COMPACT SYSTEM

AV-S7

SERVICE MANUAL

AV-S7 is composed of NX-AVS7, SW-AVS7 and NX-AV1.

IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel.
It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components, and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that any service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit.

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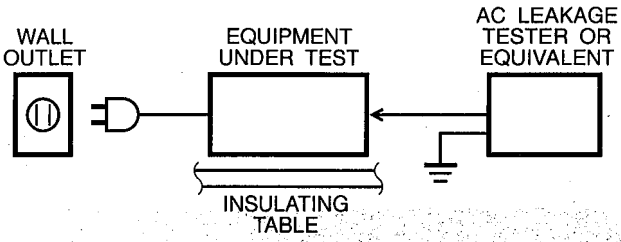
100623

YAMAHA
YAMAHA CORPORATION
P.O.Box1,Hamamatsu,Japan
2.8K-434 Printed in Japan '98.5

■ TO SERVICE PERSONNEL

1. Critical Components Information.
   Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
2. Leakage Current Measurement (For 120V Models Only).
   When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.

- Meter impedance should be equivalent to 1500 ohm shunted by 0.15μF.



- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

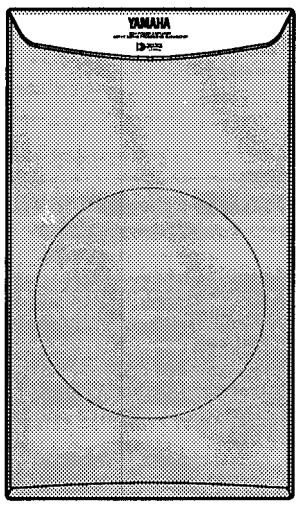
DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

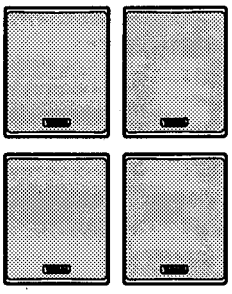
If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

■ FRONT PANELS

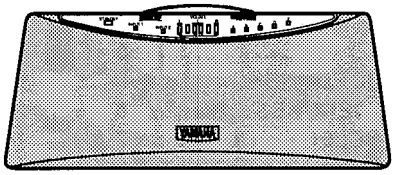
▼ SW-AVS7

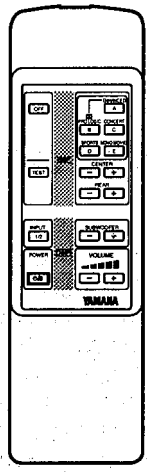


▼ NX-AV1

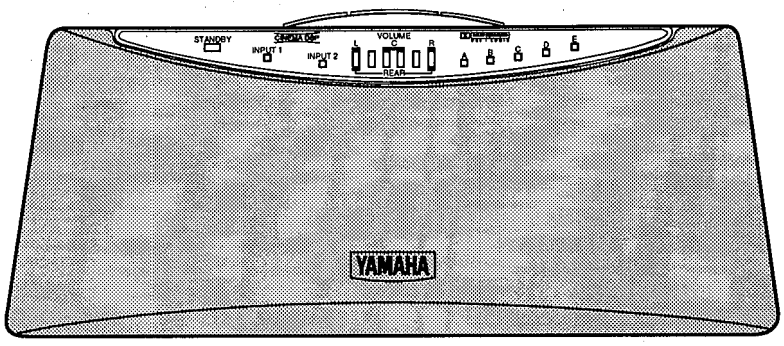


▼ NX-AVS7

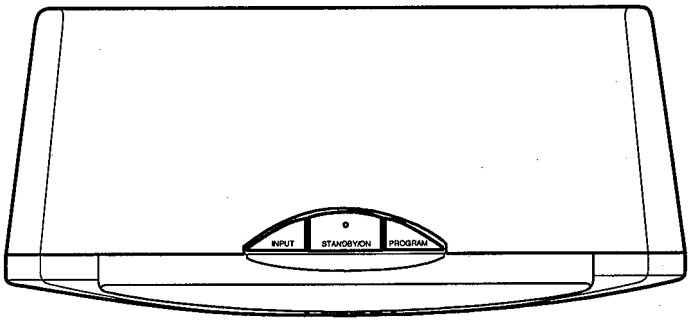




NX-AVS7 Front

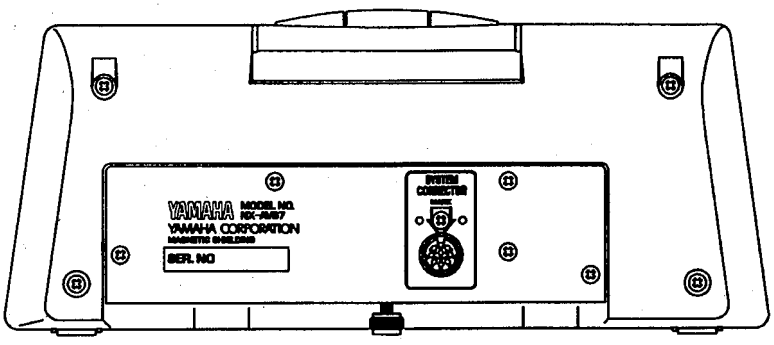


NX-AVS7 Top



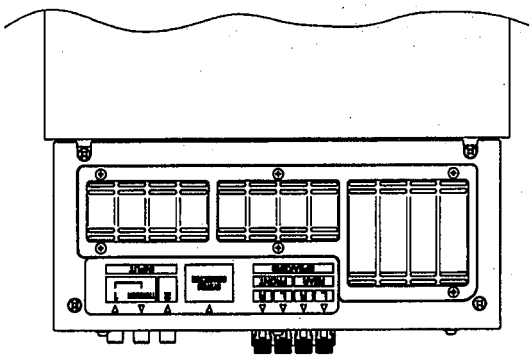
■ REAR PANELS

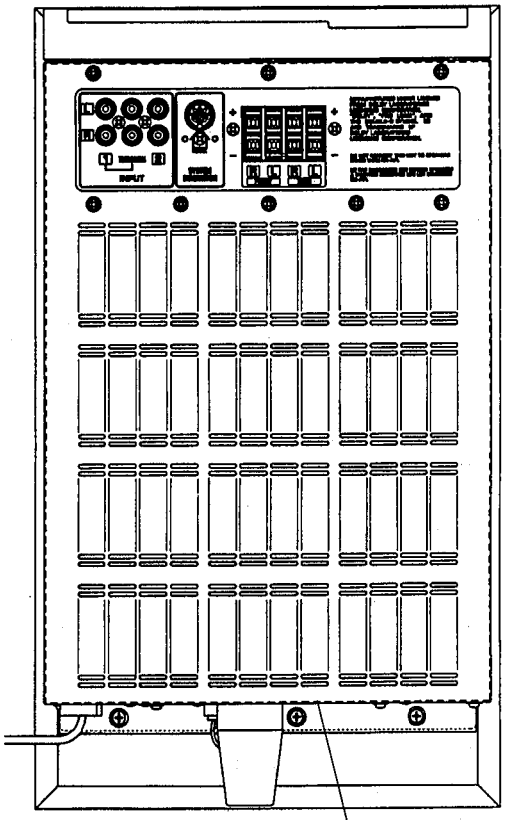
▼ NX-AVS7 Rear



■ REAR PANELS

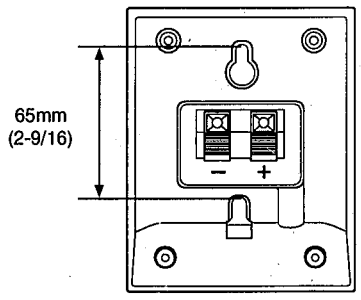
▼ SW-AV1 Rear



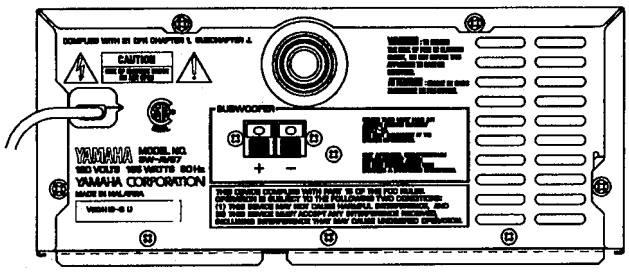


Bottom Panel

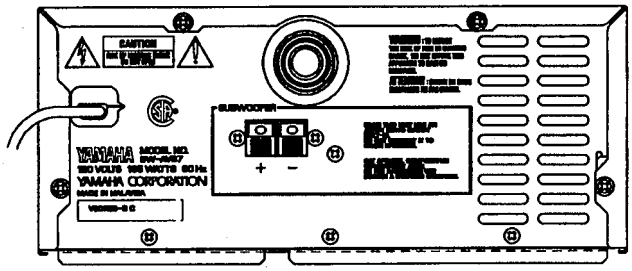
▼ NX-AV1



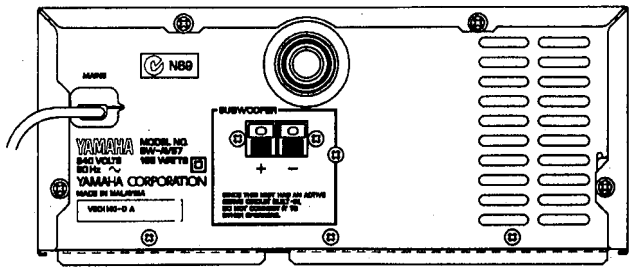
▼ SW-AVS7 U model



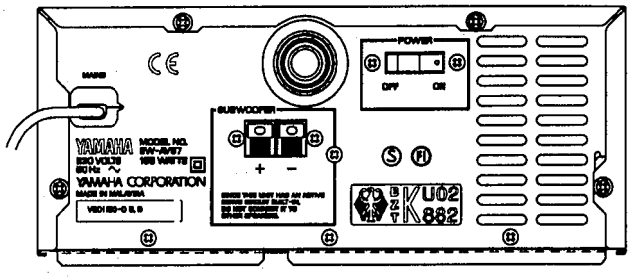
▼ SW-AVS7 C model



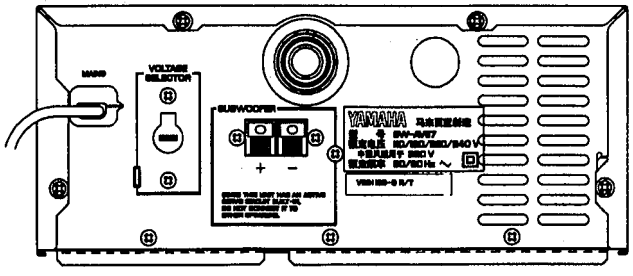
▼ SW-AVS7 A model



▼ SW-AVS7 B, G models



▼ SW-AVS7 R, T models



■ SPECIFICATIONS

■ AMPLIFIER SECTION

Signal to Noise Ratio (IHF-A-Network, AUX, Shorted)
INPUT 1 ..... 85dB
Total Harmonic Distortion (1kHz)
INPUT 1 to Speaker Out, 12.5W/6Ω 0.08%
Minimum RMS Output Power per Channel
Front (1kHz, 10% THD, 6Ω) 30W
Center (1kHz, 10% THD, 6Ω) 30W
Rear (1kHz, 10% THD, 6Ω) 30W
Sub Woofer (100Hz, 10% THD, 4Ω) 50W
DIN Standard Output Power per Channel (G only)
1kHz, 1% THD, 6Ω 25W
IEC Power (G only)
1kHz, 0.1% THD, 6Ω 20W
Input Sensitivity/Impedance
INPUT 1 ..... 100mV/20kΩ

■ NX-AV1 FRONT & REAR SPEAKER SECTION

Type ..... 1-way 1 speaker closed cabinet type (Magnetic-Shielding Type)
Speakers ..... 8cm (3-1/8") cone
Maximum Power Handling Capacity ..... 40W(15.5V)
Impedance 6Ω

■ NX-AVS7 CENTER SPEAKER SECTION

Type ..... 1-way 1 speaker closed cabinet type (Magnetic-Shielding Type)
Speakers ..... 8cm (3-1/8") cone
Maximum Power Handling Capacity ..... 40W(15.5V)
Impedance 6Ω

■ SW-AVS7 SUB WOOFER SPEAKER SECTION

Type ..... 1-way 1 speaker YST-style bass reflex type (Magnetic-Shielding Type)
Speakers ..... 20cm (7-7/8") cone
Maximum Power Handling Capacity ..... 60W(15.5V)
Impedance 4Ω

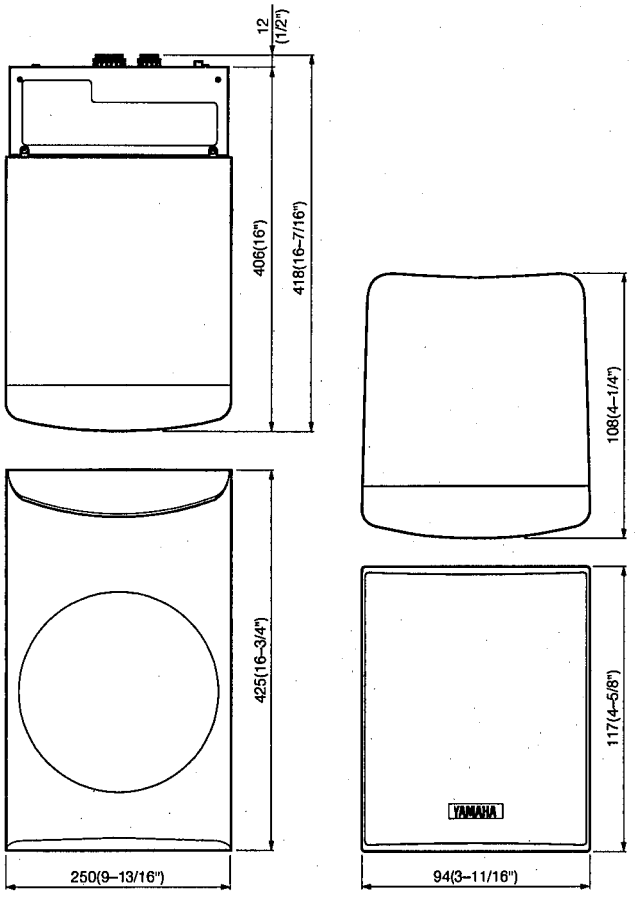
■ GENERAL

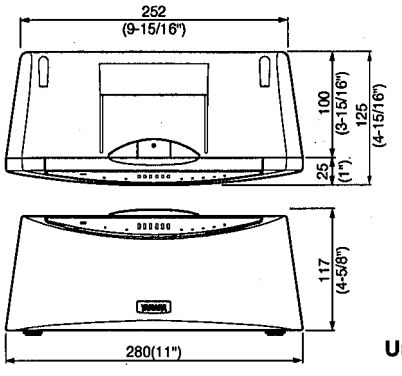
Power Supply
U, C models AC120V, 60Hz
A model AC240V, 50Hz
B, G models AC230V, 50Hz
R, T models AC110/120/220/240V, 60/50Hz
Power Consumption 155W
Dimensions (W X H X D)
SW-AVS7 ..... 250 X425 X 418mm (13-13/16" X 16-3/4" X 16-7/16")
NX-AVS7 ..... 280 X 117 X 125mm (11" X 4-5/8" X 4-15/16")
NX-AV1 ..... 94 X 117 X 108mm (3-11/16" X 4-5/8" X 4-1/4")
Weight
SW-AVS7 ..... 14.5kg (31 lbs. 15 oz)
NX-AVS7 ..... 1.3kg (2 lbs. 13 oz)/each
NX-AV1 ..... 0.7kg (1 lbs. 8 oz)
Accessories ..... System Cord (DIN plug) X 1
Pin Cord (RCA) X 1
Remote Control Transmitter X 1
Battery (size "AA", R06) X 2
Stand Ass'y (front) X 2
Wall Bracket (rear) X 2
Bracket X 4
Fastener Tape X 2
Screw Ass'y X 1
Speaker Cable (15m) X 2
Speaker Cable (6m) X 2

** Specifications subject to change without notice.*

* Manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY", "PRO LOGIC", and the double-D symbol ▯▯ are trademarks of Dolby Laboratories Licensing Corporation.

U** ..... **U.S.A. model
C** ..... **Canadian model
A** ..... **Australian model
B** ..... **British model
G** ..... **European model
R** ..... **General model
T** ..... **China model

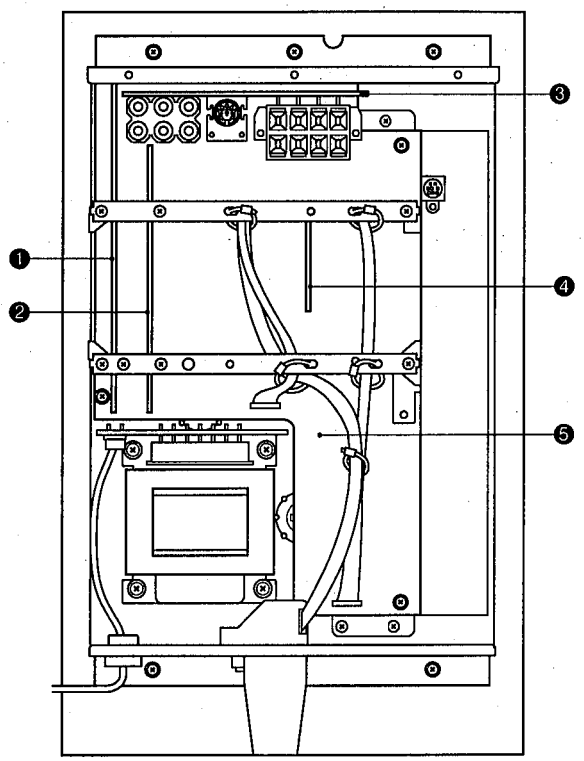




Unit : mm (inch)

■ INTERNAL VIEW

SW-AVS7



❶ P.C.B. DSP
❷ P.C.B. VOLUME (2)
❸ P.C.B. VOLUME (1)
❹ P.C.B. AMP (2)
❺ P.C.B. AMP (1)

■ SW-AVS7 DISASSEMBLY PROCEDURES (Remove parts in the order as numbered.)

1. Removal of Amp Unit

a. Remove the speaker cord in Fig. 1.
b. Remove 4 screws (①) and then remove the Grille Unit in Fig. 1.
c. Remove 6 screws (②) and then remove the Amp Unit in Fig. 1.

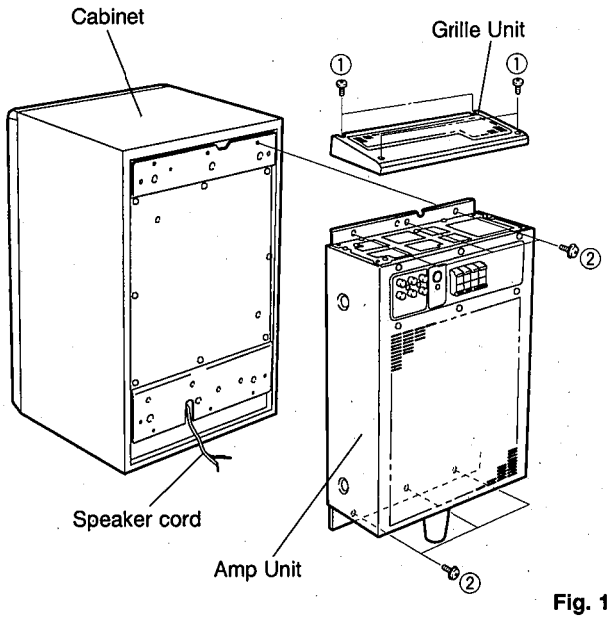


Fig. 1

2. Removal of Top Cover & Rear Panel

a. Remove 18 screws (③) and then remove the Top Cover in Fig. 2.
b. Remove 9 screws (④) and then remove the Rear Panel in Fig. 2.

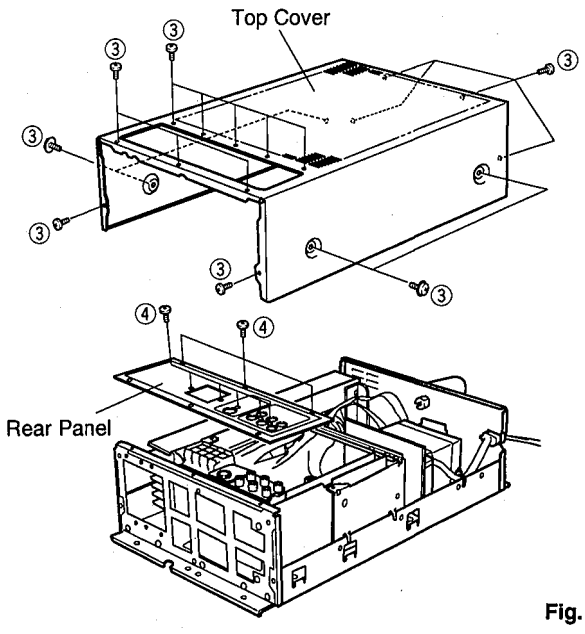


Fig. 2

3. Removal of Grille Ass'y & Top Panel

a. Insert a flat tip screwdriver or the like as shown below and pry up the Grille Ass'y. (Start from the bottom side.) (Fig. 3)

b. Repeat prying it up toward the top panel side until the Grille Ass'y and the Top Panel come off.

The Grille Ass'y is attached with dowels at 6 locations and the Top Panel at 3 locations. When removing them, use care not to cause damage to the main unit.

