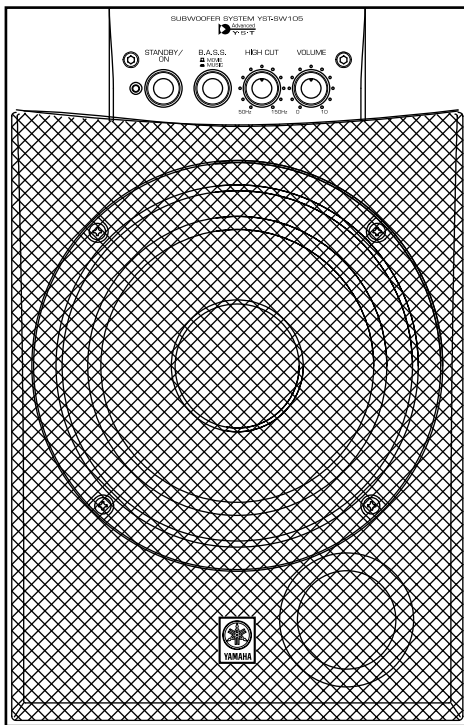


SUBWOOFER SYSTEM YST-SW105

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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TO SERVICE PERSONNEL	1
SPECIFICATIONS	1
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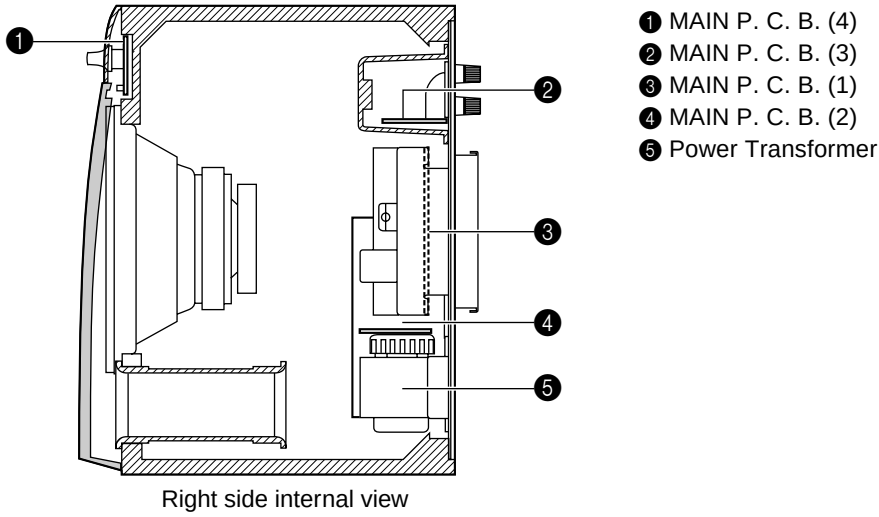
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このサービスマニュアルは、エコマーク認定の再生紙を使用しています。
This Service Manual uses recycled paper.

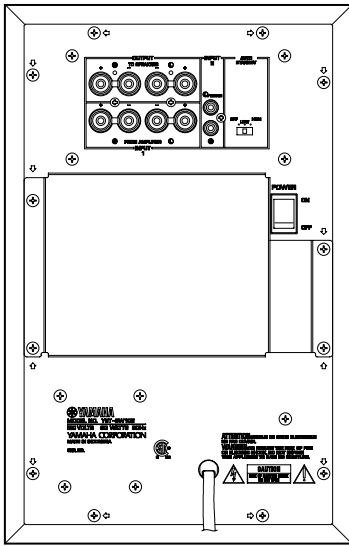


INTERNAL VIEW

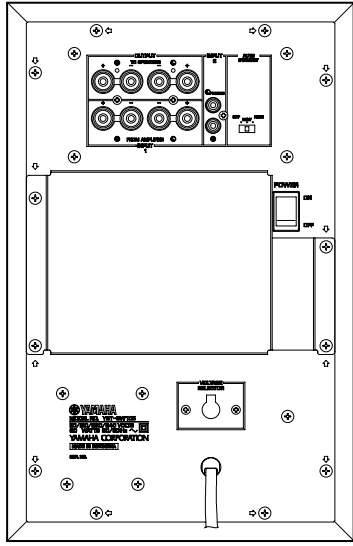


REAR PANELS

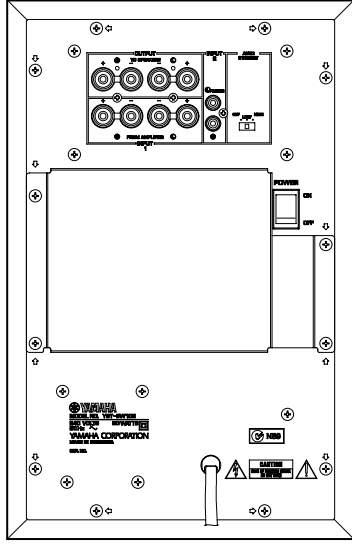
U, C models



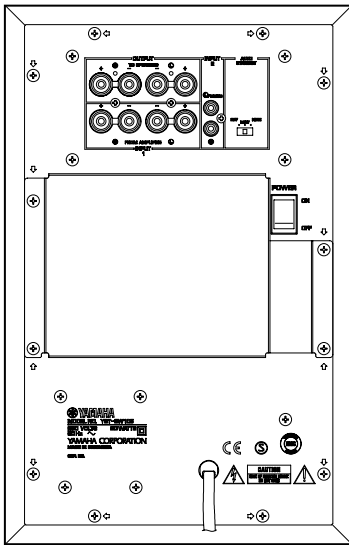
R model



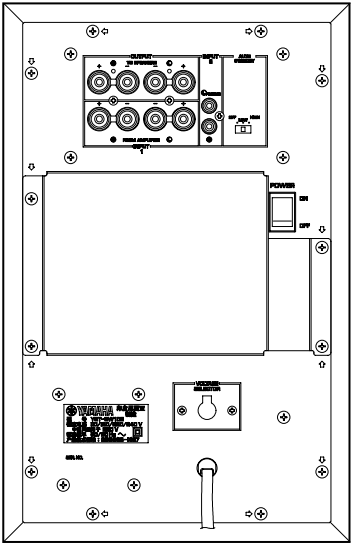
A model



B, G model



T model



■ DISASSEMBLY PROCEDURES

(Remove parts in the order as numbered.)

● For exchanging the driver unit

1. Removal of Front Grille

The front grille is fixed to the cabinet with dowels at 4 locations. As a screwdriver (for slotted head screw) is used for removal, use special care not to cause damage to the cabinet.

- Apply the block to the rear panel so as to avoid damage to the Terminal of the rear panel.
- Use the screwdriver inserted in the gap between the front grille and the cabinet (bottom side first), push up the front grille. (Fig. 1)
- Remove the front grille by lifting it up. (Fig. 1)

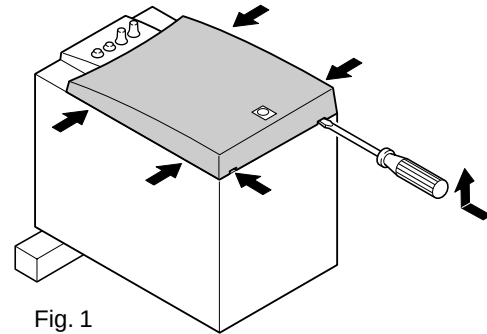


Fig. 1

2. Removal of Driver unit

- Remove 4 screws (①) in Fig. 2, and remove the Driver unit.
- Remove the cable cord.

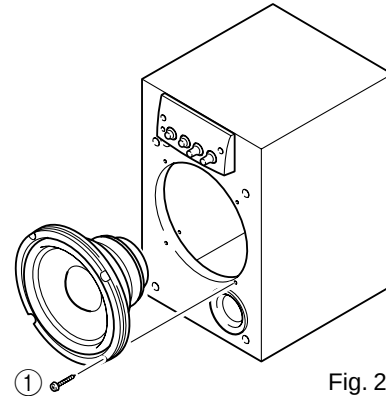


Fig. 2

● For repairing P.C.B.

Repairing P.C.B. is possible without removing front grille.

1. Removal of Front Panel Ass'y

Remove 2 screws (②) and then remove the Front Panel Ass'y in Fig. 3.

- * Use an Allen wrench (3 mm) to unscrew the Front Panel Ass'y.

2. Removal of Rear Panel

Remove 12 screws (③) in Fig. 4, and remove the rear panel. At this time, disconnect the connector CB3 of MAIN P.C.B. (1).

