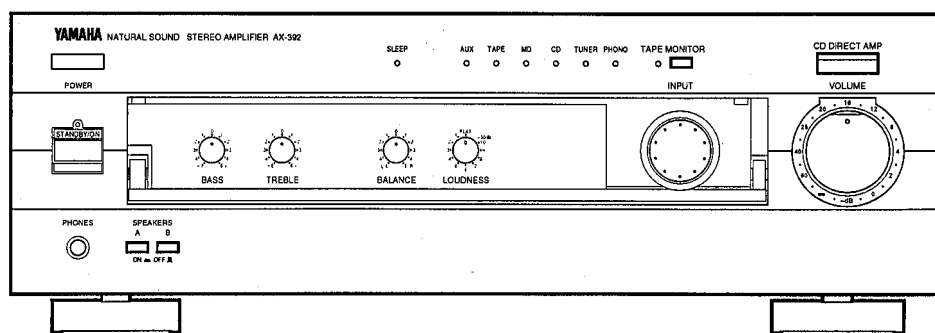
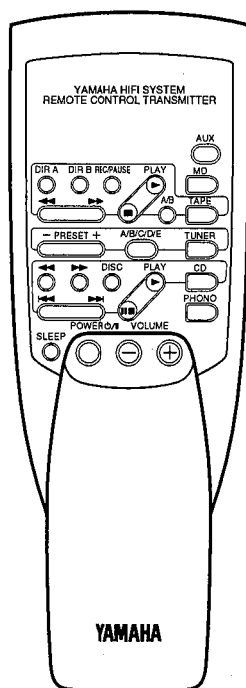


# STEREO AMPLIFIER AX-392

## SERVICE MANUAL



### 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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100634

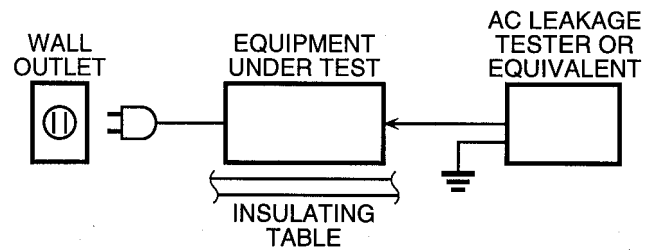
**YAMAHA**

YAMAHA CORPORATION  
P.O.Box 1, Hamamatsu, Japan

1.45K-104 Printed in Japan '98.3

## ■ TO SERVICE PERSONNEL

1. Critical Components Information.  
Components having special characteristics are marked  $\Delta$  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 0.15 $\mu$ F.
  - Leakage current must not exceed 0.5mA.
  - Be sure to test for leakage with the AC plug in both polarities.



## WARNING: CHEMICAL CONTENT NOTICE!

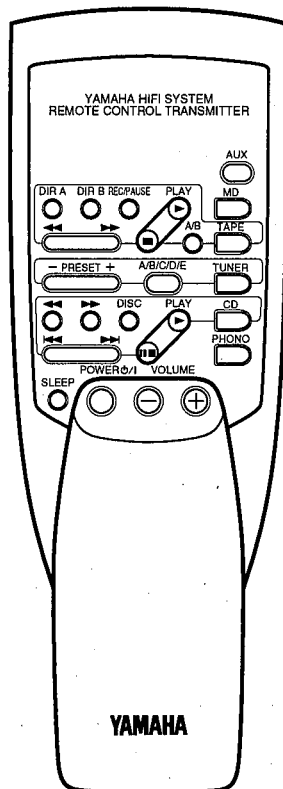
The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and /or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects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

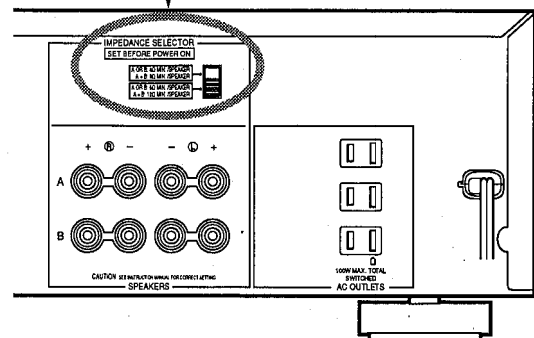
If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

## ■ REMOTE CONTROL PANEL



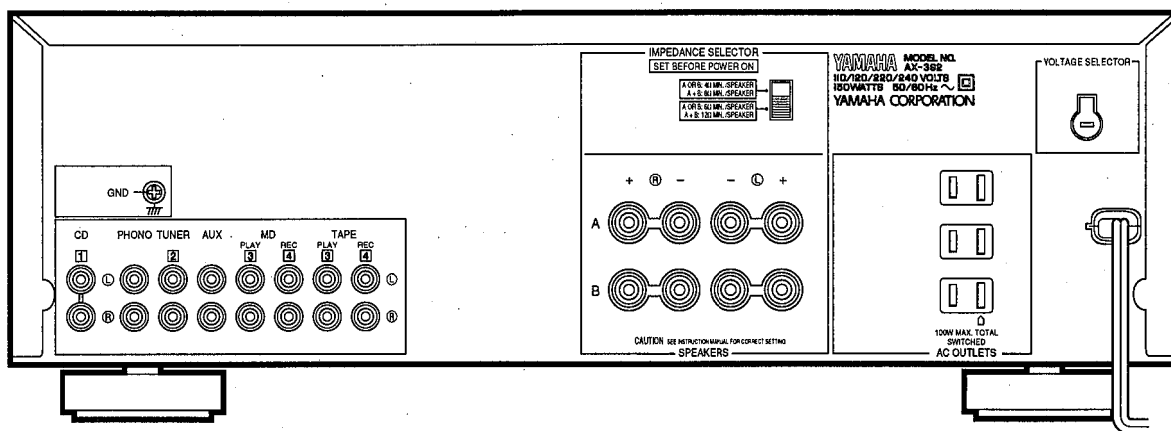
**WARNING:**  
Do not change the IMPEDANCE SELECTOR switch setting while the power to this unit is on, otherwise this unit may be damaged.

### IMPEDANCE SELECTOR

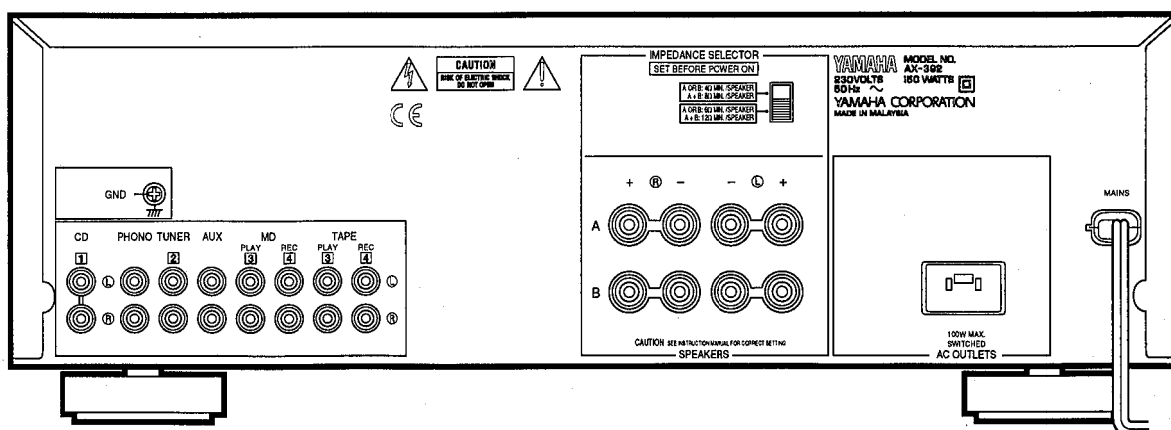


## REAR PANELS

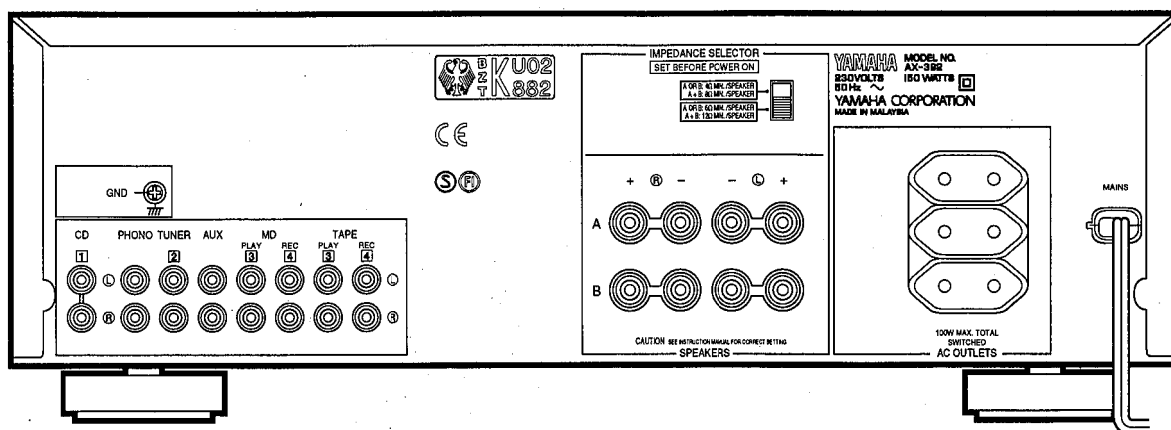
### R, T models



### B model



### G model



## SPECIFICATIONS

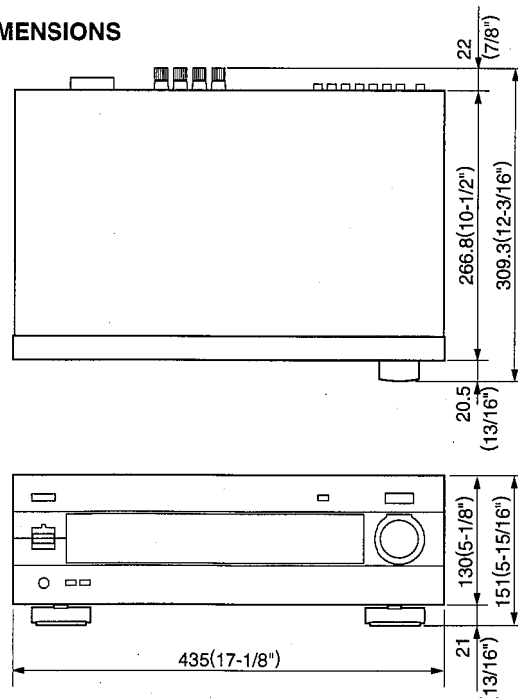
<b>Minimum RMS Output Power per Channel</b>		
20Hz to 20kHz, 0.04% THD, 8Ω	60W+60W	
20Hz to 20kHz, 0.08% THD, 6Ω	70W+70W	
<b>Dynamic Power per Channel (IHF)</b>		
8/6/4/2Ω	100/120/140/150W	
<b>DIN Standard Output Power per Channel</b>		
1kHz, 0.7% THD, 4Ω (G, B models only)	95W	
<b>IEC Power</b>		
1kHz, 0.04% THD 8Ω (G, B models only)	75W	
<b>Power Band Width</b>		
0.1% THD, 30W, 8Ω	10Hz to 50kHz	
<b>Damping Factor</b>		
20Hz to 20kHz, 8Ω	100 or more	
<b>Maximum Power (EIAJ)</b>		
1kHz, 10% THD, 6Ω (R, T models only)	110W	
<b>Input Sensitivity / Impedance</b>		
PHONO	2.5mV / 47kΩ	
CD etc.	150mV / 47kΩ	
<b>Maximum Input Signal Level</b>		
PHONO, 1kHz, 0.04% THD	90mV	
<b>Output Level / Impedance</b>		
REC OUT	150mV / 1kΩ	
<b>Headphone Jack Rated Output / Impedance</b>		
0.04% THD, RL=8Ω	0.31V / 560Ω	
<b>Frequency Response</b>		
20Hz to 20kHz, CD etc.	0±0.5dB	
<b>RIAA Equalization Deviation</b>		
PHONO	±0.5dB	
<b>Tortal Harmonic Distortion</b>		
PHONO to REC OUT, 1V	0.02%	
CD etc. to SP OUT, 30W/8Ω	0.02%	
<b>Signal to Noise Ratio (IHF-A-Network)</b>		
PHONO, 5mV Input Shorted	82dB	
CD DIRECT AMP ON, Shorted	108dB	
<b>Residual Noise (IHF-A-Network)</b>		
CD DIRECT AMP ON	35μV	
CD DIRECT AMP OFF	100μV	
<b>Channel Separation</b>		
CD etc. Input 5.1kΩ Terminated, 1kHz	60dB	
<b>Tone Control Characteristics</b>		
BASS: Boost/cut	±10dB (20Hz)	
Turnover Frequency	350Hz	
TREBLE: Boost/cut	±10dB (20kHz)	
Turnover Frequency	3.5kHz	

<b>Continuous Loudness Control</b>		
Attenuation (Level related equalization)	-30dB (1kHz)	
<b>Power Supply</b>		
R, T models	AC110/120/220/240V, 50/60Hz	
B, G models	AC230V, 50Hz	
<b>Power Consumption</b>		
R, T models	150W	
B, G models	150W	
<b>AC Outlet (Switched)</b>		
R, T, G models	100W Max x 3	
B model	100W Max x 1	
<b>Dimensions (W x H x D)</b>		
	435 x 151 x 309.3mm	
	(17-1/8" x 5-15/16" x 12-3/16")	
<b>Weight</b>		
	7.6 kg (16lbs 12oz)	

\* Specifications subject to change without notice.

