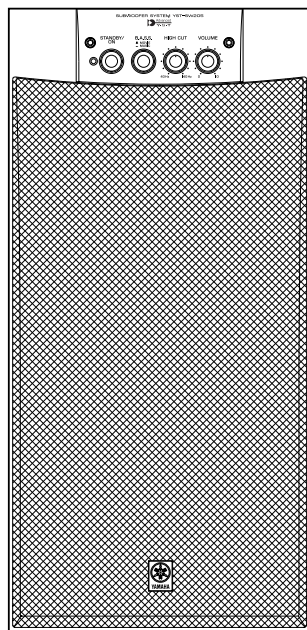


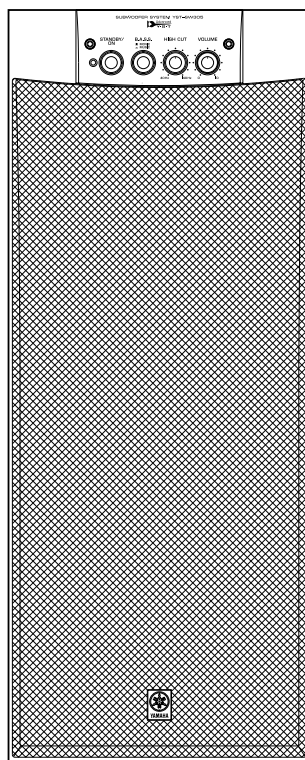
SUBWOOFER SYSTEM

YST-SW205/305

SERVICE MANUAL



YST-SW205



YST-SW305

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.

CONTENTS

TO SERVICE PERSONNEL	1
SPECIFICATIONS	2
INTERNAL VIEW	3
REAR PANELS	4~5
DISASSEMBLY PROCEDURES	6

ADJUSTMENTS	7~8
BLOCK DIAGRAM	9
PRINTED CIRCUIT BOARD	10~15
SCHEMATIC DIAGRAM	16~17
PARTS LIST	18~31

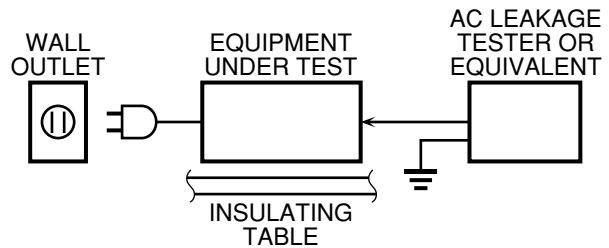


このサービスマニュアルは、エコマーク認定の再生紙を使用しています。
This Service Manual uses recycled paper.



■ 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 0.15 μ 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.

SPECIFICATIONS

* Specifications are subject to change without notice due to product improvements.

	YST-SW205	YST-SW305
Type	Advanced Yamaha Active Servo Technology	←
Output Power	150 W/100 Hz, 5 Ω 10% T.H.D.	200 W/100 Hz, 5 Ω 10% T.H.D.
Input Sensitivity		
INPUT 1 (SP)	0.8 V (50 Hz, 150 W/5Ω, L+R)	1.0 V (50 Hz, 200 W/5Ω, L+R)
INPUT 2 (PJ)	40 mV (50 Hz, 150 W/5Ω, L+R)	50 mV (50 Hz, 200 W/5Ω, L+R)
Input Impedance		
INPUT 1 (SP)	2.2 kΩ	←
INPUT 2 (PJ)	12 kΩ	←
Frequency Response	23 Hz ~ 170Hz	20 Hz ~ 160Hz
Driver Unit	20 cm (8") cone magnetic shielding type x 1	20 cm (8") cone magnetic shielding type x 2
Input Section		
INPUT 1	Speaker terminal	←
INPUT 2	RCA pin jack	←
Power Supply		
U, C models	AC120V, 60Hz	←
A model	AC240V, 50Hz	←
B, G models	AC230V, 50Hz	←
R, T models	AC110/120/220/240V, 50/60Hz	←
Power Consumption	70 W	80 W
Standby Power Consumption	0.8 W	0.8 W
Dimensions (W x H x D)	235 x 485 x 402 mm (9-5/16" x 19-1/16" x 15-13/16")	235 x 585 x 445 mm (9-5/16" x 23" x 17-1/2")
Weight	15 kg (33 lbs. 1 oz.)	21 kg (48 lbs. 8 oz.)
Finish		
All models	Black color / Cherry color	←
Accessory	Nonskid Pad x 4	←

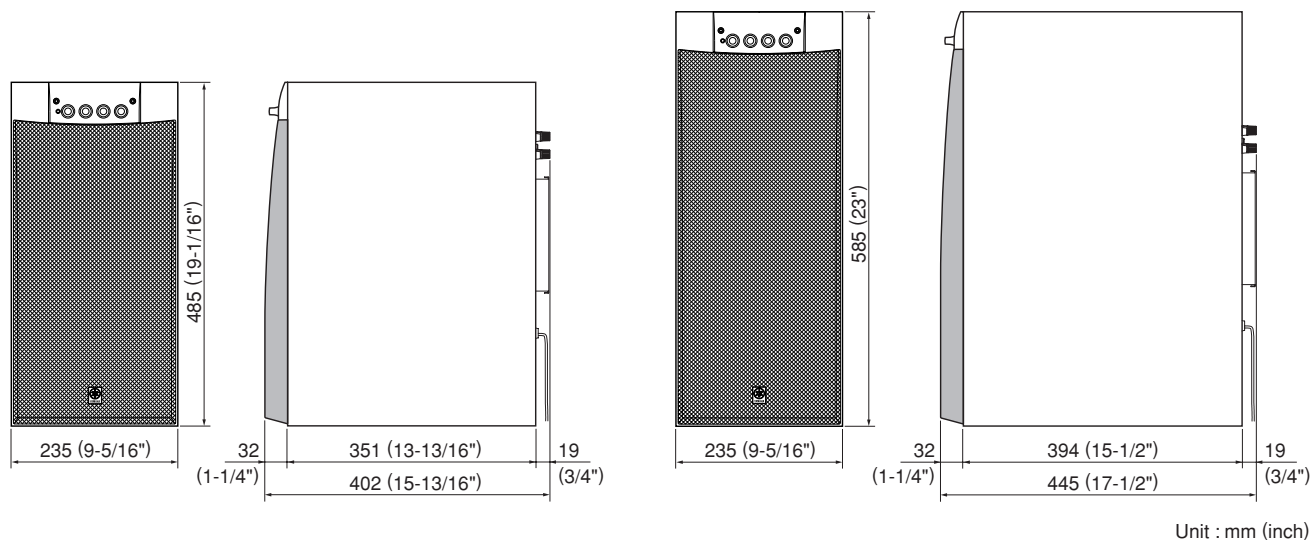
U U.S.A. model
G Europe model

C Canada model
R General model

A Australia model
T China model

B British model

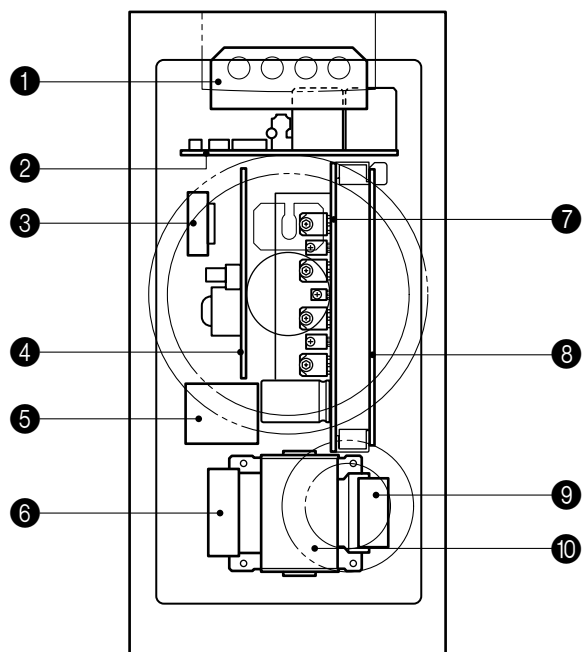
DIMENSIONS



YST-SW205

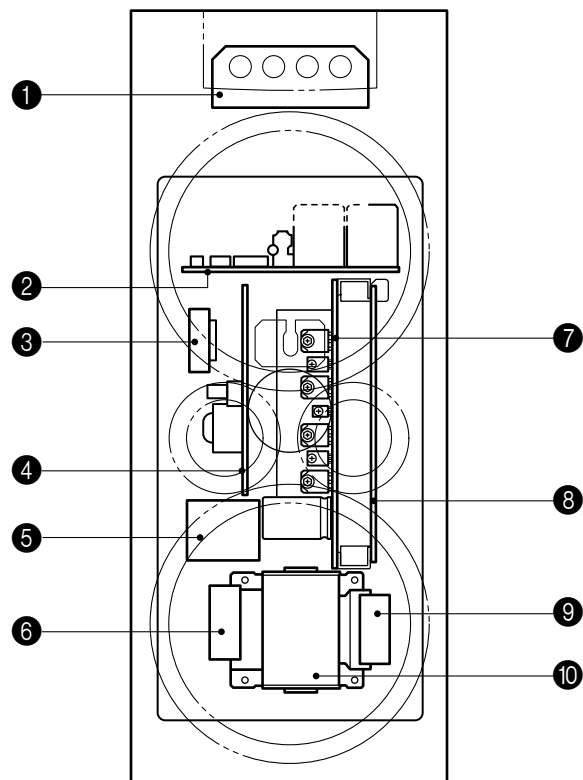
YST-SW305

INTERNAL VIEW



YST-SW205

- ① MAIN (5) P. C. B.
- ② MAIN (4) P. C. B.
- ③ MAIN (10) P. C. B.
- ④ MAIN (3) P. C. B.
- ⑤ MAIN (9) P. C. B. [R, T models only]
- ⑥ MAIN (8) P. C. B. [U, C, A, B, G models]
- MAIN (7) P. C. B. [R, T models]



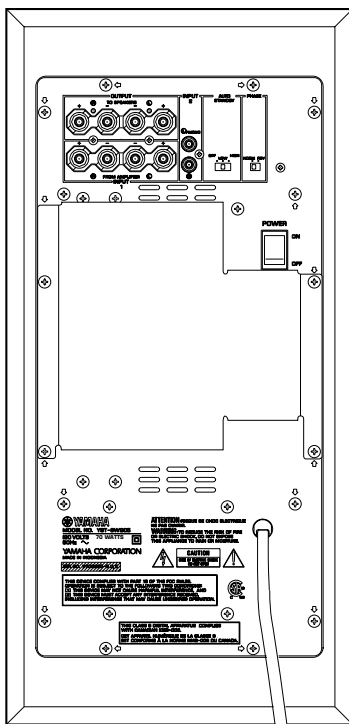
YST-SW305

- ⑦ MAIN (1) P. C. B.
- ⑧ MAIN (2) P. C. B.
- ⑨ MAIN (6) P. C. B.
- ⑩ Power Transformer