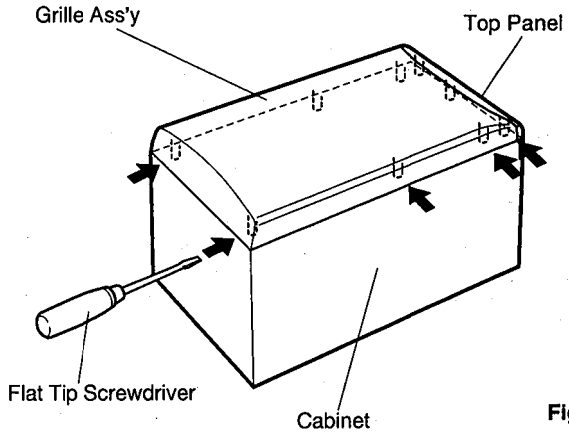


Fig. 3

■ NX-AVS1 DISASSEMBLY PROCEDURES (Remove parts in the order as numbered.)

1. Removal of Rear Panel

Remove 4 screws (⑤) and then remove the Rear Panel in Fig. 4.

2. Removal of Grille Ass'y

a. Using a flat tip screwdriver or the like from the underside, push up the Grille Ass'y as shown in Fig.5.

b. Keep pushing up the Grille Ass'y gradually with a flat tip screwdriver or the like toward the Top Panel until it comes off.

The Grill Ass'y is attached by 4 dowels, be very careful not to cause damage to the main unit when removing it. When installing the Grill Ass'y, apply quick-drying bond to the dowels and then fit them into dowel holes for secure installation. (The Grille Ass'y will come off easily if its dowels are fitted into dowel holes only.)

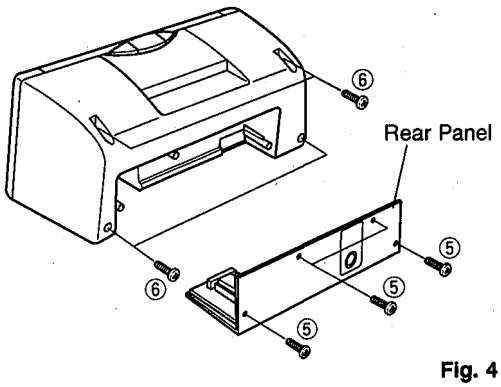


Fig. 4

3. Removal of Baffle

a. Remove 4 screws (⑥) in Fig. 4.

b. Remove 2 screws (⑦) and then remove the Baffle in Fig. 6.

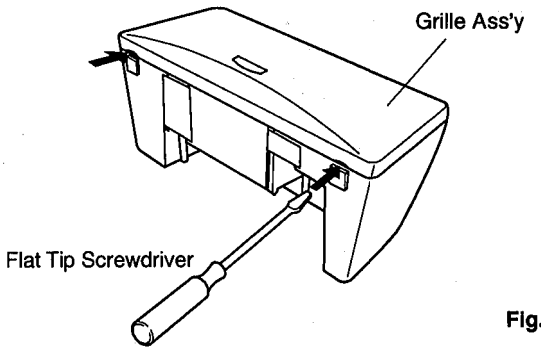


Fig. 5

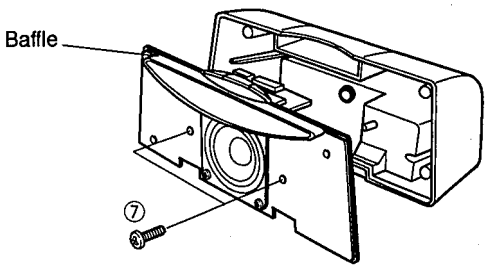


Fig. 6

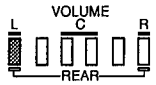
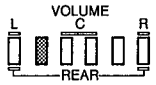
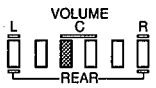
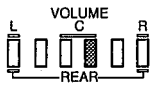
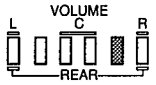
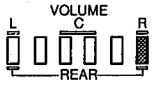
■ TEST PROGRAM FUNCTION SELECT MODE

1. Procedures for starting & operation

With the power turned off, press the POWER (STANDBY/ON)key while pressing the INPUT key and the PROGRAM key of the NX-AVS7 simultaneously. This Initiates the Test Program Function Select mode. Select the test program function No. by using the INPUT keys and then press the POWER key to execute the selected function.

* According to the test program function No., execute the test program mode repeatedly.

2. Content (Function) of the Test Program

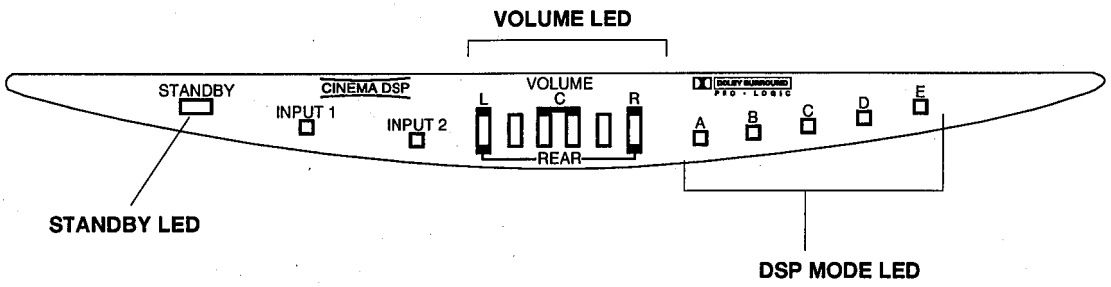
No.	LED display (STANDBY & VOLUME)	Function
01	STANDBY (flashing) + 	Used to check the DSP operation and characteristics. (For more information, refer to the DSP Self-diagnosis Function section on the next page.)
02	STANDBY (flashing) + 	Used to have all LED segments turned on and to clear the memory. All LED segments light up when the POWER key is pressed. When it is pressed again, the STANDBY/INPUT 1/INPUT2 LED segments flash for 2 seconds and the power turns off. (The CPU RAM returns to the initialized state.)
03	STANDBY (flashing) + 	Used to check lighting of all LED segments. All LED segments light up when the POWER key is pressed. When it is pressed again, the power turns off. (Canceled)
04	STANDBY (flashing) + 	All channel output function (used with the DSP mode set to [B : DD PRO LOGIC])
05	STANDBY (flashing) + 	Used to set for VOLUME LED binary display
06	STANDBY (flashing) + 	Used to cancel the test program.

 means that the segment is lit.

CAUTION

Be sure to perform Steps 1 and 2 described at the right before staring the Test Program function No.04.
If started in any DSP mode other than [B : DD PRO LOGIC], no normal level signal will be output from the speaker when checking the function.

1. Apply a signal to INPUT 1 to change INPUT to INPUT 1.
2. Set the DSP mode to [B : DD PRO LOGIC].



■ DSP SELF-DIAGNOSIS FUNCTION (SELF)

This product has a self-diagnosis function (SELF) to facilitate inspection and measurement of DSP.

Procedures for operation and cancellation

1. Set to the Test Program Function Select mode. (For the mode setting procedure, refer to the TEST PROGRAM FUNCTION SELECT MODE section in the previous page.)

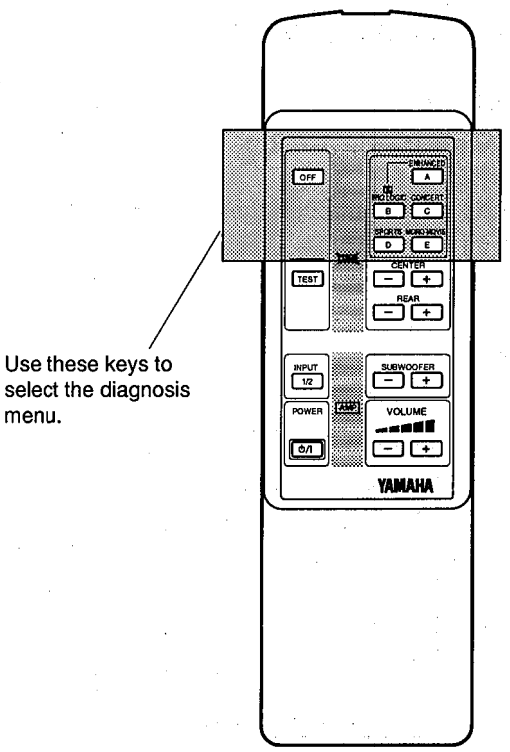
2. Select the Test Program function No.01 and press the POWER key, and the DSP self diagnosis mode (SELF) will be set. The mode setting starts with SELF1.
   - All the DSP MODE LED segments (A ~ E) light up.
   - The function is set to INPUT1. (changeable)
   - The main volume is set to -20dB. (variable)
   - The SUB WOOFER level is set to 0dB. (variable)

3. The diagnosis mode can be set as the table below shows by pressing the DSP PROGRAM keys (A ~ E, OFF) of the remote control unit.

Key	Diagnosis menu (Mode)	VOLUME LED (*1)
A	SELF 1 : RAM THROUGH A	[| · · · · ·]
B	SELF 2 : RAM THROUGH B	[· | · · · ·]
C	SELF 3 : RAM THROUGH C	[· · | · · ·]
OFF	SELF 4 : DSP OFF	[· · · · · ·]
D	SELF 5 : MANUAL TEST	[| | · · · ·] [· · | | · ·] [· · · · | |] [| | · · | |]
E	SELF 6 : PRO LOGIC	[· · · · | ·]

(*1) VOLUME LED (for 5 seconds) quick flashing

4. Turn off the power to cancel the self-diagnosis function (to set back to the normal mode).



Note1) The center mode is NORMAL.
Note2) The electronic /VR (CENTER/REAR) is variable by using the remote control unit.
Note3) Pressing the TEST key on the remote control unit will change the main volume to MIN (∞) directly.

• Main volume range (Refer to page 46.)

Note : Due to modification of specifications for the main volume microprocessor, the VOLUME LED lighting pattern of the main volume after modification differs from before modification.

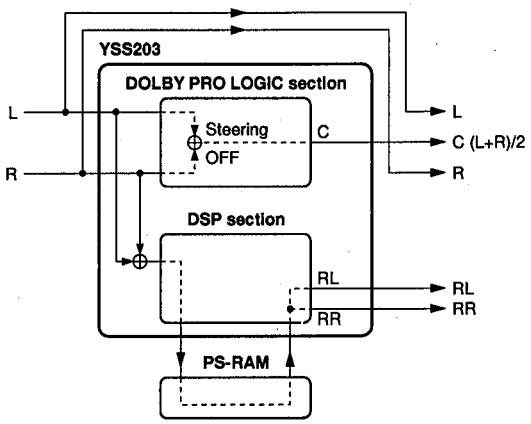
• SUBWOOFER/CENTER/REAR level range

VOLUME LED	dB	VOLUME LED	dB
[· · · | | |]	+10	[· · | | · ·]	-6
[· · · | | |]	+9	[· | | | · ·]	-7
[· · · | | |]	+8	[· | | | · ·]	-8
[· · · | | |]	+7	[· | | | · ·]	-9
[· · · | | |]	+6	[· | | | · ·]	-10
[· · · | | ·]	+5	[· | | | · ·]	-11
[· · · | | ·]	+4	[· | | | · ·]	-12
[· · · | | ·]	+3	[· | | | · ·]	-13
[· · · | | ·]	+2	[| | | | · ·]	-14
[· · · | | ·]	+1	[| | | | · ·]	-15
[· · · | · ·]	±0	[| | | | · ·]	-16
[· · | | · ·]	-1	[| | | | · ·]	-17
[· · | | · ·]	-2	[| | | | · ·]	-18
[· · | | · ·]	-3	[| | | | · ·]	-19
[· · | | · ·]	-4	[| | | | · ·]	-20
[· · | | · ·]	-5		

DETAILS OF SELF CONTENT

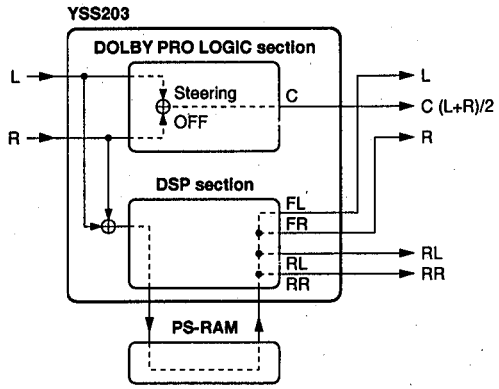
SELF 1 RAM THROUGH A

- MAIN L/R is output through the bypass.
- CENTER is output with the steering OFF and by (L+R)/2.
- RL/RR passes through the PS-RAM and is output through the DSP.
- The electronic volume (for CENTER/REAR) is 0dB.



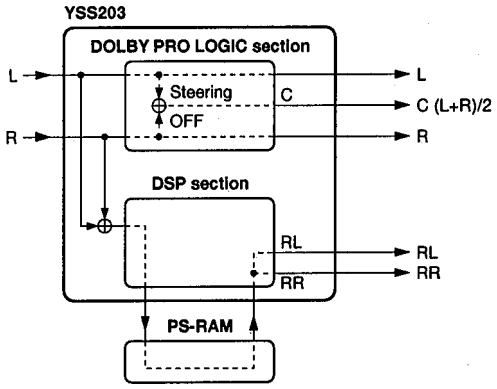
SELF 2 RAM THROUGH B

- L/R and RL/RR pass through the PS-RAM and are output through the DSP.
- CENTER is output with the steering OFF and by (L+R)/2.
- The electronic volume (for CENTER/REAR) is -10dB.



SELF 3 RAM THROUGH C

- L/R is output with the steering OFF.
- CENTER is output with the steering OFF and by (L+R)/2.
- RL/RR passes through the PS-RAM and is output through the DSP.
- The electronic volume (for CENTER/REAR) is +10dB.



SELF 4 DSP OFF

- EFFECT OFF.

SELF 5 MANUAL TEST

- Every time **D** key is pressed, the TEST TONE shifts in the order of L→C→R→S and is output.

```
[| | · · · ·] ..... L
[· · | | · ·] ..... C
[· · · · | |] ..... R
[| | · · | |] ..... S
```

VOLUME LED

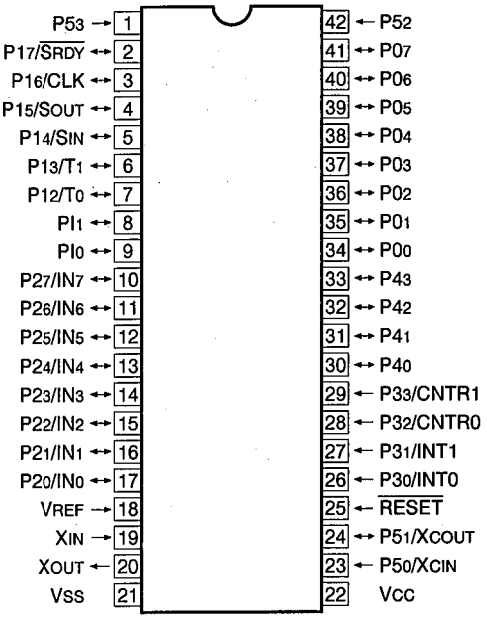
- The electronic volume (for CENTER/REAR) is 0dB.

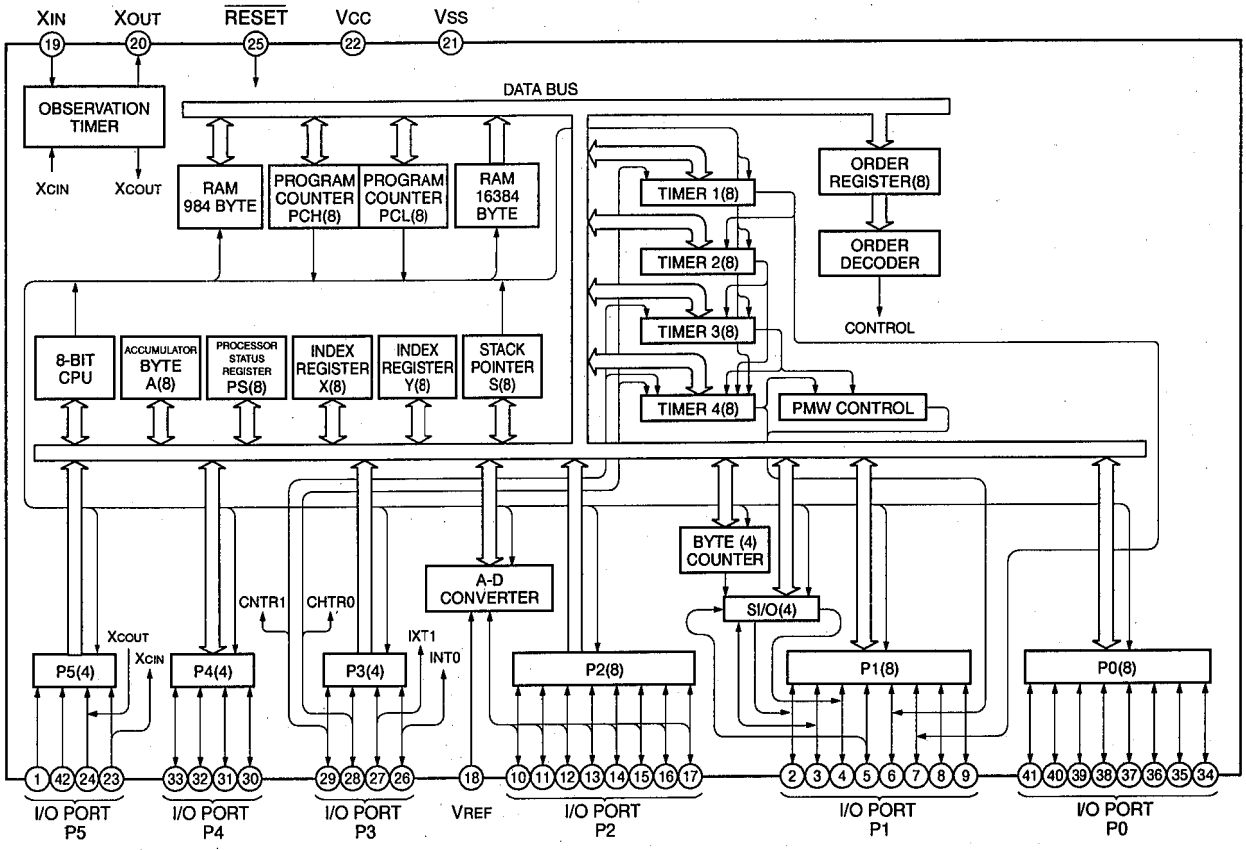
SELF 6 DOLBY PRO LOGIC

- The auto input balance which is ON in the normal mode is turned OFF.
- The electronic volume (for CENTER/REAR) is 0dB.