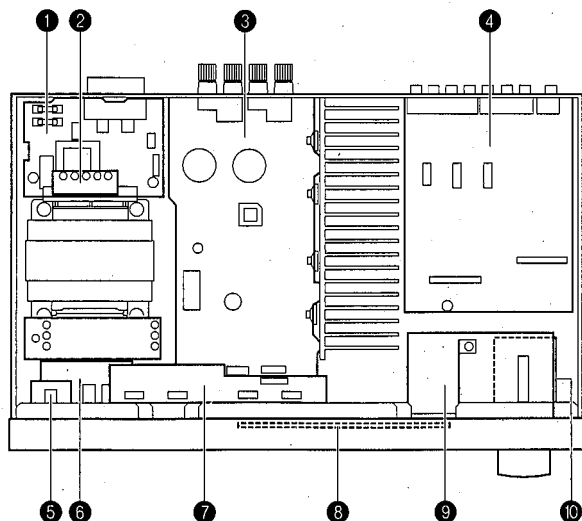
R ..... General model      T ..... China model  
B ..... British model      G .... European model

## DIMENSIONS



Unit : mm (inch)

## INTERNAL VIEW



- ① MAIN P.C.B. (2)
- ② FUNCTION P.C.B. (10)
- ③ MAIN P.C.B. (1)
- ④ FUNCTION P.C.B. (1)
- ⑤ FUNCTION P.C.B. (8)
- ⑥ MAIN P.C.B. (3)
- ⑦ FUNCTION P.C.B. (4)
- ⑧ FUNCTION P.C.B. (5)
- ⑨ FUNCTION P.C.B. (2)
- ⑩ FUNCTION P.C.B. (3)

## ■ DISASSEMBLY PROCEDURES

(Remove parts in the order as numbered.)

### 1. Removal of Top Cover

Remove 4 screws (①) and 4 screws (②) in Fig. 1.

### 2. Removal of Front Panel

a. Remove 6 screws (③) in Fig. 1.

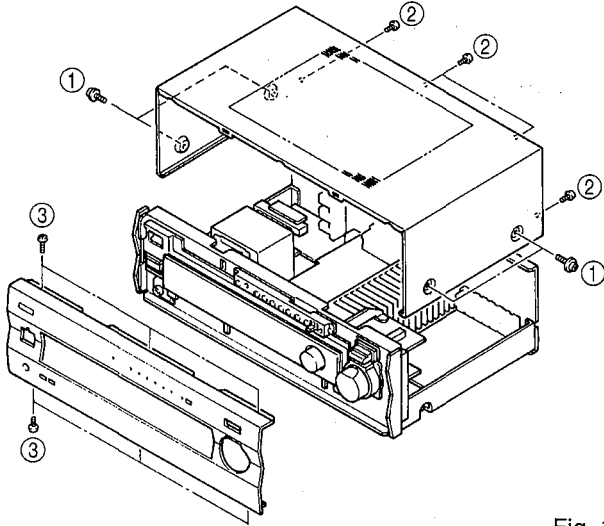
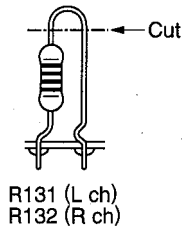
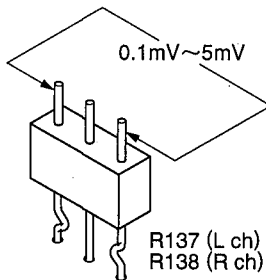


Fig. 1

## ■ ADJUSTMENTS

### Confirmation of Idling Current

- Right after power is turned on, confirm that the voltage across the terminals of R137 (L ch) and R138 (R ch) are between 0.1mV to 5mV.
- If it exceeds 5.1mV, open (cut off) R131 (L ch), R132 (L ch) and reconfirm the voltage.



### 3. Checking and Parts Replacement of P.C.B. MAIN (1)

- Disconnect the power cord from the AC outlet.
- Remove 5 screws (④) fixing the Speaker terminal, Impedance Selector and Heat Sink in Fig. 2.
- Remove 3 screws (⑤) fixing the Main Unit in Fig. 3.
- Detach connector terminal (CB104) in Fig. 3.
- Operating checks can be taken by shorting between following test points in Fig. 3.

Short Point
TP101 and TP102
TP103 and TP104
TP105 and TP106

- Place the Main Unit on its side as shown in Fig. 4.
- Connect the power cord and turn ON the POWER switch.

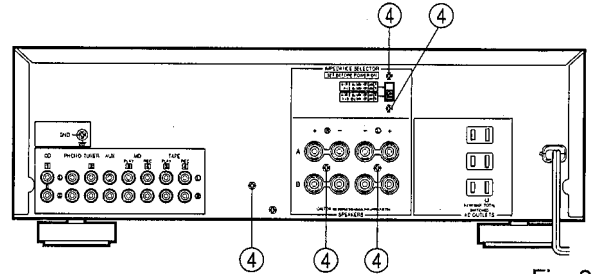


Fig. 2

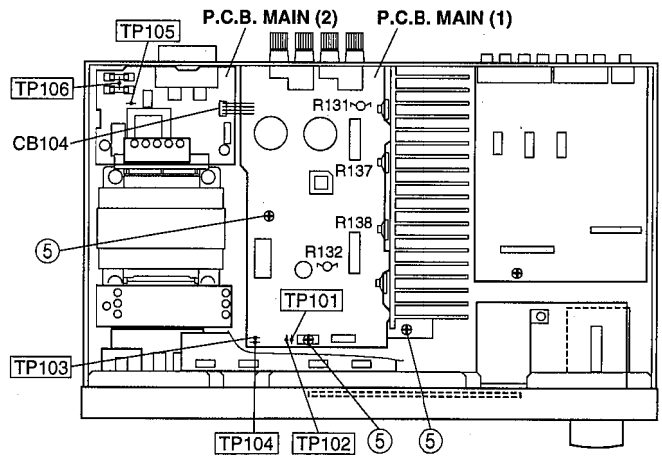


Fig. 3

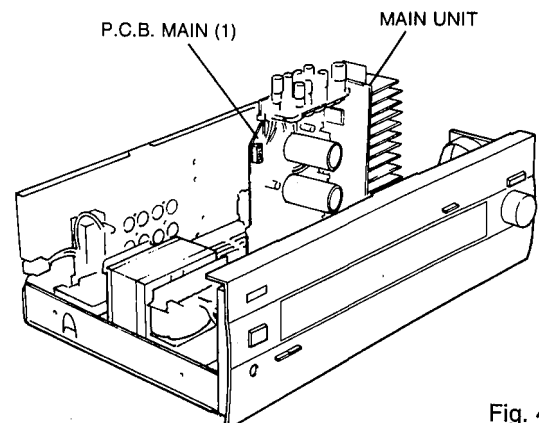
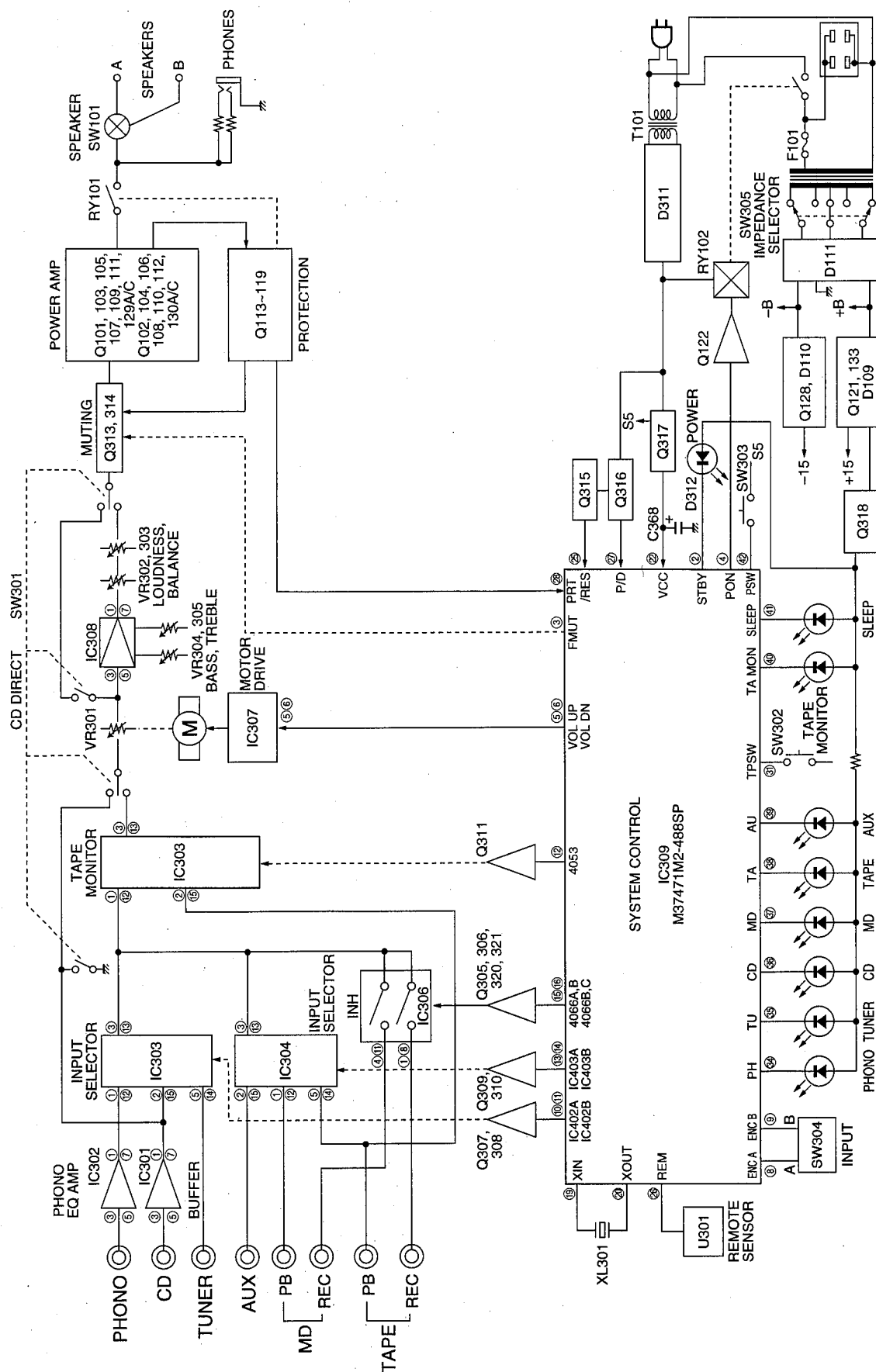