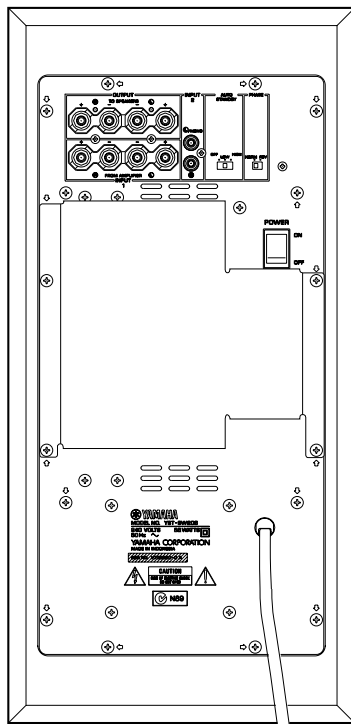
REAR PANELS

YST-SW205

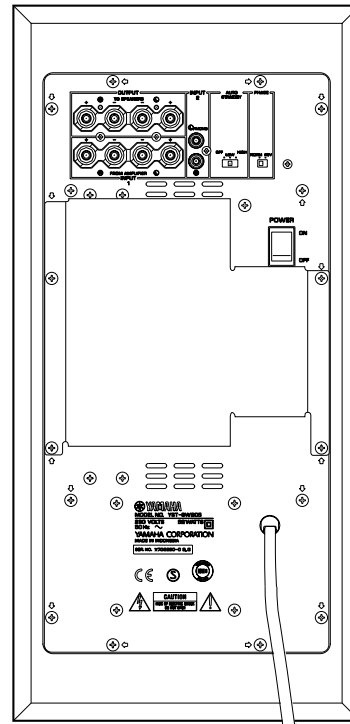
U, C models



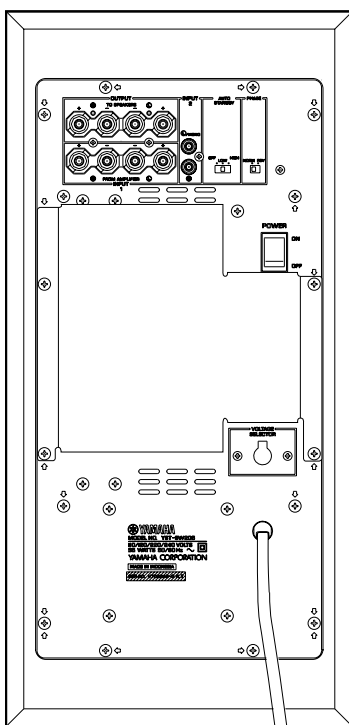
A model



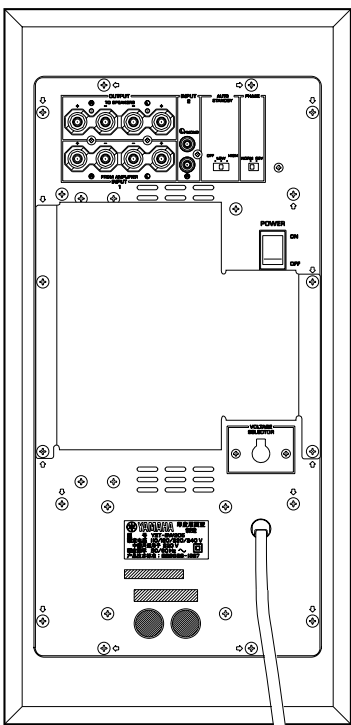
B, G model



R model

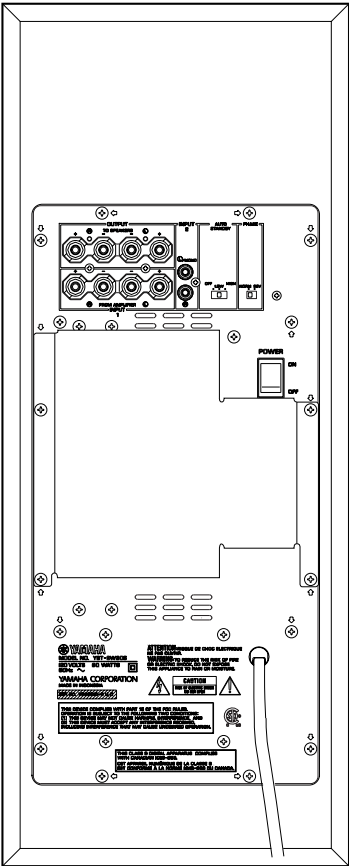


T model

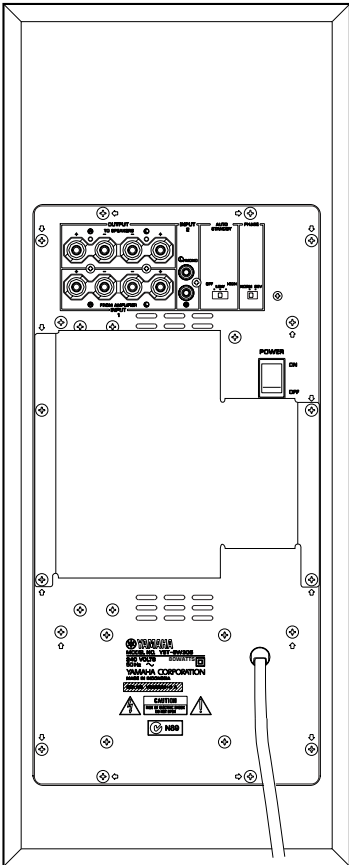


YST-SW305

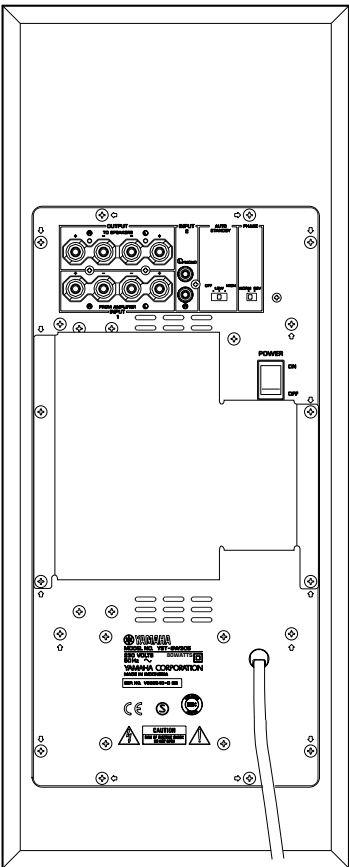
U, C models



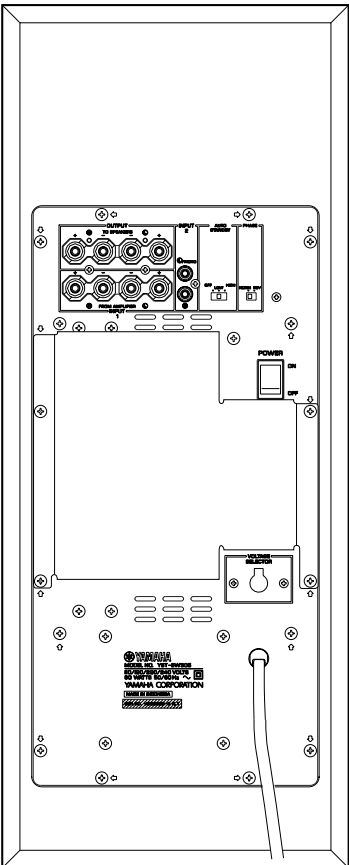
A model



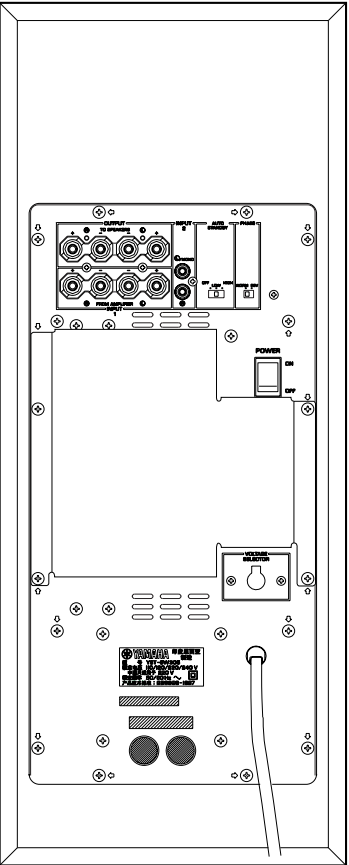
B, G model



R 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 6 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)

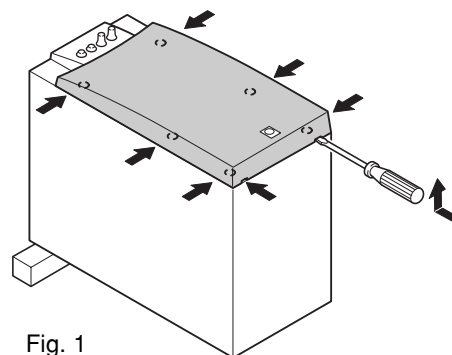


Fig. 1

2. Removal of Driver unit

- Remove 4 (8 when YST-SW305) screws (①) in Fig. 2, and remove the Driver unit.
- Remove the cable cord.

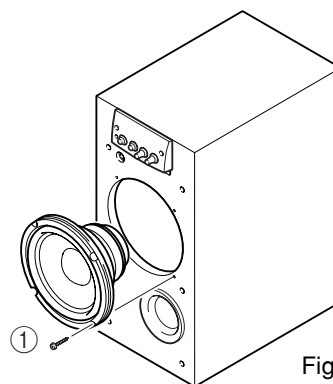


Fig. 2

● 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 4 screws (③) and 12 screws (④) in Fig. 4, and remove the rear panel. At this time, disconnect the connector CB3 of MAIN (2) P.C.B.

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

3. P.C.B. Operation Check

- Disconnect the connector CB9 of MAIN (5) P.C.B.
- Connect the connector CB3 of MAIN (2) P.C.B. and CB9 of MAIN (5) P.C.B. by using an extension cable. (Fig. 4)

Extension cable : V7278000 (9P, 700 mm)

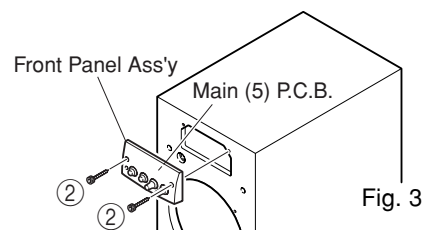


Fig. 3

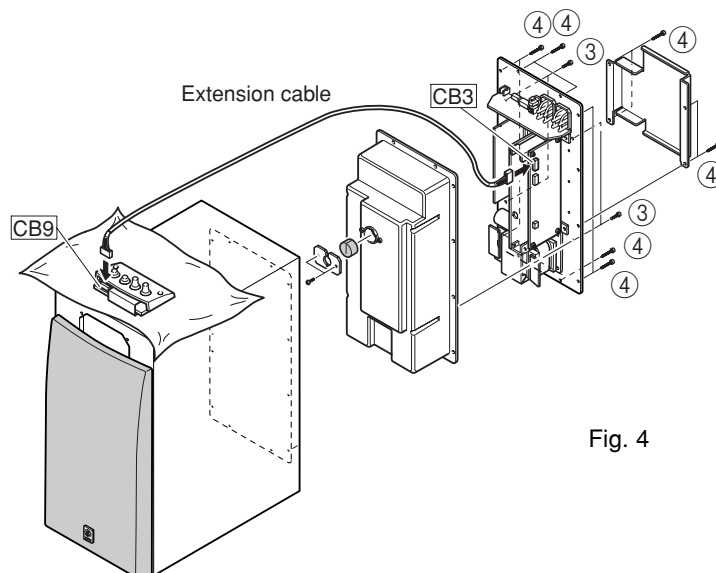


Fig. 4

■ ADJUSTMENTS

● Confirmation of Power Amp operation

For the power amplifier which has been repaired, it is absolutely necessary to confirm that a correct waveform is obtained at points indicated by ① and ② in the schematic diagram according to the following procedure.

Devices required

Signal generator
8 Ω or 6 Ω load resistor
Oscilloscope (dual trace type)

Connection

- 1) Connect the output signal from the signal generator to the input terminal of the unit.
- 2) Disconnect the connector terminal connected to the speaker unit and reconnect it to the load resistor.
- 3) Connect the HOT side of the oscilloscope CH1 probe to the point A or B indicated in the figure and the GND side to the GND of the main unit.
- 4) Connect the oscilloscope CH2 input to the red side of the connector cable, which is connected with the load resistor.
At this time, the GND terminal of CH2 must be left unconnected.

Setting

- 1) Set the signal generator to the sine wave, 100Hz and minimum output level settings.
- 2) Set the volume of the unit to the minimum position.
- 3) Turn on the power to the unit.
- 4) Adjust the output level of the signal generator and the volume of the unit so that the output level observed at oscilloscope CH2 is 28Vp-p.

Waveform observation

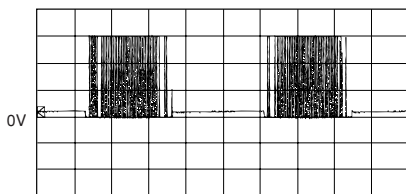
With the settings made as described above, observe the waveform obtained at CH1 for judgment.

Normal

Point A (Cathode of D29)

V : 20V/div H : 2 msec/div

DC range 1 : 1 probe



Abnormal

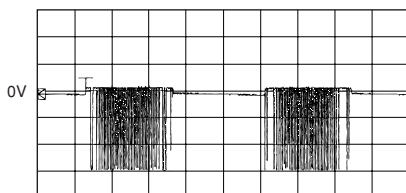
+B or GND level
Becomes constant

Normal

Point B (Anode of D31)

V : 20V/div H : 2 msec/div

DC range 1 : 1 probe



Abnormal

-B or GND level
Becomes constant

● Idling Adjustment

To stabilize operation of the amplifier, turn ON the power with no input signal and wait for 2 to 3 minutes in non loaded condition before the adjustment.

Adjust VR1 so that the voltage between terminals TP11 and TP12 is 30mV to 200mV.

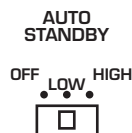
● Confirmation of AUTO STANDBY operation

Setting

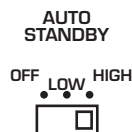
- 1) Turn off the power switch.
- 2) In order to shorten the time required for operation check; connect a 10k Ω resistor at both ends of R60 on the MAIN (3) P.C.B.
- 3) Connect the output signal from the signal generator to the L/MONO terminal of the unit.
- 4) Set the signal generator for the sine wave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

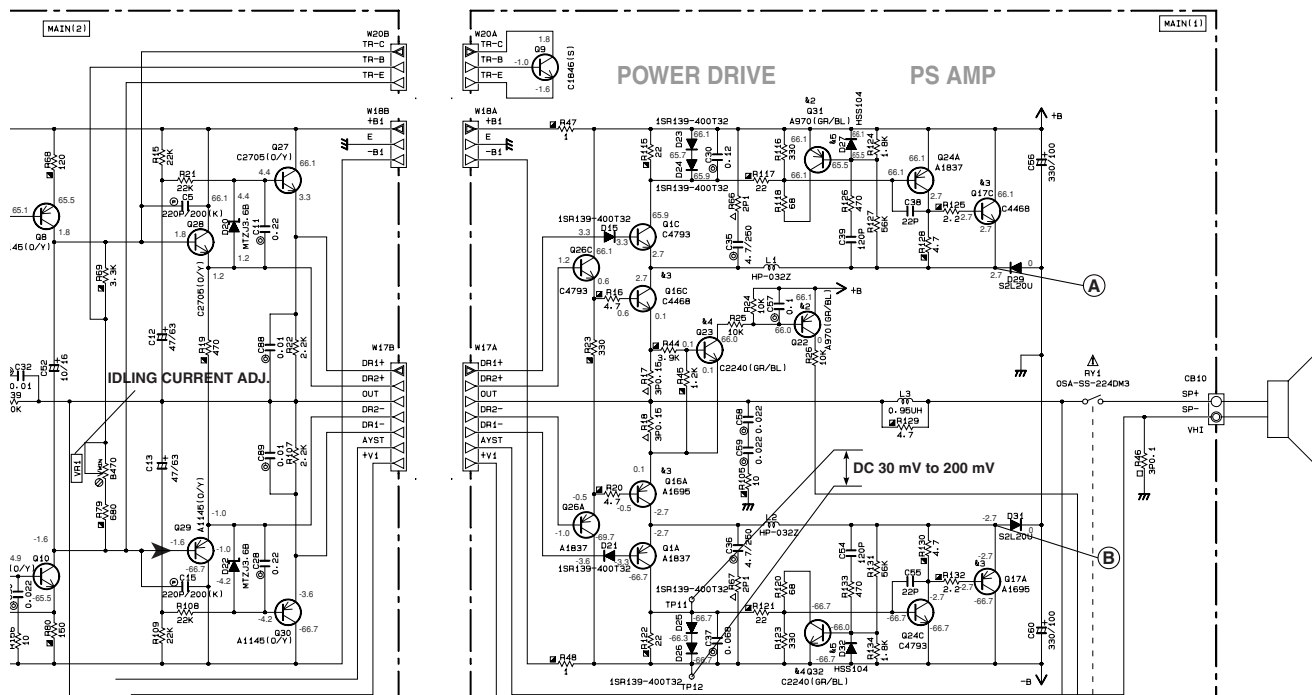


- 5) Turn on the STANDBY/ON switch.
The display LED lights up (green) and its color remains unchanged even after time have elapsed.
- 6) Turn off the STANDBY/ON switch.
The display LED goes off.

After confirmation

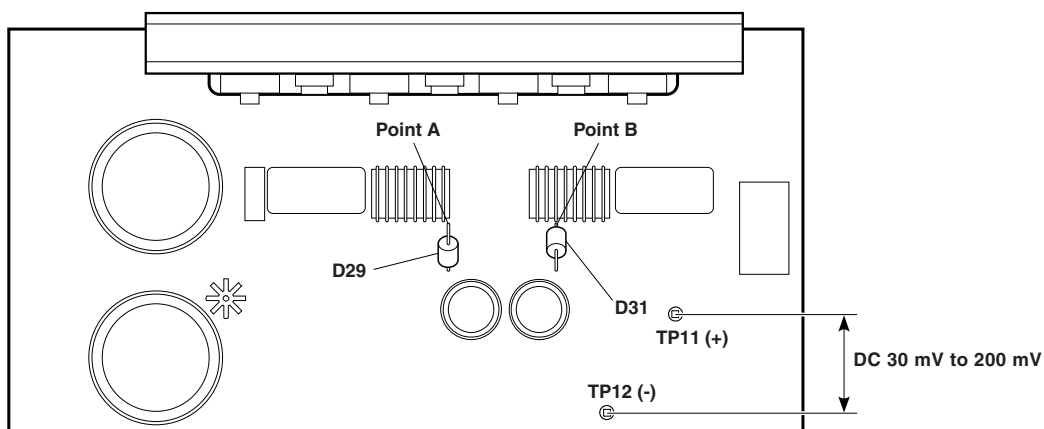
- 1) Turn off the power switch.
- 2) Disconnect the 10k Ω resistor connected to both ends of R60.