- * When removing the rear panel, replace the packing.

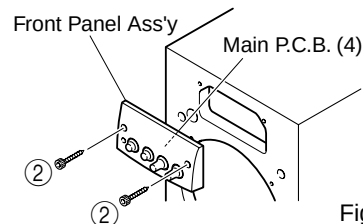


Fig. 3

3. P.C.B. Operation Check

- Disconnect the connector CB9 of MAIN P.C.B. (4).
 - Connect the connector CB3 of MAIN P.C.B. (1) and CB9 of MAIN P.C.B. (4) by using an extension flexible flat cable. (Fig. 4)
- Extension flexible flat cable : V7113100 (9P, 450 mm)

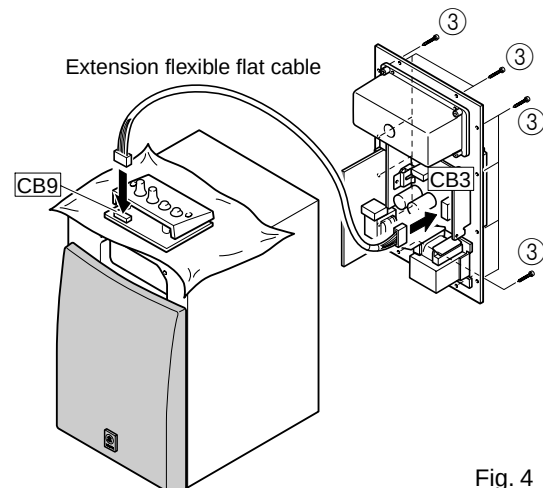


Fig. 4

● Installation of power switch

Rapid cures bond (such as 5 minutes epoxy) is required to fix the power switch.

As shown in Fig. 5, apply rapid cures bond (such as 5 minutes epoxy) to the power switch (the area which contacts the rear panel), insert it in the rear panel and make sure it is fixed.

(Inserting the power switch in the rear panel only would not be sufficient for its secure installation.)

● Precaution for installation of power cord

After connecting the power cord, be sure to apply the rapid cures bond (such as 5 minutes epoxy) to the cord stopper as shown in Fig. 6.

Glue List

Place	Name
Cord stopper	5 minutes epoxy or 2051 (Revertex Finewaters SDN.BHD.) or VYLOK 917DH (National Starch & Chemical (M) SDM.BHD.)
Power switch	5 minutes epoxy or Diabond 1620B

Apply rapid cures bond

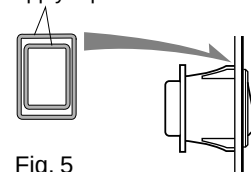


Fig. 5

Apply rapid cures bond

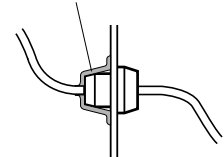


Fig. 6

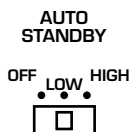
■ CONFIRMATION OF AUTO STANDBY OPERATION

Setting

- 1) Turn off the power switch.
- 2) In order to shorten the time required for operation check; connect a 10k Ω resistor at both ends of R60 on the MAIN P.C.B. (2).
- 3) Connect the output signal from the signal generator to the INPUT 2 of the unit.
- 4) Set the signal generator for the sine wave of 100Hz, 8mV.
- 5) Turn on the power switch.

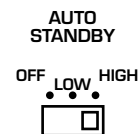
Confirmation

- 1) Set the AUTO STANDBY switch to the LOW position.



- 2) Turn on the STANDBY/ON switch.
The display LED lights up (green) and its color changes to red after 5 to 10 seconds.
- 3) Turn off the STANDBY/ON switch.
The display LED goes off.

- 4) Set the AUTO STANDBY switch to the HIGH position.

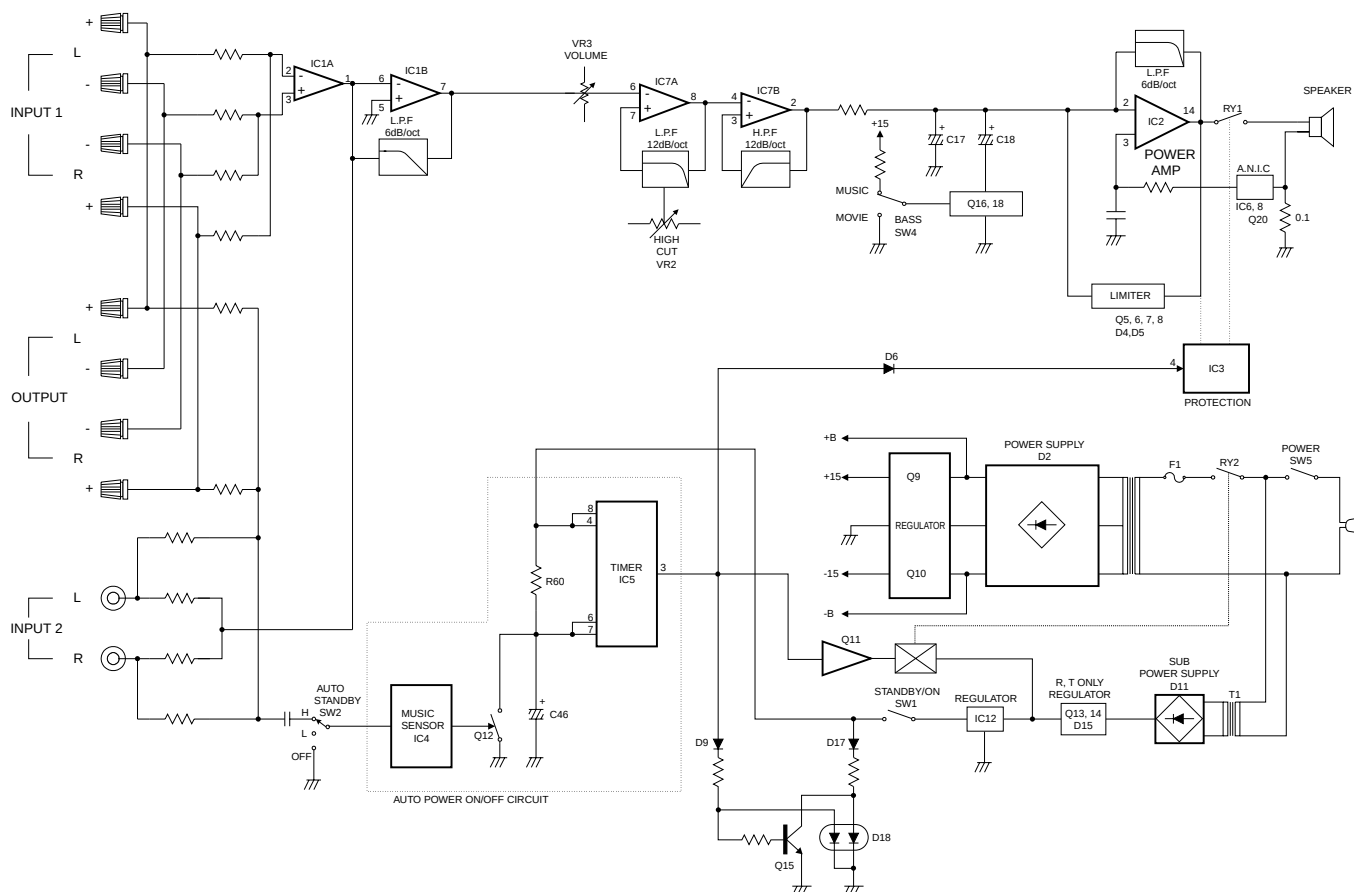


- 5) Turn on the STANDBY/ON switch.
The display LED lights up (green) and its color remains unchanged even after time have elapsed.
- 6) Turn off the STANDBY/ON switch.
The display LED goes off.