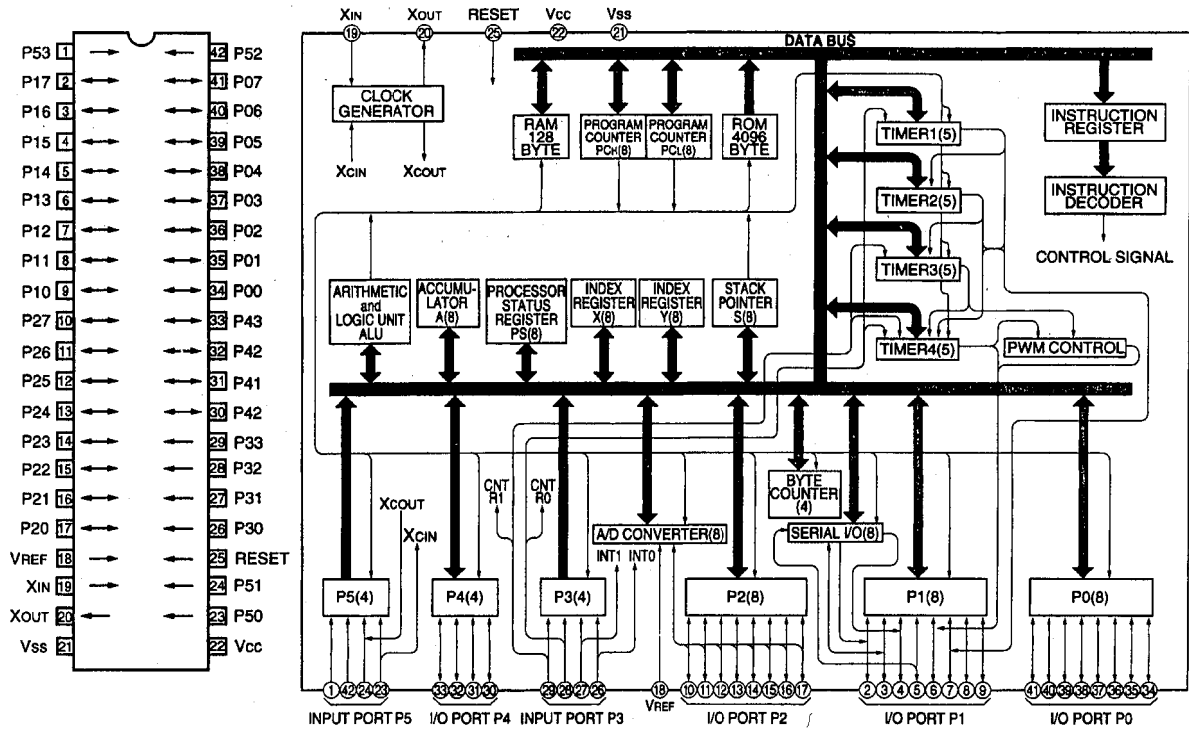
Fig. 4

# BLOCK DIAGRAM



# μ-COM DATA

IC309 : M37471M2-488SP 4 bit μ-COM



No.	Port	I/O	Function	Logic
1	P53	O	GND	
2	P17	O	Standby (POWER LED)	L:ON
3	P16	O	Full Mute	L:ON
4	P15	O	Outlet Relay ON	H:ON
5	P14	O	Main Volume (Up)	
6	P13	O	Main Volume (Down)	
7	P12		NC	
8	P11	I	Rotary Encoder (SW501,A)	
9	P10	I	Rotary Encoder (SW501,B)	
10	P27	I	Input Selector (IC402,B)	
11	P26	I	Input Selector (IC402,A)	
12	P25	I	TAPE Selector (4053)	
13	P24	I	TAPE/AUX Selector (IC403,A)	
14	P23	I	TAPE/AUX Selector (IC403,B)	
15	P22	O	MD Rec Out Prohibit (4066,A/D)	L: prohibit
16	P21	O	TAPE Rec Out Prohibit (4066,B/C)	L: prohibit
17	P20	O	NC	
18	VREF	I	A/D Voltage	
19	XIN	I	Clock (4MHz)	
20	XOUT	O	Clock (4MHz)	
21	VSS		GND	

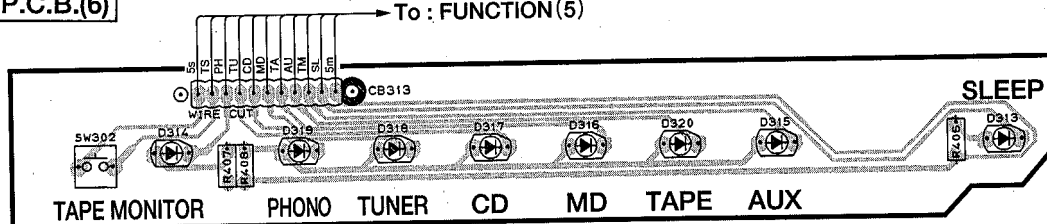
No.	Port	I/O	Function	Logic
42	P52	I	POWER Switch	H:ON
41	P07	I	SLEEP LED	L:ON
40	P06	I	TAPE MONITOR LED	L:ON
39	P05	I	AUX LED	L:ON
38	P04	I	TAPE LED	L:ON
37	P03	I	MD LED	L:ON
36	P02	I	CD LED	L:ON
35	P01	I	TUNER LED	L:ON
34	P00	I	PHONO LED	L:ON
33	P43		GND	
32	P42		GND	
31	P41	I	TAPE MONITOR Switch	H:ON
30	P40	I	PURE DIRECT Switch (No used)	H:ON
29	P33		GND	
28	P32	I	Protection Detect	L: protect
27	P31	I	Power Down Detect (INT1)	L: down
26	P30	I	Remotecontrol	INT0
25	RESET	I	m-COM Reset	L: reset
24	P51		GND	
23	P50		GND	
22	VCC		5V	

**FUNCTION P.C.B.(1)**



**TO : FUNCTION(5)**

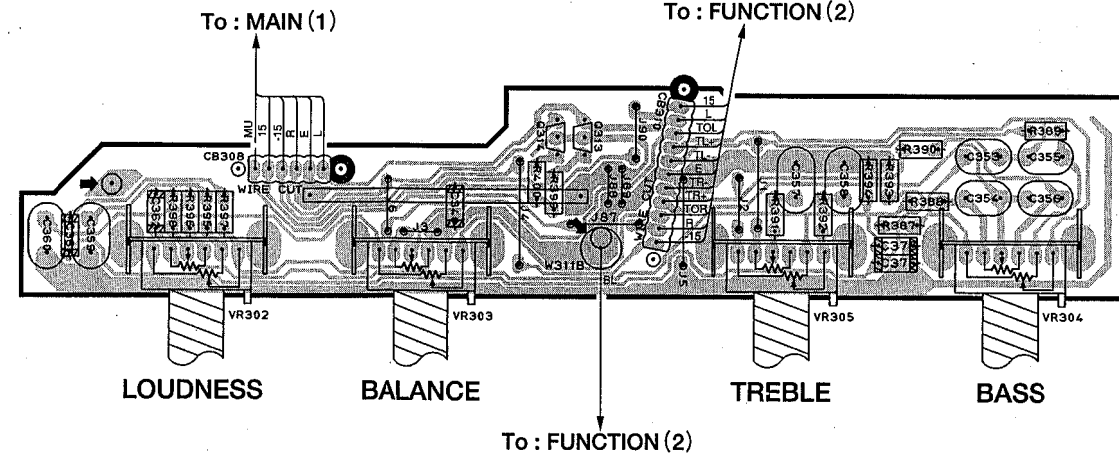
→ To : FUNCTION(5)



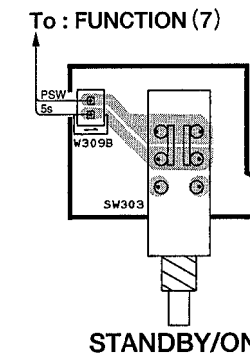


1

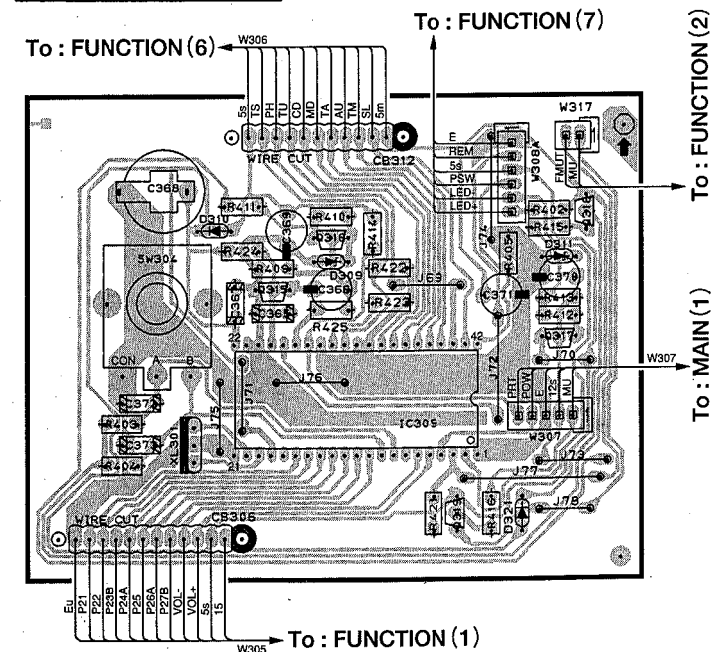
**FUNCTION P.C.B.(4)**



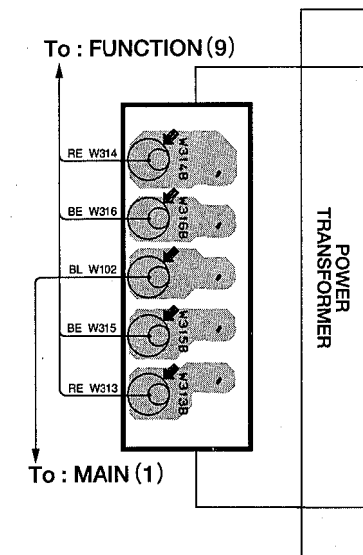
FUNCTION P.C.B.(8)