Schematic Diagram (Ex.: YST-SW205)

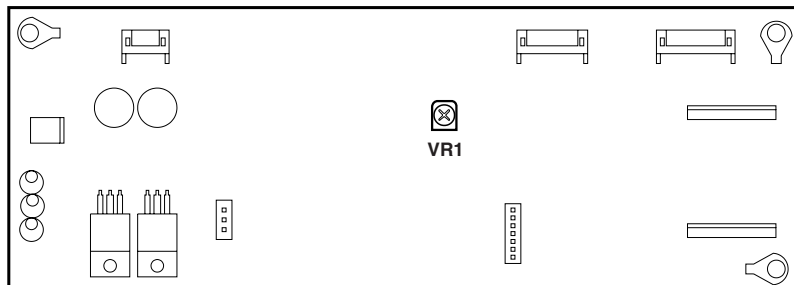


Test Points (Ex.: YST-SW205)

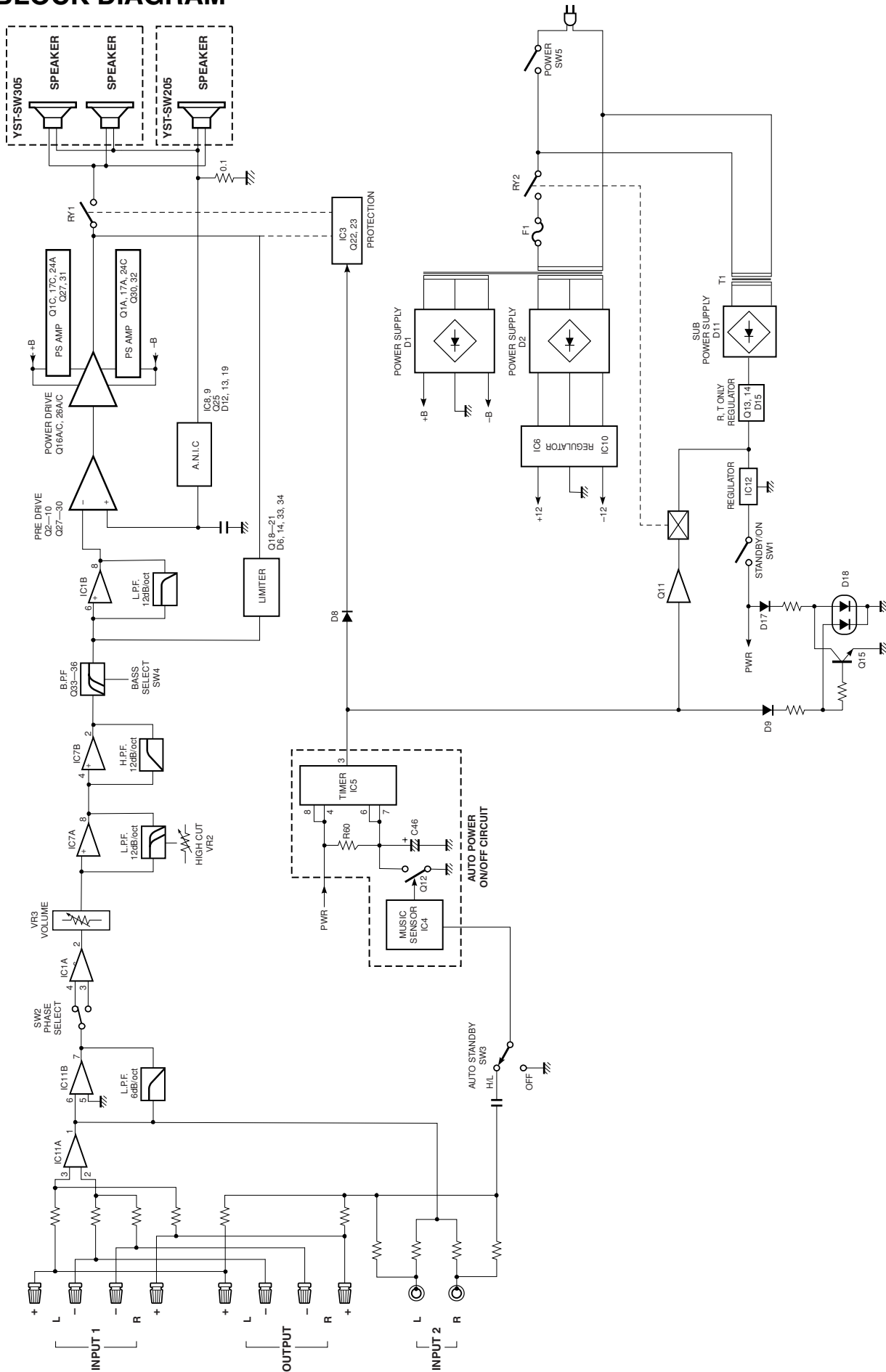
Main (1) P.C.B.



Main (2) P.C.B.



BLOCK DIAGRAM

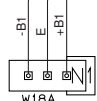


YST-SW205

PRINTED CIUCUIT BOARD (Foil side)

MAIN (1) P. C. B.

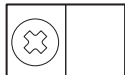
From MAIN (6)

From MAIN
(2)

Q16C



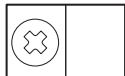
Q1C



Q17C



Q9



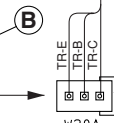
Q17A



Q1A

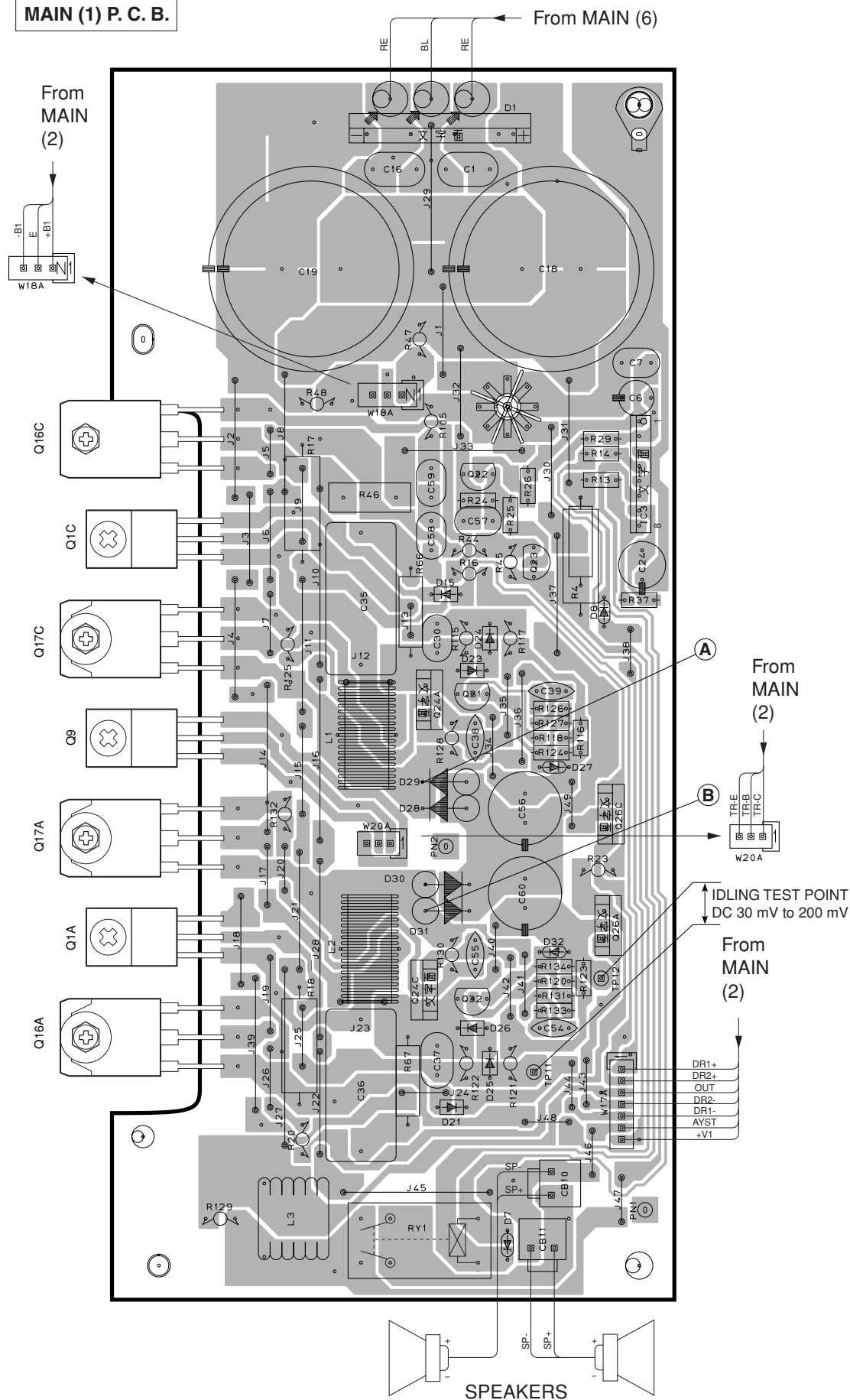


Q16A

From MAIN
(2)IDLING TEST POINT
DC 30 mV to 200 mVFrom MAIN
(2)
 DR1+
 DR2+
 OUT
 DR2-
 DR1-
 AYST
 +V1

SPEAKER

MAIN (1) P. C. B.



YST-SW205

YST-SW305

PRINTED CIUCUIT BOARD (Foil side)

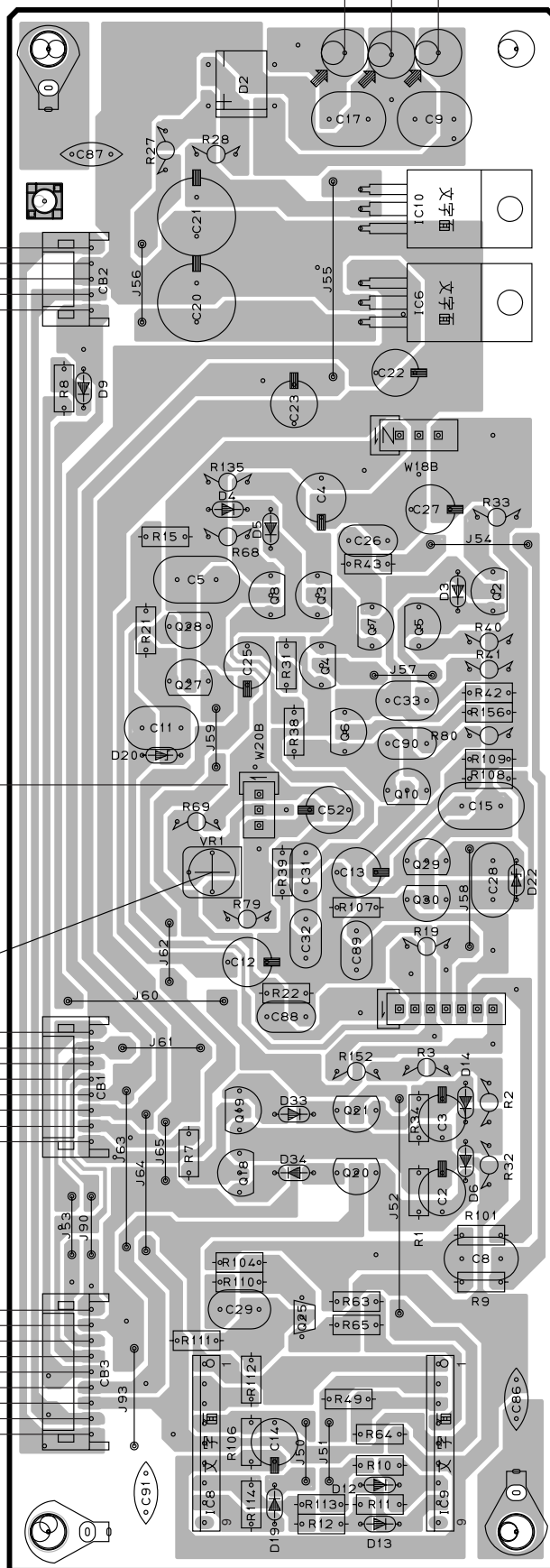
MAIN (2) P. C. B.

From MAIN (6)

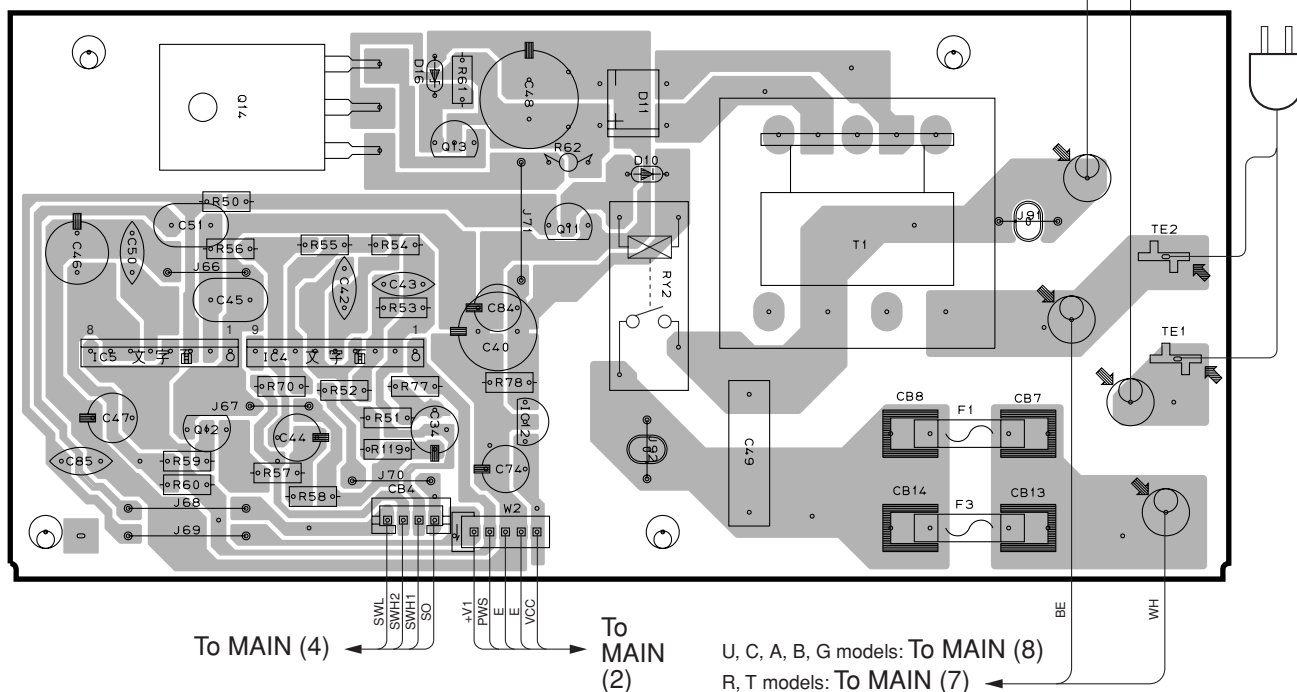
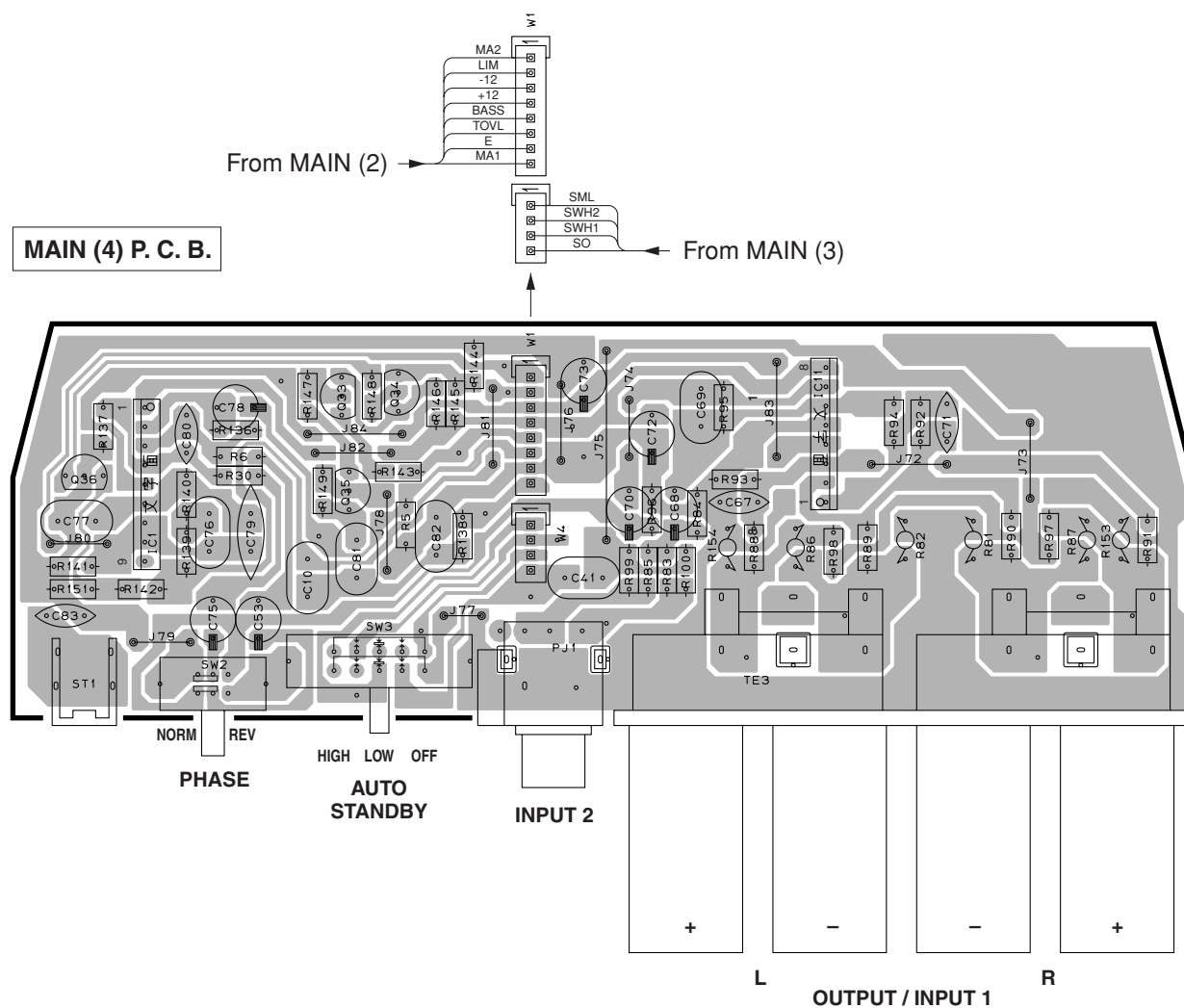
From
MAIN
(3)To
MAIN
(1)