■ NX-AVS7 IC DATA

IC1 : M37471M4-XXXSP (XU723A0 or XU723B0)
8 bit μ-COM





IC1 : M37471M4-XXXSP (XU723A0 or XU723B0)
8 bit μ-COM

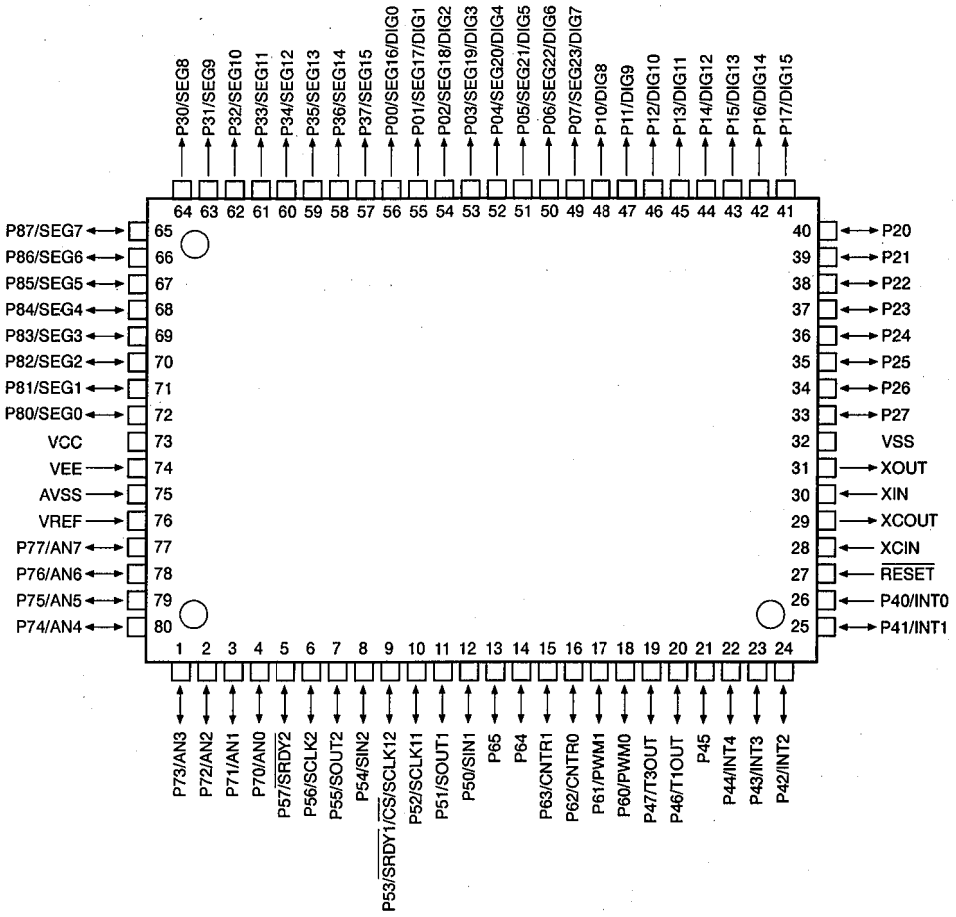
No.	Port	Name	I/O	Function	
1	P53		I		(pull-down through resistor GND)
2	P17	CE OUT	O	DSP CPU CE OUT	[0 : DATA trnsfer]
3	P16	CLK OUT	O	DSP CPU CLK OUT	[CMOS]
4	P15	DATA OUT	O	DSP CPU DATA OUT	[CMOS]
5	P14	L-M MOVI	O	LED OUT MONO MOVIE	[1 : LED ON]
6	P13	L-SPORT	O	LED OUT SPORT	[1 : LED ON]
7	P12	L-CNCERT	O	LED OUT CONCERT	[1 : LED ON]
8	P11	L-ENHNCD	O	LED OUT □□ PRO LOGIC ENHANCED	[1 : LED ON]
9	P10	L-PLOGIC	O	LED OUT □□ PRO LOGIC	[1 : LED ON]
10	P27	INP SEL	O	INPUT SELECT OUT	[0 : VIDEO-1, 1 : VIDEO-2]
11	P26				(pull-down through resistor GND)
12	P25				(pull-down through resistor GND)
13	P24				(pull-down through resistor GND)
14	P23	MODEL	I		(pull-up through 10kΩ VREF)
15	P22	DEST	I		(pull-up through 10kΩ VREF)
16	P21	KEY 1	I	KEY 1 in	(pull-up through 10kΩ VREF)
17	P20	KEY 0	I	KEY 0 in	(pull-up through 10kΩ VREF)
18	VREF	VREF		A/D reference voltage in	[+ 5V]
19	XIN	XIN		8MHz IN	
20	XOUT	XOUT		8MHz OUT	
21	VSS	GND		GND	
22	VCC	VCC		+ 5V	
23	P50		I		(pull-down through resistor GND)
24	P51		I		(pull-down through resistor GND)
25	RES	RESET		RESET	[0 : RESET]
26	P30	AC-IN	I	Power down AC pulse in	[50/60Hz]
27	P31	REM-IN	I	Remote control in	
28	P32		I		(pull-down through resistor GND)
29	P33		I		(pull-down through resistor GND)
30	P40	L-STNDBY	O	LED OUT STANDBY	[1 : LED ON]
31	P41	L-INPUT1	O	LED OUT VIDEO-1	[1 : LED ON]
32	P42	L-INPUT2	O	LED OUT VIDEO-2	[1 : LED ON]
33	P43				(pull-down through resistor GND)
34	P00	L-VOLM 0	O	LED OUT VOLUME 0 [| · · · · ·]	[1 : LED ON]
35	P01	L-VOLM 1	O	LED OUT VOLUME 1 [· | · · · ·]	[1 : LED ON]
36	P02	L-VOLM 2	O	LED OUT VOLUME 2 [· · | · · ·]	[1 : LED ON]
37	P03	L-VOLM 3	O	LED OUT VOLUME 3 [· · · | · ·]	[1 : LED ON]
38	P04	L-VOLM 4	O	LED OUT VOLUME 4 [· · · · | ·]	[1 : LED ON]
39	P05	L-VOLM 5	O	LED OUT VOLUME 5 [· · · · · |]	[1 : LED ON]
40	P06				(pull-down through resistor GND)
41	P07				(pull-down through resistor GND)
42	P52		I		(pull-down through resistor GND)

● KEY INPUT (A-D) PULL-UP RESISTOR 10kΩ

Ω	0	+2k	+1.8k	+2.4k	+3.9k	+5.6k	+10k	+24k
KEY 0 (17pin)	POWER	PROGRAM	NO KEY	NO KEY	NO KEY	NO KEY	NO KEY	NO KEY
KEY 1 (16pin)	INPUT	NO KEY	NO KEY	NO KEY	NO KEY	NO KEY	NO KEY	NO KEY

■ SW-AVS7 IC DATA

IC413 : M38172M4-195FP
8 bit μ-COM

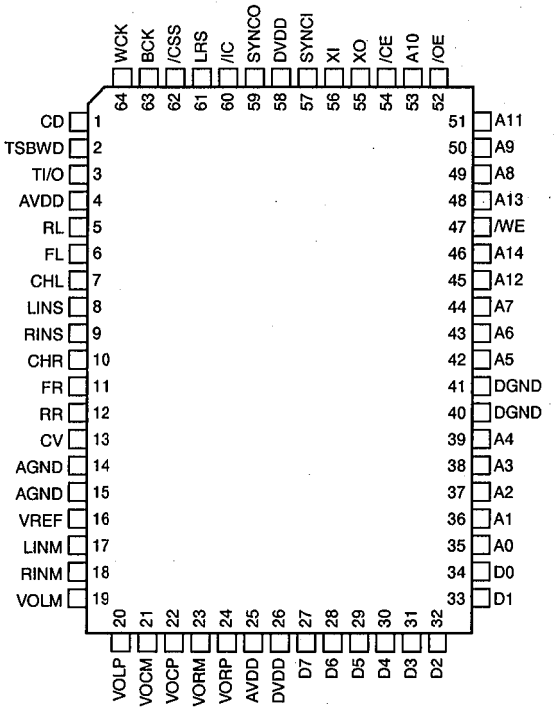


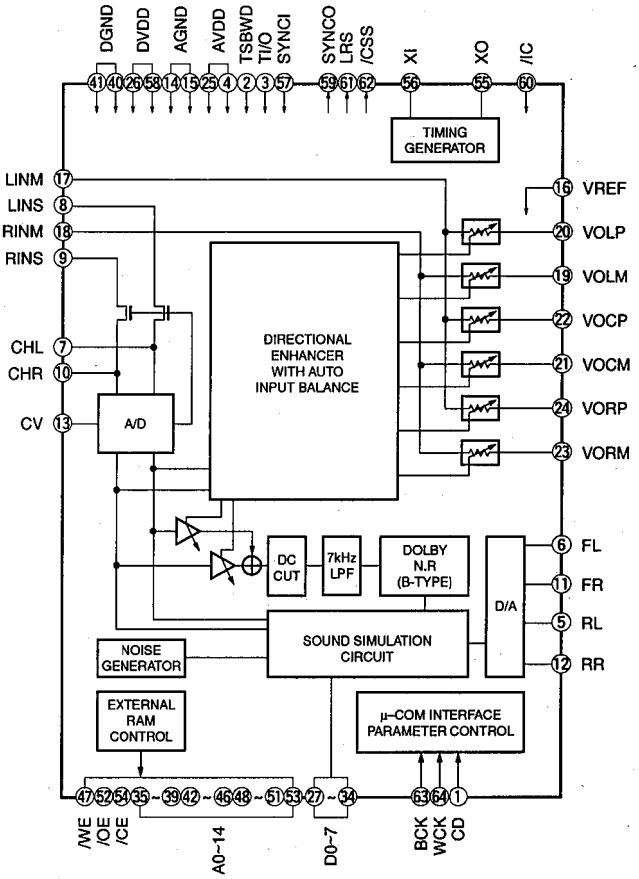
No.	Port	Name	Function	
1	P73	SELCE	LC78213 CE OUT	
2	P72	DVRCE	Electric controlled volume (DSP) CE OUT	[1 : DATA transfer]
3	P71	MVRCE	Electric controlled volume (LC7536) CE OUT	[1 : DATA transfer]
4	P70	DSPCE	DSP (YSS203) CE OUT	[1 : DATA transfer]
5	P57		(pull-down through resistor GND)	
6	P56	DSPCLK	YSS203/LC7536 CLK OUT	(Serial I/O2)
7	P55	DSPDAT	YSS203/LC7536 DATA OUT	(Serial I/O2)
8	P54		(pull-down through resistor GND)	(Serial I/O2)
9	P53	SYSCE	Control data CE IN	
10	P52	SYSCLK	Control data CLK IN	(Serial I/O1)
11	P51		(pull-down through resistor GND)	(Serial I/O1)
12	P50	SYSDAT	Control data DATA IN	(Serial I/O1)
13	P65	PREMUT	PRE MUTE	
14	P64	SWMUT	SUBWOOFER MUTE	
15	P63	PWRON	POWER ON	
16	P62	SPRY	SPEAKER RELAY	
17	P61	PWRRY	POWER RELAY	
18	P60		(pull-down through resistor GND)	
19	P47		(pull-down through resistor GND)	
20	P46		(pull-down through resistor GND)	
21	P45		(pull-down through resistor GND)	
22	P44		(pull-down through resistor GND)	
23	P43		(pull-down through resistor GND)	
24	P42		(pull-down through resistor GND)	
25	P41		(pull-down through resistor GND)	

IC413 : M38172M4-195FP
8 bit μ-COM

No.	Port	Name	Function		
26	P40	ACDTC	Power down AC pulse IN		
27	RES	RESET	RESET		
28	XCIN		GND	(Sub clock)	
29	XCOUT	NC	Open	(Sub clock)	
30	XIN	XIN	6.3 MHz IN	(Main clock)	
31	XOUT	XOUT	6.3 MHz OUT	(Main clock)	
32	VSS	O-GNG	GND		
33	P27	EX7		(Extension-7)	(Not used)
34	P26	EX6		(Extension-6)	(Not used)
35	P25	EX5		(Extension-5)	(Not used)
36	P24	EX4		(Extension-4)	(Not used)
37	P23	EX3		(Extension-3)	(Not used)
38	P22	EX2		(Extension-2)	(Not used)
39	P21	EX1		(Extension-1)	(Not used)
40	P20	EX0		(Extension-0)	(Not used)
41	P17	NC	Open		
42	P16	NC	Open		
43	P15	NC	Open		
44	P14	NC	Open		
45	P13	NC	Open		
46	P12	NC	Open		
47	P11	NC	Open		
48	P10	NC	Open		
49	P07	NC	Open		
50	P06	NC	Open		
51	P05	NC	Open		
52	P04	NC	Open		
53	P03	NC	Open		
54	P02	NC	Open		
55	P01	NC	Open		
56	P00	NC	Open		
57	P37	NC	Open		
58	P36	NC	Open		
59	P35	NC	Open		
60	P34	NC	Open		
61	P33	NC	Open		
62	P32	NC	Open		
63	P31	NC	Open		
64	P30	NC	Open		
65	P87		(pull-down through resistor GND)		
66	P86		(pull-down through resistor GND)		
67	P85		(pull-down through resistor GND)		
68	P84		(pull-down through resistor GND)		
69	P83		(pull-down through resistor GND)		
70	P82		(pull-down through resistor GND)		
71	P81		(pull-down through resistor GND)		
72	P80	PROTEC	PROTECTION		
73	VCC	5V	+5V		
74	VEE		GND		
75	AVSS		GND		
76	VREF		GND		
77	P77		(pull-down through resistor GND)	(A-D)	
78	P76		(pull-down through resistor GND)	(A-D)	
79	P75		(pull-down through resistor GND)	(A-D)	
80	P74		(pull-down through resistor GND)	(A-D)	

IC416 : YSS203B
Digital Dolby Pro Logic Decoder with Auto Input Balance





No.	Name	I/O	Function
1	CD	Its	Serial data of parameter data input
2	TSBWD	Ic	LSI test terminal Normally connected to DVDD terminal
3	TI/O	Ic	LSI test terminal Normally connected to DVDD terminal
4	AVDD	A—	+5V power supply (D/A, A/D section)
5	RL	AO	RL channel D/A output
6	FL	AO	FL channel D/A output
7	CHL	A—	LINS input Sample/hold Capacitor external terminal
8	LINS	AI	L channel A/D input
9	RINS	AI	R channel A/D input
10	CHR	A—	RINS input Sample/hold Capacitor external terminal
11	FR	AO	FR channel D/A output
12	RR	AO	RR channel D/A output
13	CV	AO	A/D, multiplying DAC center voltage
14	AGND	A—	Ground (D/A, A/D section)
15	AGND	A—	Ground (Multiplying DAC section)
16	VREF	AI	Multiplying DAC reference voltage input
17	LINM	AI	L channel Multiplying DAC input
18	RINM	AI	R channel Multiplying DAC input
19	VOLM	AO	L channel operation amplifier, connected to (–) terminal
20	VOLP	AO	L channel operation amplifier, connected to (+) terminal

IC416 : YSS203B
Digital Dolby Pro Logic Decoder with Auto Input Balance

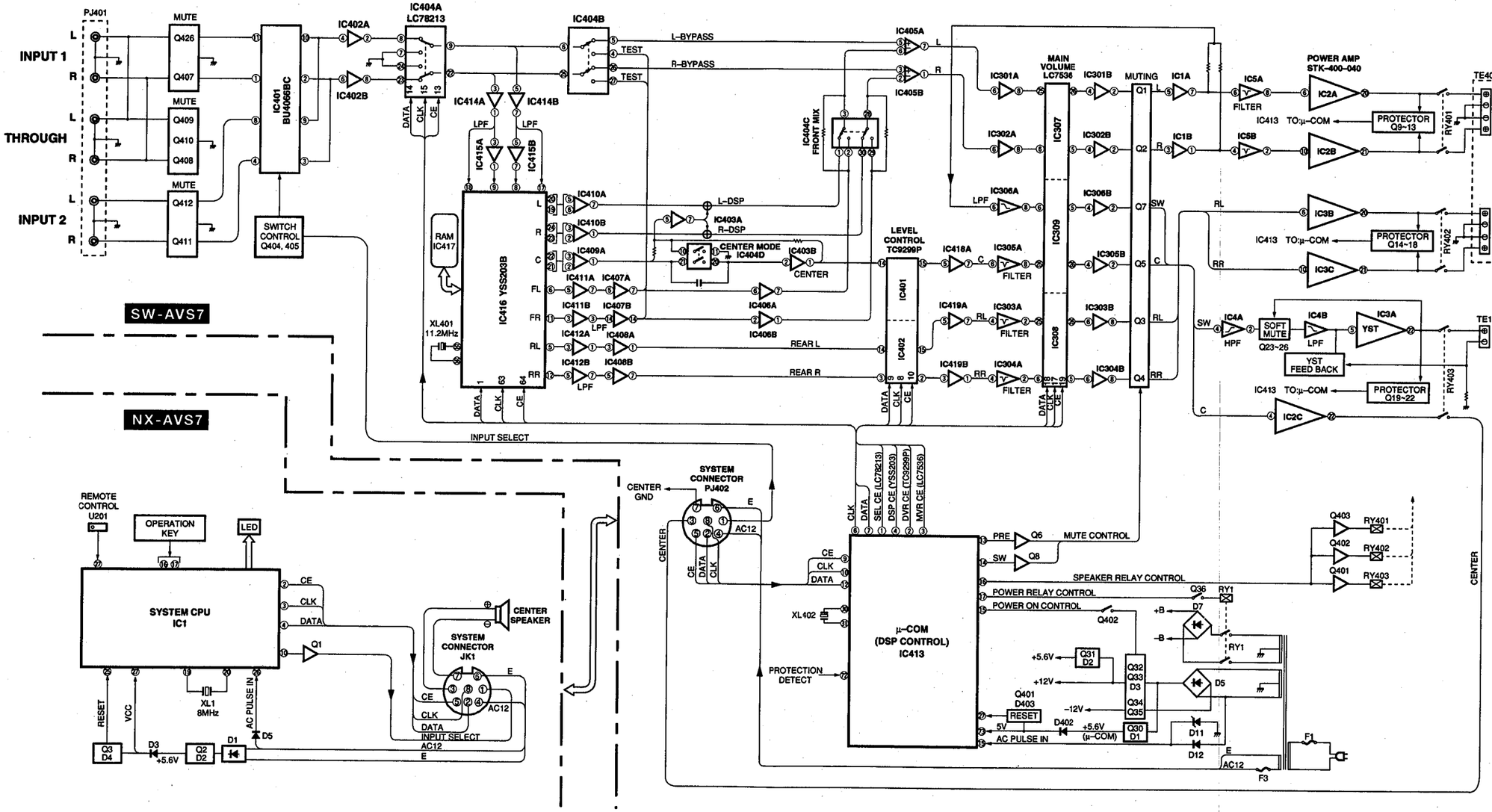
No.	Name	I/O	Function
21	VOCM	AO	C channel operation amplifier, connected to (–) terminal
22	VOCP	AO	C channel operation amplifier, connected to (+) terminal
23	VORM	AO	R channel operation amplifier, connected to (–) terminal
24	VORP	AO	R channel operation amplifier, connected to (+) terminal
25	AVDD	A—	+5V power supply (multiplying DAC section)
26	DVDD	—	+5V power supply (digital section)
27	D7	I/Ot	External delay RAM data terminal
28	D6	I/Ot	External delay RAM data terminal
29	D5	I/Ot	External delay RAM data terminal
30	D4	I/Ot	External delay RAM data terminal
31	D3	I/Ot	External delay RAM data terminal
32	D2	I/Ot	External delay RAM data terminal
33	D1	I/Ot	External delay RAM data terminal
34	D0	I/Ot	External delay RAM data terminal
35	A0	O	External data RAM address terminal
36	A1	O	External data RAM address terminal
37	A2	O	External data RAM address terminal
38	A3	O	External data RAM address terminal
39	A4	O	External data RAM address terminal
40	DGND	—	Ground (digital section)
41	DGND	—	Ground (digital section)
42	A5	O	External data RAM address terminal
43	A6	O	External data RAM address terminal
44	A7	O	External data RAM address terminal
45	A12	O	External data RAM address terminal
46	A14	O	External data RAM address terminal
47	/WE	O	External delay RAM write enable terminal
48	A13	O	External dalay RAM address terminal
49	A8	O	External dalay RAM address terminal
50	A9	O	External dalay RAM address terminal
51	A11	O	External dalay RAM address terminal
52	/OE	O	External dalay RAM output enable terminal
53	A10	O	External dalay RAM address terminal
54	/CE	O	External delay RAM chip enable terminal
55	XO	O	Crystal oscillator connecting terminal
56	XI	I	Crystal oscillator connecting terminal
57	SYNCI	It	Test terminal for system synchronization, normally connected to DVDD
58	DVDD	—	+5V power supply (digital section)
59	SYNCO	O	Test terminal for system synchronization, normally unconnected
60	/IC	Ics	Initial clear terminal (Power ON resetting is necessary)
61	LRS	O	External automatic input balance terminal, normally unconnected
62	/CSS	O	External automatic input balance terminal, normally unconnected
63	BCK	Its	Bit clock for parameter data input
64	WCK	Its	Word clock for parameter data input

Note : Letters used in the above I/O column represent as follows.