**FUNCTION P.C.B.(5)**

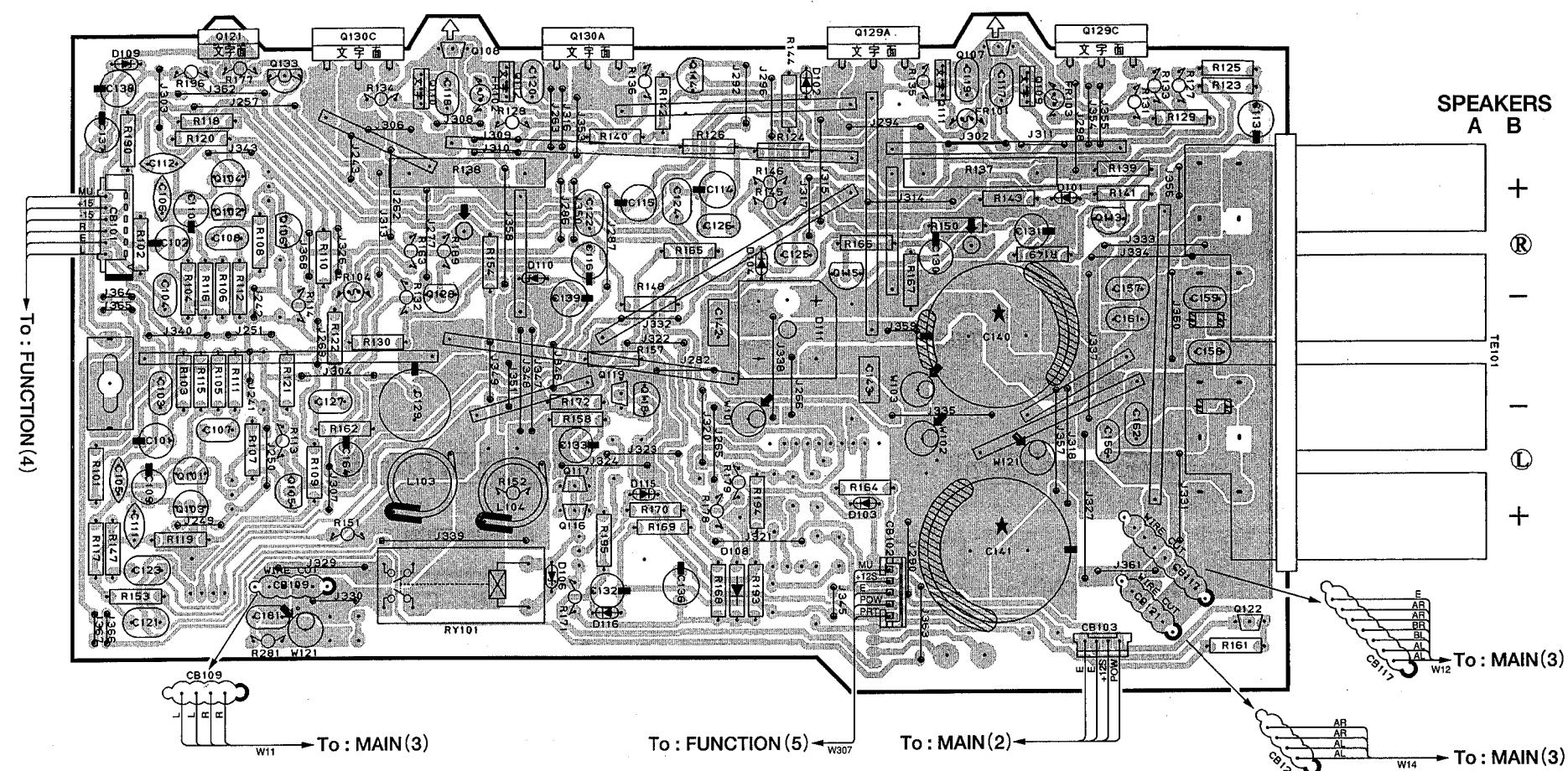


**FUNCTION P.C.B.(10)**

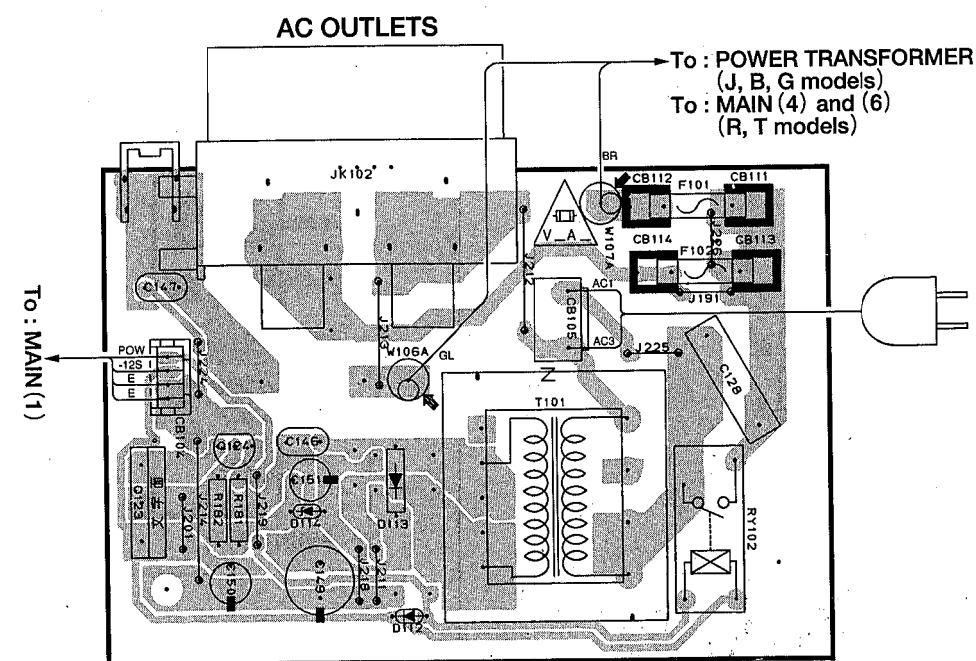


# PRINTED CIRCUIT BOARD (Foil side) / シート図 (パターン側)

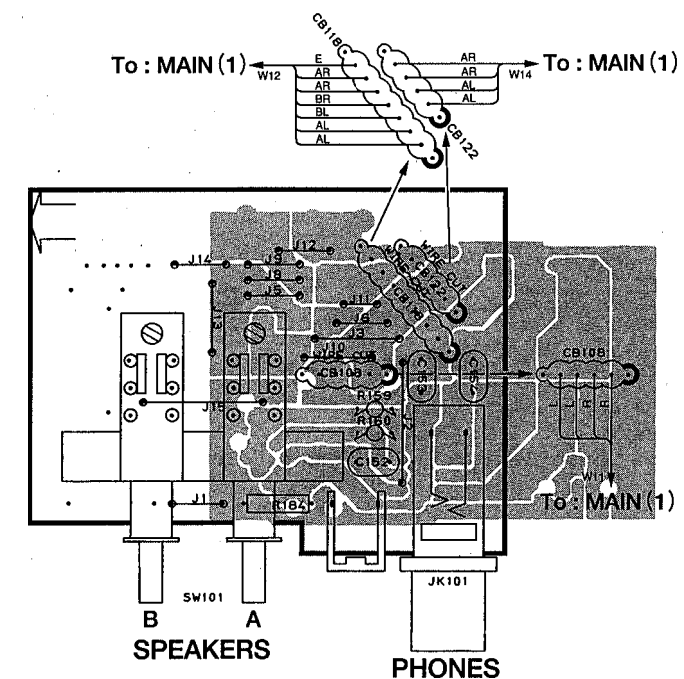
MAIN P.C.B.(1)



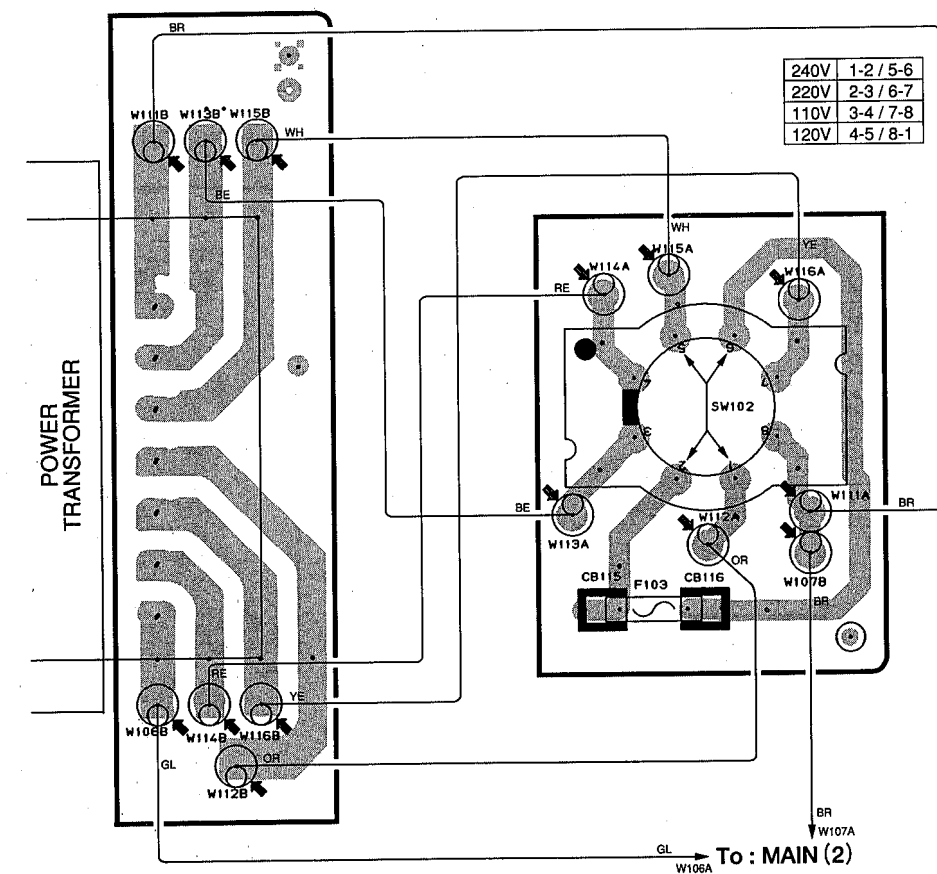
MAIN P.C.B.(2)



MAIN P.C.B.(3)



MAIN P.C.B.(6) (R, T models only)



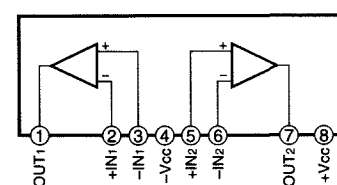
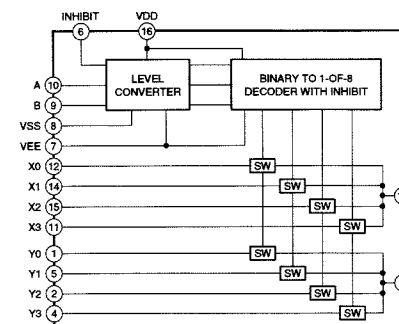
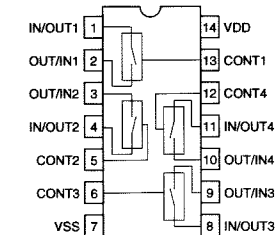
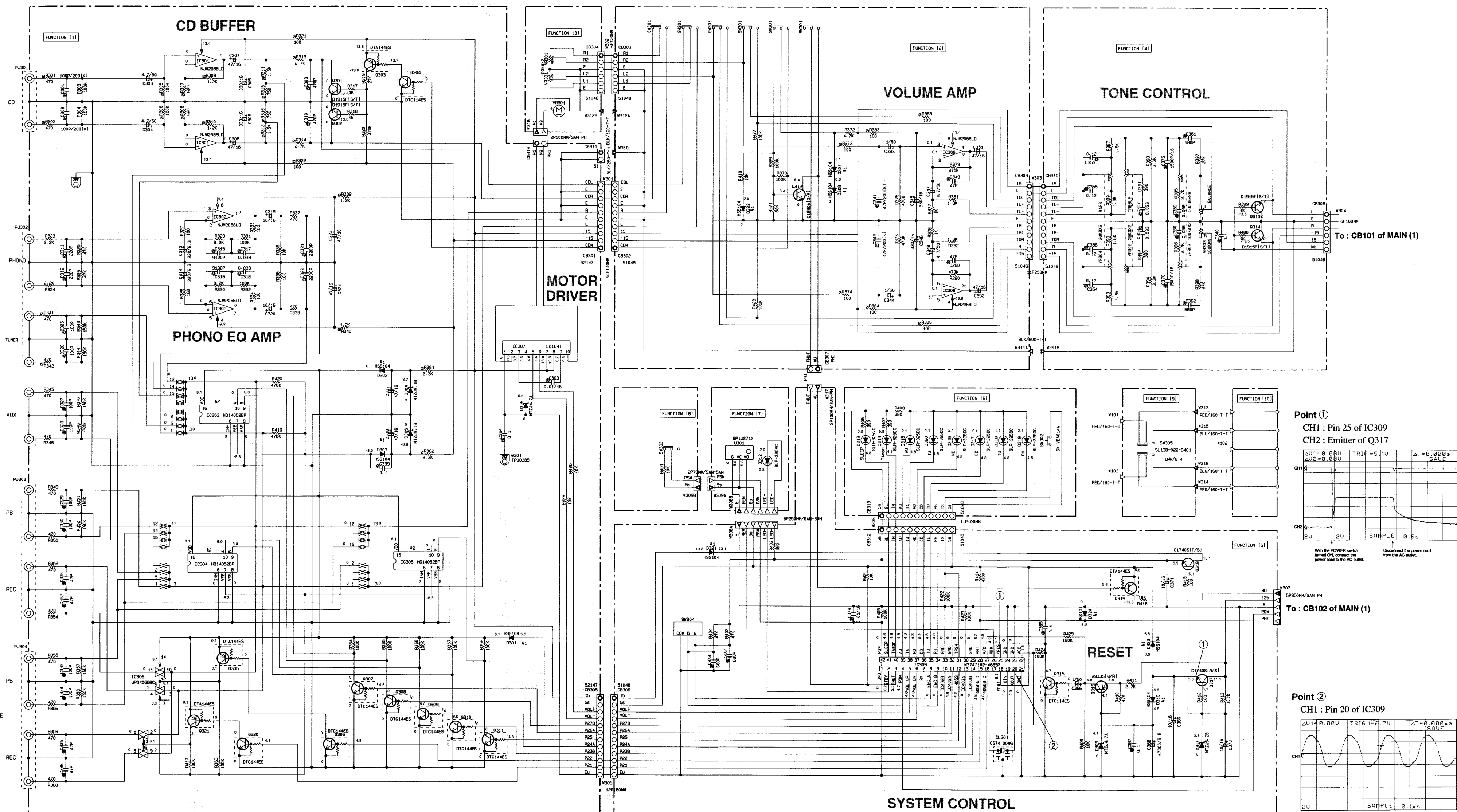
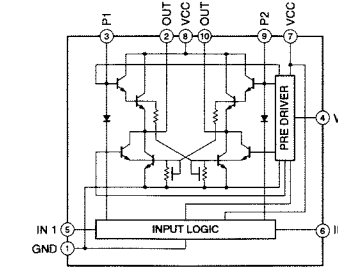
## SCHEMATIC DIAGRAM / 総回路図

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
■	FINE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊙	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

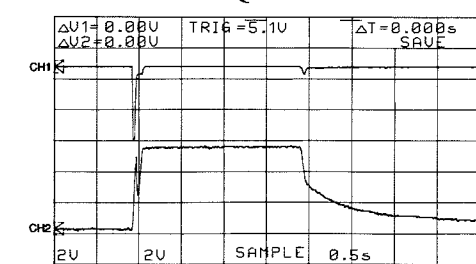
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	CERAMIC TUBULAR CAPACITOR
⊖	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
①	MICA CAPACITOR
⊖	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

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

Mark	Reference Parts Number	Parts Name
k1	D301-303-306-307 310-321-324	HSS104 SSS333 SSS176
k2	IC303-304-305	HD14052BP TC4052BP
k3		

IC301, 302, 308 : NJM2068L-D  
Dual OP-AmpIC303, 304, 305 : HD14052BP  
Dual 4 Channel Analog Multiplexers/DemultiplexersIC306 : uPD4066BC  
Quad Bilateral SwitchIC307 : LB1641  
Motor Driver

Point ①  
 CH1 : Pin 25 of IC309  
 CH2 : Emitter of Q317

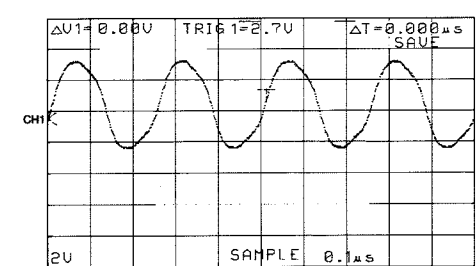


With the POWER switch turned ON, connect the power cord to the AC outlet.