To MAIN (1)

IDLING CURRENT ADJ.

From
MAIN
(4)To
MAIN
(5)To
MAIN
(1)

PRINTED CIUCUIT BOARD (Foil side)

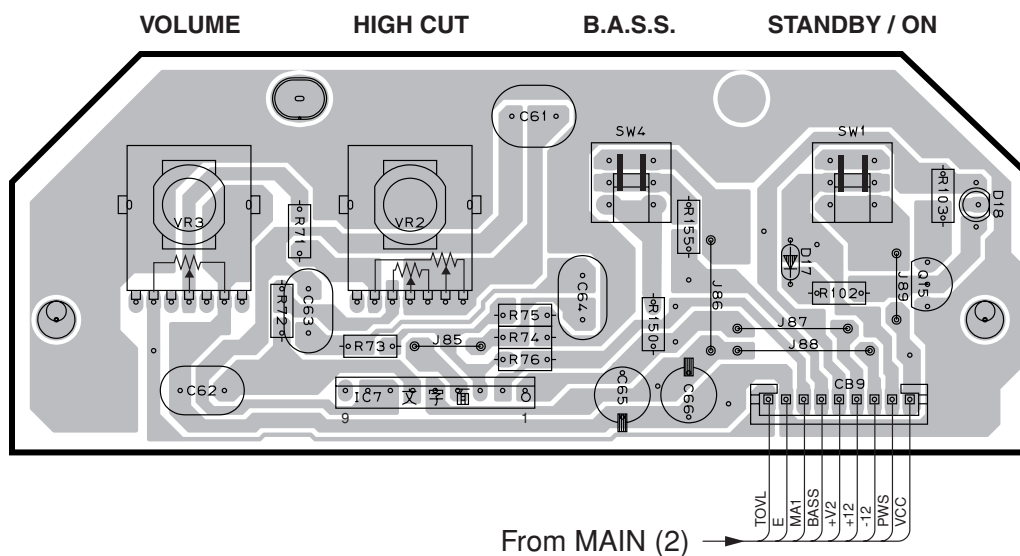
MAIN (3) P. C. B.

MAIN (4) P. C. B.


YST-SW205

YST-SW305

1 PRINTED CIUCUIT BOARD (Foil side)

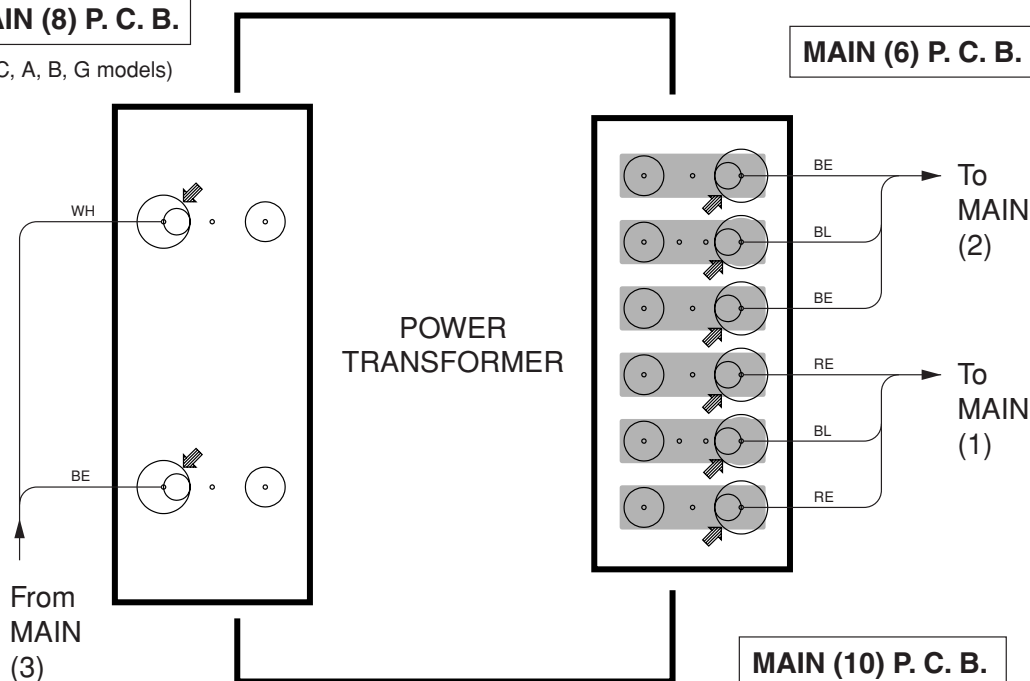
MAIN (5) P. C. B.



MAIN (8) P. C. B.

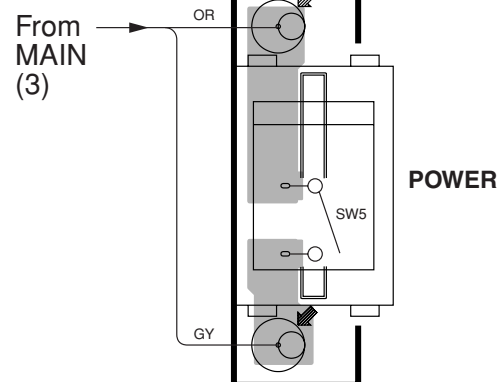
(U, C, A, B, G models)

MAIN (6) P. C. B.



MAIN (10) P. C. B.

From MAIN (3)



YST-SW205/305

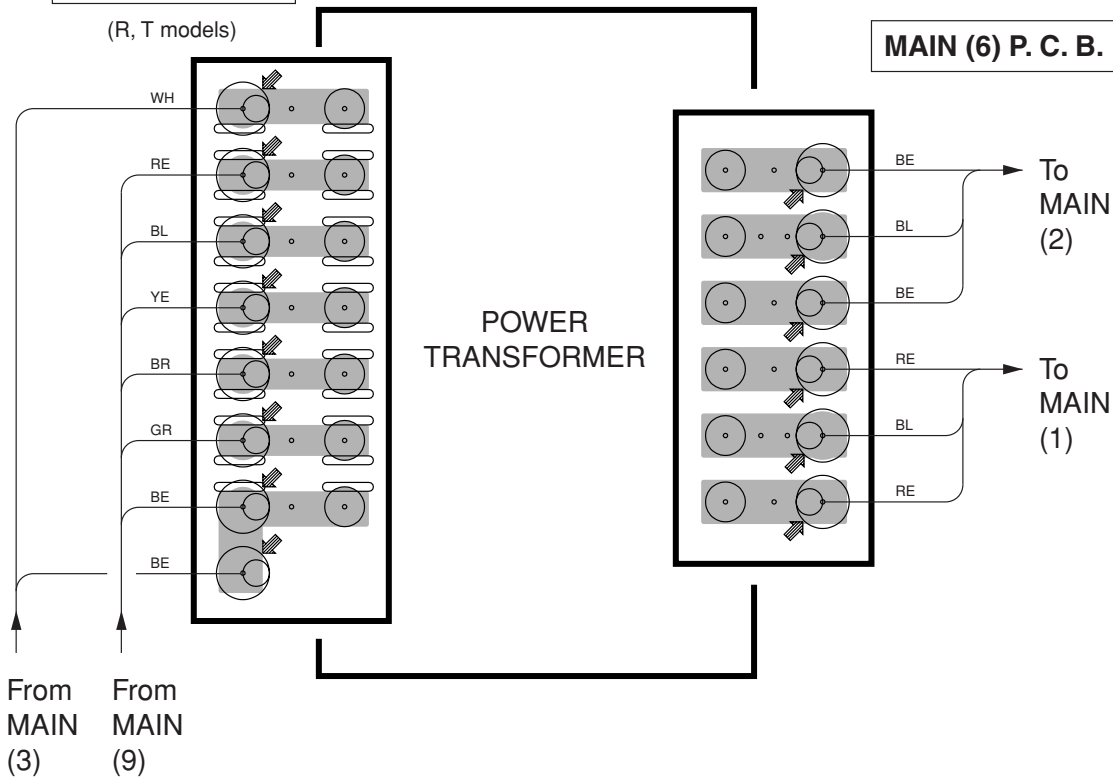
YST-SW205

YST-SW305

■ PRINTED CIUCUIT BOARD (Foil side)

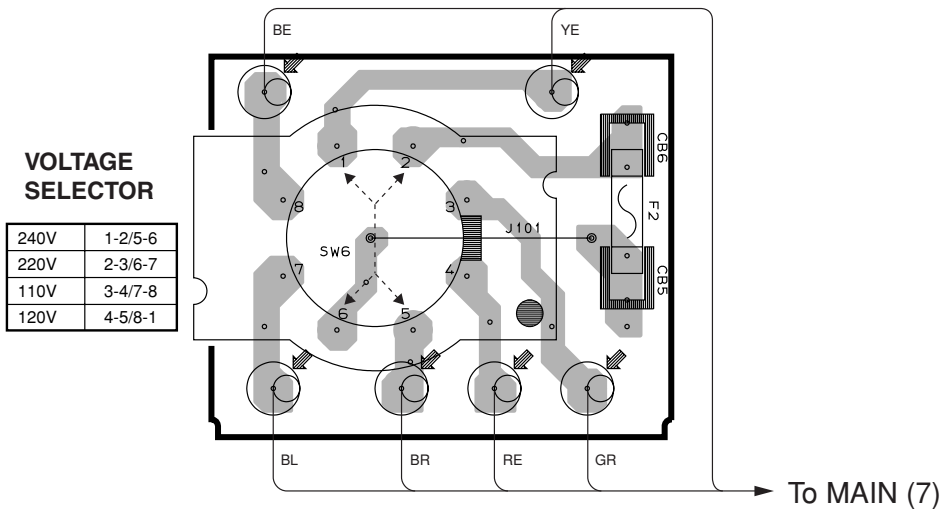
MAIN (7) P. C. B.

(R, T models)