After confirmation

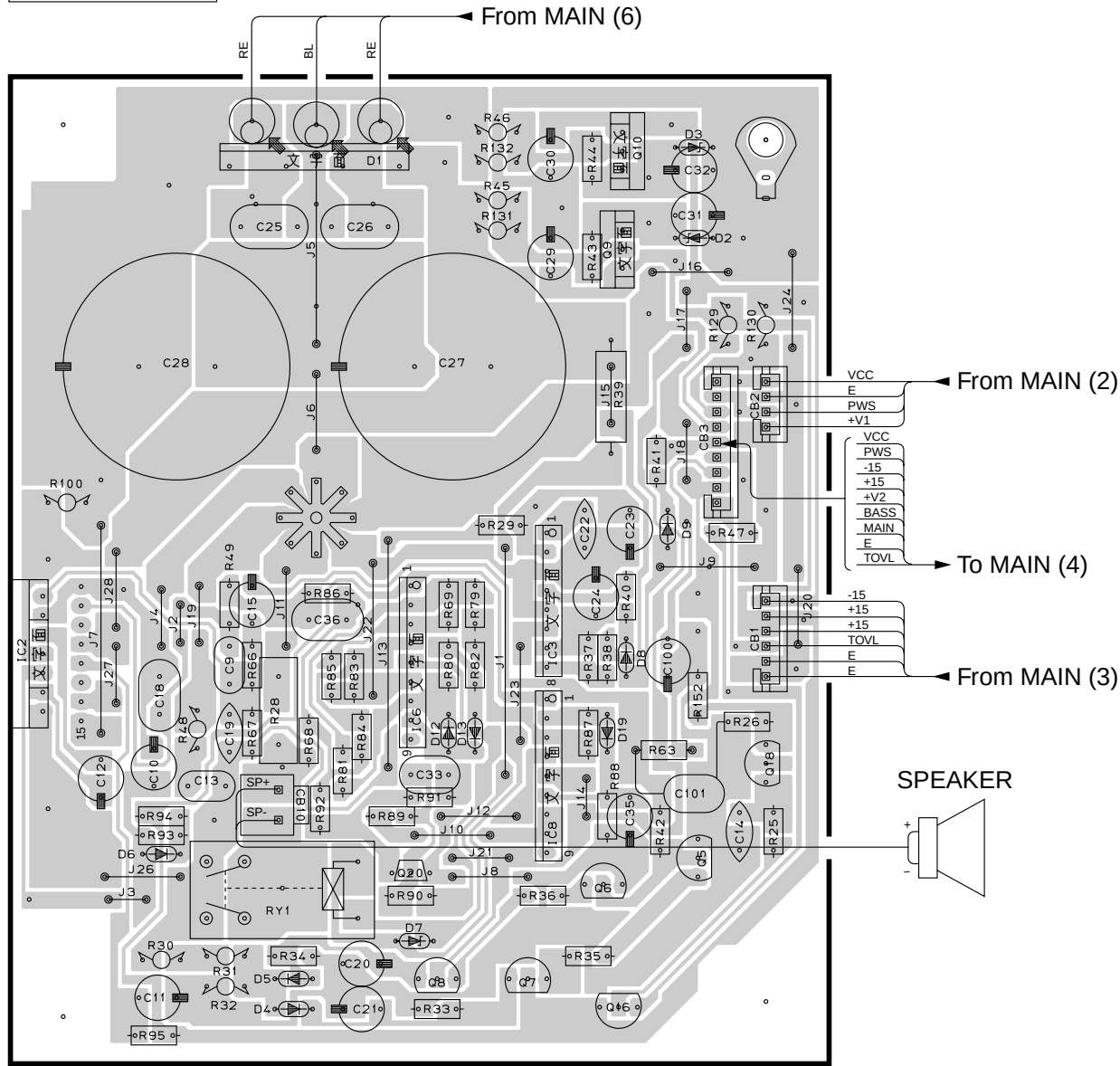
- 1) Turn off the power switch.
- 2) Disconnect the 10k Ω resistor connected to both ends of R60.

■ BLOCK DIAGRAM

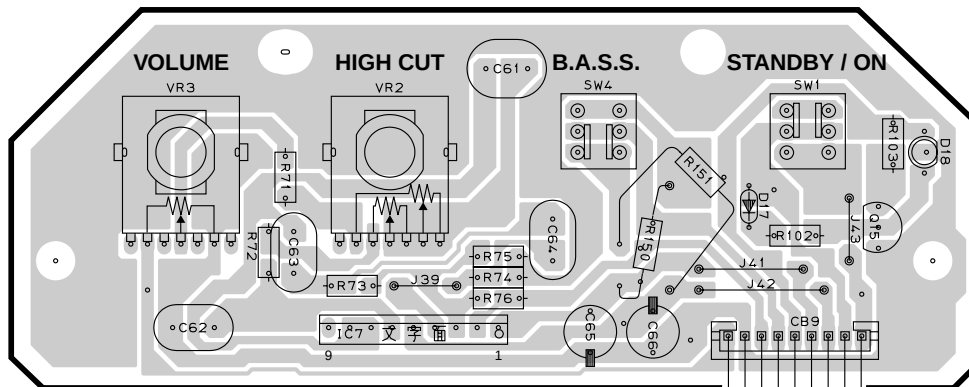


PRINTED CIUCUIT BOARD (Foil side)

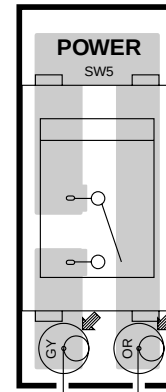
MAIN P. C. B. (1)



MAIN P. C. B. (4)



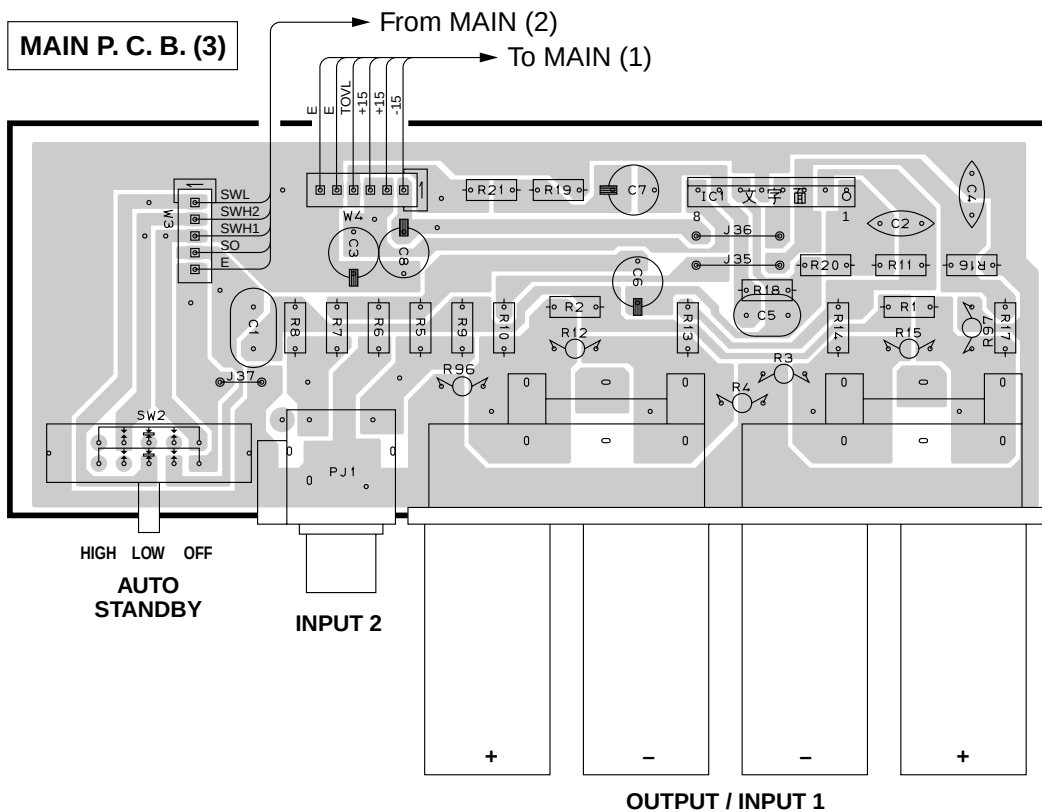
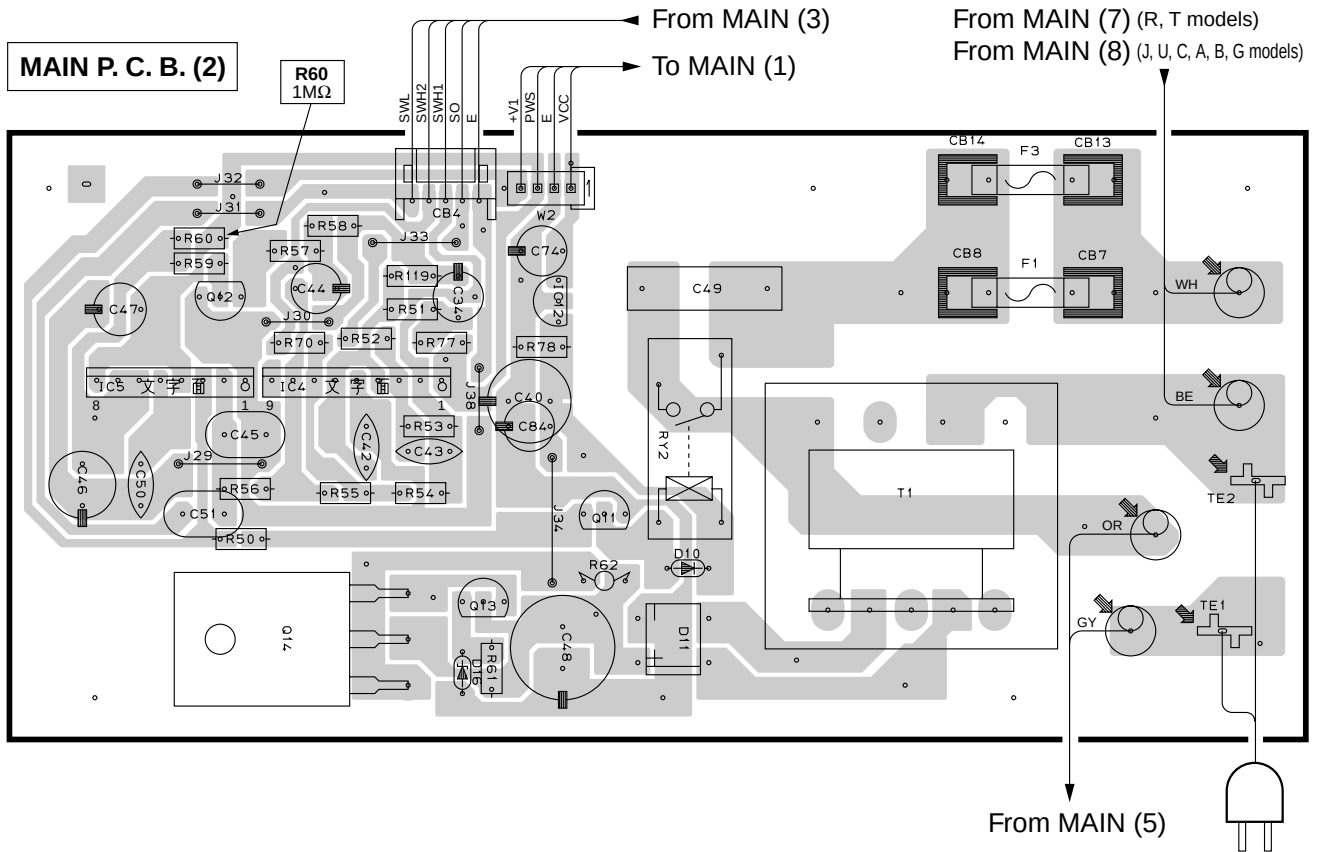
MAIN P. C. B. (5)