Disconnect the power cord from the AC outlet.

To : CB102 of MAIN (1)

Point ②  
 CH1 : Pin 20 of IC309



★ All voltage values 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、安全性確保部品を示しています。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。

● 本回路図は標準回路図です。改良のため予告なく変更することがございます。



SCHEMATIC DIAGRAM／総回路図

CAPACITOR	
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	CERAMIC TUBULAR CAPACITOR
⊖	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
①	MICA CAPACITOR
⊕	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

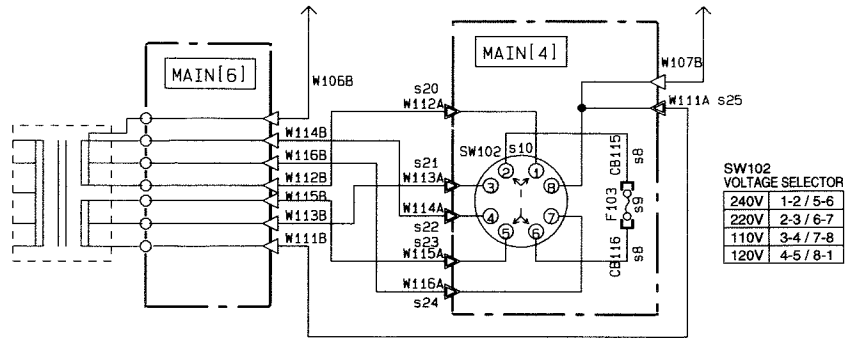
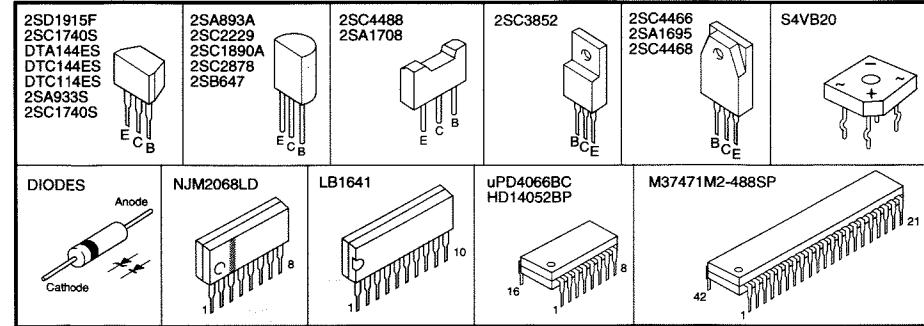
RESISTOR	
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
⊠	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
▴	METAL PLATE RESISTOR
▢	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊗	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

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
11	D112, 115, 116	HSS104 1SS133 1SS176

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



SW102	VOLTAGE SELECTOR
1-2/5-6	240V
2-3/6-7	220V
3-4/7-8	110V
4-5/8-1	120V

S	J	R-T	B	G
1	TE101	VC31370	VC31370	VU81970 VK50620
2	T101	XC542 X5597	XT331 XT341	XQ486 XC084
3	F101	5A125V V58C300	5A125V V58C300	T1. 6AL250V K800306
4	F102	X	X	T2. 5AH250V VT54C90
5	CB113-114	X	X	X
6	J191	○	○	X
7	JK102	VV11880	VV11880	VU54330 VV11900
8	CB115-116	X	VP20650	X
9	F103	X	T1. 6AL250V K800306	X
10	SW102	X	VA96180	X
11	Q123	X	C4466[D/P/Y] VP76830	X
12	Q124	X	C1890A[D/E] VP89310	X
13	D114	X	H2S12A2 VW87550	X
14	C149	330/25 V628910	220/63 V628910	330/25 V628910
15	C150-151	X	10/15 V628720	X
16	R181	X	100	X
17	R182	X	18K	X
18	W106	GRY/300-T-H MH08230	GRY/300-T-T MH08030	GRY/300-T-H MH08230
19	W107	BRN/300-T-T MH01230	BRN/180-T-T MH01018	BRN/300-T-H MH01230
20	W112	X	OR6/300-T-T MH03030	X
21	W113	X	BLU/300-T-T MH06035	X
22	W114	X	RED/300-T-T MH02030	X
23	W115	X	WHT/350-T-T MH09035	X
24	W116	X	YEL/300-T-T MH04030	X
25	W111	X	BRN/350-T-T MH01035	X
26	RY102	LK1AF-12V VU39850	G5PA-1 VY73530	LK1AF-12V VU39850
27	C152-157-158 161-162 181-183-184 185-186	X	X	0.01 V171670
28	C153-154-156 155	X	X	0.01 U495410
29	R184	X	X	2.2 HC65322
30	J201	○	X	○
31	C146	1000P/125 UT55310	1000P/100 VU01950	1000P/125 UT55310
32	R281	X	X	1P4.7 VP93970
33	W121	X	X	BLK/180-T-T MH40018

\* All voltage values 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、安全性確保部品を示しています。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。  
● 本回路図は標準回路図です。改良のため予告なく変更することがございます。

# PARTS LIST

## ELECTRICAL PARTS

### WARNING

Components having special characteristics are marked  $\Delta$  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 parts No. of the carbon resistors, refer to last page.

### ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS:

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

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

# ELECTRICAL PARTS

Schm Ref.	PART NO.	Description
* VZ850000	P. C. B.	MAIN(RT)
* VZ850100	P. C. B.	MAIN(B)
* VZ850200	P. C. B.	MAIN(G)
CB101	VF728300	CN 6P
CB102	VD004800	CN. BS. PIN 5P
CB103	VS839400	CN. BS. PIN 4P
CB104	VS839500	CN 4P
CB105	VG879900	CN. BS. PIN 2P
CB108	VR428900	CN. BS. PIN 4P
CB109	VR428900	CN. BS. PIN 4P
CB111	VP206500	HOLDER. FUS EYF-52BC
CB112	VP206500	HOLDER. FUS EYF-52BC
CB113	VP206500	HOLDER. FUS EYF-52BC(G)
CB114	VP206500	HOLDER. FUS EYF-52BC(G)
CB115	VP206500	HOLDER. FUS EYF-52BC(RT)
CB116	VP206500	HOLDER. FUS EYF-52BC(RT)
CB117	VQ584900	CN. BS. PIN 7P
CB118	VQ584900	CN. BS. PIN 7P
CB121	VR428900	CN. BS. PIN 4P
CB122	VR428900	CN. BS. PIN 4P
C101	VQ082700	C. EL 10uF 16V
C102	VQ082700	C. EL 10uF 16V
C103	VK533800	C. PP 47pF 200V
C104	VK533800	C. PP 47pF 200V
C105	VQ645600	C. MYLAR 100pF 50V
C106	VQ645600	C. MYLAR 100pF 50V
C107	VP917800	C. PP 1000pF 100V
C108	VP917800	C. PP 1000pF 100V
C109	VG288900	C. EL 100uF 25V
C110	VG288900	C. EL 100uF 25V
C111	FU451150	C. MICA 15pF 500V
C112	FU451150	C. MICA 15pF 500V
C113	VG291200	C. EL 47uF 50V
C114	VG291200	C. EL 47uF 50V
C115	VE742600	C. EL 47uF 25V
C116	VE742600	C. EL 47uF 25V
C117	VK533900	C. PP 100pF 200V
C118	VK533900	C. PP 100pF 200V
C119	VK533900	C. PP 100pF 200V
C120	VK533900	C. PP 100pF 200V
C121	VZ001900	C. MYLAR 0.082uF 50V
C122	VZ001900	C. MYLAR 0.082uF 50V
* C123	VZ002000	C. MYLAR 0.1uF 50V
* C124	VZ002000	C. MYLAR 0.1uF 50V
C125	VP918300	C. PP 0.022uF 100V
C126	VP918300	C. PP 0.022uF 100V
C127	VK534000	C. PP 220pF 200V
C128	VS741700	C. CE. SAFTY 0.01uF 275V
C129	VK699400	C. EL 330uF 63V
C130	UJ895220	C. EL 0.22uF 100V
C131	Vi377400	C. EL 4.7uF 63V
C132	VQ083100	C. EL 100uF 16V
C133	VF760000	C. EL 100uF 10V

\* New Parts

Schm Ref.	PART NO.	Description
△* C136	V2290000	C. EL 22uF 63V
C137	Vi377400	C. EL 4.7uF 63V
C138	VG291200	C. EL 47uF 50V
C139	VG291200	C. EL 47uF 50V
C140	VR024000	C. EL 6800uF 56V
C141	VR024000	C. EL 6800uF 56V
C142	VR325400	C. MYLAR 0.1uF 100V
C143	VR325400	C. MYLAR 0.1uF 100V
* C146	UT553100	C. PP 1000pF 125V
* C146	UT553100	C. PP 1000pF 125V(BG)
C146	VU019500	C. MYLAR 1000pF 100V(RT)
C147	VK534100	C. PP 0.01uF 100V
* C149	V2290100	C. EL 220uF 63V(RT)
* C149	VG289600	C. EL 330uF 35V(BG)
C150	VG290900	C. EL 10uF 50V(RT)
C151	VG290900	C. EL 10uF 50V(RT)
C152	Vi716700	C. MYLAR 0.01uF 50V(BG)
C153	UA654100	C. MYLAR 0.01uF 50V(BG)
C154	UA654100	C. MYLAR 0.01uF 50V(BG)
C156	UA654100	C. MYLAR 0.01uF 50V(BG)
C157	Vi716700	C. MYLAR 0.01uF 50V(BG)
C158	Vi716700	C. MYLAR 0.01uF 50V(BG)
C159	UA654100	C. MYLAR 0.01uF 50V(BG)
C161	Vi716700	C. MYLAR 0.01uF 50V(BG)
C162	Vi716700	C. MYLAR 0.01uF 50V(BG)
C164	Vi377400	C. EL 4.7uF 63V
C181	Vi716700	C. MYLAR 0.01uF 50V(BG)
C183	Vi716700	C. MYLAR 0.01uF 50V(BG)
C184	Vi716700	C. MYLAR 0.01uF 50V(BG)
C185	Vi716700	C. MYLAR 0.01uF 50V(BG)
C186	Vi716700	C. MYLAR 0.01uF 50V(BG)
C281	VJ311800	C. CE. TUBLR 0.01uF 25V(BG)
C282	VJ311800	C. CE. TUBLR 0.01uF 25V(BG)
D101	VN008700	DIODE 1SS270A
D102	VN008700	DIODE 1SS270A
D103	VN008700	DIODE 1SS270A
D104	VN008700	DIODE 1SS270A
D106	VM976300	DIODE. ZENR HZS242TD 24V
△ D108	VS997800	DIODE 1T2
D109	VM975900	DIODE. ZENR HZS162TD 16V
D110	VM975900	DIODE. ZENR HZS162TD 16V
△ D111	iH001090	DIODE. BRG S4VB20 2.6A 200V
D112	VD631600	DIODE 1SS133, 176, HSS104
D113	VS997800	DIODE 1T2
D114	VM975500	DIODE. ZENR HZS12A2TD 12V(RT)
D115	VD631600	DIODE 1SS133, 176, HSS104
D116	VD631600	DIODE 1SS133, 176, HSS104
△ F101	KB003060	FUSE TL1. 6A 250V(BG)
△ F101	VS823000	FUSE T5. 0A 125V(RT)
△* F102	VT942900	FUSE TH2. 5A 250V(G)
△ F103	KB003060	FUSE TL1. 6A 250V(RT)
△ FR101	VK188200	R. FUS 220Ω 1/4W
△ FR102	VK188200	R. FUS 220Ω 1/4W