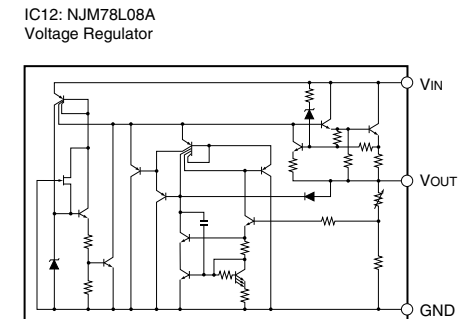
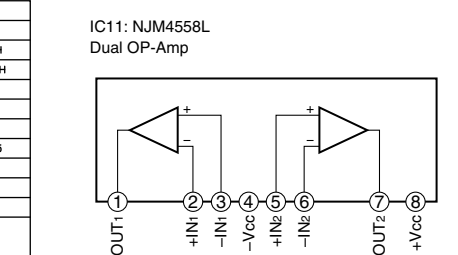
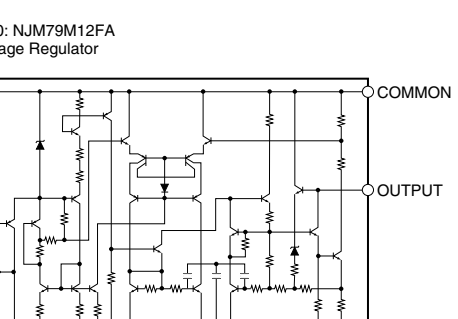
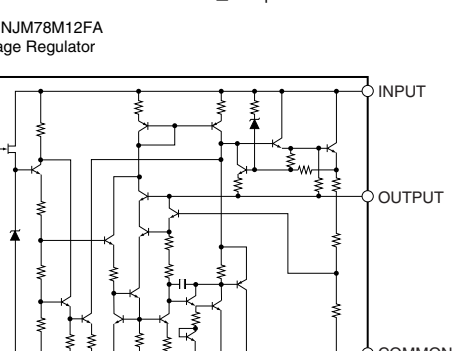
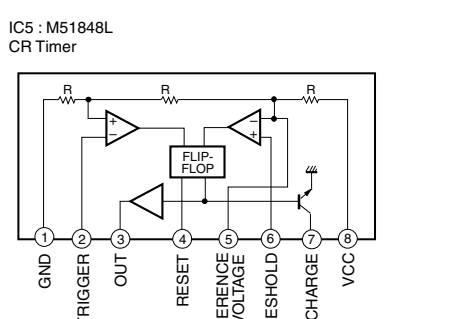
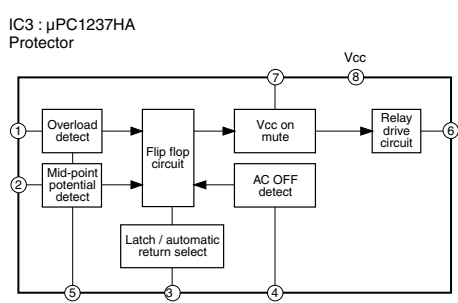
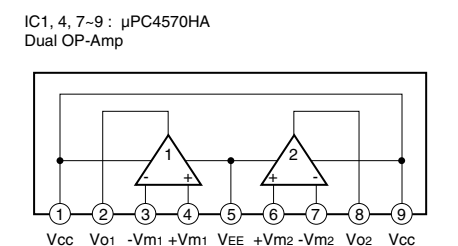
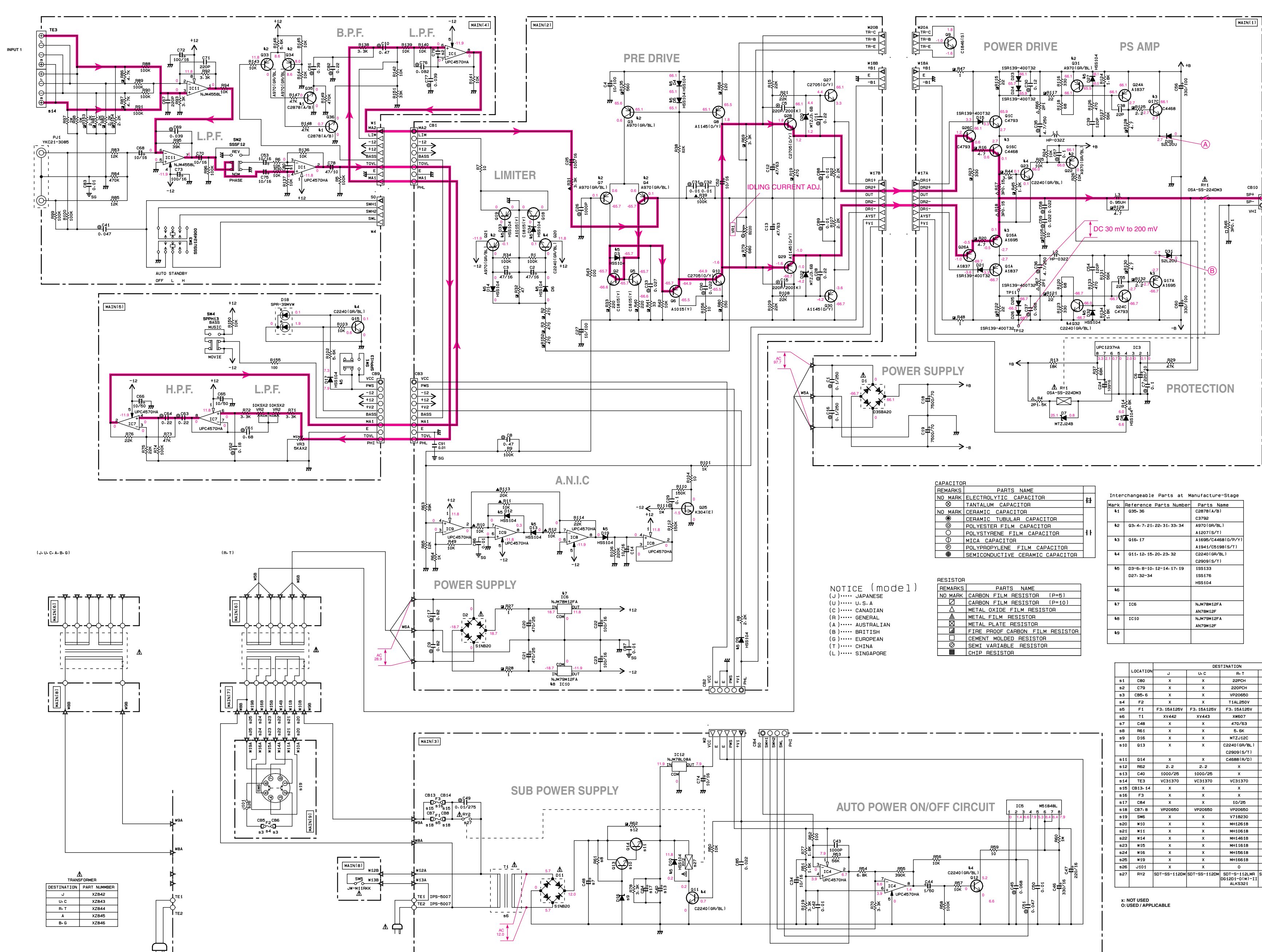
MAIN (9) P. C. B.

(R, T models)



SCHEMATIC DIAGRAM (YST-SW205)

YST-SW205/SW305



REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
NO MARK	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
NO MARK	CERAMIC TUBULAR CAPACITOR
NO MARK	POLYESTER FILM CAPACITOR
NO MARK	POLYSTYRENE FILM CAPACITOR
NO MARK	MICA CAPACITOR
NO MARK	POLYPROPYLENE FILM CAPACITOR
NO MARK	SEMICONDUCTIVE CERAMIC CAPACITOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
NO MARK	CARBON FILM RESISTOR (P=10)
NO MARK	METAL OXIDE FILM RESISTOR
NO MARK	METAL PLATE RESISTOR
NO MARK	FIRE PROOF CARBON FILM RESISTOR
NO MARK	CEMENT MOLDED RESISTOR
NO MARK	SEMI VARIABLE RESISTOR
NO MARK	CHIP RESISTOR

Mark	Reference Parts Number	Parts Name
A1	Q30-36	C878(A/B)
A2	Q3-4-7-21-22-31-33-34	A970(GR/BL)
A3	Q16-17	A1695/C468(G/P/Y)
A4	Q11-12-15-20-23-32	A1941/C5198(S/T)
A5	Q3-6-8-10-12-14-17-19	C2240(GR/BL)
A6	D3-6-8-10-12-14-17-19	C2909(S/T)
A7	IC6	NJM78M12FA
A8	IC10	NJM79M12FA
A9	IC11	NJM4558L

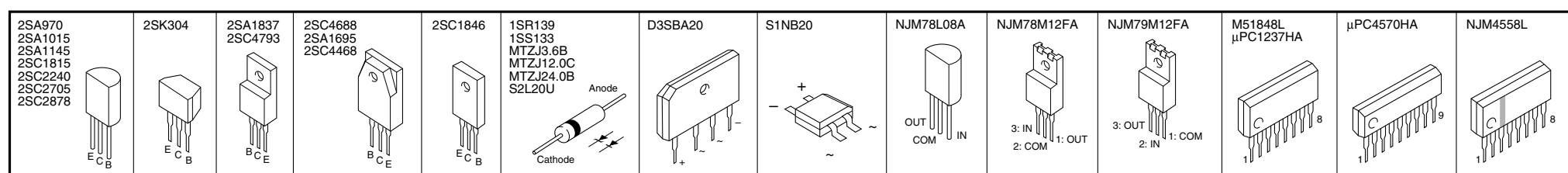
LOCATION	J	U-C	R-T	A	B-G
S1	C80	X	X	22PCH	X
S2	C79	X	X	220PCH	X
S3	C85-6	X	X	VP0650	X
S4	F2	X	X	T1AL250V	X
S5	F1	F3-15A125V	F3-15A125V	F3-15A125V	X
S6	T1	XV442	XV443	XV445	XV446
S7	C48	X	X	470/63	X
S8	R61	X	X	5.6K	X
S9	D16	X	X	MTZJ12C	X
S10	Q13	X	X	C2240(GR/BL)	X
S11	Q14	X	X	C4688(R/D)	X
S12	R62	2-2	2-2	X	2-2
S13	C40	1000/25	1000/25	X	1000/25
S14	TE3	VC31370	VC31370	V481440	X
S15	C813-14	X	X	VP0650	VP0650
S16	F3	X	X	T1AL250V	T1AL250V
S17	C84	X	X	10/25	X
S18	C87-8	VP0650	VP0650	VP0650	X
S19	SMS	X	X	V716020	X
S20	W10	X	X	MH1261B	X
S21	W11	X	X	MH1061B	X
S22	W14	X	X	MH1461B	X
S23	W15	X	X	MH161B	X
S24	W16	X	X	MH1661B	X
S25	W19	X	X	MH1661B	X
S26	J501	X	X	D	X
S27	RY2	SDT-S8-1120M	SDT-S8-1120M	SDT-S8-1120M	SDT-S8-1120M

X: NOT USED
O: USED / APPLICABLE

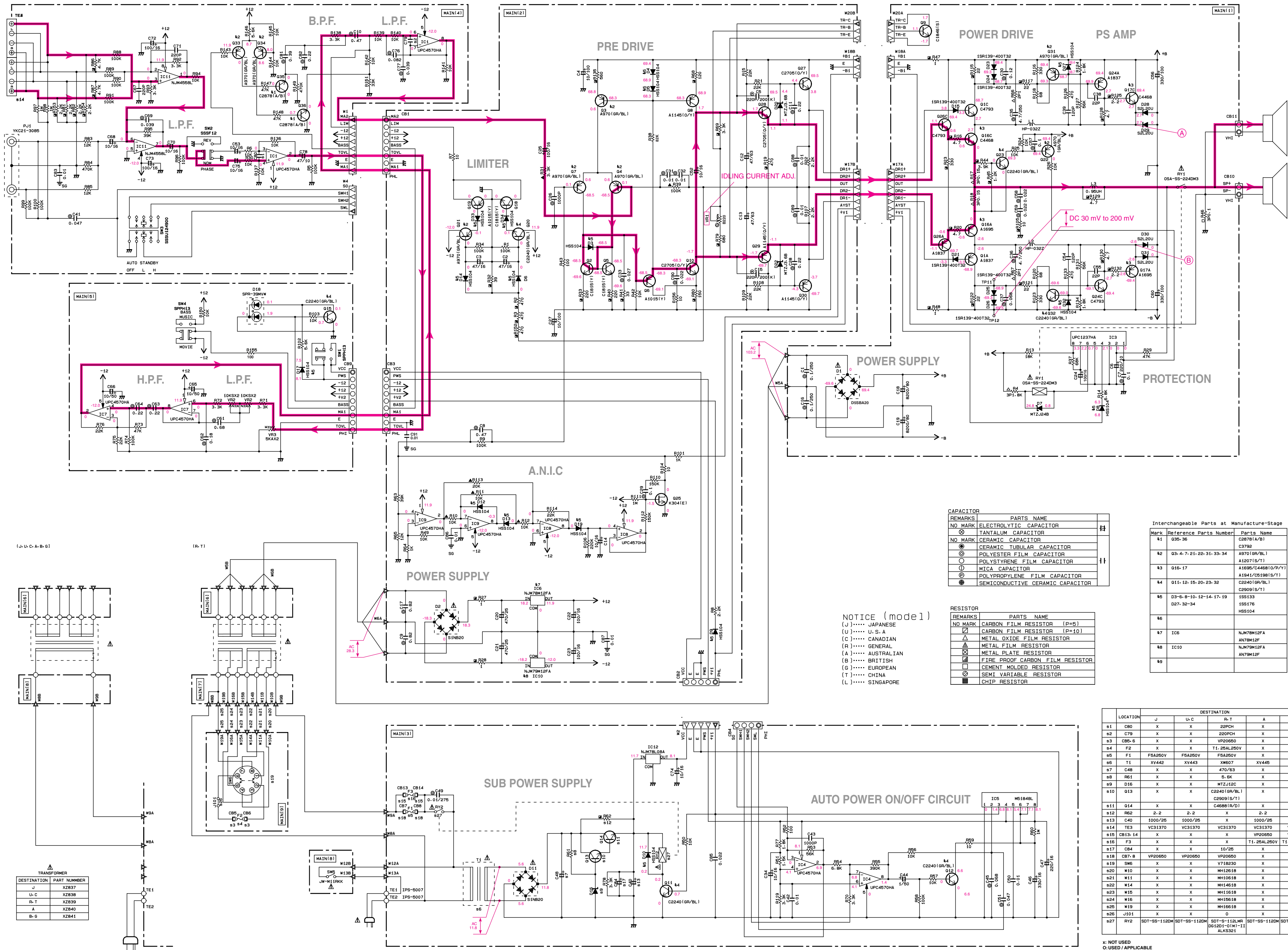
★ All voltage are measured with a 10M Ω DC electric volt meter.
★ Components having special characteristics are marked Δ , and must be replaced with parts having specifications equal to those originally installed.

● 電圧は、内部抵抗10M Ω の電圧計で測定したものです。
● Δ 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。

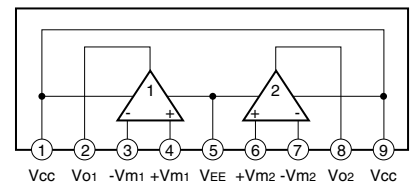
PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



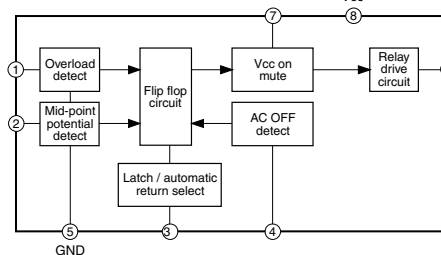
YST-SW205/305
SCHEMATIC DIAGRAM (YST-SW305)



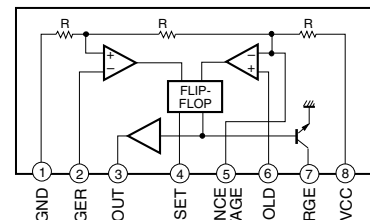
IC1, 4, 7-9: μ PC4570HA
Dual OP-Amp



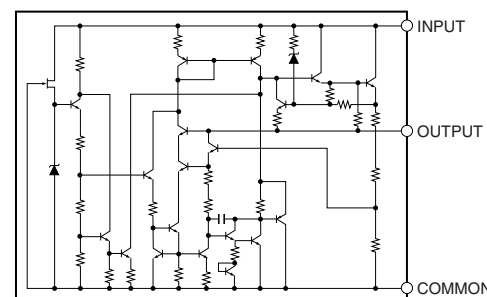
IC3: μ PC1237HA
Protector



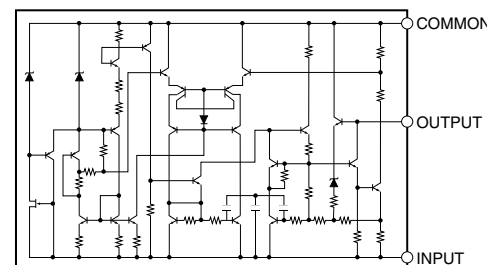
IC5: M51848L
CR Timer



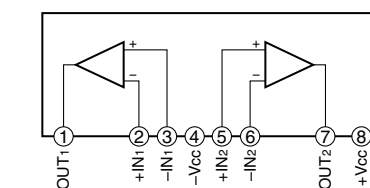
IC6: NJM78M12FA
Voltage Regulator



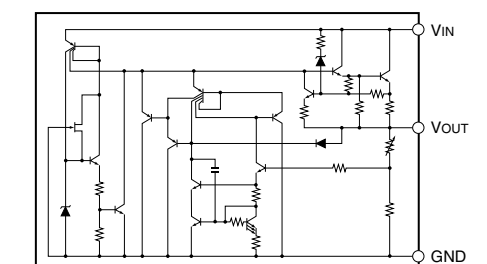
IC10: NJM79M12FA
Voltage Regulator



IC11: NJM4558L
Dual OP-Amp



IC12: NJM78L08A
Voltage Regulator



REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
NO MARK	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
NO MARK	CERAMIC TUBULAR CAPACITOR
NO MARK	POLYESTER FILM CAPACITOR
NO MARK	POLYSTYRENE FILM CAPACITOR
NO MARK	MICA CAPACITOR
NO MARK	POLYPROPYLENE FILM CAPACITOR
NO MARK	SEMICONDUCTIVE CAPACITOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
NO MARK	CARBON FILM RESISTOR (P=10)
NO MARK	METAL OXIDE FILM RESISTOR
NO MARK	METAL FILM RESISTOR
NO MARK	METAL PLATE RESISTOR
NO MARK	FIRE PROOF CARBON FILM RESISTOR
NO MARK	CEMENT MOLDED RESISTOR
NO MARK	SEMI VARIABLE RESISTOR
NO MARK	CHIP RESISTOR

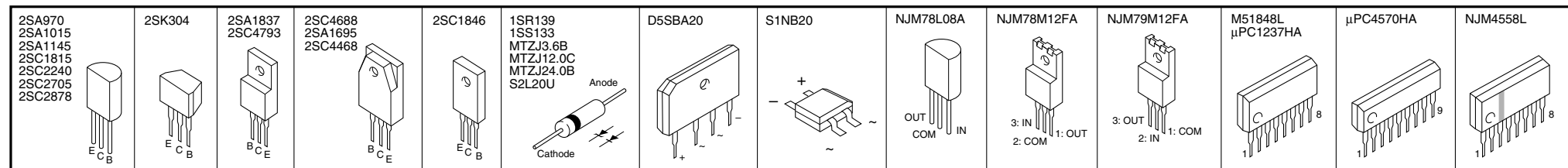
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
41	035-36	C2878(A/B)
42	03-4-7-21-22-31-33-34	A970 (GR/BL)
43	016-17	A1207 (S/T)
44	011-12-15-20-23-32	C2240 (GR/BL)
45	D3-6-8-10-12-14-17-19 D27-32-34	C2909 (S/T)
46		HSS104
47	IC6	NJM78M12FA
48	IC10	NJM79M12FA
49		AN79M12F

NOTICE (model)

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

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



- ★ All voltage are measured with a 10M Ω /V DC electric volt meter.
- ★ Components having special characteristics are marked Δ 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10M Ω の電圧計で測定したものです。
- Δ 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 $\triangle$ 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	: CHIP RESISTOR
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-END TUNER 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.