I : Input terminal **O** : Output terminal **t** : TTL level

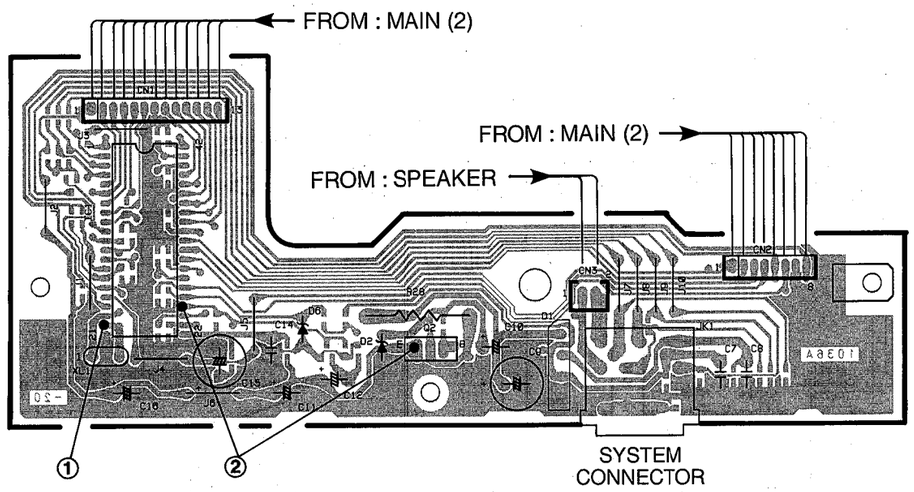
c : CMOS level **s** : Schmidt input **A** : Analog terminal

■ BLOCK DIAGRAM／ブロックダイアグラム

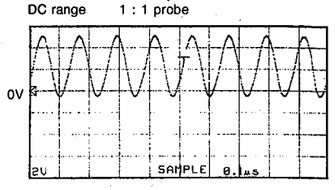


■ NX-AVS7 PRINTED CIRCUIT BOARD／シート図

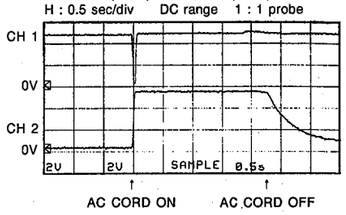
P. C. B. MAIN (1) (Component side)



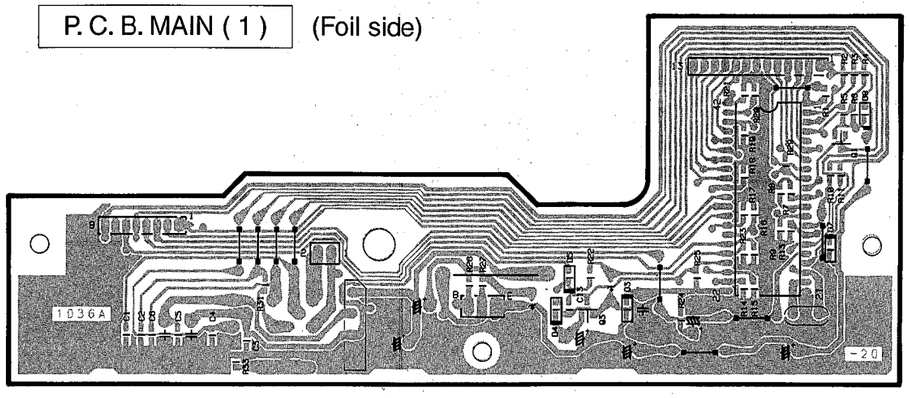
Point ① (Pin20 of IC1)
V : 2V/div H : 0.1 μsec/div
DC range 1 : 1 probe



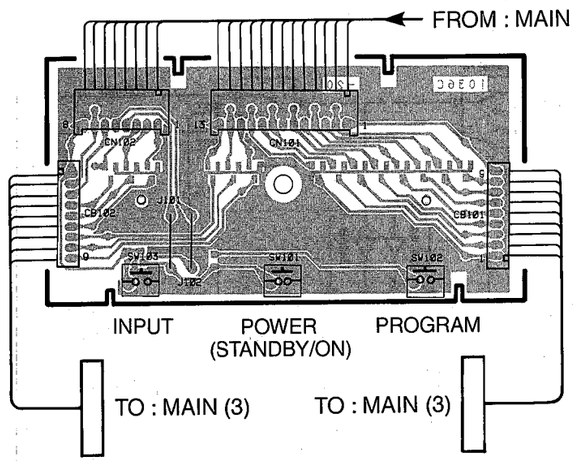
Point ②
(CH 1 : Pin25 of IC1 CH 2 : Emitter of Q2)
V : 2V/div (CH 1) V : 2V/div (CH 2)
H : 0.5 sec/div DC range 1 : 1 probe



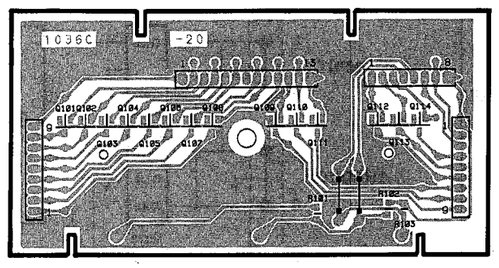
P. C. B. MAIN (1) (Foil side)



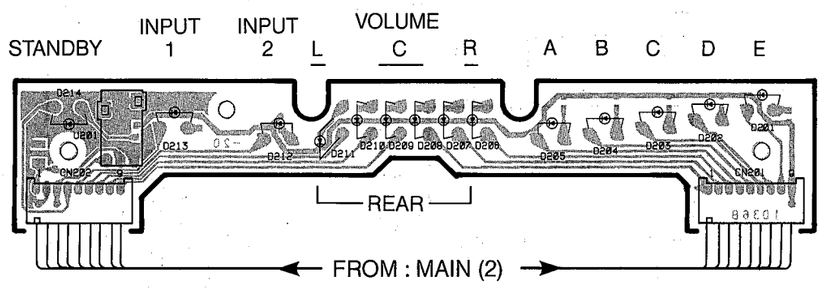
P. C. B. MAIN (2) (Component side)



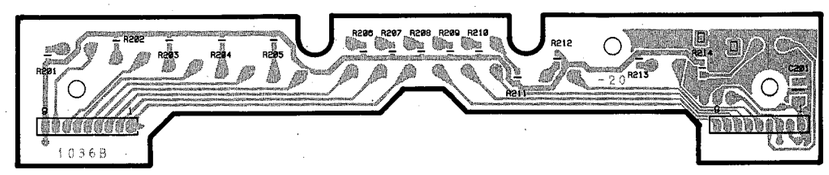
P. C. B. MAIN (2) (Foil side)



P. C. B. MAIN (3) (Component side)



P. C. B. MAIN (3) (Foil side)

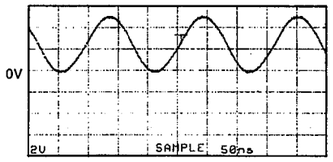


■ SW-AVS7 PRINTED CIRCUIT BOARD (Foil side)／シート図（パターン側）

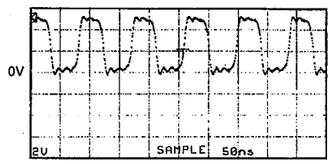
Precaution for IC418
When replacing the IC418, be sure to cut the No.1 pin of the new IC418 (μPD4570G2) first.

IC418の注意
IC418を交換する際、新しいIC418(μPD4570G2)の1番ピンを必ずリードカットして取り付けてください。

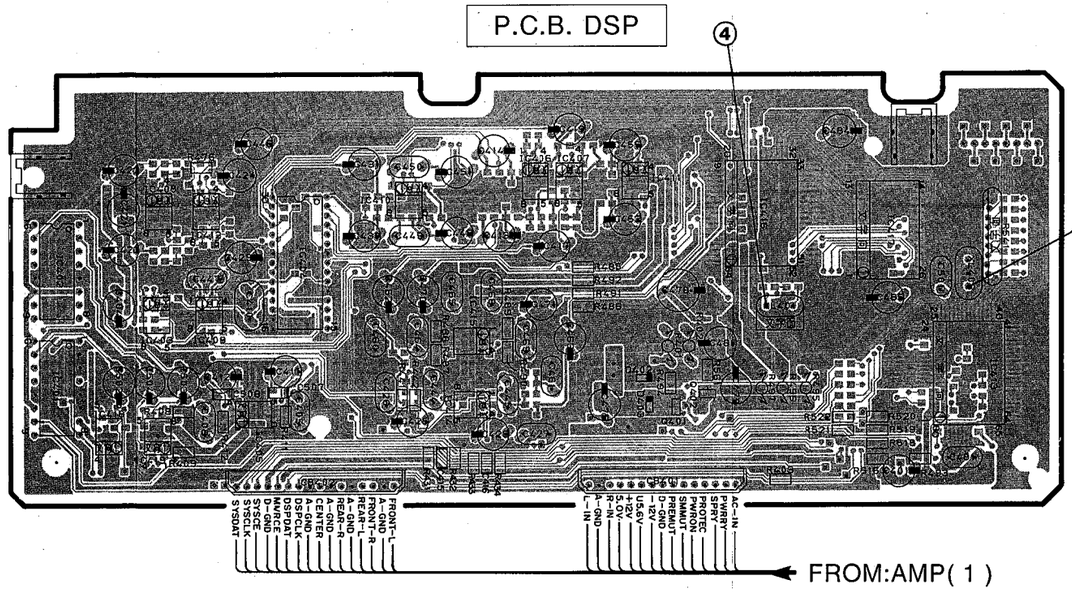
Point ③ (Pin31 of IC413)
V : 2V/div　　H : 50 nsec/div
DC range　　1 : 1 probe



Point ④ (Pin55 of IC416)
V : 2V/div　　H : 50 nsec/div
DC range　　1 : 1 probe

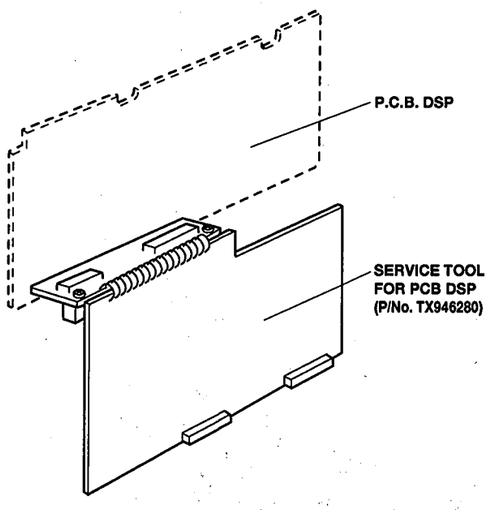


P.C.B. DSP

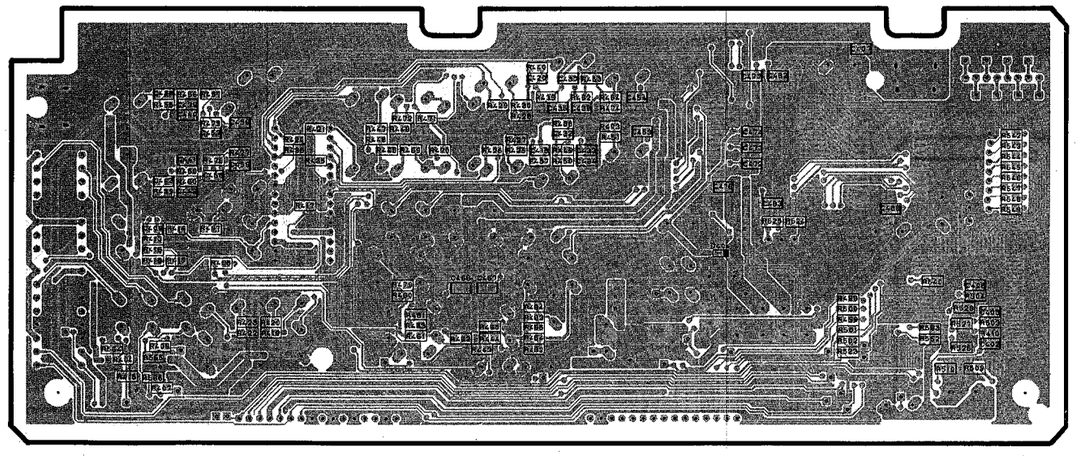


• SERVICE TOOL FOR PCB DSP (P/No. TX946280)
Shown below is the Service Tool (additional PCB) used for operation check of P.C.B. DSP.

・サービス治具 (P/No. TX946280)
P.C.B. DSPの動作チェック用に下図の治具（延長基板）があります。



P.C.B. DSP



■ SW-AVS7 PRINTED CIRCUIT BOARD (Foil side)／シート図（パターン側）

P.C.B. AMP (1)

FROM:VOLUME(1)

FROM:DSP

FROM:VOLUME(2)

TO:VOLUME(1)

TO:AMP(4)

LI
A, B, G only

TO:VOLUME(1)

FROM:AMP(2)

A, B, G only

P.C.B. AMP (2)

FROM:AMP(1)

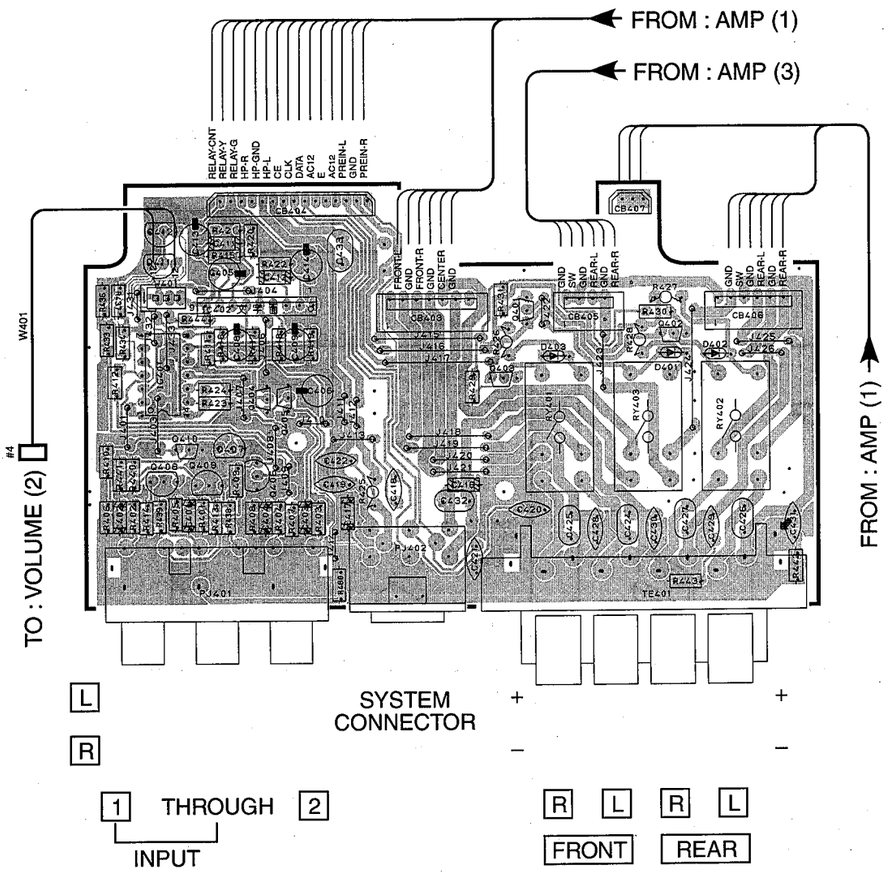
P.C.B. AMP (3)

TO:VOLUME(1)

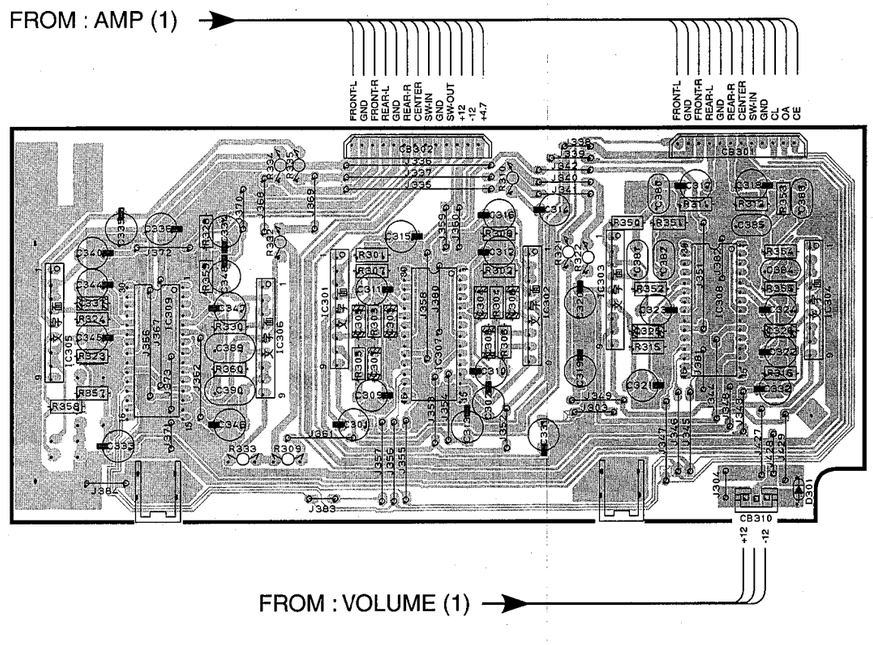
SUBWOOFER

■ SW-AVS7 PRINTED CIRCUIT BOARD (Foil side)／シート図（パターン側）

P. C. B. VOLUME (1)

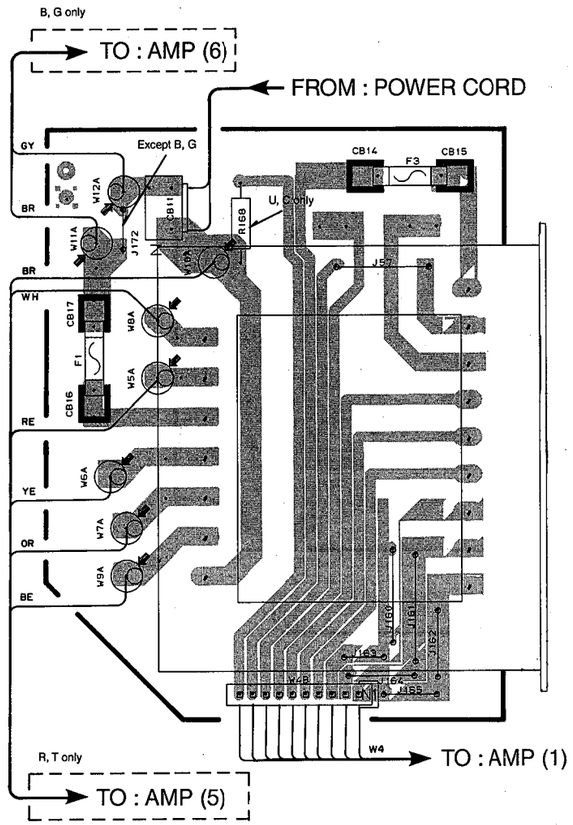


P. C. B. VOLUME (2)



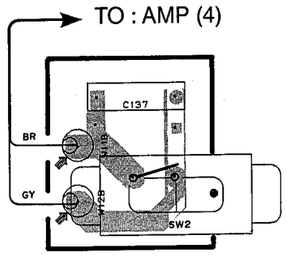
■ SW-AVS7 PRINTED CIRCUIT BOARD (Foil side)／シート図（パターン側）

P. C. B. AMP (4)



● B, G only

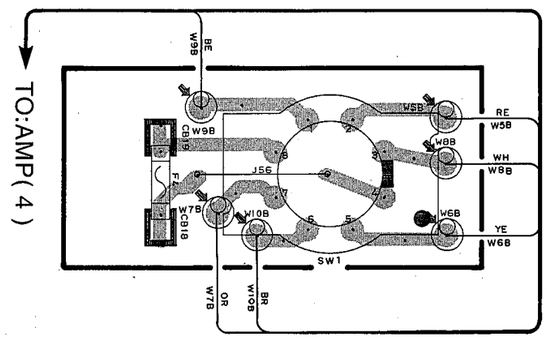
P. C. B. AMP (6)



POWER

● R, T only

P.C.B. AMP (5)



SW1	
110V	1–2/5–6
120V	2–3/6–7
240V	3–4/7–8
220V	4–5/8–1

VOLTAGE SELECTOR

■ PIN CONNECTION DIAGRAM／半導体外形図

● ICs

BA15218N	µPC4570HA	STK400-040	BU4066BC	TC9299P	LC7536-Y LC78213
NJM4558MT-1 NJM2068MD-T1 µPC4570G2	LH5P832N-20	YSS203B	M38172M4-195FP	M37471M	

● Diodes

1SS355 1SS380	1SS133 1SR139-400 MTZJ5.1A MTZJ5.1B MTZJ13.0B MTZJ6.2C MTZJ6.2B
S1VB20	RBV-602

● Transistors

2SA933S (Q, R) 2SC1740S (R, S) DTA114ES DTA144ES DTC144ES	DTC144EK	2SK105 (F, H)
2SA970 (GR, BL) 2SC2240 (GR, BL) 2SC2878 (A, B) 2SC4208A (Q, R, S)	2SB1565 (E, F) 2SC4495 2SD2396 (J, K)	

■ SW-AVS7 (AMP & VOLUME) SCHEMATIC DIAGRAM／総回路図

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
◇	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
◎	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
◇	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
◉	CERAMIC TUBULAR CAPACITOR
○	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
ⓜ	MICA CAPACITOR
ⓟ	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

NOTICE (model)
(J)..... JAPANESE
(U)..... U.S.A
(C)..... CANADIAN
(A)..... GENERAL
(A)..... AUSTRALIAN
(B)..... BRITISH
(G)..... EUROPEAN
(T)..... CHINA
(L)..... SINGAPORE

IC1 : B15218L
Dual OP-Amp

IC4, 5, 301~306, 402 : μPC4570HA
Dual OP-Amp

IC307~309 : LC7536-Y
Electric Controlled Volume

IC401 : BU4066BC
Quad Analog Switch/Multiplexer

IC2, 3 : STK400-040
3 Channel AF Power Amp

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
▲1	D4-6-9-10-12-13-22	HSS104
	301-401-403	1SS133
		1SS176

CIRCUIT CHANGES BY MARKET. X : NOT USED

		J	U	C	A-T	A	B-G
1	R168	X	1/2W2.2M	X	X	X	X
2	F1	4A125V VSB2250	4A125V VSB2250	4A125V VSB2250	T4AL250V K800078	T1.25AL250V K800068	T1.25AL250V K800068
3	F3	1.25AL125V VSB2230	1.25AL125V VSB2230	1.25AL125V VSB2230	T1AL250V K800177	T1AL250V K800177	T1AL250V K800177
4	T1	XSB22	XSB23	XSB25	XSB24	XSB25	XSB26
5	SW1	X	X	X	YA95180	X	X
6	F4	X	X	X	T1.25AL250V K800068	X	X
7	C130~132	X	X	X	X	100P	100P
8	CB23	X	X	X	X	VLB4540	VLB4540
9	W4	YZ08810	YZ08810	YZ08810	YZ08810	YZ50200	YZ50200
10	RY1	YV27250	YV27250	YZ51730	YV27250	YV27260	YV27260

* All voltages are measured with a 10MΩ/V DC electric volt meter.
* Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

● 電圧は、内部抵抗10MΩの電圧計で測定したものです。
● ⚠印のある部品は、安全性確保部分を示しています。部品の交換が必要な場合、パーツリストに記載されている部品を使用してください。
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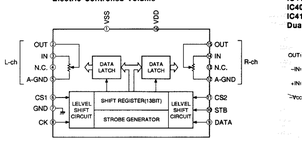
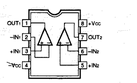
■ SW-AVS7 (DSP)/NX-AVS7 SCHEMATIC DIAGRAM／総回路図

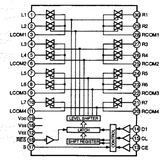
IC401, 402 : TC9299P
Electric Controlled Volume



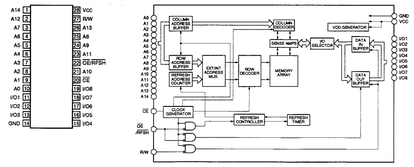
IC403, 406~410 : μPC4570G2
IC414, 415, 418, 419 : μPC4570G2
IC405 : NJM2068MD-T1
IC411, 412 : NJM4558MT-1
Dual OP Amp