\* New Parts

Schm	Ref.	PART NO.	Description	
△	FR103	VK188900	R. FUS	820Ω 1/4W
△	FR104	VK188900	R. FUS	820Ω 1/4W
	JK101	VS899700	JACK. PHONE	JY-6317-02-030
△	JK102	VU543300	OUTLET. AC	1P(B)
△	JK102	VV118800	OUTLET. AC	3P(RT)
△	JK102	VV119000	OUTLET. AC	3P(G)
	L103	VP575600	COIL	1.5uH
	L104	VP575600	COIL	1.5uH
	Q101	VP883000	TR	2SA893A D, E
	Q102	VP883000	TR	2SA893A D, E
	Q103	VP883000	TR	2SA893A D, E
	Q104	VP883000	TR	2SA893A D, E
△	Q105	VR325600	TR	2SC2229 O, Y
△	Q106	VR325600	TR	2SC2229 O, Y
△	Q107	VK432900	TR	2SD1915F S, T
△	Q108	VK432900	TR	2SD1915F S, T
△	Q109	VP872700	TR	2SC4488 S, T
△	Q110	VP872700	TR	2SC4488 S, T
△	Q111	VP872600	TR	2SA1708 S, T
△	Q112	VP872600	TR	2SA1708 S, T
△	Q113	VP883100	TR	2SC1890A D, E
	Q114	VP883100	TR	2SC1890A D, E
	Q115	VP883000	TR	2SA893A D, E
	Q116	iC174020	TR	2SC1740S R, S
	Q117	iC174020	TR	2SC1740S R, S
	Q118	iC287820	TR	2SC2878 A, B
	Q119	iC174020	TR	2SC1740S R, S
△	Q121	VC938500	TR	2SC3852
	Q122	iC174020	TR	2SC1740S R, S
	Q123	VP768300	TR	2SC4466 O, P, Y(RT)
	Q124	VP883100	TR	2SC1890A D, E(RT)
△	Q128	VR402300	TR	2SB647 C, D
△	Q129A	iX630850	TR	2SA1695 O, P, Y
△	Q129C	iX630860	TR	2SC4468 O, P, Y
△	Q130A	iX630850	TR	2SA1695 O, P, Y
△	Q130C	iX630860	TR	2SC4468 O, P, Y
	Q133	iE000020	FET	2SK30ATM GR
	R113	HL314470	R. MIL. OXD	47Ω 1W
	R114	HL314470	R. MIL. OXD	47Ω 1W
	R127	HV456270	R. CAR. FP	2.7KΩ 1/4W
	R128	HV456270	R. CAR. FP	2.7KΩ 1/4W
	R131	HV455680	R. CAR. FP	680Ω 1/4W
	R132	HV455680	R. CAR. FP	680Ω 1/4W
	R133	VP939700	R. MIL. FLM	4.7Ω 1W
	R134	VP939700	R. MIL. FLM	4.7Ω 1W
	R135	VP939700	R. MIL. FLM	4.7Ω 1W
	R136	VP939700	R. MIL. FLM	4.7Ω 1W
△	R137	VU981700	R. MIL. PLAT	0.22Ω +0.22 3W
△	R138	VU981700	R. MIL. PLAT	0.22Ω +0.22 3W
	R145	HL314100	R. MIL. OXD	10Ω 1W
	R146	HL314100	R. MIL. OXD	10Ω 1W
	R151	HV454100	R. CAR. FP	10Ω 1/4W
	R152	HV454100	R. CAR. FP	10Ω 1/4W

\* New Parts

Schm	Ref.	PART NO.	Description	
	R159	HL315560	R. MIL. OXD	560Ω 1W
	R160	HL315560	R. MIL. OXD	560Ω 1W
	R163	HL314470	R. MIL. OXD	47Ω 1W
△	R171	HL315680	R. MIL. OXD	680Ω 1W
△	R177	HV453220	R. CAR. FP	2.2Ω 1/4W
△	R178	HV454100	R. CAR. FP	10Ω 1/4W
	R179	HV457100	R. CAR. FP	10KΩ 1/4W
	R189	HL315680	R. MIL. OXD	680Ω 1W
	R196	HV454100	R. CAR. FP	10Ω 1/4W
	R281	VP939700	R. MIL. FLM	4.7Ω 1W(BG)
△	RY101	VY868200	RELAY	DC DH24D2-OT/M-S
△	RY102	VU398500	RELAY	DC LK1AF-12V(BG)
	RY102	VY735300	RELAY	DC G5P-1(RT)
	SW101	VV523900	SW. PUSH	PBS-YM-001
	SW102	VA961800	VOLT. SELECT	ESE-37247-F(RT)
△	T101	XQ486B00	TRANS. PWR	(BG)
△	T101	XT331A00	TRANS. PWR	(RT)
	TE101	VC313700	TERM. SP	8P(RT)
	TE101	VU819700	TERM. SP	8P(BG)
		VJ828000	PIN	IMSA-6024-03E
		BB071360	SCR. TERM	8.3x13
		VR264300	PLATE. GND	
		VY834500	SUPRT	
*				
		VZ849800	P. C. B.	FUNCTION
	CB301	VF728200	CN. BS. PIN	10P
	CB302	Vi878800	CN. BS. PIN	10P
	CB303	Vi878400	CN. BS. PIN	6P
	CB304	Vi878400	CN. BS. PIN	6P
	CB305	VK025600	CN. BS. PIN	12P
	CB306	Vi879000	CN. BS. PIN	12P
	CB307	VD004500	CN. BS. PIN	2P
	CB308	Vi878400	CN. BS. PIN	6P
	CB309	Vi878900	CN. BS. PIN	11P
	CB310	Vi878900	CN. BS. PIN	11P
	CB311	LA002110	TERM. WRAP	2P
	CB312	Vi878900	CN. BS. PIN	11P
	CB313	Vi878900	CN. BS. PIN	11P
	CB314	VD004500	CN. BS. PIN	2P
	C301	VK533900	C. PP	100pF 200V
	C302	VK533900	C. PP	100pF 200V
	C303	VE021900	C. EL	4.7uF 100V
	C304	VE021900	C. EL	4.7uF 100V
	C305	UJ638330	C. EL	330uF 16V
	C306	UJ638330	C. EL	330uF 16V
	C307	VQ083000	C. EL	47uF 16V
	C308	VQ083000	C. EL	47uF 16V
	C309	Vi715100	C. MYLAR	470pF 50V
	C310	Vi715100	C. MYLAR	470pF 50V
	C311	VQ462600	C. MYLAR	220pF 50V
	C312	VQ462600	C. MYLAR	220pF 50V

\* New Parts

Schm Ref.	PART NO.	Description
C313	VG286900	C. EL 220uF 10V
C314	VG286900	C. EL 220uF 10V
C315	UA653910	C. MYLAR 9100pF 50V
C316	UA653910	C. MYLAR 9100pF 50V
C317	UA654330	C. MYLAR 0.033uF 50V
C318	UA654330	C. MYLAR 0.033uF 50V
C319	VG290900	C. EL 10uF 50V
C320	VG290900	C. EL 10uF 50V
C321	Vi715900	C. MYLAR 2200pF 50V
C322	Vi715900	C. MYLAR 2200pF 50V
C323	VG291200	C. EL 47uF 50V
C324	VG291200	C. EL 47uF 50V
C325	VQ645600	C. MYLAR 100pF 50V
C326	VQ645600	C. MYLAR 100pF 50V
C327	VF466800	C. CE. TUBLR 100pF 50V
C328	VF466800	C. CE. TUBLR 100pF 50V
C329	VF466800	C. CE. TUBLR 100pF 50V
C330	VF466800	C. CE. TUBLR 100pF 50V
C331	VF466700	C. CE. TUBLR 47pF 50V
C332	VF466700	C. CE. TUBLR 47pF 50V
C333	VF466800	C. CE. TUBLR 100pF 50V
C334	VF466800	C. CE. TUBLR 100pF 50V
C335	VF466700	C. CE. TUBLR 47pF 50V
C336	VF466700	C. CE. TUBLR 47pF 50V
C337	VG291200	C. EL 47uF 50V
C338	VG291200	C. EL 47uF 50V
C339	UA655100	C. MYLAR 0.1uF 50V
C340	VH053100	C. CE. TUBLR 0.1uF 50V
C341	VK533800	C. PP 47pF 200V
C342	VK533800	C. PP 47pF 200V
C343	VG290500	C. EL 1uF 50V
C344	VG290500	C. EL 1uF 50V
C345	VG287800	C. EL 330uF 16V
C346	VG287800	C. EL 330uF 16V
C347	Vi377400	C. EL 4.7uF 63V
C348	Vi377400	C. EL 4.7uF 63V
C349	VF466700	C. CE. TUBLR 47pF 50V
C350	VF466700	C. CE. TUBLR 47pF 50V
C351	VG291200	C. EL 47uF 50V
C352	VG291200	C. EL 47uF 50V
C353	UA655120	C. MYLAR 0.12uF 50V
C354	UA655120	C. MYLAR 0.12uF 50V
C355	UA655120	C. MYLAR 0.12uF 50V
C356	UA655120	C. MYLAR 0.12uF 50V
C357	UA654330	C. MYLAR 0.033uF 50V
C358	UA654330	C. MYLAR 0.033uF 50V
C359	UA654560	C. MYLAR 0.056uF 50V
C360	UA654560	C. MYLAR 0.056uF 50V
C361	VG278900	C. CE. TUBLR 680pF 50V
C362	VG278900	C. CE. TUBLR 680pF 50V
C363	VF467300	C. CE. TUBLR 0.01uF 16V
C364	VH053100	C. CE. TUBLR 0.1uF 50V
C365	VH053100	C. CE. TUBLR 0.1uF 50V

\* New Parts

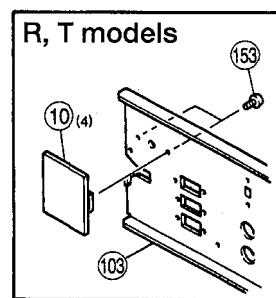
Schm Ref.	PART NO.	Description
C366	VJ839100	C. EL 1uF 50V
C367	VH053100	C. CE. TUBLR 0.1uF 50V
C368	VU545000	C. EL 47000uF 5.5V
C369	VJ836900	C. EL 10uF 16V
C370	VJ836900	C. EL 10uF 16V
C371	VJ836900	C. EL 10uF 16V
C372	VG278900	C. CE. TUBLR 680pF 50V
C373	VG278900	C. CE. TUBLR 680pF 50V
C374	VF467300	C. CE. TUBLR 0.01uF 16V
C375	VG279200	C. CE. TUBLR 1500pF 16V
C376	VG279200	C. CE. TUBLR 1500pF 16V
D301	VD631600	DIODE 1SS133, 176, HSS104
D302	VD631600	DIODE 1SS133, 176, HSS104
D303	VD631600	DIODE 1SS133, 176, HSS104
D304	VG439200	DIODE. ZENR MTZJ9.1B 9.1V
D305	VG439200	DIODE. ZENR MTZJ9.1B 9.1V
D306	VD631600	DIODE 1SS133, 176, HSS104
D307	VD631600	DIODE 1SS133, 176, HSS104
D308	VG437000	DIODE. ZENR MTZJ4.7A 4.7V
D309	VG437000	DIODE. ZENR MTZJ4.7A 4.7V
D310	VD631600	DIODE 1SS133, 176, HSS104
D311	VG438000	DIODE. ZENR MTZJ6.2B 6.2V
D312	VS132300	LED(re) SLR-325VCT31
D313	VS132300	LED(re) SLR-325VCT31
D314	VR711500	LED(or) SLR-325DC
D315	VR711500	LED(or) SLR-325DC
D316	VR711500	LED(or) SLR-325DC
D317	VR711500	LED(or) SLR-325DC
D318	VR711500	LED(or) SLR-325DC
D319	VR711500	LED(or) SLR-325DC
D320	VR711500	LED(or) SLR-325DC
D321	VD631600	DIODE 1SS133, 176, HSS104
D322	VD631600	DIODE 1SS133, 176, HSS104
D323	VD631600	DIODE 1SS133, 176, HSS104
D324	VD631600	DIODE 1SS133, 176, HSS104
G301	VR463400	TERM. GND D3.5 TP00385
IC301	XM356A00	IC NJM2068LD
IC302	XM356A00	IC NJM2068LD
* IC303	XU449A00	IC HD14052BP MPX
* IC304	XU449A00	IC HD14052BP MPX
* IC305	XU449A00	IC HD14052BP MPX
IC306	iG037400	IC uPD4066BC
IC307	XF494A00	IC LB1641
IC308	XM356A00	IC NJM2068LD
IC309	XT762A00	IC M37471M2-XXXSP CPU
PJ301	VV377000	JACK. PIN 2P
PJ302	VZ388400	JACK. PIN 6P HSP-246V27-01
PJ303	VV306900	JACK. PIN 4P
PJ304	VV306900	JACK. PIN 4P
Q301	VK432900	TR 2SD1915F S, T
Q302	VK432900	TR 2SD1915F S, T
Q303	VG721700	TR. DGT DTA144ES
Q304	VD678700	TR. DGT DTC114ES