YST-SW205

Schm Ref.	PART NO.	Description		Markets
	V7098000	P.C.B.	MAIN	UC
	V7098100	P.C.B.	MAIN	RT
	V7098200	P.C.B.	MAIN	A
	V7098300	P.C.B.	MAIN	BG
CB1	VB858700	CN.BS.PIN	8P	RT
CB2	VB858400	CN.BS.PIN	5P	
CB3	VB858800	CN.BS.PIN	9P	
CB4	VB390000	CN.BS.PIN	4P	
CB5	VP206500	HOLDER.FUS	EYF-52BCT	RT
CB6	VP206500	HOLDER.FUS	EYF-52BCT	RT
CB7	VP206500	HOLDER.FUS	EYF-52BCT	UCRT
CB8	VP206500	HOLDER.FUS	EYF-52BCT	UCRT
CB9	VB390500	CN.BS.PIN	9P	ABG
CB10	LB932020	CN.BS.PIN	2P	
CB13	VP206500	HOLDER.FUS	EYF-52BCT	
CB14	VP206500	HOLDER.FUS	EYF-52BCT	
C1	V6887300	COVER.CAP	0.1uF ECQ-E2104KF	ABG
C2	UR837470	C.EL	47uF 16V	
C3	UR837470	C.EL	47uF 16V	
C4	UR897100	C.EL	10uF 100V	
C5	VK534000	C.PP	220pF 200V	
C6	UR828220	C.EL	220uF 10V	
C7	UA655100	C.MYLAR	0.1uF 50V	
C8	UA655470	C.MYLAR	0.47uF 50V	
C9	UA655820	C.MYLAR	0.82uF 50V	
C10	UA655470	C.MYLAR	0.47uF 50V	
C11	VE326400	C.MYLAR.ML	0.22uF 50V	
C12	UR877470	C.EL	47uF 63V	
C13	UR877470	C.EL	47uF 63V	
C14	UR837100	C.EL	10uF 16V	
C15	VK534000	C.PP	220pF 200V	
C16	V6887300	COVER.CAP	0.1uF ECQ-E2104KF	
C17	UA655820	C.MYLAR	0.82uF 50V	
C18	V7093500	C.EL	7500uF 70V	
C19	V7093500	C.EL	7500uF 70V	
C20	UR848470	C.EL	470uF 25V	
C21	UR848470	C.EL	470uF 25V	
C22	UR838100	C.EL	100uF 16V	
C23	UR838100	C.EL	100uF 16V	
C24	UM398100	C.EL	100uF 16V	
C25	UR838100	C.EL	100uF 16V	
C26	UA653100	C.MYLAR	1000pF 50V	
C27	UR897100	C.EL	10uF 100V	
C28	VE326400	C.MYLAR.ML	0.22uF 50V	
C29	UA655100	C.MYLAR	0.1uF 50V	
C30	UA655120	C.MYLAR	0.12uF 50V	
C31	UA654100	C.MYLAR	0.01uF 50V	
C32	UA654100	C.MYLAR	0.01uF 50V	
C33	UA654270	C.MYLAR	0.027uF 50V	
C34	UR837100	C.EL	10uF 16V	
C35	V5058000	C.MYLAR	4.7uF 250V	
C36	V5058000	C.MYLAR	4.7uF 250V	
C37	UA654680	C.MYLAR	0.068uF 50V	
C38	FG651220	C.CE	22pF 50V	
C39	FG652120	C.CE	120pF 50V	
C40	UR749100	C.EL	1000uF 25V	
C41	UA654470	C.MYLAR	0.047uF 50V	UCABG
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	

* New Parts

Schm Ref.	PART NO.	Description		Markets
C48	UR778470	C.EL	470uF 63V	RT
C49	VS741700	C.CE.SAFTY	0.01uF 275V	
C50	FG644100	C.CE	0.01uF 50V	
C51	UA654470	C.MYLAR	0.047uF 50V	
C52	UR837100	C.EL	10uF 16V	
C53	UR837100	C.EL	10uF 16V	
C54	FG652120	C.CE	120pF 50V	
C55	FG651220	C.CE	22pF 50V	
C56	UR798330	C.EL	330uF 100V	
C57	UA655100	C.MYLAR	0.1uF 50V	
C58	UA654220	C.MYLAR	0.022uF 50V	
C59	UA654220	C.MYLAR	0.022uF 50V	
C60	UR798330	C.EL	330uF 100V	
C61	VE327000	C.MYLAR.ML	0.68uF 50V	
C62	VE326300	C.MYLAR.ML	0.18uF 50V	
C63	VE326400	C.MYLAR.ML	0.22uF 50V	
C64	VE326400	C.MYLAR.ML	0.22uF 50V	
C65	UM417100	C.EL	10uF 50V	
C66	UM417100	C.EL	10uF 50V	
C67	FG612220	C.CE	220pF 50V	
C68	UR837100	C.EL	10uF 16V	
C69	UA654390	C.MYLAR	0.039uF 50V	
C70	UR837100	C.EL	10uF 16V	
C71	FG612220	C.CE	220pF 50V	
C72	UR838100	C.EL	100uF 16V	
C73	UR838100	C.EL	100uF 16V	
C74	UR837100	C.EL	10uF 16V	
C75	UR837100	C.EL	10uF 16V	
C76	UA654820	C.MYLAR	0.082uF 50V	RTBG
C77	UA654390	C.MYLAR	0.039uF 50V	
C78	UR827470	C.EL	47uF 10V	
C79	VA777700	C.CE	220pF 50V	
C80	VA761000	C.CE	22pF 50V	RTBG
C81	UA655390	C.MYLAR	0.39uF 50V	
C82	VE326400	C.MYLAR.ML	0.22uF 50V	
C83	FG644100	C.CE	0.01uF 50V	
C84	UR847100	C.EL	10uF 25V	RT
C85	FG644220	C.CE	0.022uF 50V	
C86	FG644100	C.CE	0.01uF 50V	
C87	FG644100	C.CE	0.01uF 50V	
C88	UA654100	C.MYLAR	0.01uF 50V	
C89	UA654100	C.MYLAR	0.01uF 50V	
C90	UA654220	C.MYLAR	0.022uF 50V	
C91	FG644100	C.CE	0.01uF 50V	
D1	VN011300	DIODE.BRG	D3SBA20 4A 200V	
D2	VR253700	DIODE.BRG	S1NB20 1.0A 200V	
D3	VD631600	DIODE	1SS133, 176	
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	
D14	VD631600	DIODE	1SS133, 176	
D15	VU264100	DIODE	1SR139-400	
D16	VG440300	DIODE.ZENR	MTZJ12C 12V	
D17	VD631600	DIODE	1SS133, 176	RT
D18	VS079300	LED	SPR-39MWV	
D19	VD631600	DIODE	1SS133, 176	

* New Parts

YST-SW205

Schm Ref.	PART NO.	Description	Markets
D20	VG436400	DIODE.ZENR	MTZJ3.6B 3.6V
D21	VU264100	DIODE	1SR139-400
D22	VG436400	DIODE.ZENR	MTZJ3.6B 3.6V
D23	VU264100	DIODE	1SR139-400
D24	VU264100	DIODE	1SR139-400
D25	VU264100	DIODE	1SR139-400
D26	VU264100	DIODE	1SR139-400
D27	VD631600	DIODE	1SS133,176
D29	VP779200	DIODE	S2L20U
D31	VP779200	DIODE	S2L20U
D32	VD631600	DIODE	1SS133,176
D33	VD631600	DIODE	1SS133,176
D34	VD631600	DIODE	1SS133,176
F1	V822800	FUSE	T3.15A 125V
F2	KB001770	FUSE	T1.0A 250V
F3	KB001770	FUSE	T1.0A 250V
IC1	XB247A00	IC	uPC4570HA
IC3	XF663A00	IC	uPC1237HA
IC4	XB247A00	IC	uPC4570HA
IC5	XP741A00	IC	M51848L
IC6	XJ602A00	IC	NJM78M12FA
IC7	XB247A00	IC	uPC4570HA
IC8	XB247A00	IC	uPC4570HA
IC9	XB247A00	IC	uPC4570HA
IC10	XD343A00	IC	NJM79M12FA
IC11	XM922A00	IC	NJM4558L
IC12	iG160100	IC	NJM78L08A 8V
L1	VV962000	COIL	HP032Z
L2	VV962000	COIL	HP032Z
L3	VU038200	COIL	0.95uH
PJ1	VT666100	JACK.PIN	2P
PN1	V3750100	PIN	L=50
PN2	V3750100	PIN	L=50
Q1A	iX632610	TR	2SA1837 0,Y
Q1C	iX632620	TR	2SC4793 0,Y
Q2	iC181510	TR	2SC1815 Y
Q3	iA097030	TR	2SA970 GR,BL
Q4	iA097030	TR	2SA970 GR,BL
Q5	iC181510	TR	2SC1815 Y
Q6	iA101510	TR	2SA1015 Y
Q7	iA097030	TR	2SA970 GR,BL
Q8	VE198700	TR	2SA1145 0,Y
Q9	VC398100	TR	2SC1846 S
Q10	VE198800	TR	2SC2705 0,Y
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
Q16A	iX633340	TR	2SA1695 0,P,Y
Q16C	iX633350	TR	2SC4468 0,P,Y
Q17A	iX633340	TR	2SA1695 0,P,Y
Q16C	iX633350	TR	2SC4468 0,P,Y
Q18	iC181510	TR	2SC1815 Y
Q19	iA101510	TR	2SA1015 Y
Q20	iC224030	TR	2SC2240 GR,BL
Q21	iA097030	TR	2SA970 GR,BL
Q22	iA097030	TR	2SA970 GR,BL
Q23	iC224030	TR	2SC2240 GR,BL
Q24A	iX632610	TR.PAIR	2SA1837 0,Y
Q24C	iX632620		2SC4793 0,Y
Q25	V3028000	FET	2SK304 E
Q26A	iX632610	TR.PAIR	2SA1837 0,Y

* New Parts

Schm Ref.	PART NO.	Description	Markets
Q26C	iX632620		2SC4793 0,Y
Q27	VE198800	TR	2SC2705 0,Y
Q28	VE198800	TR	2SC2705 0,Y
Q29	VE198700	TR	2SA1145 0,Y
Q30	VE198700	TR	2SA1145 0,Y
Q31	iA097030	TR	2SA970 GR,BL
Q32	iC224030	TR	2SC2240 GR,BL
Q33	iA097030	TR	2SA970 GR,BL
Q34	iA097030	TR	2SA970 GR,BL
Q35	iC287820	TR	2SC2878 A,B
Q36	iC287820	TR	2SC2878 A,B
R2	HV755470	R.CAR.FP	470Ω 1/4W
R3	HV755470	R.CAR.FP	470Ω 1/4W
R4	VC761800	R.MTL.OXD	1.5KΩ 2W
R10	HB027100	R.MTL.FLM	10KΩ 1/4W
R11	HB027100	R.MTL.FLM	10KΩ 1/4W
R12	HB027100	R.MTL.FLM	10KΩ 1/4W
R16	HV753470	R.CAR.FP	4.7Ω 1/4W
R17	VG730500	R.MTL.OXD	0.15Ω 3W
R18	VG730500	R.MTL.OXD	0.15Ω 3W
R19	HV755470	R.CAR.FP	470Ω 1/4W
R20	HV753470	R.CAR.FP	4.7Ω 1/4W
R23	HV755330	R.CAR.FP	330Ω 1/4W
R27	HV753100	R.CAR.FP	1Ω 1/4W
R28	HV753100	R.CAR.FP	1Ω 1/4W
R31	HB026330	R.MTL.FLM	3.3KΩ 1/4W
R32	HV754470	R.CAR.FP	47Ω 1/4W
R33	HV755220	R.CAR.FP	220Ω 1/4W
R39	HB028100	R.MTL.FLM	100KΩ 1/4W
R40	HV755220	R.CAR.FP	220Ω 1/4W
R41	HV754330	R.CAR.FP	33Ω 1/4W
R44	HV756390	R.CAR.FP	3.9KΩ 1/4W
R45	HV756120	R.CAR.FP	1.2KΩ 1/4W
R46	V6022600	R.WW	0.1Ω 3W
R47	HV753100	R.CAR.FP	1Ω 1/4W
R48	HV753100	R.CAR.FP	1Ω 1/4W
R62	HV753220	R.CAR.FP	2.2Ω 1/4W
R66	VC753800	R.MTL.OXD	1Ω 2W
R67	VC753800	R.MTL.OXD	1Ω 2W
R68	HV755120	R.CAR.FP	120Ω 1/4W
R69	HV756330	R.CAR.FP	3.3KΩ 1/4W
R79	HV755680	R.CAR.FP	680Ω 1/4W
R80	HV755150	R.CAR.FP	150Ω 1/4W
R81	HV756220	R.CAR.FP	2.2KΩ 1/4W
R82	HV756220	R.CAR.FP	2.2KΩ 1/4W
R86	HV756470	R.CAR.FP	4.7KΩ 1/4W
R87	HV756470	R.CAR.FP	4.7KΩ 1/4W
R105	HV754100	R.CAR.FP	10Ω 1/4W
R113	HB027200	R.MTL.FLM	20KΩ 1/4W
R115	HV754220	R.CAR.FP	22Ω 1/4W
R117	HV754220	R.CAR.FP	22Ω 1/4W
R121	HV754220	R.CAR.FP	22Ω 1/4W
R122	HV754220	R.CAR.FP	22Ω 1/4W
R125	HV753220	R.CAR.FP	2.2Ω 1/4W
R128	HV753470	R.CAR.FP	4.7Ω 1/4W
R129	HV753470	R.CAR.FP	4.7Ω 1/4W
R130	HV753470	R.CAR.FP	4.7Ω 1/4W
R132	HV753220	R.CAR.FP	2.2Ω 1/4W
R135	HV755560	R.CAR.FP	560Ω 1/4W
R152	HV755470	R.CAR.FP	470Ω 1/4W
R153	HV756220	R.CAR.FP	2.2KΩ 1/4W
R154	HV756220	R.CAR.FP	2.2KΩ 1/4W
RY1	VU161600	RELAY	DC 0SA-SS-224DM3