From MAIN (1)

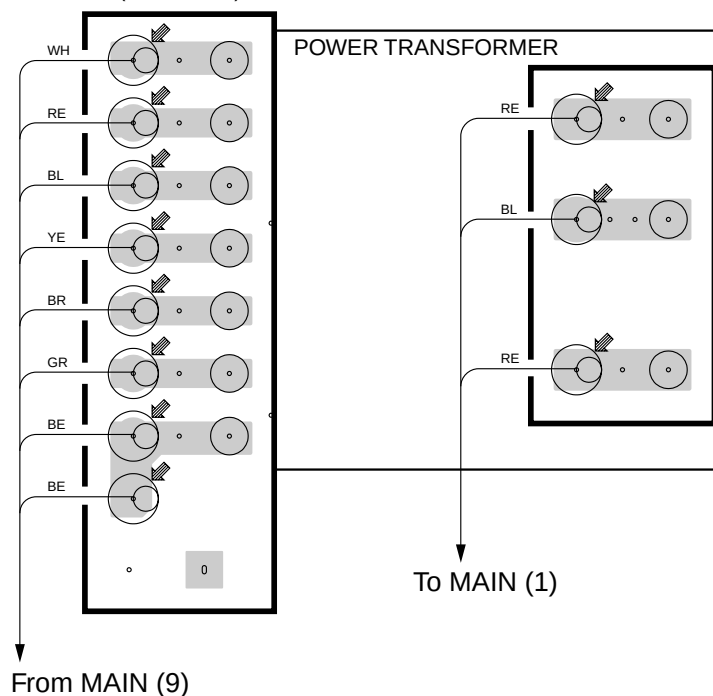
To MAIN (2)

PRINTED CIUCUIT BOARD (Foil side)

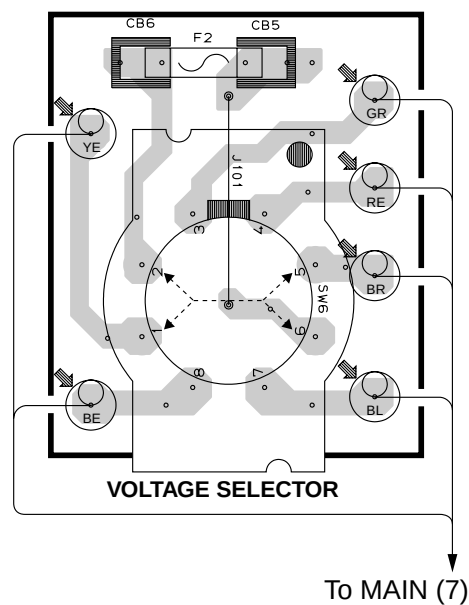


PRINTED CIUCUIT BOARD (Foil side)**MAIN P. C. B. (7)**

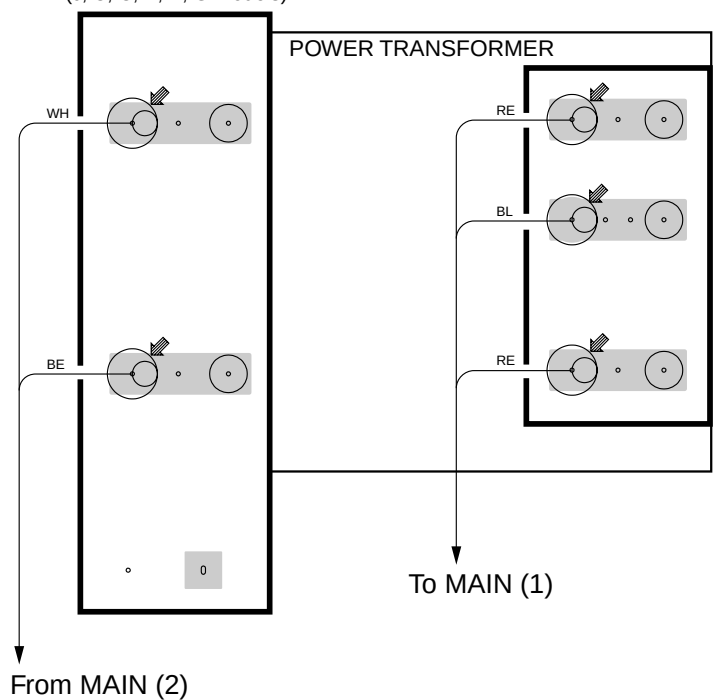
(R, T models)

**MAIN P. C. B. (6)****MAIN P. C. B. (9)**

(R, T models)

**MAIN P. C. B. (8)**

(J, U, C, A, B, G models)