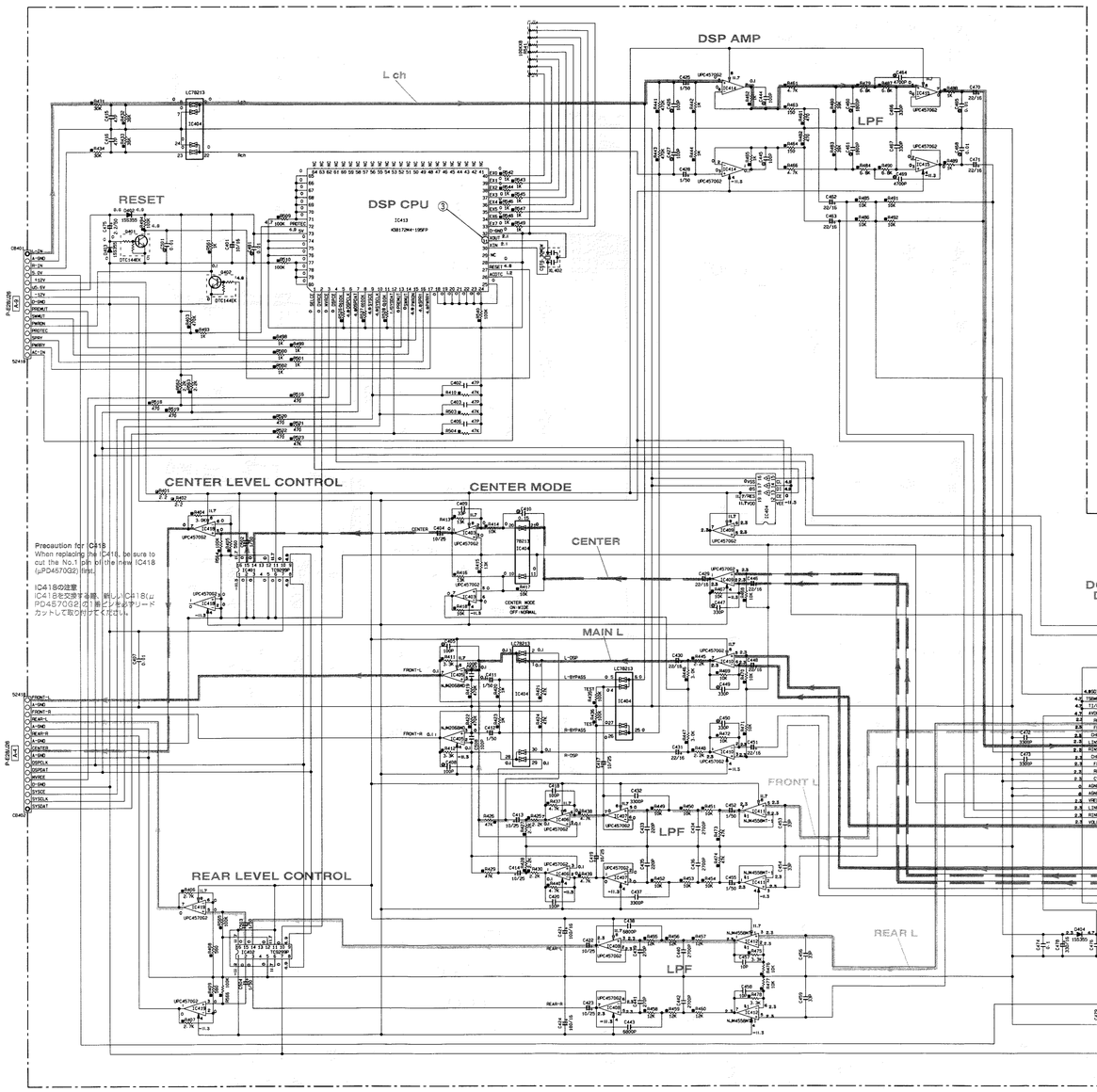


IC404 : LC78213
Analog Function Switch



IC417 : LH5P832N-10
32768-word x 8 bit High Speed Pseudo Static RAM





RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
☑	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
◇	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
◇	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

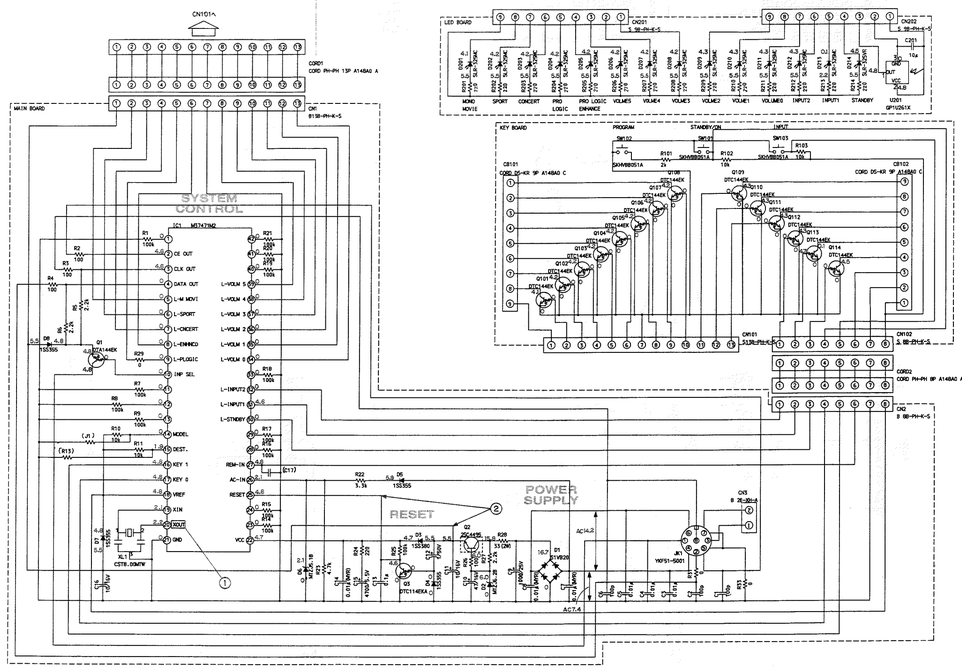
CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⫴
◎	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	
◉	CERAMIC TUBULAR CAPACITOR	
◎	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	‖
○	MICA CAPACITOR	
◎	POLYPROPYLENE FILM CAPACITOR	
●	SEMICONDUCTIVE CERAMIC CAPACITOR	

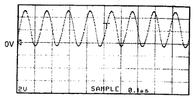
NOTICE (model)
(J)..... JAPANESE
(U)..... U.S.A
(C)..... CANADIAN
(R)..... GENERAL
(A)..... AUSTRALIAN
(B)..... BRITISH
(G)..... EUROPEAN
(T)..... CHINA
(L)..... SINGAPORE

Interchangeable Parts at Manufacture-Stage

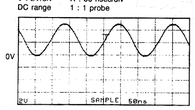
Mark	Reference Parts Number	Parts Name
N1	IC411, 412	NJM4558M-T1 NJM4558D-T1



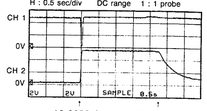
Point ① (Pin20 of IC1)
V : 2V/div H : 0.1 μsec/div
DC range 1 : 1 probe



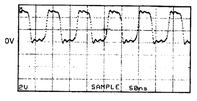
Point ③ (Pin31 of IC413)
V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



Point ②
(CH 1 : Pin25 of IC1 CH 2 : Emitter of Q2)
V : 2V/div (CH 1) V : 2V/div (CH 2)
H : 0.5 sec/div DC range 1 : 1 probe



Point ④ (Pin56 of IC416)
V : 2V/div H : 50 nsec/div
DC range 1 : 1 probe



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** Schematic diagram is subject to change without notice.*

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PARTS LIST

■ ELECTRICAL PARTS

■ **WARNING**
Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

- Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS List. For the part Nos. of the carbon resistors refer to the last page.
- Chip resistors are listed on page 36.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

C.A.EL.CHP	:	CHIP ALUMI. ELECTROLYTIC CAP
C.CE	:	CERAMIC CAP
C.CE.ARRAY	:	CERAMIC CAP ARRAY
C.CE.CHP	:	CHIP CERAMIC CAP
C.CE.ML	:	MULTILAYER CERAMIC CAP
C.CE.M.CHP	:	CHIP MULTILAYER CERAMIC CAP
C.CE.SAFTY	:	RECOGNIZED CERAMIC CAP
C.CE.TUBLR	:	CERAMIC TUBULAR CAP
C.CE.SMI	:	SEMI CONDUCTIVE CERAMIC CAP
C.EL	:	ELECTROLYTIC CAP
C.MICA	:	MICA CAP
C.ML.FLM	:	MULTILAYER FILM CAP
C.MP	:	METALLIZED PAPER CAP
C.MYLAR	:	MYLAR FILM CAP
C.MYLAR.ML	:	MULTILAYER MYLAR FILM CAP
C.PAPER	:	PAPER CAPACITOR
C.PLS	:	POLYSTYRENE FILM CAP
C.POL	:	POLYESTER FILM CAP
C.POLY	:	POLYETHYLENE FILM CAP
C.PP	:	POLYPROPYLENE FILM CAP
C.TNTL	:	TANTALUM CAP
C.TNTL.CHP	:	CHIP TANTALUM CAP
C.TRIM	:	TRIMMER CAP
CN	:	CONNECTOR
CN.BS.PIN	:	CONNECTOR, BASE PIN
CN.CANNON	:	CONNECTOR, CANNON
CN.DIN	:	CONNECTOR, DIN
CN.FLAT	:	CONNECTOR, FLAT CABLE
CN.POST	:	CONNECTOR, BASE POST
COIL.MX.AM	:	COIL, AM MIX
COIL.AT.FM	:	COIL, FM ANTENNA
COIL.DT.FM	:	COIL, FM DETECT
COIL.MX.FM	:	COIL, FM MIX
COIL.OUTPT	:	OUTPUT COIL
DIOD.ARRAY	:	DIODE ARRAY
DIODE.BRG	:	DIODE BRIDGE
DIODE.CHP	:	CHIP DIODE
DIODE.VAR	:	VARACTOR DIODE
DIOD.Z.CHP	:	CHIP ZENER DIODE
DIODE.ZENR	:	ZENER DIODE
DSCR.CE	:	CERAMIC DISCRIMINATOR
FER.BEAD	:	FERRITE BEADS
FER.CORE	:	FERRITE CORE
FET.CHP	:	CHIP FET
FL.DSPLY	:	FLUORESCENT DISPLAY
FLTR.CE	:	CERAMIC FILTER
FLTR.COMB	:	COMB FILTER MODULE
FLTR.LC.RF	:	LC FILTER ,EMI
GND.MTL	:	GROUND PLATE
GND.TERM	:	GROUND TERMINAL
HOLDER.FUS	:	FUSE HOLDER
IC.PRTCT	:	IC PROTECTOR
JUMPER.CN	:	JUMPER CONNECTOR
JUMPER.TST	:	JUMPER, TEST POINT
L.DTCT	:	LIGHT DETECTING MODULE
L.EMIT	:	LIGHT EMITTING MODULE
LED.DSPLY	:	LED DISPLAY
LED.INFRD	:	LED, INFRARED
MODUL.RF	:	MODULATOR, RF
PHOT.CPL	:	PHOTO COUPLER
PHOT.INTR	:	PHOTO INTERRUPTER
PHOT.RFLCT	:	PHOTO REFLECTOR
PIN.TEST	:	PIN, TEST POINT
PLST.RIVET	:	PLASTIC RIVET
R.ARRAY	:	RESISTOR ARRAY
R.CAR	:	CARBON RESISTOR
R.CAR.CHP	:	CHIP RESISTOR
R.CAR.FP	:	FLAME PROOF CARBON RESISTOR
R.FUS	:	FUSABLE RESISTOR
R.MTL.CHP	:	CHIP METAL FILM RESISTOR
R.MTL.FLM	:	METAL FILM RESISTOR
R.MTL.OXD	:	METAL OXIDE FILM RESISTOR
R.MTL.PLAT	:	METAL PLATE RESISTOR
RSNR.CE	:	CERAMIC RESONATOR
RSNR.CRYS	:	CRYSTAL RESONATOR
R.TW.CEM	:	TWIN CEMENT FIXED RESISTOR
R.WW	:	WIRE WOUND RESISTOR
SCR.BND.HD	:	BIND HEAD B-TITE SCREW
SCR.BW.HD	:	BW HEAD TAPPING SCREW
SCR.CUP	:	CUP TITE SCREW
SCR.TERM	:	SCREW TERMINAL
SCR.TR	:	SCREW, TRANSISTOR
SUPRT.PCB	:	SUPPORT, P.C.B.
SURG.PRTCT	:	SURGE PROTECTOR
SW.TACT	:	TACT SWITCH
SW.LEAF	:	LEAF SWITCH
SW.LEVER	:	LEVER SWITCH
SW.MICRO	:	MICRO SWITCH
SW.PUSH	:	PUSH SWITCH
SW.RT.ENC	:	ROTARY ENCODER
SW.RT.MTR	:	ROTARY SWITCH WITH MOTOR
SW.RT	:	ROTARY SWITCH
SW.SLIDE	:	SLIDE SWITCH
TERM.SP	:	SPEAKER TERMINAL
TERM.WRAP	:	WRAPPING TERMINAL
THRMST.CHP	:	CHIP THERMISTOR
TR.CHP	:	CHIP TRANSISTOR
TR.DGT	:	DIGITAL TRANSISTOR
TR.DGT.CHP	:	CHIP DIGITAL TRANSISTOR
TRANS	:	TRANSFORMER
TRANS.PULS	:	PULSE TRANSFORMER
TRANS.PWR	:	POWER TRANSFORMER ASS'y
TUNER.AM	:	TUNER PACK, AM
TUNER.FM	:	TUNER PACK, FM
TUNER.PK	:	FRONT-END TUNER PACK
VR	:	ROTARY POTENTIOMETER
VR.MTR	:	POTENTIOMETER WITH MOTOR
VR.SW	:	POTENTIOMETER WITH ROTARY SW
VR.SLIDE	:	SLIDE POTENTIOMETER
VR.TRIM	:	TRIMMER POTENTIOMETER

Note) Those parts marked with "#" are not included in the P.C.B. ass'y.

SW-AVS7 P.C.B. AMP

	Schm Ref.	PART NO.	Description	
*		V2147100	P.C.B.	AMP(U)
*		V2147200	P.C.B.	AMP(C)
*		V2147300	P.C.B.	AMP(RT)
*		V2147400	P.C.B.	AMP(A)
*		V2147500	P.C.B.	AMP(BG)
	CB1	VQ963700	CN.BS.PIN	16P
	CB2	VQ963300	CN.BS.PIN	12P
	CB3	VQ963600	CN.BS.PIN	15P
	CB4	VQ963400	CN.BS.PIN	13P
	CB5	VA725700	HOLDER	7P
	CB6	VQ963600	CN.BS.PIN	15P
	CB9	VA725400	HOLDER	4P
	CB10	VA725600	HOLDER	6P
	CB11	VG879900	CN.BS.PIN	2P
	CB14	VP206500	HOLDER.FUS	EYF-52BC
	CB15	VP206500	HOLDER.FUS	EYF-52BC
	CB16	VP206500	HOLDER.FUS	EYF-52BC
	CB17	VP206500	HOLDER.FUS	EYF-52BC
	CB18	VP206500	HOLDER.FUS	EYF-52BC(RT)
	CB19	VP206500	HOLDER.FUS	EYF-52BC(RT)
	CB20	VQ961600	CN	13P
	CB21	VQ963400	CN.BS.PIN	13P
	CB22	VQ962400	CN.BS.PIN	3P
	CB23	VL845400	CN.BS.PIN	10P(ABG)
	C1	UM215100	C.EL	0.1uF 50V
	C2	UM215100	C.EL	0.1uF 50V
	C3	VF466800	C.CE.TUBLR	100pF 50V
	C4	VF466800	C.CE.TUBLR	100pF 50V
	C5	UM416470	C.EL	4.7uF 50V
	C6	UM416470	C.EL	4.7uF 50V
	C7	VF466700	C.CE.TUBLR	47pF 50V
	C8	VF466700	C.CE.TUBLR	47pF 50V
	C9	VF466700	C.CE.TUBLR	47pF 50V
	C10	VF466700	C.CE.TUBLR	47pF 50V
	C11	UM407220	C.EL	22uF 25V
	C12	UM407220	C.EL	22uF 25V
	C13	VD916400	C.EL	2.2uF 50V
	C14	UA655220	C.MYLAR	0.22uF 50V
	C15	VJ839200	C.EL	2.2uF 50V
	C16	VJ839200	C.EL	2.2uF 50V
	C17	VF466900	C.CE.TUBLR	470pF 50V
	C18	VF466900	C.CE.TUBLR	470pF 50V
	C19	UA654270	C.MYLAR	0.027uF 50V
	C20	UA654270	C.MYLAR	0.027uF 50V
	C21	UA654270	C.MYLAR	0.027uF 50V
	C22	UA654270	C.MYLAR	0.027uF 50V
	C23	UM407220	C.EL	22uF 25V
	C24	UM407220	C.EL	22uF 25V
	C25	UJ668100	C.EL	100uF 50V
	C26	UJ668100	C.EL	100uF 50V
	C27	UM417100	C.EL	10uF 50V
	C28	UM417100	C.EL	10uF 50V
	C29	UA652560	C.MYLAR	560pF 50V

* New Parts

Schm Ref.	PART NO.	Description		
C30	UA652560	C.MYLAR	560pF	50V
C31	VJ839100	C.EL	1uF	50V
C32	VF760000	C.EL	100uF	10V
C33	UA654470	C.MYLAR	0.047uF	50V
C34	UA654470	C.MYLAR	0.047uF	50V
C35	VJ839200	C.EL	2.2uF	50V
C36	VJ839200	C.EL	2.2uF	50V
C37	VF466900	C.CE.TUBLR	470pF	50V
C38	VF466900	C.CE.TUBLR	470pF	50V
C39	UA654270	C.MYLAR	0.027uF	50V
C40	UA654270	C.MYLAR	0.027uF	50V
C41	UA654270	C.MYLAR	0.027uF	50V
C42	UA654270	C.MYLAR	0.027uF	50V
C43	UM407220	C.EL	22uF	25V
C44	UM407220	C.EL	22uF	25V
C45	UJ668100	C.EL	100uF	50V
C46	UJ668100	C.EL	100uF	50V
C47	UM417100	C.EL	10uF	50V
C48	UM417100	C.EL	10uF	50V
C49	UA652560	C.MYLAR	560pF	50V
C50	UA652560	C.MYLAR	560pF	50V
C51	UA654470	C.MYLAR	0.047uF	50V
C52	UA654470	C.MYLAR	0.047uF	50V
C53	VJ839100	C.EL	1uF	50V
C54	VF760000	C.EL	100uF	10V
C55	VJ839200	C.EL	2.2uF	50V
C56	VF466900	C.CE.TUBLR	470pF	50V
C57	UA654270	C.MYLAR	0.027uF	50V
C58	UA654270	C.MYLAR	0.027uF	50V
C59	UM407220	C.EL	22uF	25V
C60	UJ668100	C.EL	100uF	50V
C61	UJ668100	C.EL	100uF	50V
C62	UA652560	C.MYLAR	560pF	50V
C63	VJ839100	C.EL	1uF	50V
C64	UA654470	C.MYLAR	0.047uF	50V
C65	VF760000	C.EL	100uF	10V
C66	VJ836900	C.EL	10uF	16V
C67	VJ836900	C.EL	10uF	16V
C69	UA655220	C.MYLAR	0.22uF	50V
C70	UA655220	C.MYLAR	0.22uF	50V
C71	UA655470	C.MYLAR	0.47uF	50V
C72	VJ836900	C.EL	10uF	16V
C73	VJ836900	C.EL	10uF	16V
C74	UA655390	C.MYLAR	0.39uF	50V
C75	UA655150	C.MYLAR	0.15uF	50V
C76	UJ638330	C.EL	330uF	16V
C77	UJ668100	C.EL	100uF	50V
C78	UJ668100	C.EL	100uF	50V
C81	UA653820	C.MYLAR	8200pF	50V
C82	UA654100	C.MYLAR	0.01uF	50V
C84	VJ836900	C.EL	10uF	16V
C85	VJ836900	C.EL	10uF	16V
C86	VJ837200	C.EL	47uF	16V