* New Parts

YST-SW205








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21

* New Parts

YST-SW305

Schm Ref.	PART NO.	Description	Markets
	V7097500	P.C.B.	MAIN
	V7097600	P.C.B.	MAIN
	V7097700	P.C.B.	MAIN
	V7097800	P.C.B.	MAIN
CB1	VB858700	CN.BS.PIN	8P
CB2	VB858400	CN.BS.PIN	5P
CB3	VB858800	CN.BS.PIN	9P
CB4	VB390000	CN.BS.PIN	4P
CB5	VP206500	HOLDER.FUS	EYF-52BCT
CB6	VP206500	HOLDER.FUS	EYF-52BCT
CB7	VP206500	HOLDER.FUS	EYF-52BCT
CB8	VP206500	HOLDER.FUS	EYF-52BCT
CB9	VB390500	CN.BS.PIN	9P
CB10	LB932020	CN.BS.PIN	2P
CB11	LB932020	CN.BS.PIN	2P
CB13	VP206500	HOLDER.FUS	EYF-52BCT
CB14	VP206500	HOLDER.FUS	EYF-52BCT
C1	V6887300	COVER.CAP	0.1uF ECQ-E2104KF
C2	UR837470	C.EL	47uF 16V
C3	UR837470	C.EL	47uF 16V
C4	UR897100	C.EL	10uF 100V
C5	VK534000	C.PP	220pF 200V
C6	UR828220	C.EL	220uF 10V
C7	UA655100	C.MYLAR	0.1uF 50V
C8	UA655470	C.MYLAR	0.47uF 50V
C9	UA655820	C.MYLAR	0.82uF 50V
C10	UA655470	C.MYLAR	0.47uF 50V
C11	VE326400	C.MYLAR.ML	0.22uF 50V
C12	UR877470	C.EL	47uF 63V
C13	UR877470	C.EL	47uF 63V
C14	UR837100	C.EL	10uF 16V
C15	VK534000	C.PP	220pF 200V
C16	V6887300	COVER.CAP	0.1uF ECQ-E2104KF
C17	UA655820	C.MYLAR	0.82uF 50V
C18	V6092500	C.EL	8200uF 80V
C19	V6092500	C.EL	8200uF 80V
C20	UR848470	C.EL	470uF 25V
C21	UR848470	C.EL	470uF 25V
C22	UR838100	C.EL	100uF 16V
C23	UR838100	C.EL	100uF 16V
C24	UM398100	C.EL	100uF 16V
C25	UR838100	C.EL	100uF 16V
C26	UA653100	C.MYLAR	1000pF 50V
C27	UR897100	C.EL	10uF 100V
C28	VE326400	C.MYLAR.ML	0.22uF 50V
C29	UA655100	C.MYLAR	0.1uF 50V
C30	UA655120	C.MYLAR	0.12uF 50V
C31	UA654100	C.MYLAR	0.01uF 50V
C32	UA654100	C.MYLAR	0.01uF 50V
C33	UA654270	C.MYLAR	0.027uF 50V
C34	UR837100	C.EL	10uF 16V
C35	V5058000	C.MYLAR	4.7uF 250V
C36	V5058000	C.MYLAR	4.7uF 250V
C37	UA654680	C.MYLAR	0.068uF 50V
C38	FG651220	C.CE	22pF 50V
C39	FG652120	C.CE	120pF 50V
C40	UR749100	C.EL	1000uF 25V
C41	UA654470	C.MYLAR	0.047uF 50V
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

* New Parts

Schm Ref.	PART NO.	Description	Markets
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
C52	UR837100	C.EL	10uF 16V
C53	UR837100	C.EL	10uF 16V
C54	FG652120	C.CE	120pF 50V
C55	FG651220	C.CE	22pF 50V
C56	UR798330	C.EL	330uF 100V
C57	UA655100	C.MYLAR	0.1uF 50V
C58	UA654220	C.MYLAR	0.022uF 50V
C59	UA654220	C.MYLAR	0.022uF 50V
C60	UR798330	C.EL	330uF 100V
C61	VE327000	C.MYLAR.ML	0.68uF 50V
C62	VE326300	C.MYLAR.ML	0.18uF 50V
C63	VE326400	C.MYLAR.ML	0.22uF 50V
C64	VE326400	C.MYLAR.ML	0.22uF 50V
C65	UM417100	C.EL	10uF 50V
C66	UM417100	C.EL	10uF 50V
C67	FG612220	C.CE	220pF 50V
C68	UR837100	C.EL	10uF 16V
C69	UA654390	C.MYLAR	0.039uF 50V
C70	UR837100	C.EL	10uF 16V
C71	FG612220	C.CE	220pF 50V
C72	UR838100	C.EL	100uF 16V
C73	UR838100	C.EL	100uF 16V
C74	UR837100	C.EL	10uF 16V
C75	UR837100	C.EL	10uF 16V
C76	UA654820	C.MYLAR	0.082uF 50V
C77	UA654390	C.MYLAR	0.039uF 50V
C78	UR827470	C.EL	47uF 10V
C79	VA777700	C.CE	220pF 50V
C80	VA761000	C.CE	22pF 50V
C81	UA655390	C.MYLAR	0.39uF 50V
C82	VE326400	C.MYLAR.ML	0.22uF 50V
C83	FG644100	C.CE	0.01uF 50V
C84	UR847100	C.EL	10uF 25V
C85	FG644220	C.CE	0.022uF 50V
C86	FG644100	C.CE	0.01uF 50V
C87	FG644100	C.CE	0.01uF 50V
C88	UA654100	C.MYLAR	0.01uF 50V
C89	UA654100	C.MYLAR	0.01uF 50V
C90	UA654220	C.MYLAR	0.022uF 50V
C91	FG644100	C.CE	0.01uF 50V
D1	VQ111400	DIODE.BRG	D5SBA20-4001 6.0A
D2	VR253700	DIODE.BRG	S1NB20 1.0A 200V
D3	VD631600	DIODE	1SS133,176
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
D14	VD631600	DIODE	1SS133,176
D15	VU264100	DIODE	1SR139-400
D16	VG440300	DIODE.ZENR	MTZJ12C 12V
D17	VD631600	DIODE	1SS133,176
D18	VS079300	LED	SPR-39MVW

* New Parts

YST-SW305

Schm Ref.	PART NO.	Description	Markets
D19	VD631600	DIODE	1SS133, 176
D20	VG436400	DIODE. ZENR	MTZJ3. 6B 3.6V
D21	VU264100	DIODE	1SR139-400
D22	VG436400	DIODE. ZENR	MTZJ3. 6B 3.6V
D23	VU264100	DIODE	1SR139-400
D24	VU264100	DIODE	1SR139-400
D25	VU264100	DIODE	1SR139-400
D26	VU264100	DIODE	1SR139-400
D27	VD631600	DIODE	1SS133, 176
D28	VP779200	DIODE	S2L20U
D29	VP779200	DIODE	S2L20U
D30	VP779200	DIODE	S2L20U
D31	VP779200	DIODE	S2L20U
D32	VD631600	DIODE	1SS133, 176
D33	VD631600	DIODE	1SS133, 176
D34	VD631600	DIODE	1SS133, 176
F1	VS823000	FUSE	T5. 0A 125V
F2	KB000680	FUSE	1. 25A 250V
F3	KB000680	FUSE	1. 25A 250V
IC1	XB247A00	IC	uPC4570HA
IC3	XF663A00	IC	uPC1237HA
IC4	XB247A00	IC	uPC4570HA
IC5	XP741A00	IC	M51848L
IC6	XJ602A00	IC	NJM78M12FA
IC7	XB247A00	IC	uPC4570HA
IC8	XB247A00	IC	uPC4570HA
IC9	XB247A00	IC	uPC4570HA
IC10	XD343A00	IC	NJM79M12FA
IC11	XM922A00	IC	NJM4558L
IC12	iG160100	IC	NJM78L08A 8V
L1	VV962000	COIL	HP032Z
L2	VV962000	COIL	HP032Z
L3	VU038200	COIL	0. 95uH
PJ1	VT666100	JACK. PIN	2P
PN1	V3750100	PIN	L=50
PN2	V3750100	PIN	L=50
Q1A	iX632610	TR. PAIR	2SA1837 0, Y
Q1C	iX632620	TR. PAIR	2SC4793 0, Y
Q2	iC181510	TR	2SC1815 Y
Q3	iA097030	TR	2SA970 GR, BL
Q4	iA097030	TR	2SA970 GR, BL
Q5	iC181510	TR	2SC1815 Y
Q6	iA101510	TR	2SA1015 Y
Q7	iA097030	TR	2SA970 GR, BL
Q8	VE198700	TR	2SA1145 0, Y
Q9	VC398100	TR	2SC1846 S
Q10	VE198800	TR	2SC2705 0, Y
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
Q16A	iX633340	TR. PAIR	2SA1695 0, P, Y
Q16C	iX633350	TR. PAIR	2SC4468 0, P, Y
Q17A	iX633340	TR. PAIR	2SA1695 0, P, Y
Q17C	iX633350	TR. PAIR	2SC4468 0, P, Y
Q18	iC181510	TR	2SC1815 Y
Q19	iA101510	TR	2SA1015 Y
Q20	iC224030	TR	2SC2240 GR, BL
Q21	iA097030	TR	2SA970 GR, BL
Q22	iA097030	TR	2SA970 GR, BL
Q23	iC224030	TR	2SC2240 GR, BL
Q24A	iX632610	TR. PAIR	2SA1837 0, Y

* New Parts

Schm Ref.	PART NO.	Description	Markets
Q24C	iX632620	TR. PAIR	2SC4793 0, Y
Q25	V3028000	FET	2SK304 E
Q26A	iX632610	TR. PAIR	2SA1837 0, Y
Q26C	iX632620	TR. PAIR	2SC4793 0, Y
Q27	VE198800	TR	2SC2705 0, Y
Q28	VE198800	TR	2SC2705 0, Y
Q29	VE198700	TR	2SA1145 0, Y
Q30	VE198700	TR	2SA1145 0, Y
Q31	iA097030	TR	2SA970 GR, BL
Q32	iC224030	TR	2SC2240 GR, BL
Q33	iA097030	TR	2SA970 GR, BL
Q34	iA097030	TR	2SA970 GR, BL
Q35	iC287820	TR	2SC2878 A, B
Q36	iC287820	TR	2SC2878 A, B
R2	HV755470	R. CAR. FP	470Ω 1/4W
R3	HV755470	R. CAR. FP	470Ω 1/4W
R4	V7093700	R. MTL. OXD	1. 8KΩ 3W
R10	HB027100	R. MTL. FLM	10KΩ 1/4W
R11	HB027100	R. MTL. FLM	10KΩ 1/4W
R12	HB027100	R. MTL. FLM	10KΩ 1/4W
R16	HV753470	R. CAR. FP	4. 7Ω 1/4W
R17	VG730500	R. MTL. OXD	0. 15Ω 3W
R18	VG730500	R. MTL. OXD	0. 15Ω 3W
R19	HV755470	R. CAR. FP	470Ω 1/4W
R20	HV753470	R. CAR. FP	4. 7Ω 1/4W
R23	HV755330	R. CAR. FP	330Ω 1/4W
R27	HV753100	R. CAR. FP	1Ω 1/4W
R28	HV753100	R. CAR. FP	1Ω 1/4W
R31	HB026330	R. MTL. FLM	3. 3KΩ 1/4W
R32	HV754390	R. CAR. FP	39Ω 1/4W
R33	HV755220	R. CAR. FP	220Ω 1/4W
R39	HB028100	R. MTL. FLM	100KΩ 1/4W
R40	HV755220	R. CAR. FP	220Ω 1/4W
R41	HV754330	R. CAR. FP	33Ω 1/4W
R44	HV756390	R. CAR. FP	3. 9KΩ 1/4W
R45	HV756120	R. CAR. FP	1. 2KΩ 1/4W
R46	V6022600	R. WW	0. 1Ω 3W
R47	HV753100	R. CAR. FP	1Ω 1/4W
R48	HV753100	R. CAR. FP	1Ω 1/4W
R62	HV753220	R. CAR. FP	2. 2Ω 1/4W
R66	VC753800	R. MTL. OXD	1Ω 2W
R67	VC753800	R. MTL. OXD	1Ω 2W
R68	HV755120	R. CAR. FP	120Ω 1/4W
R69	HV756330	R. CAR. FP	3. 3KΩ 1/4W
R79	HV755680	R. CAR. FP	680Ω 1/4W
R80	HV755150	R. CAR. FP	150Ω 1/4W
R81	HV756220	R. CAR. FP	2. 2KΩ 1/4W
R82	HV756220	R. CAR. FP	2. 2KΩ 1/4W
R86	HV756470	R. CAR. FP	4. 7KΩ 1/4W
R87	HV756470	R. CAR. FP	4. 7KΩ 1/4W
R105	HV754100	R. CAR. FP	10Ω 1/4W
R113	HB027200	R. MTL. FLM	20KΩ 1/4W
R115	HV754220	R. CAR. FP	22Ω 1/4W
R117	HV754220	R. CAR. FP	22Ω 1/4W
R121	HV754220	R. CAR. FP	22Ω 1/4W
R122	HV754220	R. CAR. FP	22Ω 1/4W
R125	HV753220	R. CAR. FP	2. 2Ω 1/4W
R128	HV753470	R. CAR. FP	4. 7Ω 1/4W
R129	HV753470	R. CAR. FP	4. 7Ω 1/4W
R130	HV753470	R. CAR. FP	4. 7Ω 1/4W
R132	HV753220	R. CAR. FP	2. 2Ω 1/4W
R135	HV755560	R. CAR. FP	560Ω 1/4W
R152	HV755470	R. CAR. FP	470Ω 1/4W