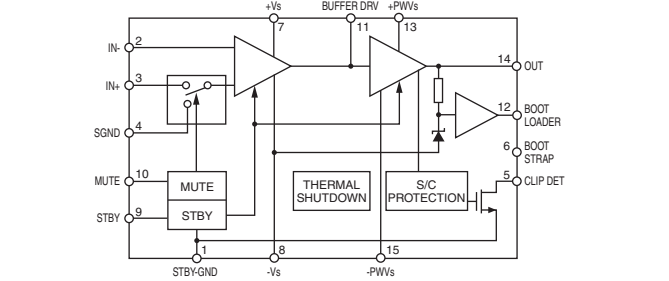
**MAIN P. C. B. (6)**

SCHEMATIC DIAGRAM

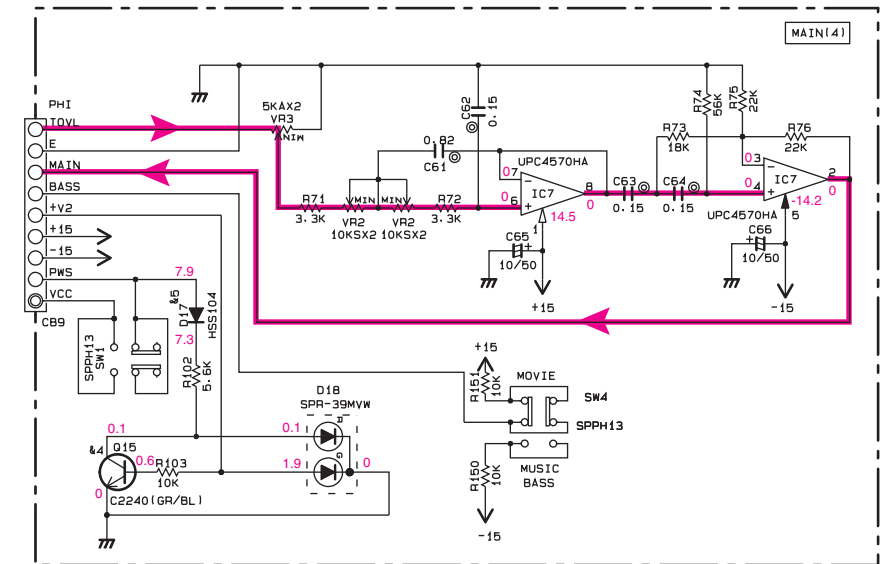
YST-SW105

REMARKS	PARTS NAME	REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)	NO MARK	ELECTROLYTIC CAPACITOR
△	CARBON FILM RESISTOR (P=10)	⊗	TANTALUM CAPACITOR
△	METAL OXIDE FILM RESISTOR	⊙	CERAMIC CAPACITOR
⊙	METAL FILM RESISTOR	⊙	CERAMIC TUBULAR CAPACITOR
⊙	METAL PLATE RESISTOR	⊙	POLYESTER FILM CAPACITOR
⊙	FIRE PROOF CARBON FILM RESISTOR	⊙	POLYSTYRENE FILM CAPACITOR
⊙	CEMENT MOLDED RESISTOR	⊙	MICA CAPACITOR
⊙	SEMI VARIABLE RESISTOR	⊙	POLYPROPYLENE FILM CAPACITOR
■	CHIP RESISTOR	⊙	SEMICONDUCTIVE CERAMIC CAPACITOR

IC2 : TDA7293V
100W DMOS Audio Amp.



LOCATION	DESTINATION			
	J	U-C	R-T	A
s1				
s2				
s3	CB5-6	X	X	VP20650
s4	F2	X	X	T800AL250V
s5	F1	F3A125V	F3A125V	F3A125V
s6	T1	XY442	XY443	XY445
s7	C48	X	X	470/63
s8	RB1	X	X	5.6K
s9	D16	X	X	MTZJ12C
s10	Q13	X	X	C22401GR/BL1
s11	Q14	X	X	C46881R/D1
s12	R62	2.2	2.2	X
s13	C40	1000/25	1000/25	X
s14	TE3	VC31370	VC31370	VC31370
s15	CB13-14	X	X	VP20650
s16	F3	X	X	T800AL250V
s17	CB4	X	X	10/25
s18	CB7-8	VP20650	VP20650	VP20650
s19	SW6	X	X	V718230
s20	W10	X	X	MH12618
s21	W11	X	X	MH10618
s22	W14	X	X	MH14518
s23	W15	X	X	MH11618
s24	W16	X	X	MH15618
s25	W19	X	X	MH15618
s26	J101	X	X	SDT-SS-112DM
s27	RY2	SDT-SS-112DM	SDT-SS-112DM	SDT-SS-112DM

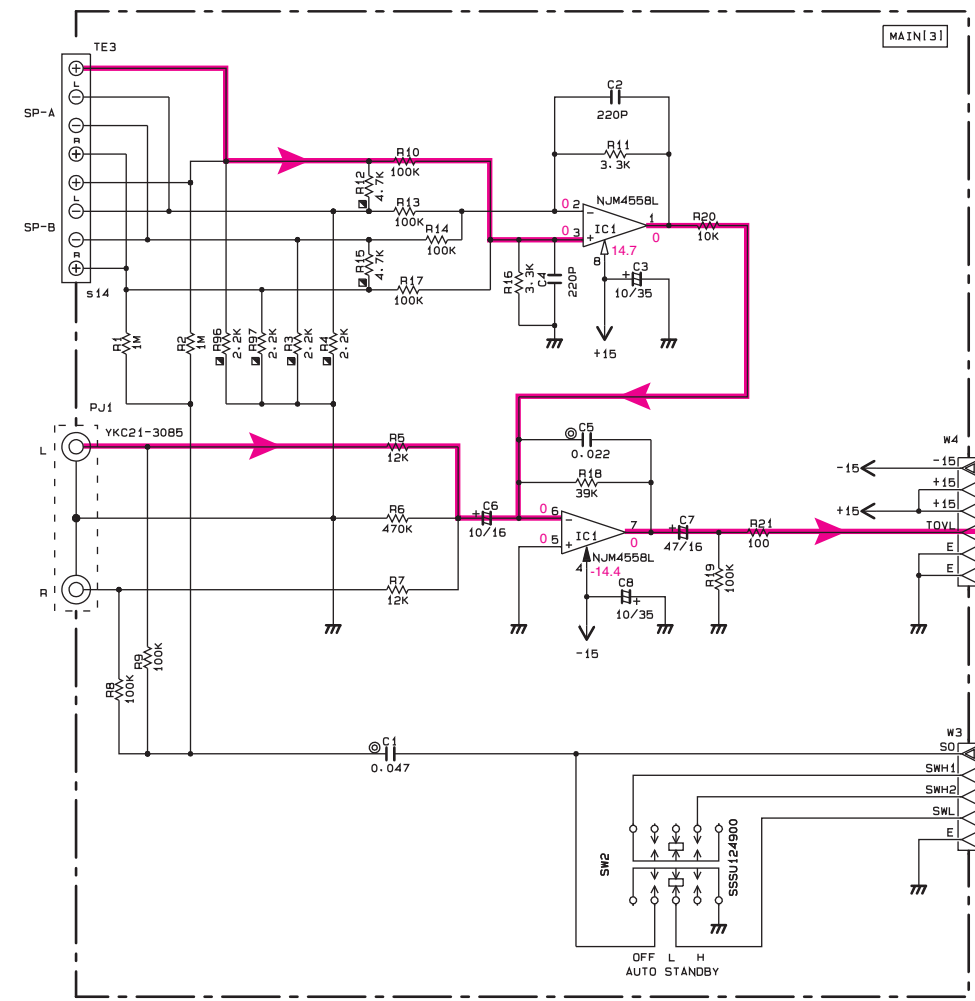


NOTICE (model)