* New Parts

SW-AVS7 P.C.B. AMP

Schm Ref.	PART NO.	Description		
C87	VJ836900	C.EL	10uF	16V
C88	VJ836900	C.EL	10uF	16V
C89	UJ638330	C.EL	330uF	16V
C90	UJ638330	C.EL	330uF	16V
C91	Ui367220	C.EL	22uF	50V
C92	Ui367220	C.EL	22uF	50V
C93	VQ670800	C.EL	2200uF	25V
C94	VQ670800	C.EL	2200uF	25V
C95	UA654470	C.MYLAR	0.047uF	50V
C96	UA654470	C.MYLAR	0.047uF	50V
C99	UJ658470	C.EL	470uF	35V
⚠* C100	V2087300	C.EL	8200uF	35V
⚠* C101	V2087300	C.EL	8200uF	35V
C102	VR325300	C.MYLAR	0.047uF	100V
C103	VR325300	C.MYLAR	0.047uF	100V
C104	FG214100	C.CE	0.01uF	50V
C105	FG214100	C.CE	0.01uF	50V
C106	FG214100	C.CE	0.01uF	50V
C120	UA653330	C.MYLAR	3300pF	50V
C121	UA653330	C.MYLAR	3300pF	50V
C122	UA653330	C.MYLAR	3300pF	50V
C123	UA653330	C.MYLAR	3300pF	50V
C124	UA653560	C.MYLAR	5600pF	50V
C125	UA653560	C.MYLAR	5600pF	50V
C126	VJ839200	C.EL	2.2uF	50V
C127	VJ839200	C.EL	2.2uF	50V
C128	VJ836900	C.EL	10uF	16V
C129	VJ836900	C.EL	10uF	16V
C130	VF466800	C.CE.TUBLR	100pF	50V(ABG)
C131	VF466800	C.CE.TUBLR	100pF	50V(ABG)
C132	VF466800	C.CE.TUBLR	100pF	50V(ABG)
C133	Fi550200	C.CE	2pF	50V
C134	VG276600	C.CE.TUBLR	22pF	50V
C135	VG276600	C.CE.TUBLR	22pF	50V(UCRTA)
C136	VG276600	C.CE.TUBLR	22pF	50V(UCRTA)
C137	VS741700	C.CE.SAFTY	0.01uF	275V(BG)
C357	UA654470	C.MYLAR	0.047uF	50V
C391	VD916400	C.EL	2.2uF	50V
D1	VG438100	DIODE.ZENR	MTZJ6.2C	6.2V
D2	VG438100	DIODE.ZENR	MTZJ6.2C	6.2V
D3	VG440500	DIODE.ZENR	MTZJ13B	13V
D4	VD631600	DIODE	1SS133,176,HSS104	
⚠ D5	VQ379300	DIODE.BRG	S1VB20	1.0A 200V
D6	VD631600	DIODE	1SS133,176,HSS104	
⚠ D7	Vi234100	DIODE.BRG	RBV-602	
D8	VU264100	DIODE	1SR139-400	
D9	VD631600	DIODE	1SS133,176,HSS104	
D10	VD631600	DIODE	1SS133,176,HSS104	
D11	VG437300	DIODE.ZENR	MTZJ5.1A	5.1V
D12	VD631600	DIODE	1SS133,176,HSS104	
D13	VD631600	DIODE	1SS133,176,HSS104	
D14	VG438100	DIODE.ZENR	MTZJ6.2C	6.2V
D21	VS132300	LED(re)	SLR-325VCT31	

*New Parts

Schm Ref.	PART NO.	Description	
D22	VD631600	DIODE	1SS133,176,HSS104
⚠ F1	KB000680	FUSE	1.25A 250V(ABG)
⚠ F1	KB000790	FUSE	T4.0A 250V(RT)
⚠ F1	VS822900	FUSE	T4.0A 125V(UC)
⚠ F3	KB001770	FUSE	T1.0A 250V(RTABG)
⚠ F3	VS822300	FUSE	1.25A 125V(UC)
⚠ F4	KB000680	FUSE	1.25A 250V(RT)
IC1	XG938A00	IC	BA15218N
IC2	XK330A00	IC	STK-400-040 25W 3C
IC3	XK330A00	IC	STK-400-040 25W 3C
IC4	XB247301	IC	uPC4570HA
IC5	XB247301	IC	uPC4570HA
L1	VB933800	FER.CORE	BP53RB310190N(ABG)
L100	VZ597900	COIL	48uH
L306	VC793700	COIL	1.5uH
Q1	iC287820	TR	2SC2878 A,B
Q2	iC287820	TR	2SC2878 A,B
Q3	iC287820	TR	2SC2878 A,B
Q4	iC287820	TR	2SC2878 A,B
Q5	iC287820	TR	2SC2878 A,B
Q6	VD678500	TR.DGT	DTA114ES
Q7	iC287820	TR	2SC2878 A,B
Q8	VG721700	TR.DGT	DTA144ES
Q9	iC224030	TR	2SC2240 GR,BL
Q10	iC224030	TR	2SC2240 GR,BL
Q11	iA097000	TR	2SA970 GR,BL
Q12	iC287820	TR	2SC2878 A,B
Q13	iC174020	TR	2SC1740S R,S
Q14	iC224030	TR	2SC2240 GR,BL
Q15	iC224030	TR	2SC2240 GR,BL
Q16	iA097000	TR	2SA970 GR,BL
Q17	iC287820	TR	2SC2878 A,B
Q18	iC174020	TR	2SC1740S R,S
Q19	iC224030	TR	2SC2240 GR,BL
Q20	iA097000	TR	2SA970 GR,BL
Q21	iC287820	TR	2SC2878 A,B
Q22	iC174020	TR	2SC1740S R,S
Q23	iC224030	TR	2SC2240 GR,BL
Q24	iA097000	TR	2SA970 GR,BL
Q25	iC224030	TR	2SC2240 GR,BL
Q26	iA097000	TR	2SA970 GR,BL
⚠ Q30	VK407600	TR	2SC4208A Q,R,S
⚠ Q31	VK407600	TR	2SC4208A Q,R,S
Q32	VG722000	TR.DGT	DTC144ES
⚠ Q33	VR510800	TR	2SD2396 J,K
Q34	iA093320	TR	2SA933S Q,R
⚠ Q35	VS883300	TR	2SB1565 E,F
Q36	iC174020	TR	2SC1740S R,S
R19	HV454220	R.CAR.FP	22Ω 1/4W
R20	HV454220	R.CAR.FP	22Ω 1/4W
R33	HV455100	R.CAR.FP	100Ω 1/4W
R34	HV455100	R.CAR.FP	100Ω 1/4W
R37	VT424900	R.WW	0.22Ω 3W

*New Parts

SW-AVS7 P.C.B. AMP & VOLUME

	Schm Ref.	PART NO.	Description		
	R38	VT424900	R.WW	0.22Ω	3W
	R48	HV454100	R.CAR.FP	10Ω	1/4W
	R49	HV454100	R.CAR.FP	10Ω	1/4W
	R73	HV455100	R.CAR.FP	100Ω	1/4W
	R74	HV455100	R.CAR.FP	100Ω	1/4W
	R77	VT424900	R.WW	0.22Ω	3W
	R78	VT424900	R.WW	0.22Ω	3W
	R89	HV454100	R.CAR.FP	10Ω	1/4W
	R90	HV454100	R.CAR.FP	10Ω	1/4W
	R100	HV455100	R.CAR.FP	100Ω	1/4W
	R102	HV455100	R.CAR.FP	100Ω	1/4W
	R103	VT424900	R.WW	0.22Ω	3W
	R111	HV454100	R.CAR.FP	10Ω	1/4W
	R116	HV454220	R.CAR.FP	22Ω	1/4W
	R117	HV454220	R.CAR.FP	22Ω	1/4W
	R132	HV455100	R.CAR.FP	100Ω	1/4W
	R138	HV455100	R.CAR.FP	100Ω	1/4W
	R139	HV455100	R.CAR.FP	100Ω	1/4W
	R141	HV454100	R.CAR.FP	10Ω	1/4W
	R142	VT424900	R.WW	0.22Ω	3W
	R148	HV454330	R.CAR.FP	33Ω	1/4W
	R154	VK187800	R.FUS	100Ω	1/4W
⚠	R158	HV453470	R.CAR.FP	4.7Ω	1/4W
⚠	R159	HV453470	R.CAR.FP	4.7Ω	1/4W
	R165	HV454100	R.CAR.FP	10Ω	1/4W
⚠	R167	HV453100	R.CAR.FP	1Ω	1/4W
⚠	R188	HV453100	R.CAR.FP	1Ω	1/4W
⚠	R189	HV453100	R.CAR.FP	1Ω	1/4W
	R347	HV454100	R.CAR.FP	10Ω	1/4W
	RY1	VV272600	RELAY	DC OSA-SS(URTABG)	
	RY1	VZ617300	RELAY	DC DJ24D2-OM(C)	
	SW1	VA961800	VOLT.SELCT	ESE-37247-F(RT)	
	SW2	VR765000	SW	(BG)	
	TE1	VV647100	TERM.SP	CJ-9008	
		VJ828000	PIN	IMSA-6024-03E	
		BB071360	SCR.TERM	8.3x13	
		VS606000	HEAT.SINK	DPS35-45	
		VN126800	HEAT.SINK	U0T-16C25-MP	
		VZ568400	DAMPER	T2x45x100	
		Ei330086	SCR.BND.HD	3x8	FCRM3-BL
*		V2147700	P.C.B.	VOLUME	
	CB301	VQ961500	CN.BS.PIN	12P	
	CB302	VQ961600	CN	13P	
	CB310	VD004600	CN.BS.PIN	3P	
	CB403	VQ585700	CN.JUMPER	7P	
	CB404	VQ961800	CN.BS.PIN	15P	
	CB405	VZ130900	CN.JUMPER	4P	
	CB406	VQ585600	CN.JUMPER	6P	
	CB407	VQ960600	CN	3P	
	C301	VJ836900	C.EL	10uF	16V

*New Parts

Schm Ref.	PART NO.	Description		
C302	VJ836900	C.EL	10uF	16V
C303	VG278400	C.CE.TUBLR	220pF	50V
C304	VG278400	C.CE.TUBLR	220pF	50V
C305	VG278400	C.CE.TUBLR	220pF	50V
C306	VG278400	C.CE.TUBLR	220pF	50V
C307	VF466800	C.CE.TUBLR	100pF	50V
C308	VF466800	C.CE.TUBLR	100pF	50V
C309	VJ836900	C.EL	10uF	16V
C310	VJ836900	C.EL	10uF	16V
C311	UR865220	C.EL	0.22uF	50V
C312	UR865220	C.EL	0.22uF	50V
C313	VJ836900	C.EL	10uF	16V
C314	VJ836900	C.EL	10uF	16V
C315	UR866220	C.EL	2.2uF	50V
C316	UR866220	C.EL	2.2uF	50V
C317	VJ836900	C.EL	10uF	16V
C318	VJ836900	C.EL	10uF	16V
C319	VJ836900	C.EL	10uF	16V
C320	VJ836900	C.EL	10uF	16V
C321	UR865220	C.EL	0.22uF	50V
C322	UR865220	C.EL	0.22uF	50V
C323	VJ836900	C.EL	10uF	16V
C324	VJ836900	C.EL	10uF	16V
C325	VG278400	C.CE.TUBLR	220pF	50V
C326	VG278400	C.CE.TUBLR	220pF	50V
C331	UR865470	C.EL	0.47uF	50V
C332	UR865470	C.EL	0.47uF	50V
C333	VJ836900	C.EL	10uF	16V
C334	VJ836900	C.EL	10uF	16V
C335	VJ836900	C.EL	10uF	16V
C336	VJ836900	C.EL	10uF	16V
C337	VG278400	C.CE.TUBLR	220pF	50V
C340	UR865470	C.EL	0.47uF	50V
C344	UR865220	C.EL	0.22uF	50V
C345	VJ836900	C.EL	10uF	16V
C346	VJ836900	C.EL	10uF	16V
C347	UR865220	C.EL	0.22uF	50V
C348	UR847100	C.EL	10uF	25V
C380	UA653330	C.MYLAR	3300pF	50V
C381	UA653330	C.MYLAR	3300pF	50V
C382	UA653560	C.MYLAR	5600pF	50V
C383	UA653330	C.MYLAR	3300pF	50V
C384	UA653330	C.MYLAR	3300pF	50V
C385	UA653560	C.MYLAR	5600pF	50V
C389	UA655130	C.MYLAR	0.13uF	50V
C390	UA655470	C.MYLAR	0.47uF	50V
C401	VG278400	C.CE.TUBLR	220pF	50V
C402	VG278400	C.CE.TUBLR	220pF	50V
C403	VG278400	C.CE.TUBLR	220pF	50V
C404	VG278400	C.CE.TUBLR	220pF	50V
C405	VJ836900	C.EL	10uF	16V
C406	VJ836900	C.EL	10uF	16V
C408	VJ839100	C.EL	1uF	50V

*New Parts

SW-AVS7 P.C.B. VOLUME & DSP

	Schm Ref.	PART NO.	Description		
	C409	VJ839100	C.EL	1uF	50V
	C411	VF466800	C.CE.TUBLR	100pF	50V
	C412	VF466800	C.CE.TUBLR	100pF	50V
	C413	VJ836900	C.EL	10uF	16V
	C414	VJ836900	C.EL	10uF	16V
	C416	VF467300	C.CE.TUBLR	0.01uF	16V
	C417	VF466800	C.CE.TUBLR	100pF	50V
	C418	FG212100	C.CE	100pF	50V
	C419	FG214100	C.CE	0.01uF	50V
	C420	FG212100	C.CE	100pF	50V
	C421	FG212100	C.CE	100pF	50V
	C422	FG214100	C.CE	0.01uF	50V
	C424	UA654100	C.MYLAR	0.01uF	50V
	C425	UA654100	C.MYLAR	0.01uF	50V
	C426	UA654220	C.MYLAR	0.022uF	50V
	C427	UA654220	C.MYLAR	0.022uF	50V
	C428	FG214100	C.CE	0.01uF	50V
	C429	FG214100	C.CE	0.01uF	50V
	C430	FG214100	C.CE	0.01uF	50V
	C431	FG214100	C.CE	0.01uF	50V
	C432	UA654100	C.MYLAR	0.01uF	50V
	C433	UA654470	C.MYLAR	0.047uF	50V
	D301	VD631600	DIODE	1SS133,176,HSS104	
	D401	VD631600	DIODE	1SS133,176,HSS104	
	D402	VD631600	DIODE	1SS133,176,HSS104	
	D403	VD631600	DIODE	1SS133,176,HSS104	
	IC301	XB247301	IC	uPC4570HA	
	IC302	XB247301	IC	uPC4570HA	
	IC303	XB247301	IC	uPC4570HA	
	IC304	XB247301	IC	uPC4570HA	
	IC305	XB247301	IC	uPC4570HA	
	IC306	XB247301	IC	uPC4570HA	
	IC307	XS884A00	IC	LC7536Y	
	IC308	XS884A00	IC	LC7536Y	
	IC309	XS884A00	IC	LC7536Y	
*	IC401	XU834A00	IC	BU4066BC	
	IC402	XB247301	IC	uPC4570HA	
*	PJ401	V2069700	JACK.PIN	6P HSP-246V1-05	
	PJ402	VR457700	CN.DIN	8P YKF51-50	
	Q401	iC174020	TR	2SC1740S R,S	
	Q402	iC174020	TR	2SC1740S R,S	
	Q403	iC174020	TR	2SC1740S R,S	
	Q404	VG722000	TR.DGT	DTC144ES	
	Q405	VD678700	TR.DGT	DTC114ES	
	Q406	iE101280	FET	2SK105 F,H	
	Q407	iE101280	FET	2SK105 F,H	
	Q408	iC287820	TR	2SC2878 A,B	
	Q409	iC287820	TR	2SC2878 A,B	
	Q410	VD678500	TR.DGT	DTA114ES	
	Q411	iE101280	FET	2SK105 F,H	
	Q412	iE101280	FET	2SK105 F,H	
	R309	HV454220	R.CAR.FP	22Ω	1/4W
	R310	HV454220	R.CAR.FP	22Ω	1/4W

*New Parts

	Schm Ref.	PART NO.	Description		
	R321	HV454220	R.CAR.FP	22Ω	1/4W
	R322	HV454220	R.CAR.FP	22Ω	1/4W
	R332	HV454220	R.CAR.FP	22Ω	1/4W
	R333	HV454220	R.CAR.FP	22Ω	1/4W
	R334	HV454220	R.CAR.FP	22Ω	1/4W
	R335	HV454220	R.CAR.FP	22Ω	1/4W
	R425	HV453220	R.CAR.FP	2.2Ω	1/4W
	R426	HV454100	R.CAR.FP	10Ω	1/4W
	R427	HV454100	R.CAR.FP	10Ω	1/4W
	R428	HV454100	R.CAR.FP	10Ω	1/4W
	RY401	VU161600	RELAY	DC 0SA-SS-224DM3	
	RY402	VU161600	RELAY	DC 0SA-SS-224DM3	
	RY403	VU161600	RELAY	DC 0SA-SS-224DM3	
*	TE401	V2152000	TERM.SP	8P YKD21-0277	
		BB071360	SCR.TERM	8.3x13	
*		V2269400	P.C.B.	DSP	
	CB401	VQ961800	CN.BS.PIN	15P	
	CB402	VQ961900	CN	16P	
	C401	VJ836900	C.EL	10uF	16V
	C402	UB051470	C.CE.M.CHP	47pF	50V
	C403	UB051470	C.CE.M.CHP	47pF	50V
	C404	UM417100	C.EL	10uF	50V
	C405	UA652100	C.MYLAR	100pF	50V
	C406	UB051470	C.CE.M.CHP	47pF	50V
	C407	UB044100	C.CE.M.CHP	0.01uF	50V
	C408	UA652100	C.MYLAR	100pF	50V
	C409	UB051330	C.CE.M.CHP	33pF	50V
	C410	UA655150	C.MYLAR	0.15uF	50V
	C411	VJ839100	C.EL	1uF	50V
	C412	VJ839100	C.EL	1uF	50V
	C413	UM417100	C.EL	10uF	50V
	C414	UM417100	C.EL	10uF	50V
	C415	UB051470	C.CE.M.CHP	47pF	50V
	C416	UB051470	C.CE.M.CHP	47pF	50V
	C417	UM417100	C.EL	10uF	50V
	C418	UB052100	C.CE.M.CHP	100pF	50V
	C419	UM417100	C.EL	10uF	50V
	C420	UB052100	C.CE.M.CHP	100pF	50V
	C421	VF964800	C.EL	100uF	16V
	C422	Vi536300	C.EL	10uF	50V
	C423	UM417100	C.EL	10uF	50V
	C424	VF964800	C.EL	100uF	16V
	C425	VJ839100	C.EL	1uF	50V
	C426	UA652100	C.MYLAR	100pF	50V
	C427	UA652100	C.MYLAR	100pF	50V
	C428	VJ839100	C.EL	1uF	50V
	C429	UM407220	C.EL	22uF	25V
	C430	UM407220	C.EL	22uF	25V
	C431	UM407220	C.EL	22uF	25V
	C432	UB013330	C.CE.M.CHP	3300pF	50V

*New Parts

SW-AVS7 P.C.B. DSP

Schm Ref.	PART NO.	Description		
C433	UB012220	C.CE.M.CHP	220pF	50V
C434	UB013270	C.CE.M.CHP	2700pF	50V
C435	UB012220	C.CE.M.CHP	220pF	50V
C436	UB013270	C.CE.M.CHP	2700pF	50V
C437	UB013330	C.CE.M.CHP	3300pF	50V
C438	UB013680	C.CE.M.CHP	6800pF	50V
C439	UB012270	C.CE.M.CHP	270pF	50V
C440	UB013270	C.CE.M.CHP	2700pF	50V
C441	UB012270	C.CE.M.CHP	270pF	50V
C442	UB013270	C.CE.M.CHP	2700pF	50V
C443	UB013680	C.CE.M.CHP	6800pF	50V
C444	UA652100	C.MYLAR	100pF	50V
C445	UA652100	C.MYLAR	100pF	50V
C446	UM407220	C.EL	22uF	25V
C447	UA652330	C.MYLAR	330pF	50V
C448	UM407220	C.EL	22uF	25V
C449	UA652330	C.MYLAR	330pF	50V
C450	UA652330	C.MYLAR	330pF	50V
C451	UM407220	C.EL	22uF	25V
C452	VJ839100	C.EL	1uF	50V
C453	UB051330	C.CE.M.CHP	33pF	50V
C454	UB051330	C.CE.M.CHP	33pF	50V
C455	VJ839100	C.EL	1uF	50V
C456	UB051330	C.CE.M.CHP	33pF	50V
C457	UB051100	C.CE.M.CHP	10pF	50V
C458	UB051100	C.CE.M.CHP	10pF	50V
C459	UB051330	C.CE.M.CHP	33pF	50V
C460	UA653180	C.MYLAR	1800pF	50V
C461	UA653180	C.MYLAR	1800pF	50V
C462	UM407220	C.EL	22uF	25V
C463	UM407220	C.EL	22uF	25V
C464	UA653470	C.MYLAR	4700pF	50V
C465	UA654100	C.MYLAR	0.01uF	50V
C466	UB012330	C.CE.M.CHP	330pF	50V
C467	UB012330	C.CE.M.CHP	330pF	50V
C468	UA654100	C.MYLAR	0.01uF	50V
C469	UA653470	C.MYLAR	4700pF	50V
C470	UM407220	C.EL	22uF	25V
C471	UM407220	C.EL	22uF	25V
C472	UB013330	C.CE.M.CHP	3300pF	50V
C473	UB013330	C.CE.M.CHP	3300pF	50V
C474	UB045100	C.CE.M.CHP	0.1uF	50V
C475	VJ839200	C.EL	2.2uF	50V
C476	UB045100	C.CE.M.CHP	0.1uF	50V
C477	UB045100	C.CE.M.CHP	0.1uF	50V
C478	UJ638330	C.EL	330uF	16V
C479	VJ837200	C.EL	47uF	16V
C480	VF964800	C.EL	100uF	16V
C481	UA654100	C.MYLAR	0.01uF	50V
C482	UB045100	C.CE.M.CHP	0.1uF	50V
C483	UB045100	C.CE.M.CHP	0.1uF	50V
C484	VE117600	C.EL	220uF	10V
C485	VJ837200	C.EL	47uF	16V