\* New Parts



Schm Ref.	PART NO.	Description
Q305	VG721700	TR. DGT DTA144ES
Q306	VG722000	TR. DGT DTC144ES
Q307	VG722000	TR. DGT DTC144ES
Q308	VG722000	TR. DGT DTC144ES
Q309	VG722000	TR. DGT DTC144ES
Q310	VG722000	TR. DGT DTC144ES
Q311	VG722000	TR. DGT DTC144ES
Q312	VP883100	TR 2SC1890A D, E
Q313	VK432900	TR 2SD1915F S, T
Q314	VK432900	TR 2SD1915F S, T
Q315	VD678700	TR. DGT DTC114ES
Q316	iA093320	TR 2SA933S Q, R
Q317	iC174020	TR 2SC1740S R, S
Q318	iC174020	TR 2SC1740S R, S
Q319	VG721700	TR. DGT DTA144ES
Q320	VG722000	TR. DGT DTC144ES
Q321	VG721700	TR. DGT DTA144ES
SW301	VV399800	SW. PUSH SPUN12
SW302	VG392900	SW. TACT SKHVAA
SW303	VV496200	SW. PUSH PS-9A2-022-18A-AN
SW304	VT140300	SW. RT. ENC EC16B12204
SW305	VV523800	SW. SLIDE SL13B-022-BMC1
U301	VU591000	L. DTCT GP1U271X
VR301	VV856700	VR. MTR A100K $\Omega$
VR302	VP700700	VR A100K $\Omega$
VR303	VP742000	VR MN100K $\Omega$
VR304	VP741800	VR B20K $\Omega$
VR305	VP741900	VR G25K $\Omega$
XL301	VE906000	RSNR. CE 4MHz
	VJ828000	PIN IMSA-6024-03E
	VR710800	PLATE W25

\* New Parts



## R, T models

# MECHANICAL PARTS

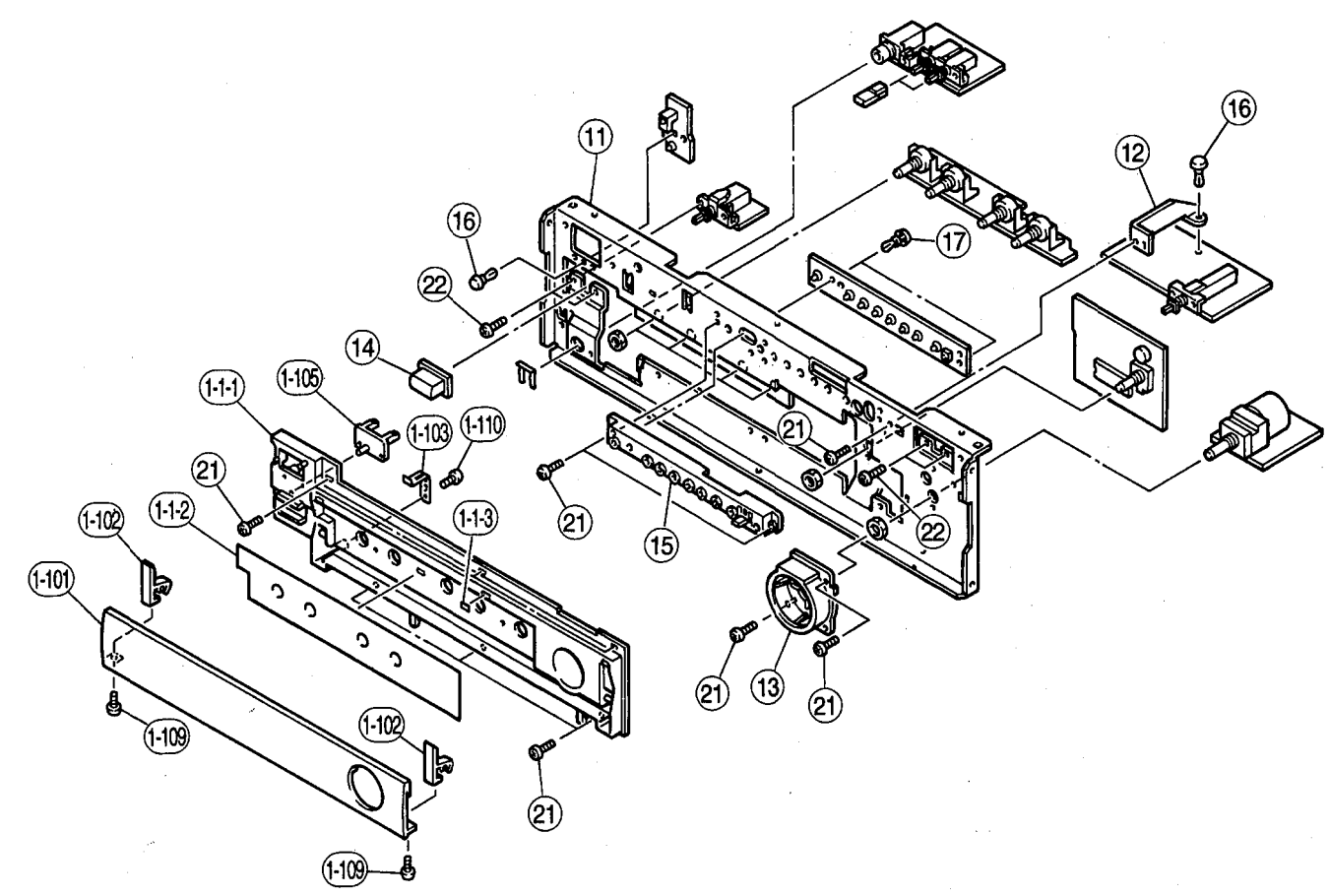
Ref. No.	PART NO.	Description	Remarks	Markets
* 1- 1	VZ529200	FRONT PANEL	BL	(RBGT)
* 1- 1	VZ529300	FRONT PANEL	TI	(G)
* 1- 2	VZ526200	LENS, 8P		
1- 3	VV185400	ESCUTCHEON	8x26	BL
1- 3	VV185500	ESCUTCHEON	8x26	TI
1- 4	VV123700	ESCUTCHEON, 3/8	2P	BL
1- 4	VV123800	ESCUTCHEON, 3/8	2P	TI
1- 7	VV185700	LENS, FILTER	7x24	
3- 1	VQ967700	HEAT SINK ASS'Y		
3- 4	VK195900	SHEET	19x24	
3-21	VK173200	SCREW, TRANSISTOR	3x15 SP FCM3	
3-22	Ei330086	BIND HEAD B-TITE SCREW	3x8 FCRM3-BL	
* 9	VZ849800	P.C.B. ASS'Y	FUNCTION	
* 10	VZ850000	P.C.B. ASS'Y	MAIN	(RT)
* 10	VZ850100	P.C.B. ASS'Y	MAIN	(B)
* 10	VZ850200	P.C.B. ASS'Y	MAIN	(G)
△ * 11	XU442A00	POWER TRANSFORMER		(RT)
△ * 11	XU443B00	POWER TRANSFORMER		(BG)
△ 12	VL238100	POWER CORD ASS'Y		(R)
△ 12	VN363700	POWER CORD ASS'Y		(G)
△ 12	VV437300	POWER CORD ASS'Y		(B)
△ * 12	VZ542500	POWER CORD ASS'Y		(T)
15	VU590000	BINDING TIE	CBTD001B	
101	VV140400	TOP COVER	BL	
101	VV140500	TOP COVER	TI	
102	VQ794000	CHASSIS		
* 103	VZ524900	REAR PANEL		(RT)
* 103	VZ525000	REAR PANEL		(B)
* 103	VZ525100	REAR PANEL		(G)
106	VS025000	LEG	D60xH21	
107	VV148800	KNOB	D40	BL
107	VV148900	KNOB	D40	TI
* 108	VZ526300	KNOB, D28/ENC		BL
* 108	VZ526400	KNOB, D28/ENC		TI
110	VS757400	KNOB, PL	D12	BL
110	VS757500	KNOB, PL	D12	TI
111	VS757200	KNOB, P	D12	BL
111	VS757300	KNOB, P	D12	TI
112	VV185200	BUTTON	8x26	BL
112	VV185300	BUTTON	8x26	TI
113	VV123500	BUTTON, 3/8		BL
113	VV123600	BUTTON, 3/8		TI
115	VV124300	PLATE SIDE L	130	BL
115	VV124400	PLATE SIDE L	130	TI
116	VV124500	PLATE SIDE R	130	BL
116	VV124600	PLATE SIDE R	130	TI
* 119	VZ319700	STOPPER	SCREW	
120	VQ366100	DAMPER, PCB		
121	VY731400	DAMPER	HOLE	
122	VY989400	DAMPER	SIDE	
123	VR264400	SPACER	H8	
124	VQ368600	PUSH RIVET	P3555-B	
125	VN158600	CORD STOPPER	No. 2104	

\* New Parts

Ref. No.	PART NO.	Description	Remarks	Markets
126	VS069500	SPACER, T2		
151	VN413300	BIND HEAD BONDING B-T. SCREW	3x8 MFZN2-BL	
152	Ei330086	BIND HEAD B-TITE SCREW	3x8 FCRM3-BL	
153	ED330066	BIND HEAD SCREW	3x6 FCRM3-BL	
154	VT669400	PW HEAD B-TITE SCREW	3x15-8 MFC2	
155	EK365090	PW HEAD S-TITE SCREW	4x8-10 FCRM3-BL	BL
155	EX601150	BW HEAD S-TITE SCREW	4x8-10 FNM3-BL	TI
156	EK365090	PW HEAD S-TITE SCREW	4x8-10 FCRM3-BL	
157	AA627310	GROUND TERMINAL		
158	Ei030046	BIND HEAD TAPPING SCREW	3x4 ZMC2-Y	
159	VT669300	PW HEAD B-TITE SCREW	3x8-8 MFC2	
160	VY731200	BONDING HEAD TAPPING SCREW	3x10 MFNI33	
161	Ei030086	BIND HEAD B-TITE SCREW	3x8 ZMC2-Y	
		ACCESSORIES		
* 200	VZ168800	REMOTE CONTROL TRANSMITTER	SBGH20024A RAX6	
200-1	CX679050	LID	74x34BLALPS	
		BATTERY, MANGANESE	SUM-3, AA, R06	

\* New Parts

EXPLODED VIEW (Sub Chassis / Sub Panel / Lid)



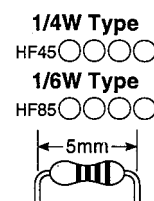
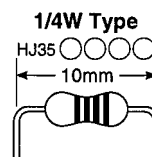
MECHANICAL PARTS (Sub Chassis / Sub Panel / Lid)