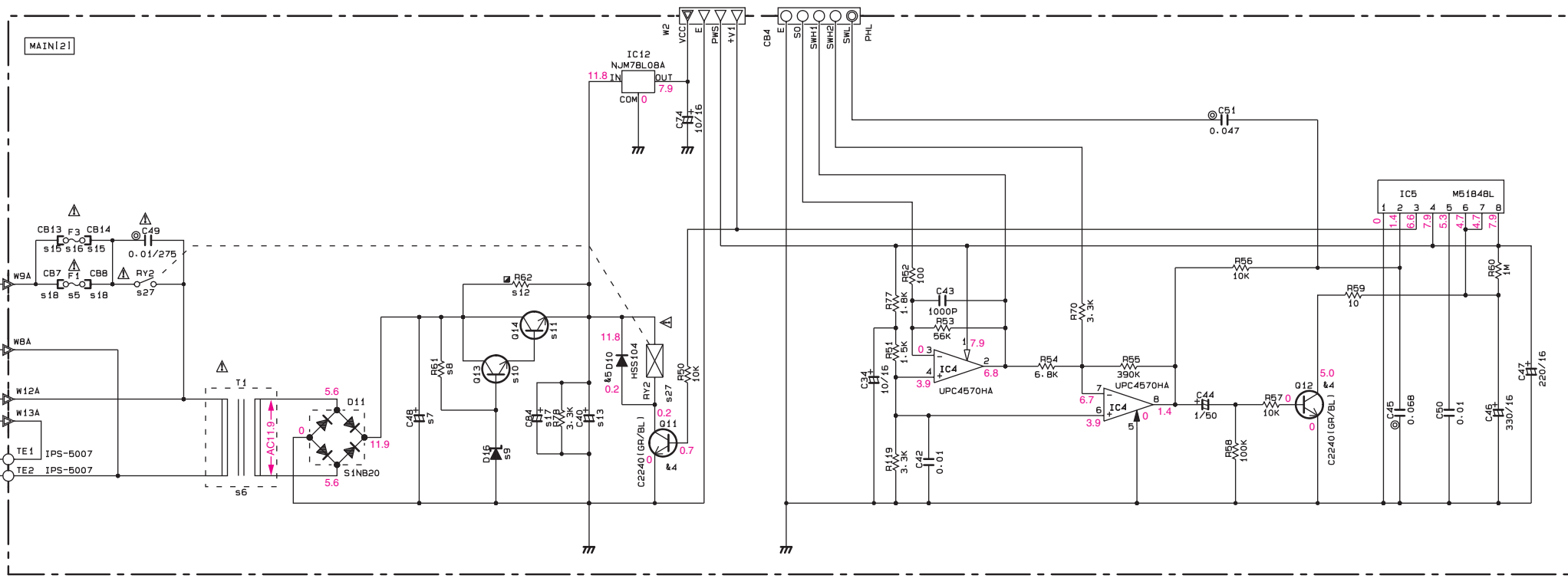
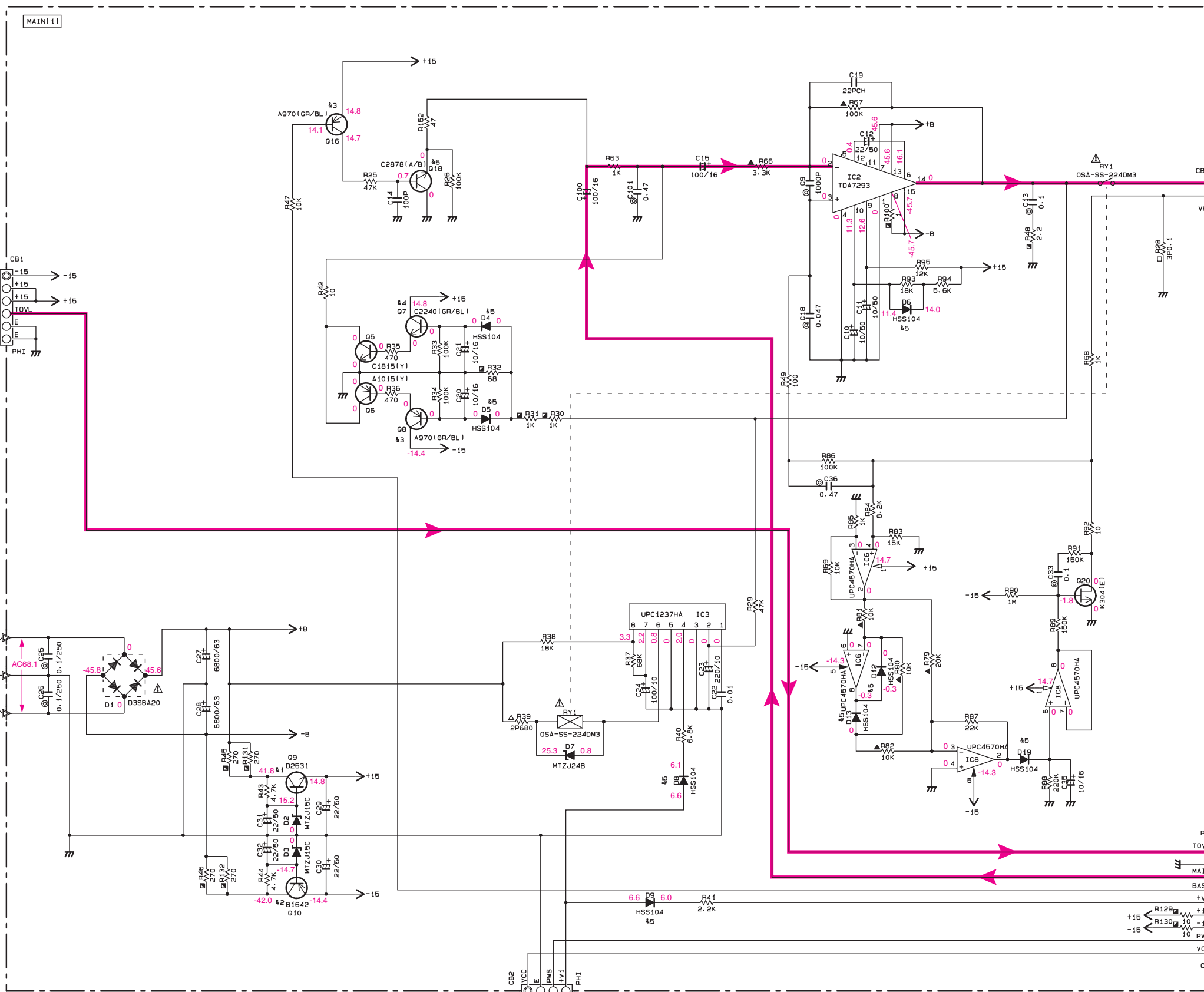
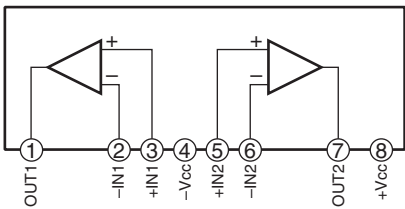
Mark	Reference Parts Number	Parts Name
s1	09	2SD2531
s2	10	2SD1913R/S1
s3	0B-15	2SB1642
s4	07-11-12-15	2SA9701GR/BL1
s5	04-6-8-10-12-13-17-19	2SC22401GR/BL1
s6	018	2SC28781A/B1

All voltage are measured with a 10M /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は、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。



IC1 : NJM4558L
OP Amp.

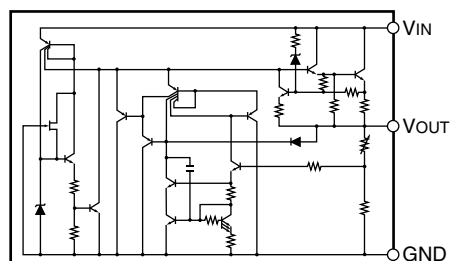
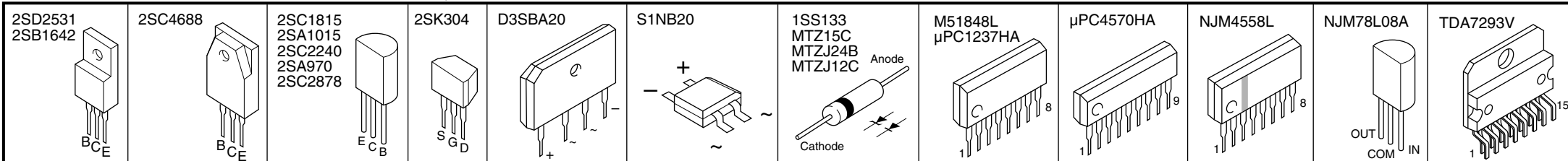


IC3 : μPC1237HA
Protect

IC5 : M51848L
Protect

IC12 : NJM78L08A
Voltage Regulator

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



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 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.SAFETY	: 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	: POWER TRANSFORMER 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	: SLIDE POTENTIOMETER
L.DTCT	: LIGHT DETECTING MODULE	VR.TRIM	: TRIMMER POTENTIOMETER