*New Parts

Schm Ref.	PART NO.	Description		
C486	UB045100	C.CE.M.CHP	0.1uF	50V
C501	UA654100	C.MYLAR	0.01uF	50V
C502	VJ839100	C.EL	1uF	50V
C503	VJ839100	C.EL	1uF	50V
C504	VJ839100	C.EL	1uF	50V
C507	UB052100	C.CE.M.CHP	100pF	50V
C508	UB052100	C.CE.M.CHP	100pF	50V
D402	VT332900	DIODE	1SS355	
D403	VT332900	DIODE	1SS355	
D404	VT332900	DIODE	1SS355	
IC401	XR040A00	IC	TC9299P	
IC402	XR040A00	IC	TC9299P	
IC403	XF291A00	IC	uPC4570G2	
IC404	XP896A00	IC	LC78213	
IC405	XJ553A00	IC	NJM2068MD	
IC406	XF291A00	IC	uPC4570G2	
IC407	XF291A00	IC	uPC4570G2	
IC408	XF291A00	IC	uPC4570G2	
IC409	XF291A00	IC	uPC4570G2	
IC410	XF291A00	IC	uPC4570G2	
IC411	iG103520	IC	NJM4558MT-1	
IC412	iG103520	IC	NJM4558MT-1	
IC413	XT622A00	IC	M38172M4-195FP CPU	
IC414	XF291A00	IC	uPC4570G2	
IC415	XF291A00	IC	uPC4570G2	
IC416	Xi022B00	IC	YSS203B-F	
IC417	XQ545A00	IC	LH5P832N-10 PS-RAM	
IC418	XF291A00	IC	uPC4570G2	
IC419	XF291A00	IC	uPC4570G2	
Q401	VB504200	TR.DGT	DTC144EK	
Q402	VB504200	TR.DGT	DTC144EK	
R401	HV453220	R.CAR.FP	2.2Ω	1/4W
R402	HV453220	R.CAR.FP	2.2Ω	1/4W
R495	HV453220	R.CAR.FP	2.2Ω	1/4W
R496	HV453220	R.CAR.FP	2.2Ω	1/4W
R497	HV453220	R.CAR.FP	2.2Ω	1/4W
R541	VN001500	R.ARRAY	100KΩx8	
XL401	VK175200	RSNR.CE	11.28MHz	
XL402	VR891500	RSNR.CE	6.30MHz	
	BB071360	SCR.TERM	8.3x13	

*New Parts

CHIP RESISTORS

Schm Ref.	PART NO.	Description		
	RD255150	R.CAR.CHP	150Ω	1/10W
	RD255220	R.CAR.CHP	220Ω	1/10W
	RD255470	R.CAR.CHP	470Ω	1/10W
	RD255560	R.CAR.CHP	560Ω	1/10W
	RD256100	R.CAR.CHP	1KΩ	1/10W
	RD256220	R.CAR.CHP	2.2KΩ	1/10W
	RD256270	R.CAR.CHP	2.7KΩ	1/10W
	RD256300	R.CAR.CHP	3KΩ	1/10W
	RD256330	R.CAR.CHP	3.3KΩ	1/10W
	RD256360	R.CAR.CHP	3.6KΩ	1/10W
	RD256470	R.CAR.CHP	4.7KΩ	1/10W
	RD256680	R.CAR.CHP	6.8KΩ	1/10W
	RD257100	R.CAR.CHP	10KΩ	1/10W
	RD257120	R.CAR.CHP	12KΩ	1/10W
	RD257130	R.CAR.CHP	13KΩ	1/10W
	RD257390	R.CAR.CHP	39KΩ	1/10W
	RD257470	R.CAR.CHP	47KΩ	1/10W
	RD258100	R.CAR.CHP	100KΩ	1/10W
	RD258470	R.CAR.CHP	470KΩ	1/10W
	RD259100	R.CAR.CHP	1MΩ	1/10W

＊New Parts

NX-AVS7 P.C.B. MAIN

Schm Ref.	PART NO.	Description			Remarks
*	XX698230	P.C.B.	NX-AVS7		A148A08F0000
* C1	XX698650	C.CE.CHP	100pF	50V	065858
* C2	XX698650	C.CE.CHP	100pF	50V	065858
* C3	XX698680	C.CE.CHP	0.01uF	50V	065610
* C4	XX698630	C.CE.CHP	0.01uF	50V	065610
* C5	XX698670	C.CE.CHP	0.01uF	50V	065610
* C6	XX698650	C.CE.CHP	100pF	50V	065858
* C7	XX698870	C.POL	0.01uF	50V	065000
* C8	XX698870	C.POL	0.01uF	50V	065000
* C9	XX698320	C.EL	1000uF	25V	066709
* C10	XX698310	C.EL	47uF	16V	066424
* C11	XX698290	C.EL	10uF	16V	066439
* C12	XX698300	C.EL	1uF	50V	066377
* C13	XX698640	C.CE.CHP	0.1uF	16V	065633
* C14	XX698870	C.POL	0.01uF	50V	065000
* C15	XX698330	C.EL	4700uF	5.5V	085174
* C16	XX698290	C.EL	10uF	16V	066439
* C201	XX698520	C.CE	10uF	16V	043158
* CB101	XX698350	CN.CORD	DS-KR 9P A148 BK		085226
* CB102	XX698350	CN.CORD	DS-KR 9P A148 BK		085226
* CN1	XX698400	CN.BS.PIN	B13B-PH-K-S		081754
* CN2	LX804480	CN.BS.PIN	B08B-PH-K-S		081725
* CN3	LX606060	CN.BS.PIN	2P		081436
* CN101	XX698410	CN.BS.PIN	PH 13P L		081755
* CN102	XX698380	CN.BS.PIN	S08B-PH-K-S		081756
* CN201	XX698390	CN.BS.PIN	S13B-PH-K-S		081732
* CN202	XX698390	CN.BS.PIN	S13B-PH-K-S		081732
* D1	XX698610	DIODE	SIVB20		085063
* D2	XX698700	DIODE.ZENR	MTZJ6.2B 6.2V		085286
* D3	XX698600	DIODE	ISS380		085177
* D4	XX698570	DIODE	ISS355		069444
* D5	XX698570	DIODE	ISS355		069444
* D6	XX698690	DIODE.ZENR	MTZJ5.1B		069087
* D7	XX698570	DIODE	ISS355		069444
* D8	XX698590	DIODE	ISS355		069444
* D201	XX698210	LED(re)	SLR-325MC		085068
* D202	XX698210	LED(re)	SLR-325MC		085068
* D203	XX698210	LED(re)	SLR-325MC		085068
* D204	XX698210	LED(re)	SLR-325MC		085068
* D205	XX698210	LED(re)	SLR-325MC		085068
* D206	XX698210	LED(re)	SLR-325MC		085068
* D207	XX698210	LED(re)	SLR-325MC		085068
* D208	XX698210	LED(re)	SLR-325MC		085068
* D209	XX698210	LED(re)	SLR-325MC		085068
* D210	XX698210	LED(re)	SLR-325MC		085068
* D211	XX698210	LED(re)	SLR-325MC		085068
* D212	XX698210	LED(re)	SLR-325MC		085068
* D213	XX698210	LED(re)	SLR-325MC		085068
* D214	XX698200	LED(re)	SLR-325VR		085066
* IC1	XX698180	IC (page 46)	M37471M4-875SP		085073
* IC1	XU723B00	IC (page 46)	M37471M4-890SP		
* JK1	XX698170	CN	YKF51-5001		085092
* Q1	XX698710	TR	DTA144EK		069270
* Q2	XX698750	TR	2SC4495		068893

＊New Parts

NX-AVS7 P.C.B. MAIN

Schm Ref.	PART NO.	Description			Remarks
* Q3	XX698730	TR	DTC114EKA		069349
* Q101	XX698720	TR	DTC144EK		069311
* Q102	XX698720	TR	DTC144EK		069311
* Q103	XX698720	TR	DTC144EK		069311
* Q104	XX698720	TR	DTC144EK		069311
* Q105	XX698720	TR	DTC144EK		069311
* Q106	XX698720	TR	DTC144EK		069311
* Q107	XX698720	TR	DTC144EK		069311
* Q108	XX698720	TR	DTC144EK		069311
* Q109	XX698720	TR	DTC144EK		069311
* Q110	XX698720	TR	DTC144EK		069311
* Q111	XX698720	TR	DTC144EK		069311
* Q112	XX698720	TR	DTC144EK		069311
* Q113	XX698720	TR	DTC144EK		069311
* Q114	XX698720	TR	DTC144EK		069311
* R1	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R2	XX699000	R.CAR.CHP	100Ω	1/8W	067677
* R3	XX699000	R.CAR.CHP	100Ω	1/8W	067677
* R4	XX699000	R.CAR.CHP	100Ω	1/8W	067677
* R5	XX699050	R.CAR.CHP	2.2KΩ	1/8W	067732
* R6	XX699050	R.CAR.CHP	2.2KΩ	1/8W	067732
* R7	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R8	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R9	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R10	XX699010	R.CAR.CHP	10KΩ	1/8W	067681
* R11	XX699010	R.CAR.CHP	10KΩ	1/8W	067681
* R14	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R15	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R16	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R17	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R18	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R19	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R20	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R21	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R22	XX699060	R.CAR.CHP	3.3KΩ	1/8W	067758
* R23	XX699070	R.CAR.CHP	4.7KΩ	1/8W	067779
* R24	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R25	XX699020	R.CAR.CHP	100kΩ	1/8W	067683
* R26	XX699000	R.CAR.CHP	100Ω	1/8W	067677
* R27	XX699050	R.CAR.CHP	2.2KΩ	1/8W	067732
* R28	XX699080	R.METAL	33Ω	2W	068019
* R29	XX698990	R.CAR.CHP	0Ω	1/8W	067674
* R31	XX698990	R.CAR.CHP	0Ω	1/8W	067674
* R33	XX698990	R.CAR.CHP	0Ω	1/8W	067674
* R101	XX699030	R.CAR.CHP	2KΩ	1/8W	067724
* R102	XX699010	R.CAR.CHP	10KΩ	1/8W	067681
* R103	XX699010	R.CAR.CHP	10KΩ	1/8W	067681
* R201	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R202	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R203	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R204	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R205	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R206	XX699040	R.CAR.CHP	220Ω	1/8W	067730

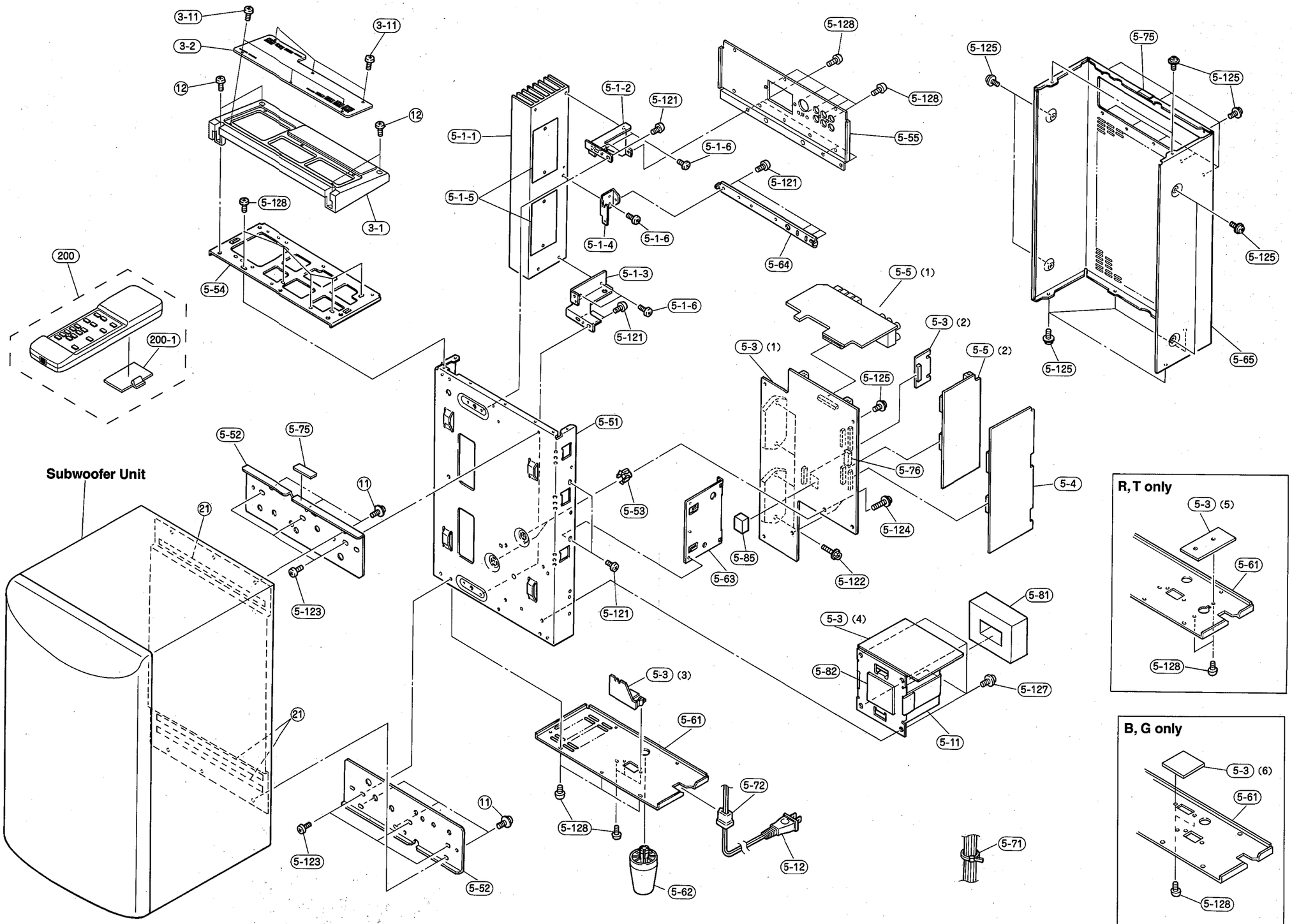
＊New Parts

NX-AVS7 P.C.B. MAIN

Schm Ref.	PART NO.	Description			Remarks
* R207	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R208	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R209	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R210	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R211	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R212	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R213	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* R214	XX699040	R.CAR.CHP	220Ω	1/8W	067730
* SW101	XX698560	SW.TACT	SKHVBB051A		072682
* SW103	XX698560	SW.TACT	SKHVBB051A		072682
* SW102	XX698560	SW.TACT	SKHVBB051A		072682
* U201	XX698920	L.DTCT	GP1U261X		085069
* XL1	XX698530	RSNR.CE	CST8 00MIW		085096
*	XX698880	LUG	MET37-0001		075878
*	XX698360	CN.CORD	PH-PH 13P A148 BK		085224
*	XX698340	CN.CORD	PH-PH 8P A148BK		085225
*	XX698190	SOCKET.IC	CLC3042-0101		085093
*	XX698800	SCR	PN S-B M3X8 ZC		075152
	EP600190	SCR.BND.HD	3x8 BL		075638
*	XX698980	HEAT.SINK	TR A148A0		085029

＊New Parts

■ SW-AVS7 EXPLODED VIEW



R, T only

B, G only

■ SW-AVS7 MECHANICAL PARTS

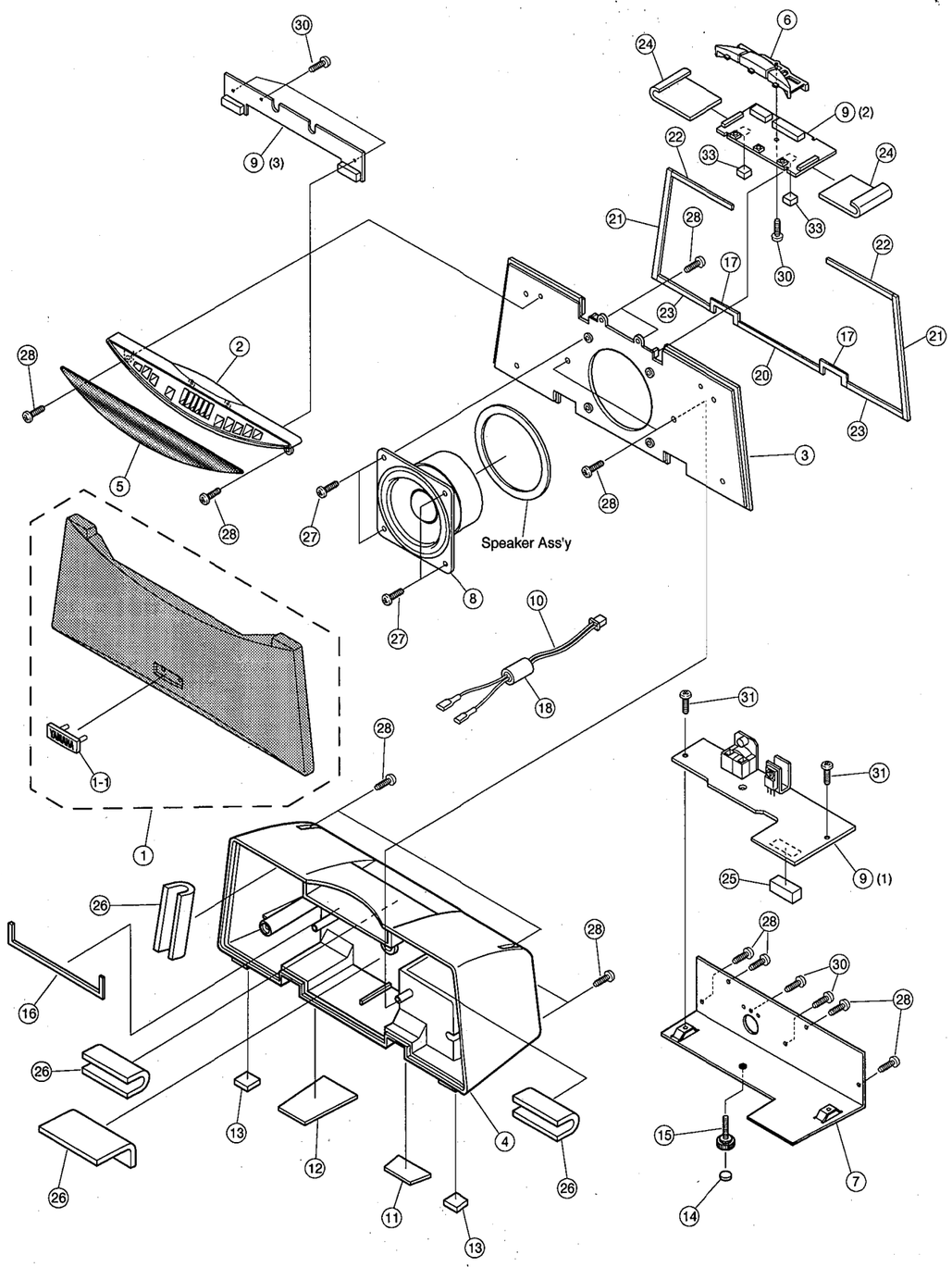
	Ref. No.	PART NO.	Description	Remarks	Markets
	3- 1	VV982100	GRILLE		
	3- 2	VY738500	PLATE, GRILL		
	3-11	EX601590	BIND HEAD P-TITE SCREW 2.6x8 FCRM3-BL		
	5-1-1	VV967500	HEAT SINK		
	5-1-2	VV967100	HOLDER, HS-L		
	5-1-3	VV967200	HOLDER, HS-R		
	5-1-4	VV967400	HOLDER, HS-MID		
	5-1-5	VV877700	RADIATION SHEET 48x80 TBM-51W		
	5-1-6	Ei330086	BIND HEAD B-TITE SCREW 3x8 FCRM3-BL		
*	5-3	V2147100	P.C.B. ASS'Y AMP		(U)
*	5-3	V2147200	P.C.B. ASS'Y AMP		(C)
*	5-3	V2147300	P.C.B. ASS'Y AMP		(RT)
*	5-3	V2147400	P.C.B. ASS'Y AMP		(A)
*	5-3	V2147500	P.C.B. ASS'Y AMP		(BG)
*	5-4	V2269400	P.C.B. ASS'Y DSP		
*	5-5	V2147700	P.C.B. ASS'Y VOLUME		
⚠	5-11	XS923A00	POWER TRANSFORMER		(UC)
⚠	5-11	XS924A00	POWER TRANSFORMER		(RT)
⚠	5-11	XS925A00	POWER TRANSFORMER		(A)
⚠	5-11	XS926A00	POWER TRANSFORMER		(BG)
⚠	5-12	V2296800	POWER CORD ASS'Y		(A)
⚠	5-12	VL238100	POWER CORD ASS'Y		(R)
⚠	5-12	VN363700	POWER CORD ASS'Y		(G)
⚠	5-12	VV437200	POWER CORD ASS'Y		(UC)
⚠	5-12	VV437300	POWER CORD ASS'Y		(B)
⚠	5-12	VZ542500	POWER CORD ASS'Y		(T)
	5-51	VV966300	CHASSIS		
	5-52	VV966800	PLATE, CHASSIS		
	5-53	VR264400	SPACER H8		
	5-54	VV966500	PANEL, TOP		
*	5-55	V2010900	PANEL, REAR		
*	5-61	V2011100	PANEL, BOTTOM		(U)
*	5-61	V2011200	PANEL, BOTTOM		(C)
*	5-61	V2011300	PANEL, BOTTOM		(RT)
*	5-61	V2011400	PANEL, BOTTOM		(A)
*	5-61	V2011500	PANEL, BOTTOM		(BG)
	5-62	VV981900	LEG HA02055-80		
	5-63	VV967000	HOLDER, PANEL		
	5-64	VV967300	FRAME		
	5-65	VV966200	TOP COVER		
	5-71	VU590000	BINDING TIE CBTD001B		
	5-72	VN158600	CORD STOPPER No.2104		
	5-75	VZ221400	DAMPER 1x5x20		
	5-76	VZ544200	SPACER T13x10x20		
	5-81	VZ699800	DAMPER 31x60x80		
	5-82	VZ709700	DAMPER 1x50x50		
*	5-85	V2126100	SPACER T14x15x15		
	5-121	Ei330086	BIND HEAD B-TITE SCREW 3x8 FCRM3-BL		
	5-122	VK865300	HEX. HEAD TAP. SCREW WITH WS 3x18 FCRM3-BL		
	5-123	Ei340086	BIND HEAD TAPPING SCREW 4x8 FCRM3-BL		
	5-124	VT669400	PW HEAD B-TITE SCREW 3x15-8 MFC2		
	5-125	VE529700	PW HEAD B-TITE SCREW 3x6-8 FCRM3-BL		
	5-127	VU081700	PAN W.HEAD TAPPING SCREW 4x6-10 MFZN2-BL		

