	
	No		163		
Tick-tack noise occurs in co-ordination with blinking of flasher.		Yes	Turn signal noise.		
	No				
Noise occurs during window washer operation.		Yes	Washer noise.		
	The second secon				
Scratching noise occurs while engine is running, and continues a while even after engine stops.		Yes	Engine coolant temp. gauge noise.		
	No	3	163		
Scraping noise in line with wiper beat.			Wiper noise.		
	No		Yes		
Other type of noise					