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

P. C. B. MAIN

*
*
*
*

Schm Ref.	PART NO.	Description	Markets
	V7097000	P.C.B.	UC
	V7097100	P.C.B.	RT
	V7097200	P.C.B.	A
	V7097300	P.C.B.	BG
CB1	VB390200	CN.BS.PIN	
CB2	VB390000	CN.BS.PIN	
CB3	VB390500	CN.BS.PIN	
CB4	VB858400	CN.BS.PIN	
CB5	VP206500	HOLDER.FUS	RT
CB6	VP206500	HOLDER.FUS	RT
CB7	VP206500	HOLDER.FUS	UCRT
CB8	VP206500	HOLDER.FUS	UCRT
CB9	VB390500	CN.BS.PIN	
CB10	LB932020	CN.BS.PIN	
CB13	VP206500	HOLDER.FUS	ABG
CB14	VP206500	HOLDER.FUS	ABG
C1	UA654470	C.MYLAR	0.047uF 50V
C2	FG612220	C.CE	220pF 50V
C3	UR857100	C.EL	10uF 35V
C4	FG612220	C.CE	220pF 50V
C5	UA654220	C.MYLAR	0.022uF 50V
C6	UR837100	C.EL	10uF 16V
C7	UR837470	C.EL	47uF 16V
C8	UR857100	C.EL	10uF 35V
C9	UA653100	C.MYLAR	1000pF 50V
C10	UR867100	C.EL	10uF 50V
C11	UR867100	C.EL	10uF 50V
C12	UR867220	C.EL	22uF 50V
C13	UA655100	C.MYLAR	0.1uF 50V
C14	FG652100	C.CE	100pF 50V
C15	UR838100	C.EL	100uF 16V
C18	UA654470	C.MYLAR	0.047uF 50V
C19	VA761000	C.CE	22pF 50V
C20	UR837100	C.EL	10uF 16V
C21	UR837100	C.EL	10uF 16V
C22	FG644100	C.CE	0.01uF 50V
C23	UR828220	C.EL	220uF 10V
C24	UR828100	C.EL	100uF 10V
C25	V6887300	COVER.CAP	0.1uF ECQ-E2104KF
C26	V6887300	COVER.CAP	0.1uF ECQ-E2104KF
C27	V7093400	C.EL	6800uF 63V
C28	V7093400	C.EL	6800uF 63V
C29	UR867220	C.EL	22uF 50V
C30	UR867220	C.EL	22uF 50V
C31	UR867220	C.EL	22uF 50V
C32	UR867220	C.EL	22uF 50V
C33	UA655100	C.MYLAR	0.1uF 50V
C34	UR837100	C.EL	10uF 16V
C35	UR837100	C.EL	10uF 16V
C36	UA655470	C.MYLAR	0.47uF 50V
C40	UR749100	C.EL	1000uF 25V
C42	FG644100	C.CE	0.01uF 50V
C43	FG613100	C.CE	1000pF 50V
C44	UR866100	C.EL	1uF 50V
C45	UA654680	C.MYLAR	0.068uF 50V
C46	UR838330	C.EL	330uF 16V
C47	UR838220	C.EL	220uF 16V
C48	UR778470	C.EL	470uF 63V
C49	VS741700	C.CE.SAFTY	0.01uF 275V
C50	FG644100	C.CE	0.01uF 50V
C51	UA654470	C.MYLAR	0.047uF 50V
C61	VE327100	C.MYLAR.ML	0.82uF 50V
C62	VE326200	C.MYLAR.ML	0.15uF 50V



* New Parts

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Schm Ref.	PART NO.	Description	Markets
C63	VE326200	C.MYLAR.ML	0.15uF 50V
C64	VE326200	C.MYLAR.ML	0.15uF 50V
C65	UM417100	C.EL	10uF 50V
C66	UM417100	C.EL	10uF 50V
C74	UR837100	C.EL	10uF 16V
C84	UR847100	C.EL	10uF 25V
C100	UR838100	C.EL	100uF 16V
C101	UA655470	C.MYLAR	0.47uF 50V
D1	VN011300	DIODE.BRG	D3SBA20 4A 200V
D2	VG440900	DIODE.ZENR	MTZJ15C 15V
D3	VG440900	DIODE.ZENR	MTZJ15C 15V
D4	VD631600	DIODE	1SS133, 176
D5	VD631600	DIODE	1SS133, 176
D6	VD631600	DIODE	1SS133, 176
D7	VG442500	DIODE.ZENR	MTZJ24B 24V
D8	VD631600	DIODE	1SS133, 176
D9	VD631600	DIODE	1SS133, 176
D10	VD631600	DIODE	1SS133, 176
D11	VR253700	DIODE.BRG	S1NB20 1.0A 200V
D12	VD631600	DIODE	1SS133, 176
D13	VD631600	DIODE	1SS133, 176
D16	VG440300	DIODE.ZENR	MTZJ12C 12V
D17	VD631600	DIODE	1SS133, 176
D18	VS079300	LED	SPR-39MVW
D19	VD631600	DIODE	1SS133, 176
F1	VS822700	FUSE	T3.0A 125V
F2	KB002610	FUSE	T800mA 250V
F3	KB002610	FUSE	T800mA 250V
IC1	XM922A00	IC	NJM4558L
IC2	XZ745A00	IC	TDA7293V 100W
IC3	XF663A00	IC	uPC1237HA
IC4	XB247A00	IC	uPC4570HA
IC5	XP741A00	IC	M51848L
IC6	XB247A00	IC	uPC4570HA
IC7	XB247A00	IC	uPC4570HA
IC8	XB247A00	IC	uPC4570HA
IC12	iG160100	IC	NJM78L08A 8V
PJ1	VT666100	JACK.PIN	2P
Q5	iC181510	TR	2SC1815 Y
Q6	ia101510	TR	2SA1015 Y
Q7	iC224030	TR	2SC2240 GR,BL
Q8	ia097030	TR	2SA970 GR,BL
Q9	V6896700	TR	2SD2531
Q10	V6896500	TR	2SB1642
Q11	iC224030	TR	2SC2240 GR,BL
Q12	iC224030	TR	2SC2240 GR,BL
Q13	iC224030	TR	2SC2240 GR,BL
Q14	VK801200	TR	2SC4688 R,0
Q15	iC224030	TR	2SC2240 GR,BL
Q16	ia097030	TR	2SA970 GR,BL
Q18	iC287820	TR	2SC2878 A,B
Q20	V3028000	FET	2SK304 E
R3	HV756220	R.CAR.FP	2.2KΩ 1/4W
R4	HV756220	R.CAR.FP	2.2KΩ 1/4W
R12	HV756470	R.CAR.FP	4.7KΩ 1/4W
R15	HV756470	R.CAR.FP	4.7KΩ 1/4W
R28	V6022600	R.WW	0.1Ω 3W
R30	HV756100	R.CAR.FP	1KΩ 1/4W
R31	HV756100	R.CAR.FP	1KΩ 1/4W
R32	HV754680	R.CAR.FP	68Ω 1/4W
R39	VC761000	R.MTL.OXD	680Ω 2W
R45	HV755270	R.CAR.FP	270Ω 1/4W
R46	HV755270	R.CAR.FP	270Ω 1/4W

* New Parts

P. C. B. MAIN

Schm Ref.	PART NO.	Description	Markets
R48	HV753220	R.CAR.FP 2.2Ω 1/4W	UCABG
R62	HV753220	R.CAR.FP 2.2Ω 1/4W	
R66	HB026330	R.MTL.FLM 3.3KΩ 1/4W	
R67	HB028100	R.MTL.FLM 100KΩ 1/4W	
R79	HB027200	R.MTL.FLM 20KΩ 1/4W	
R80	HB027100	R.MTL.FLM 10KΩ 1/4W	
R81	HB027100	R.MTL.FLM 10KΩ 1/4W	
R82	HB027100	R.MTL.FLM 10KΩ 1/4W	
R96	HV756220	R.CAR.FP 2.2KΩ 1/4W	
R97	HV756220	R.CAR.FP 2.2KΩ 1/4W	
R100	HV753100	R.CAR.FP 1Ω 1/4W	
R129	HV754100	R.CAR.FP 10Ω 1/4W	
R130	HV754100	R.CAR.FP 10Ω 1/4W	
R131	HV755270	R.CAR.FP 270Ω 1/4W	RT UCABG
R132	HV755270	R.CAR.FP 270Ω 1/4W	
⚠ RY1	VU161600	RELAY DC OSA-SS-224DM3	
⚠ RY2	V2712300	RELAY DC SDT-S-112LMR	
⚠ RY2	VU349800	RELAY DC SDT-SS-112DM	
SW1	VS066500	SW.PUSH SPPH13-W	
SW2	VD179500	SW.SLIDE SSSU12	
SW4	VS066500	SW.PUSH SPPH13-W	
SW6	V7182300	VOLT.SELCT R8140213	
⚠ T1	XV443A00	TRANS.PWR	
⚠ T1	XV445A00	TRANS.PWR	
⚠ T1	XW607A00	TRANS.PWR	
TE1	VT658100	TERM.WRAP 352-TX119	BG UCRTA
TE2	VT658100	TERM.WRAP 352-TX119	
TE3	V4811400	TERM.SP 8P	
TE3	VC313700	TERM.SP 8P	
VR2	V3582800	VR S10KΩ	
VR3	V3582700	VR A5KΩ	
	V5995800	PLATE.GND RX-V800	
	V7235100	CON.GND JG-11-T	
	V7113100	CN.ASSY 9P 450mm C&C	
	V7572400	HOLDER.LED LE56209-0	