* New Parts

	Ref. No.	PART NO.	Description	Remarks	Markets
	5-128	VN413300	BIND HEAD BONDING B-T. SCREW 3x8 MFZN2-BL		
	11	VU081700	PAN W.HEAD TAPPING SCREW 4x6-10 MFZN2-BL		
	12	Ei330086	BIND HEAD B-TITE SCREW 3x8 FCRM3-BL		
	21	V2175800	DAMPER T2x10x220		
			ACCESSORIES		
*	200	V0045500	REMOTE CONTROL TRANSMITTER SBAR20347A SYS8		
	200-1	CX675150	LID 54x32.9BLALPS		
*		V2152200	DIN PLUG 3m		
*		V2168300	RCA PIN CORD 3m		
			BATTERY, MANGANESE SUM-3,AA,R06		

* New Parts

■ NX-AVS7 EXPLODED VIEW

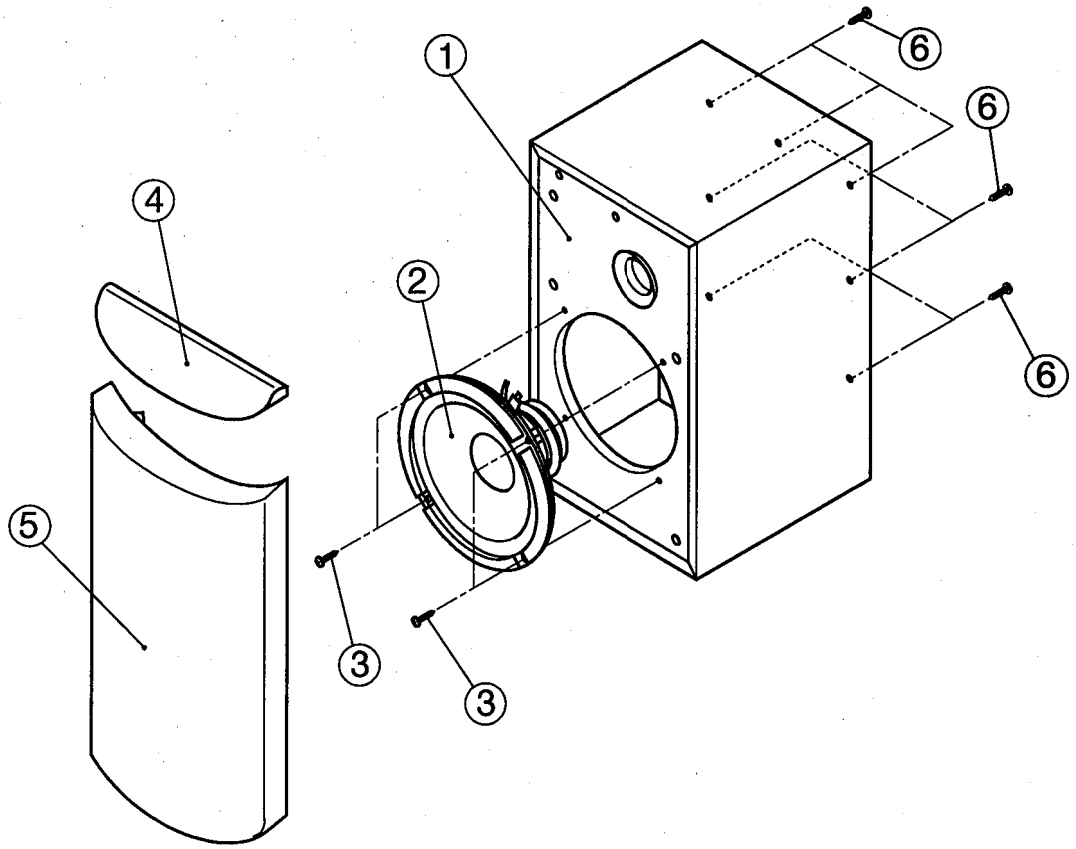


■ NX-AVS7 MECHANICAL PARTS

	Ref. No.	PART NO.	Description	Remarks	Markets
*		XX698540	CENTER SPEAKER	U080L03N1595	
*	1	XX698280	GRILLE ASS'Y	B613700	
*	1-1	VT136600	EMBLEM	051551500	
*	2	XX698840	PANEL, FRAME	0511121100	
*	3	XX698820	BAFFLE	05371600	
*	4	XX698890	REAR CASE	056048300	
*	5	XX698830	PANEL, WINDOW	0511121400	
*	6	XX698860	BUTTON	0511120201	
*	7	XX698910	REAR PANEL	0511120301	
*	8	XU767A00	SPEAKER	C080P07N1598	
*	9	XX698230	P.C.B. ASS'Y	A148A08F0000	
*	10	XX698370	CORD, SP	054319800	
*	11	XX698960	CONCEALED CAP	A 0511121200	
*	12	XX698970	CONCEALED CAP	B 0511121300	
*	13	XX698930	FOOT	0561156300	
*	14	XX698940	FOOT	SHAFT 0561156400	
*	15	XX698510	SHAFT	M4 054024000	
*	16	XX698420	SEAL	BAFFLE 0561156500	
*	17	XX698430	SEAL	BAFFLE 0561156600	
*	18	XX698440	SEAL	SP CORD 0561156700	
*	20	XX698460	SEAL	BAFFLE 0561156900	
*	21	XX698470	SEAL	BAFFLE 0561156901	
*	22	XX698480	SEAL	BAFFLE 0561156902	
*	23	XX698490	SEAL	BAFFLE 0561156903	
*	24	XX698500	SEAL	SW PCB 0561611100	
*	25	XX698270	CUSHION	MAIN PCB 0561157700	
*	26	XX698620	SOUND ABSORBER	0564600800	
*	27	XX698790	SCREW	4x10 SPEAKER 05409900	
*	28	XX698780	SCREW	3x12 05409611	
*	30	XX698760	SCREW	3x8 PCB ASS'Y 054024100	
*	31	XX698770	SCREW	3x6 PCB 054024101	
*	33	XX698450	CUSHION	PCB 0561610200	
		NX635860	EFFECT SPEAKER	NX-AV1 S080H09N1598	
			ACCESSORIES		
		AX624360	WALL BRACKET	051626401	
		AX624330	BRACKET	051625900	
		XX698950	FASTENER TAPE	0511121800	
		XX698250	SPEAKER CABLE	15mx2 055048100	
		XX698240	SPEAKER CABLE	6m x2 055047900	
		XX698810	SCREW ASS'Y	B5940405	
		NX635930	STAND ASS'Y	CENTER, FOOT x4 B5916009	

* New Parts

■ SW-AVS7 EXPLODED VIEW (Sub Woofer Unit)

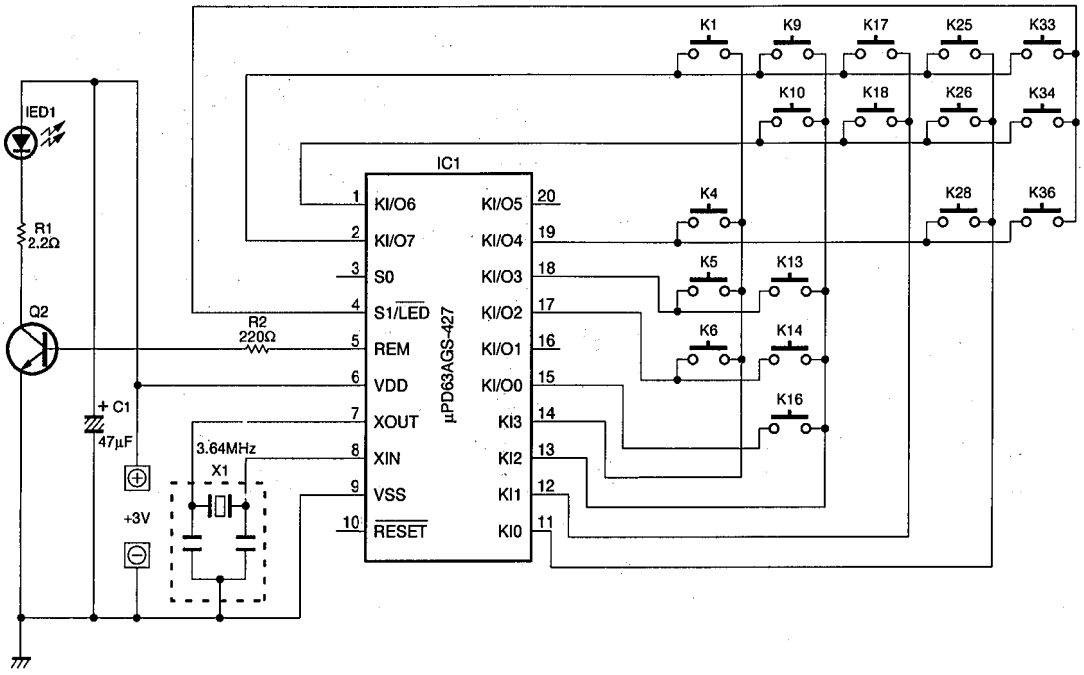


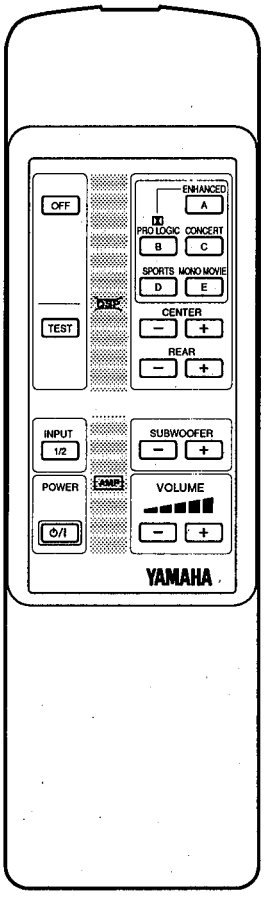
Ref. No.	PART NO.	Description		Remarks	Markets
1	NX635880	ENCLOSURE	SW-AV1	053820700	UCRAT
1	NX635890	ENCLOSURE	SW-AV1	053820701	BG
2	JX601740	SPEAKER		C200R10N1513	
3	EX604140	SCREW	4x20	994043042017	
4	DX603680	TOP PANEL		0511114500	
5	NX635900	GRILLE ASS'Y		B6134200	
6	EQ141256	ROUND HEAD WOOD SCREW	4.1x25 ZMC2-BL		

*New Parts

REMOTE CONTROL TRANSMITTER

■ SCHEMATIC DIAGRAM





Key No.	FUNCTION		CUSTOM (HEX)	DATA (HEX)	CUSTOM (BIN)	DATA (BIN)
1	ENHANCED	A	78	91	0001 1110	1000 1001
2			78	96	0001 1110	0110 1001
3			78	97	0001 1110	1110 1001
4	OFF		78	90	0001 1110	0000 1001
5	CONCERT	C	78	93	0001 1110	1100 1001
6	PRO LOGIC	B	78	92	0001 1110	0100 1001
7			78	99	0001 1110	1001 1001
8			78	98	0001 1110	0001 1001
9	MONO MOVIE	E	78	95	0001 1110	1010 1001
10	SPORTS	D	78	94	0001 1110	0010 1001
11			78	9B	0001 1110	1101 1001
12			78	9A	0001 1110	0101 1001
13	CENTER +		78	86	0001 1110	0110 0001
14	CENTER –		78	87	0001 1110	1110 0001
15			78	9C	0001 1110	0011 1001
16	TEST		78	5F	0001 1110	1111 1010
17	REAR +		78	88	0001 1110	0001 0001
18	REAR –		78	89	0001 1110	1001 0001
19			78	9E	0001 1110	0111 1001
20			78	9D	0001 1110	1011 1001
21			78	8A	0001 1110	0101 0001
22			78	8B	0001 1110	1101 0001
23			78	8C	0001 1110	0011 0001
24			78	9F	0001 1110	1111 1001
25	SUBWOOFER +		78	4C	0001 1110	0011 0010
26	SUBWOOFER –		78	4D	0001 1110	1011 0010
27			78	8D	0001 1110	1011 0001
28	INPUT 1/2		78	5E	0001 1110	0111 1010
29			78	C1	0001 1110	1000 0011
30			78	C0	0001 1110	0000 0011
31			78	8F	0001 1110	1111 0001
32			78	8E	0001 1110	0111 0001
33	VOLUME +		78	1E	0001 1110	0111 1000
34	VOLUME –		78	1F	0001 1110	1111 1000
35			78	C2	0001 1110	0100 0011
36	POWER ⏻/I		78	0F	0001 1110	1111 0000

■ MICROPROCESSOR & VOLUME FUNCTION (VOLUME LED lighting pattern changed)

• The specifications for the microprocessor (IC1) of NX-AVS7 are modified as follows.

Before modification		After modification
IC1 : M37471M4-875SP (XU723A0) (P/No. XX698180)	⇨	IC1 : M37471M4-890SP (XU723B0) (P/No. XU723B00)

• Main volume (UP/DOWN)

Before modification

VOLUME LED	dB	VOLUME LED	dB	VOLUME LED	dB
[||||||]	0	[||||··]	-22	[||····]	-44
[||||||]	-1	[||||··]	-23	[||····]	-45
[||||||]	-2	[||||··]	-24	[||····]	-46
[||||||]	-3	[||||··]	-25	[||····]	-47
[||||||]	-4	[||||··]	-26	[|·····]	-48
[||||||]	-5	[||||··]	-27	[|·····]	-49
[||||||]	-6	[||||··]	-28	[|·····]	-50
[||||||]	-7	[||||··]	-29	[|·····]	-51
[||||||]	-8	[|||···]	-30	[|·····]	-52
[||||||]	-9	[|||···]	-31	[|·····]	-53
[|||||·]	-10	[|||···]	-32	[|·····]	-54
[|||||·]	-11	[|||···]	-33	[|·····]	-55
[|||||·]	-12	[|||···]	-34	[|·····]	-56
[|||||·]	-13	[|||···]	-35	[·····]	-57
[|||||·]	-14	[|||···]	-36	[·····]	-58
[|||||·]	-15	[|||···]	-37	[·····]	-59
[|||||·]	-16	[|||···]	-38	[·····]	-61
[|||||·]	-17	[||····]	-39	[·····]	-64
[|||||·]	-18	[||····]	-40	[·····]	-68
[|||||·]	-19	[||····]	-41	[·····]	-73
[||||··]	-20	[||····]	-42	[·····]	-79
[||||··]	-21	[||····]	-43	[·····]	-∞

* When the VOLUME is at MIN (∞), the AMP MUTE function turns on.

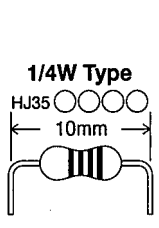
After modification

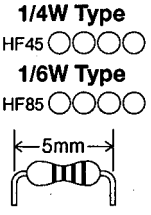
VOLUME LED	dB	VOLUME LED	dB	VOLUME LED	dB
[||||||]	0	[|||||·]	-22	[|||···]	-44
[||||||]	-1	[|||||·]	-23	[|||···]	-45
[||||||]	-2	[||||··]	-24	[|||···]	-46
[||||||]	-3	[||||··]	-25	[|||···]	-47
[||||||]	-4	[||||··]	-26	[||····]	-48
[||||||]	-5	[||||··]	-27	[||····]	-49
[||||||]	-6	[||||··]	-28	[||····]	-50
[||||||]	-7	[||||··]	-29	[||····]	-51
[||||||]	-8	[||||··]	-30	[||····]	-52
[||||||]	-9	[||||··]	-31	[||····]	-53
[||||||]	-10	[||||··]	-32	[||····]	-54
[||||||]	-11	[||||··]	-33	[||····]	-55
[|||||·]	-12	[||||··]	-34	[||····]	-56
[|||||·]	-13	[||||··]	-35	[||····]	-57
[|||||·]	-14	[|||···]	-36	[||····]	-58
[|||||·]	-15	[|||···]	-37	[||····]	-59
[|||||·]	-16	[|||···]	-38	[|·····]	-61
[|||||·]	-17	[|||···]	-39	[|·····]	-64
[|||||·]	-18	[|||···]	-40	[|·····]	-68
[|||||·]	-19	[|||···]	-41	[|·····]	-73
[|||||·]	-20	[|||···]	-42	[|·····]	-79
[|||||·]	-21	[|||···]	-43	[·····]	-∞

* When the VOLUME is at MIN (∞), the AMP MUTE function turns on.

Parts List for Carbon Resistors

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	HF85 3100	10 kΩ	HF45 7100	HF45 7100
1.8 Ω	HJ35 3180	※	11 kΩ	HF45 7110	HF45 7110
2.2 Ω	HJ35 3220	HF85 3220	12 kΩ	HJ35 7120	HF85 7120
3.3 Ω	HJ35 3330	HF85 3330	13 kΩ	HF45 7130	HF45 7130
4.7 Ω	HJ35 3470	HF85 3470	15 kΩ	HF45 7150	HF45 7150
5.6 Ω	HJ35 3560	HF85 3560	18 kΩ	HF45 7180	HF45 7180
10 Ω	HF45 4100	HF45 4100	22 kΩ	HF45 7220	HF45 7220
15 Ω	HJ35 4150	HF85 4150	24 kΩ	HF45 7240	HF45 7240
22 Ω	HF45 4220	HF45 4220	27 kΩ	HJ35 7270	HF85 7270
27 Ω	HJ35 4270	HF85 4270	30 kΩ	HF45 7300	HF45 7300
33 Ω	HF45 4330	HF45 4330	33 kΩ	HF45 7330	HF45 7330
39 Ω	HJ35 4470	HF85 4390	36 kΩ	HF45 7360	HF45 7360
47 Ω	HF45 4470	HF45 4470	39 kΩ	HF45 7390	HF45 7390
56 Ω	HF45 4560	HF45 4560	47 kΩ	HF45 7470	HF45 7470
68 Ω	HF45 4680	HF45 4680	51 kΩ	HF45 7510	HF45 7510
75 Ω	HF45 4750	HF45 4750	56 kΩ	HF45 7560	HF45 7560
82 Ω	HF45 4820	HF45 4820	62 kΩ	HF45 7620	HF45 7620
91 Ω	HF45 4910	HF45 4910	68 kΩ	HF45 7680	HF45 7680
100 Ω	HF45 5100	HF45 5100	82 kΩ	HF45 7820	HF45 7820
110 Ω	HJ35 5110	HF85 5110	91 kΩ	HF45 7910	HF45 7910
120 Ω	HF45 5120	HF45 5120	100 kΩ	HF45 8100	HF45 8100
150 Ω	HF45 5150	HF45 5150	110 kΩ	HF45 8110	HF45 8110
160 Ω	HJ35 5160	※	120 kΩ	HF45 8120	HF45 8120
180 Ω	HF45 5180	HF45 5180	150 kΩ	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 kΩ	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 kΩ	HJ35 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 kΩ	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 kΩ	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 kΩ	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 kΩ	HJ35 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 kΩ	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 kΩ	HJ35 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 kΩ	HJ35 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 kΩ	HJ35 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 MΩ	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.2 MΩ	HJ35 9120	※
1.0 kΩ	HF45 6100	HF45 6100	1.5 MΩ	HJ35 9150	HF85 9150
1.2 kΩ	HF45 6120	HF45 6120	1.8 MΩ	HJ35 9180	HF85 9180
1.5 kΩ	HF45 6150	HF45 6150	2.2 MΩ	HJ35 9220	HF85 9220
1.8 kΩ	HF45 6180	HF45 6180	3.3 MΩ	HJ35 9330	HF85 9330
2.0 kΩ	HJ35 6200	HF85 6200	3.9 MΩ	HJ35 9390	※
2.2 kΩ	HF45 6220	HF45 6220	4.7 MΩ	HJ35 9470	HF85 9470
2.4 kΩ	HJ35 6240	HF85 6240			
2.7 kΩ	HF45 6270	HF45 6270			
3.0 kΩ	HF45 6300	HF45 6300			
3.3 kΩ	HF45 6330	HF45 6330			
3.6 kΩ	HJ35 6360	HF85 6360			
3.9 kΩ	HF45 6390	HF45 6390			
4.7 kΩ	HF45 6470	HF45 6470			
5.1 kΩ	HF45 6510	HF45 6510			
5.6 kΩ	HF45 6560	HF45 6560			
6.8 kΩ	HF45 6680	HF45 6680			
8.2 kΩ	HF45 6820	HF45 6820			
9.1 kΩ	HF45 6910	HF45 6910			





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