* New Parts

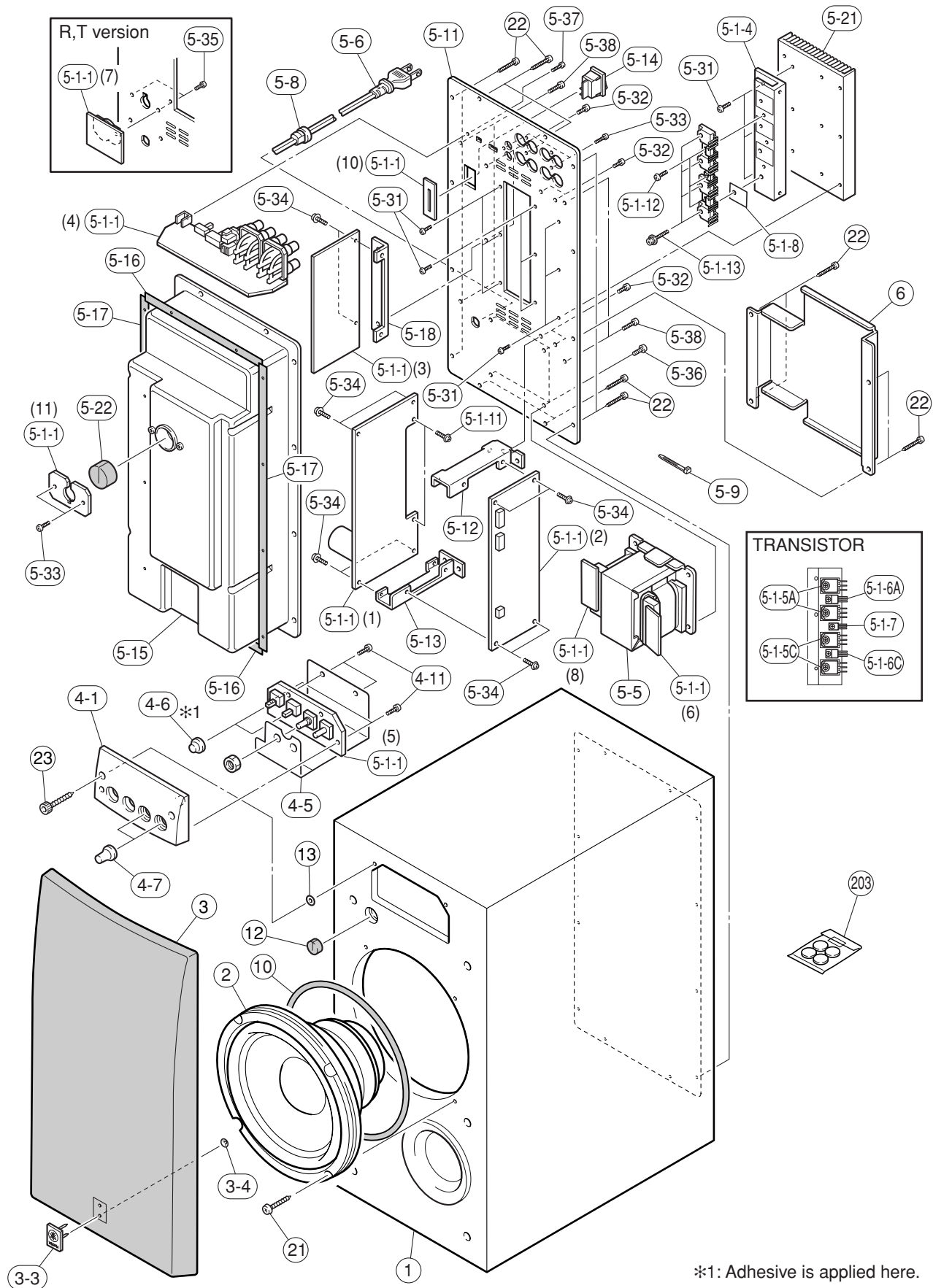
Schm Ref.	PART NO.	Description		Markets

* New Parts

YST-SW205/305

YST-SW205

EXPLODED VIEW



YST-SW205

MECHANICAL PARTS

Ref. No.	PART NO.	Description	Remarks	Markets
* 1	V7317500	CABINET ASS'Y	BL	
* 1	V7317600	CABINET ASS'Y	CH	
2	XZ951A00	LOUD SPEAKER JA2165	20cm 6Ω	
* 3	V7317900	FRONT GRILLE ASS'Y	BL	
* 3	V7318000	FRONT GRILLE ASS'Y	CH	
3-3	V2192200	EMBLEM	YAMAHA	
3-4	VP161000	PUSH NUT	SPN1.5	
* 4-1	V7108100	FRONT PANEL	BL	
* 4-1	V7108300	FRONT PANEL	CH	
* 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	
* 5-1-1	V7098000	P.C.B. ASS'Y	MAIN	UC
* 5-1-1	V7098100	P.C.B. ASS'Y	MAIN	RT
* 5-1-1	V7098200	P.C.B. ASS'Y	MAIN	A
* 5-1-1	V7098300	P.C.B. ASS'Y	MAIN	BG
* 5-1-4	V6965700	RADIATOR		
# 5-1-5A	iX633340	TRANSISTOR	2SA1695 0,P,Y	Q16A,Q17A
# 5-1-5C	iX633350	TRANSISTOR	2SC4468 0,P,Y	Q16C,Q17C
# 5-1-6A	iX632610	TRANSISTOR	2SA1837 0,Y	Q1A
# 5-1-6C	iX632620	TRANSISTOR	2SC4793 0,Y	Q1C
# 5-1-7	VC398100	TRANSISTOR	2SC1846 S	Q9
5-1-8	VK195900	SHEET	19x24	
5-1-11	VT669300	PW HEAD B-TITE SCREW	3x8-8 MFC2	
5-1-12	EP600190	BIND HEAD B-TITE SCREW	3x8 ZMC2-BL	
5-1-13	VK173200	SCREW, TRANSISTOR	3x15 SP FCM3	
* 5-5	XZ843A00	POWER TRANSFORMER		UC
* 5-5	XZ844A00	POWER TRANSFORMER		RT
* 5-5	XZ845A00	POWER TRANSFORMER		A
* 5-5	XZ846A00	POWER TRANSFORMER		BG
5-6	V2689600	POWER CORD	10A SPT-2 2m 1pc	UC
5-6	V6792800	POWER CORD	7.5A 2m 1pc	FA-03B
5-6	V6893100	POWER CORD	2.5A 250V 2m 1pc	A
5-6	V6977100	POWER CORD	6A 2m 1pc	B
5-6	VZ555600	POWER CORD	10A 250V 2m 1pc	RT
5-8	CB072750	CORD STOPPER	SR-4N-4	
5-9	CB069250	BINDING TIE	BK-1	
* 5-11	V7089300	REAR PANEL		UC
* 5-11	V7089400	REAR PANEL		RT
* 5-11	V7089500	REAR PANEL		A
* 5-11	V7089600	REAR PANEL		BG
* 5-12	V6965500	PLATE A		
* 5-13	V6965600	PLATE		
5-14	V5520700	ROCKER SWITCH	JW-M11RKK UCS TV-5	
* 5-15	V6964900	COVER		
* 5-16	V7324400	PACKING		
* 5-17	V7324500	PACKING		
* 5-18	V5986900	PLATE		
* 5-21	V7089700	HEAT SINK		
* 5-22	V7324600	BUSH		

* New Parts

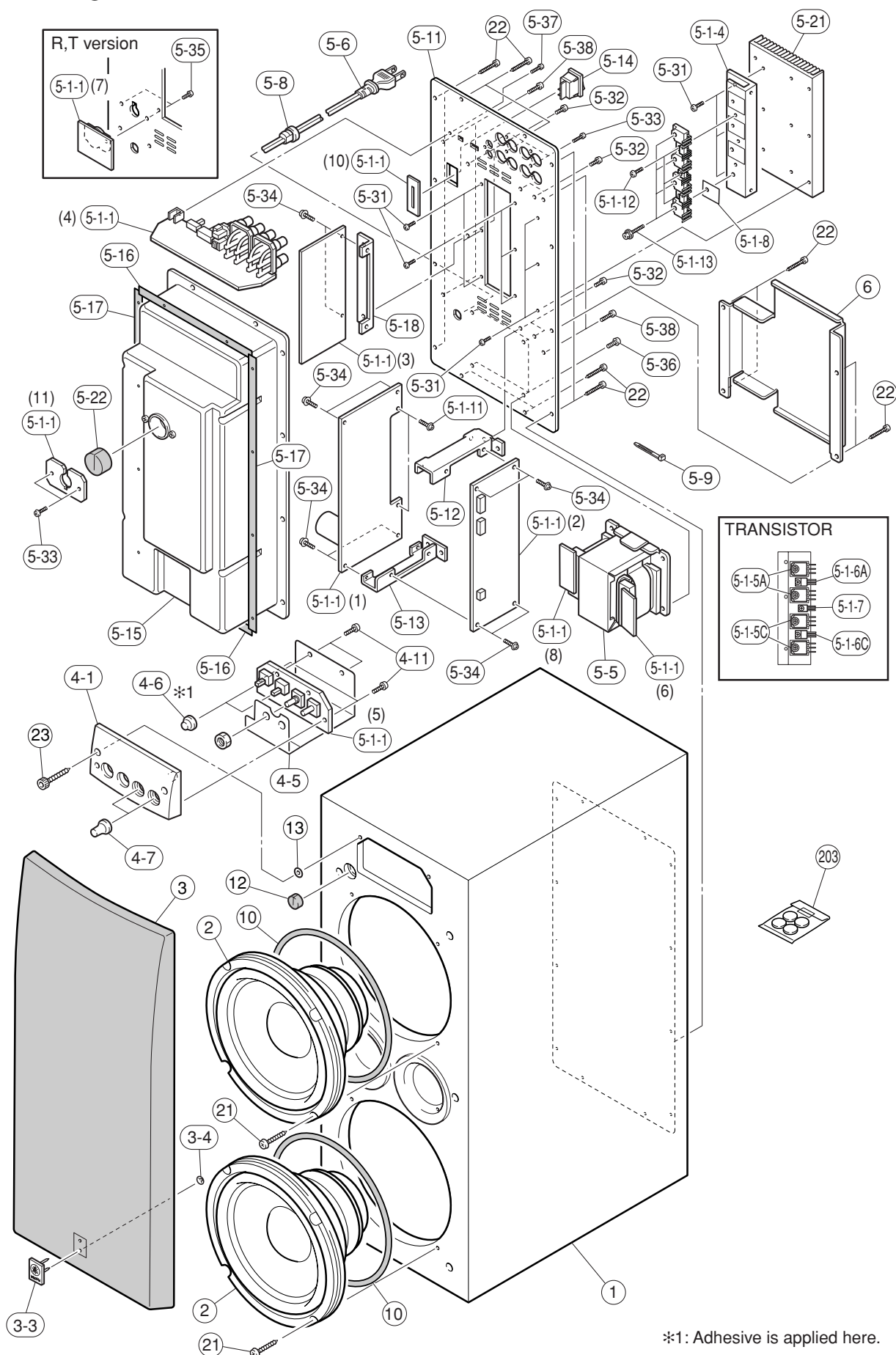
YST-SW205

Ref. No.	PART NO.	Description			Remarks	Markets
* 5-31	EP600140	BIND HEAD B-TITE SCREW	3x10	MFZN2-BL		
* 5-32	EG340190	BIND HEAD B-TITE SCREW	4x8	MFZN2-BL		
* 5-33	EP630660	BIND HEAD P-TITE SCREW	3x10	MFZN2-BL		
* 5-34	VT669300	PW HEAD B-TITE SCREW	3x8-8	MFC2		
* 5-35	VA295800	BIND HEAD SCREW	3x8	ZMC2-BL		RT
* 5-36	V6655200	BIND HEAD S-TITE SCREW	4x8	MFZN2BL		
* 5-37	VC082800	BIND HEAD BONDING SCREW	3x6	FCRM3-BL		
* 5-38	VA847600	BIND HEAD P-TITE SCREW	4x12	MFZN2-BL		
* 6	V7641000	REAR COVER				
10	V5984800	PACKING				
* 12	V5984900	BUSH, B				
* 13	V7799500	SPACER				
21	EP040070	BIND HEAD TAPPING SCREW	4x20	ZMC2-BL		
22	VF573000	BIND HEAD TAPPING SCREW	4x25	ZMC2-BL		
23	V5537800	HEXAGON SOCKET TAPPING SCREW	4x20	MFZN2BL	BL	
23	V7275700	HEXAGON SOCKET TAPPING SCREW	4x20	MFNI33	CH	
203	V5982400	ACCESSORIES NON SKID PAD	4pcs/set			

* New Parts

YST-SW305

EXPLODED VIEW



MECHANICAL PARTS

Ref. No.	PART NO.	Description	Remarks	Markets
* 1	V7317300	CABINET ASS'Y	BL	
* 1	V7317400	CABINET ASS'Y	CH	
* 2	XZ962A00	LOUD SPEAKER JA2167	20cm 12Ω	
* 3	V7317700	FRONT GRILLE ASS'Y	BL	
* 3	V7317800	FRONT GRILLE ASS'Y	CH	
3-3	V2192200	EMBLEM	YAMAHA	
3-4	VP161000	PUSH NUT	SPN1.5	
* 4-1	V6963900	FRONT PANEL	BL	
* 4-1	V6964100	FRONT PANEL	CH	
* 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	
* 5-1-1	V7097500	P.C.B. ASS'Y	MAIN	UC
* 5-1-1	V7097600	P.C.B. ASS'Y	MAIN	RT
* 5-1-1	V7097700	P.C.B. ASS'Y	MAIN	A
* 5-1-1	V7097800	P.C.B. ASS'Y	MAIN	BG
* 5-1-4	V6965700	RADIATOR		
# 5-1-5A	iX633340	TRANSISTOR	2SA1695 0,P,Y	Q16A,Q17A
# 5-1-5C	iX633350	TRANSISTOR	2SC4468 0,P,Y	Q16C,Q17C
# 5-1-6A	iX632610	TRANSISTOR	2SA1837 0,Y	Q1A
# 5-1-6C	iX632620	TRANSISTOR	2SC4793 0,Y	Q1C
# 5-1-7	VC398100	TRANSISTOR	2SC1846 S	Q9
5-1-8	VK195900	SHEET	19x24	
5-1-11	VT669300	PW HEAD B-TITE SCREW	3x8-8 MFC2	
5-1-12	EP600190	BIND HEAD B-TITE SCREW	3x8 ZMC2-BL	
5-1-13	VK173200	SCREW, TRANSISTOR	3x15 SP FCM3	
* 5-5	XZ838A00	POWER TRANSFORMER		UC
* 5-5	XZ839A00	POWER TRANSFORMER		RT
* 5-5	XZ840A00	POWER TRANSFORMER		A
* 5-5	XZ841A00	POWER TRANSFORMER		BG
5-6	V2689600	POWER CORD	10A SPT-2 2m	UC
5-6	VZ555600	POWER CORD	10A 250V 2m	RT
* 5-6	V6792800	POWER CORD	7.5A 2m	A
* 5-6	V6977100	POWER CORD	6A 2m	B
* 5-6	V6893100	POWER CORD	2.5A 250V 2m	G
5-8	CB072750	CORD STOPPER	SR-4N-4	
5-9	CB069250	BINDING TIE	BK-1	
* 5-11	V6965100	REAR PANEL		UC
* 5-11	V6965200	REAR PANEL		RT
* 5-11	V6965300	REAR PANEL		A
* 5-11	V6965400	REAR PANEL		BG
* 5-12	V6965500	PLATE A		
* 5-13	V6965600	PLATE		
5-14	V5520700	ROCKER SWITCH	JW-M11RKK UCS TV-5	
* 5-15	V6964900	COVER		
* 5-16	V7324400	PACKING		
* 5-17	V7324500	PACKING		
* 5-18	V5986900	PLATE		
* 5-21	V7089700	HEAT SINK		
* 5-22	V7324600	BUSH		

* New Parts

YST-SW305

Ref. No.	PART NO.	Description			Remarks	Markets
* 5-31	EP600140	BIND HEAD B-TITE SCREW	3x10	MFZN2-BL		
* 5-32	EG340190	BIND HEAD B-TITE SCREW	4x8	MFZN2-BL		
* 5-33	EP630660	BIND HEAD P-TITE SCREW	3x10	MFZN2-BL		
* 5-34	VT669300	PW HEAD B-TITE SCREW	3x8-8	MFC2		
* 5-35	VA295800	BIND HEAD SCREW	3x8	ZMC2-BL		RT
* 5-36	V6655200	BIND HEAD S-TITE SCREW	4x8	MFZN2BL		
* 5-37	VC082800	BIND HEAD BONDING SCREW	3x6	FCRM3-BL		
* 5-38	VA847600	BIND HEAD P-TITE SCREW	4x12	MFZN2-BL		
* 6	V7641000	REAR COVER				
* 10	V5984800	PACKING				
* 12	V5984900	BUSH, B				
* 13	V7799500	SPACER				
21	EP040070	BIND HEAD TAPPING SCREW	4x20	ZMC2-BL		
22	VF573000	BIND HEAD TAPPING SCREW	4x25	ZMC2-BL		
23	V5537800	HEXAGON SOCKET TAPPING SCREW	4x20	MFZN2BL	BL	
* 23	V7275700	HEXAGON SOCKET TAPPING SCREW	4x20	MFNI33	CH	
203	V5982400	ACCESSORIES NON SKID PAD	4pcs/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			