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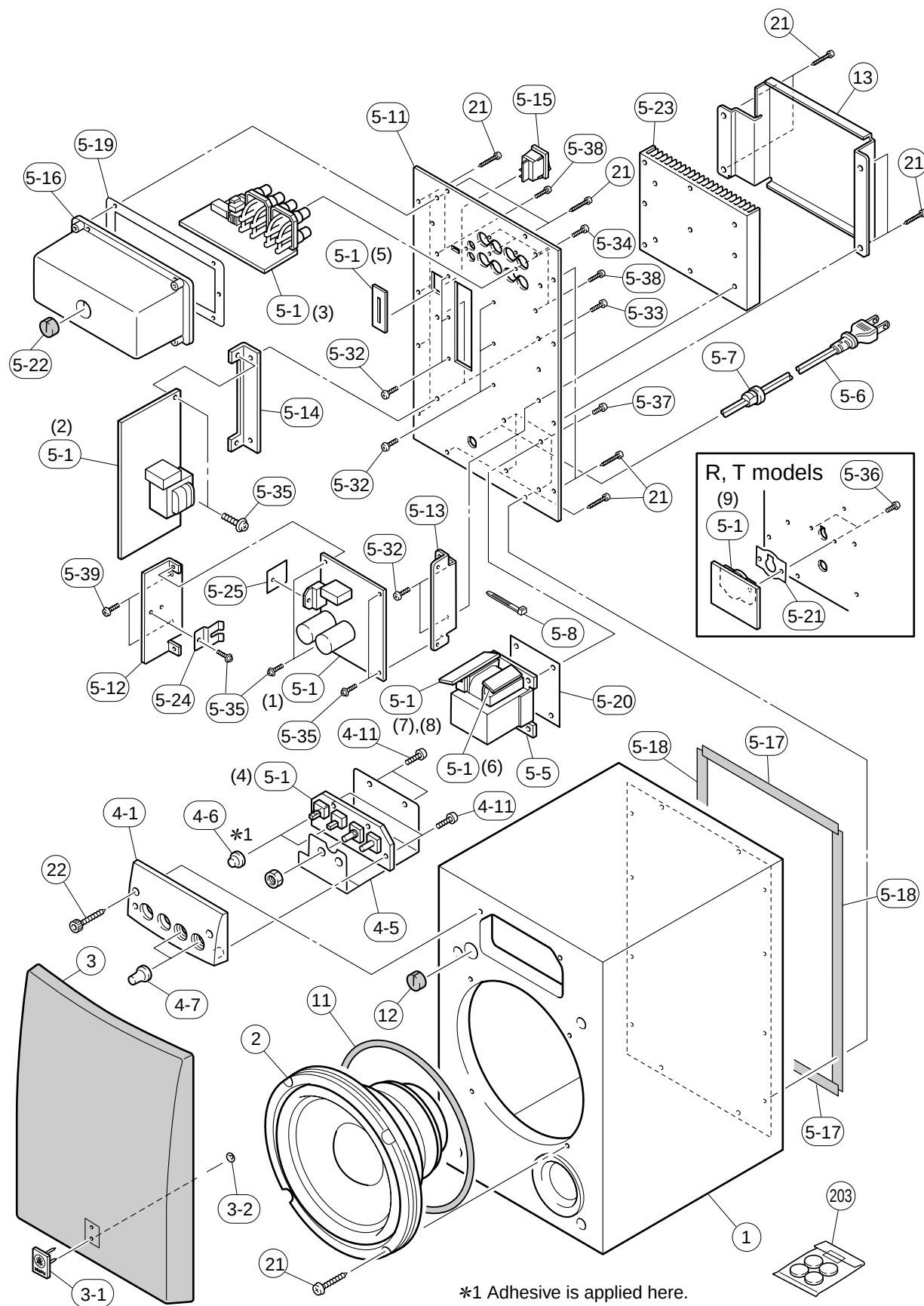
* New Parts

Schm Ref.	PART NO.	Description	Markets

* New Parts

YST-SW105

EXPLODED VIEW



*1 Adhesive is applied here.

MECHANICAL PARTS

Ref. No.	PART NO.	Description	Remarks	Markets
* 1	V7292200	CABINET ASS'Y	BL	
* 1	V7292300	CABINET ASS'Y	CH	
* 2	XZ951A00	LOUD SPEAKER JA2165	20cm 6Ω	
* 3	V7292400	FRONT GRILLE ASS'Y	BL	
* 3	V7292500	FRONT GRILLE ASS'Y	CH	
	3-1	V2192200 EMBLEM	YAMAHA	
	3-2	VP161000 PUSH NUT	SPN1.5	
* 4-1	V7108500	FRONT PANEL	BL	UCRTABG
* 4-1	V7108700	FRONT PANEL	CH	UCRTABG
* 4-5	V7240400	SHIELD SHEET		
* 4-6	V6964200	SWITCH KNOB	BL	
* 4-6	V6964300	SWITCH KNOB	CH	
* 4-7	V6964400	VOLUME KNOB	BL	
* 4-7	V6964500	VOLUME KNOB	CH	
	4-11	EP600280 BIND HEAD P-TITE SCREW	3x8 ZMC2-Y	
* 5-1	V7097000	P.C.B. ASS'Y	MAIN	UC
* 5-1	V7097100	P.C.B. ASS'Y	MAIN	RT
* 5-1	V7097200	P.C.B. ASS'Y	MAIN	A
* 5-1	V7097300	P.C.B. ASS'Y	MAIN	BG
*  5-5	XZ833A00	POWER TRANSFORMER		UC
*  5-5	XZ834A00	POWER TRANSFORMER		RT
*  5-5	XZ835A00	POWER TRANSFORMER		A
*  5-5	XZ836A00	POWER TRANSFORMER		BG
 5-6	V2689600	POWER CORD	10A SPT-2 2m	UC
*  5-6	V6792800	POWER CORD	7.5A 2m	A
*  5-6	V6893100	POWER CORD	2.5A 250V 2m	G
*  5-6	V6977100	POWER CORD	6.0A 2m	B
 5-6	VZ555600	POWER CORD	10A 250V 2m	RT
	5-7	CB072750 CORD STOPPER	SR-4N-4	
	5-8	CB069250 BINDING TIE	BK-1	
* 5-11	V7026400	REAR PANEL		UC
* 5-11	V7026500	REAR PANEL		RT
* 5-11	V7026600	REAR PANEL		A
* 5-11	V7026700	REAR PANEL		BG
* 5-12	V7026800	RADIATOR		
* 5-13	V7026900	PLATE		
* 5-14	V5986900	PLATE B		
 5-15	V5520700	ROCKER SWITCH	JW-M11RKK UCS TV-5	
* 5-16	V5987000	COVER		
* 5-17	V5987100	PACKING A		
* 5-18	V5987200	PACKING B		
* 5-19	V5987300	PACKING C		
* 5-20	V7042000	PACKING		
* 5-21	V5987500	GASKET		RT
* 5-22	V5984900	BUSH B		
* 5-23	V7041900	HEAT SINK	17BS146-L118-K	
* 5-24	V7080100	SUPPORT		
* 5-25	V7275500	RADIATION SHEET	21x25 TBM-51W	
	5-32	EP600140 BIND HEAD B-TITE SCREW	3x10 MFZN2-BL	
* 5-33	EG340190	BIND HEAD B-TITE SCREW	4x8 MFZN2-BL	
* 5-34	EP630660	BIND HEAD P-TITE SCREW	3x10 MFZN2-BL	
	5-35	VT669300 PW HEAD B-TITE SCREW	3x8-8 MFC2	
* 5-36	VA295800	BIND HEAD SCREW	3x8 ZMC2-BL	RT

* New Parts

	Ref. No.	PART NO.	Description		Remarks	Markets
*	5-37	V6655200	BIND HEAD S-TITE SCREW	4x8	MFZN2BL	
*	5-38	VA847600	BIND HEAD P-TITE SCREW	4x12	MFZN2-BL	
	5-39	VK173200	SCREW, TRANSISTOR	3x15	SP FCM3	
*	11	V5984800	PACKING			
*	12	V5984900	BUSH, B			
*	13	V7636500	REAR COVER			
	21	EP040070	BIND HEAD TAPPING SCREW	4x20	ZMC2-BL	
	22	V5537800	HEXAGON SOCKET TAPPING SCREW	4x20	MFZN2BL	BL
*	22	V7275700	HEXAGON SOCKET TAPPING SCREW	4x20	MFNI33	CH
	203	V5982400	ACCESSORIES NON SKID PAD	4 pcs/set		

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

1/4W Type

HJ35 10mm

1/6W Type

HF85 5mm

* : Not available

YST-SW105



YAMAHA