Ref. No.	PART NO.	Description	Remarks	Markets
* 1-1-1	VZ525800	SUB PANEL		BL
* 1-1-1	VZ525900	SUB PANEL		TI
* 1-1-2	VZ526000	PLATE, LID		BL
* 1-1-2	VZ526100	PLATE, LID		TI
1-1-3	VY940400	CUSHION, LID	T=0.8	
* 1-101	VZ525600	PANEL, LID		BL
* 1-101	VZ525700	PANEL, LID		TI
1-102	VS585900	HINGE, LID		BL
1-102	VS586000	HINGE, LID		TI
1-103	VS586100	SPRING	HINGE	
1-105	VV185600	LENS, LED	D2	
1-109	EX601590	BIND HEAD P-TITE SCREW	2.6x8 FCRM3-BL	
1-110	EP630220	BIND HEAD P-TITE SCREW	3x8 ZMC2-BL	
* 11	VZ525200	SUB CHASSIS		
* 12	VZ525300	FRAME, PCB		
13	VV149500	ESCUTCHEON, VOL		BL
13	VV149600	ESCUTCHEON, VOL		TI
14	VU875100	BUTTON	9.5x22	BL
14	VU875200	BUTTON	9.5x22	TI
* 15	VZ526500	LED, HOLDER		BL
* 15	VZ526600	LED, HOLDER		TI
16	VQ368500	PUSH RIVET	P3545-B	
17	VQ368600	PUSH RIVET	P3555-B	
21	Ei330086	BIND HEAD B-TITE SCREW	3x8 FCRM3-BL	
22	ED330066	BIND HEAD SCREW	3x6 FCRM3-BL	

\* New Parts

# 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 $\Omega$	HJ35 3100	HF85 3100	10 k $\Omega$	HF45 7100	HF45 7100
1.8 $\Omega$	HJ35 3180	*	11 k $\Omega$	HF45 7110	HF45 7110
2.2 $\Omega$	HJ35 3220	HF85 3220	12 k $\Omega$	HJ35 7120	HF85 7120
3.3 $\Omega$	HJ35 3330	HF85 3330	13 k $\Omega$	HF45 7130	HF45 7130
4.7 $\Omega$	HJ35 3470	HF85 3470	15 k $\Omega$	HF45 7150	HF45 7150
5.6 $\Omega$	HJ35 3560	HF85 3560	18 k $\Omega$	HF45 7180	HF45 7180
10 $\Omega$	HF45 4100	HF45 4100	22 k $\Omega$	HF45 7220	HF45 7220
15 $\Omega$	HJ35 4150	HF85 4150	24 k $\Omega$	HF45 7240	HF45 7240
22 $\Omega$	HF45 4220	HF45 4220	27 k $\Omega$	HJ35 7270	HF85 7270
27 $\Omega$	HJ35 4270	HF85 4270	30 k $\Omega$	HF45 7300	HF45 7300
33 $\Omega$	HF45 4330	HF45 4330	33 k $\Omega$	HF45 7330	HF45 7330
39 $\Omega$	HJ35 4470	HF85 4390	36 k $\Omega$	HF45 7360	HF45 7360
47 $\Omega$	HF45 4470	HF45 4470	39 k $\Omega$	HF45 7390	HF45 7390
56 $\Omega$	HF45 4560	HF45 4560	47 k $\Omega$	HF45 7470	HF45 7470
68 $\Omega$	HF45 4680	HF45 4680	51 k $\Omega$	HF45 7510	HF45 7510
75 $\Omega$	HF45 4750	HF45 4750	56 k $\Omega$	HF45 7560	HF45 7560
82 $\Omega$	HF45 4820	HF45 4820	62 k $\Omega$	HF45 7620	HF45 7620
91 $\Omega$	HF45 4910	HF45 4910	68 k $\Omega$	HF45 7680	HF45 7680
100 $\Omega$	HF45 5100	HF45 5100	82 k $\Omega$	HF45 7820	HF45 7820
110 $\Omega$	HJ35 5110	HF85 5110	91 k $\Omega$	HF45 7910	HF45 7910
120 $\Omega$	HF45 5120	HF45 5120	100 k $\Omega$	HF45 8100	HF45 8100
150 $\Omega$	HF45 5150	HF45 5150	110 k $\Omega$	HF45 8110	HF45 8110
160 $\Omega$	HJ35 5160	*	120 k $\Omega$	HF45 8120	HF45 8120
180 $\Omega$	HF45 5180	HF45 5180	150 k $\Omega$	HF45 8150	HF45 8150
200 $\Omega$	HF45 5200	HF45 5200	180 k $\Omega$	HF45 8180	HF45 8180
220 $\Omega$	HF45 5220	HF45 5220	220 k $\Omega$	HJ35 8220	HF85 8220
270 $\Omega$	HF45 5270	HF45 5270	270 k $\Omega$	HF45 8270	HF45 8270
330 $\Omega$	HF45 5330	HF45 5330	300 k $\Omega$	HF45 8300	HF45 8300
390 $\Omega$	HF45 5390	HF45 5390	330 k $\Omega$	HF45 8330	HF45 8330
430 $\Omega$	HF45 5430	HF45 5430	390 k $\Omega$	HJ35 8390	HF85 8390
470 $\Omega$	HF45 5470	HF45 5470	470 k $\Omega$	HF45 8470	HF45 8470
510 $\Omega$	HF45 5510	HF45 5510	560 k $\Omega$	HJ35 8560	HF85 8560
560 $\Omega$	HF45 5560	HF45 5560	680 k $\Omega$	HJ35 8680	HF85 8680
680 $\Omega$	HF45 5680	HF45 5680	820 k $\Omega$	HJ35 8820	HF85 8820
820 $\Omega$	HF45 5820	HF45 5820	1.0 M $\Omega$	HF45 9100	HF45 9100
910 $\Omega$	HF45 5910	HF45 5910	1.2 M $\Omega$	HJ35 9120	*
1.0 k $\Omega$	HF45 6100	HF45 6100	1.5 M $\Omega$	HJ35 9150	HF85 9150
1.2 k $\Omega$	HF45 6120	HF45 6120	1.8 M $\Omega$	HJ35 9180	HF85 9180
1.5 k $\Omega$	HF45 6150	HF45 6150	2.2 M $\Omega$	HJ35 9220	HF85 9220
1.8 k $\Omega$	HF45 6180	HF45 6180	3.3 M $\Omega$	HJ35 9330	HF85 9330
2.0 k $\Omega$	HJ35 6200	HF85 6200	3.9 M $\Omega$	HJ35 9390	*
2.2 k $\Omega$	HF45 6220	HF45 6220	4.7 M $\Omega$	HJ35 9470	HF85 9470
2.4 k $\Omega$	HJ35 6240	HF85 6240			
2.7 k $\Omega$	HF45 6270	HF45 6270			
3.0 k $\Omega$	HF45 6300	HF45 6300			
3.3 k $\Omega$	HF45 6330	HF45 6330			
3.6 k $\Omega$	HJ35 6360	HF85 6360			
3.9 k $\Omega$	HF45 6390	HF45 6390			
4.7 k $\Omega$	HF45 6470	HF45 6470			
5.1 k $\Omega$	HF45 6510	HF45 6510			
5.6 k $\Omega$	HF45 6560	HF45 6560			
6.8 k $\Omega$	HF45 6680	HF45 6680			
8.2 k $\Omega$	HF45 6820	HF45 6820			
9.1 k $\Omega$	HF45 6910	HF45 6910			



\* : Not available

A

B

C

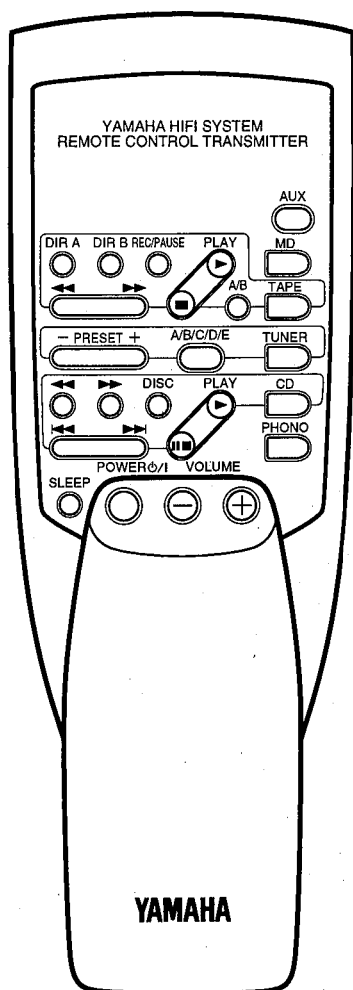
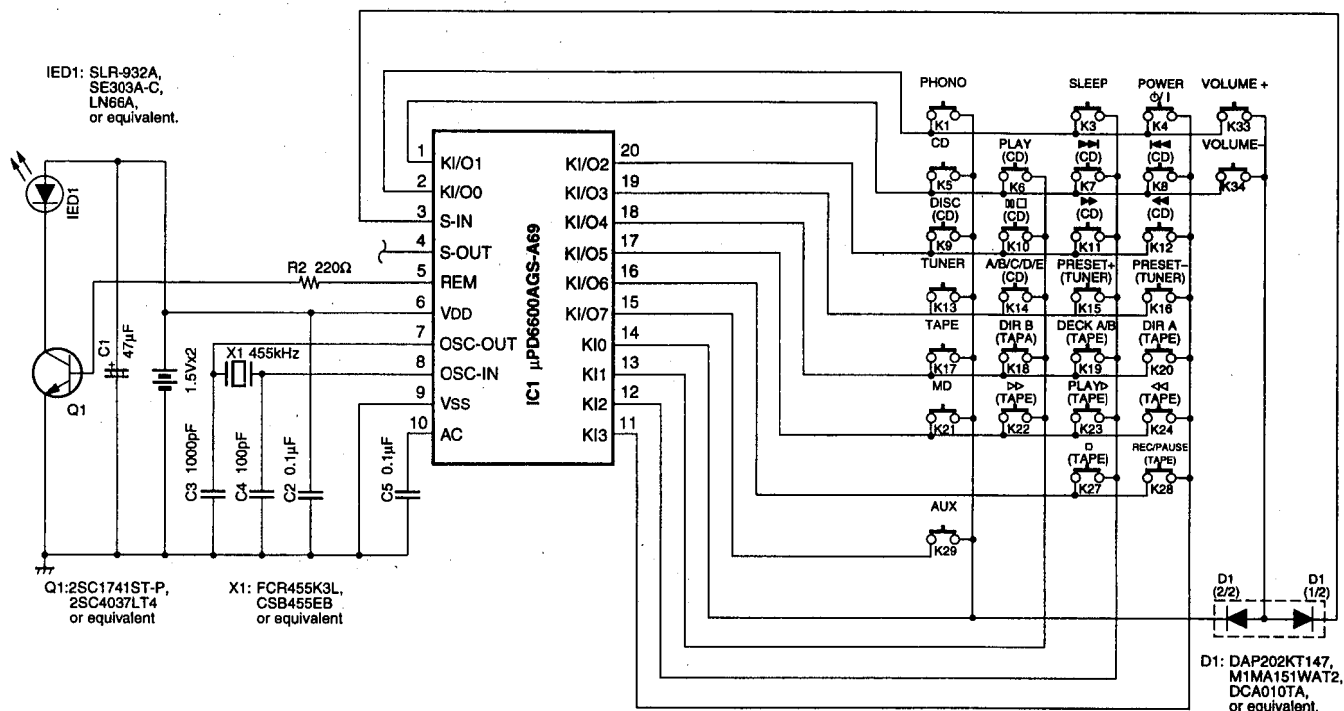
D

E

AX-392

# RIMOTE CONTROL TRANSMITTER

## SCHEMATIC DIAGRAM



Key No.	Function	HEX	
		CUSTOM	DATA
1	PHONO	7A	14
3	SLEEP	7A	57
4	POWER $\phi$ /I	7A	1F
5	CD	7A	15
6	PLAY $\triangleright$ (CD)	7A	08
7	SKIP $\gg$ (CD)	7A	0A
8	SKIP $\ll$ (CD)	7A	0B
9	DISC SKIP (CD)	7A	4F
10	PAUSE/STOP $\square$ (CD)	7A	09
11	SEARCH $\gg$ (CD)	7A	0C
12	SEARCH $\ll$ (CD)	7A	0D
13	TUNER	7A	16
14	A/B/C/D/E (TUNER)	7A	12
15	PRESET + (TUNER)	7A	10
16	PRESET - (TUNER)	7A	11
17	TAPE	7A	18
18	DIR B (TAPE)	7A	40
19	DECK A/B (TAPE)	7A	06
20	DIR A (TAPE)	7A	07
21	MD	7A	19
22	$\gg$ (TAPE)	7A	02
23	PLAY $\triangleright$ (TAPE)	7A	00
24	$\ll$ (TAPE)	7A	01
27	STOP $\square$ (TAPE)	7A	03
28	REC/PAUSE (TAPE)	7A	04
29	AUX	7A	17
33	VOLUME +	7A	1A
34	VOLUME -	7A	1B