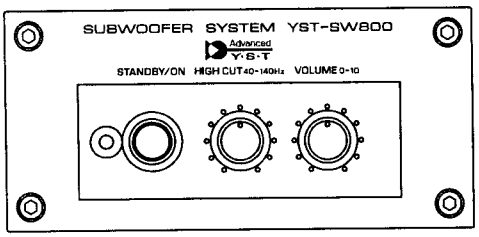
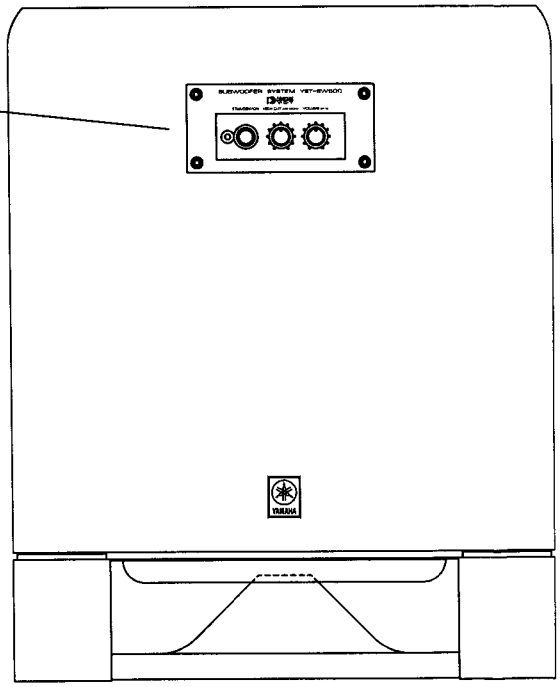
YST-SW800

SUBWOOFER SYSTEM

YST-SW800

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.

■ CONTENTS

100721

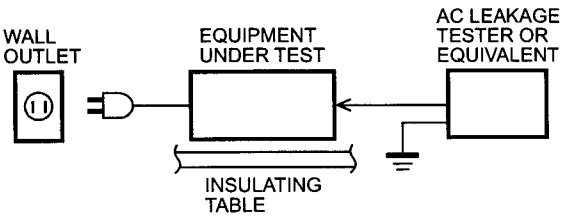
YAMAHA
YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan

YST-SW800

■ TO SERVICE PERSONNEL

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

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



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

WARNING: CHEMICAL CONTENT NOTICE!

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

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

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

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

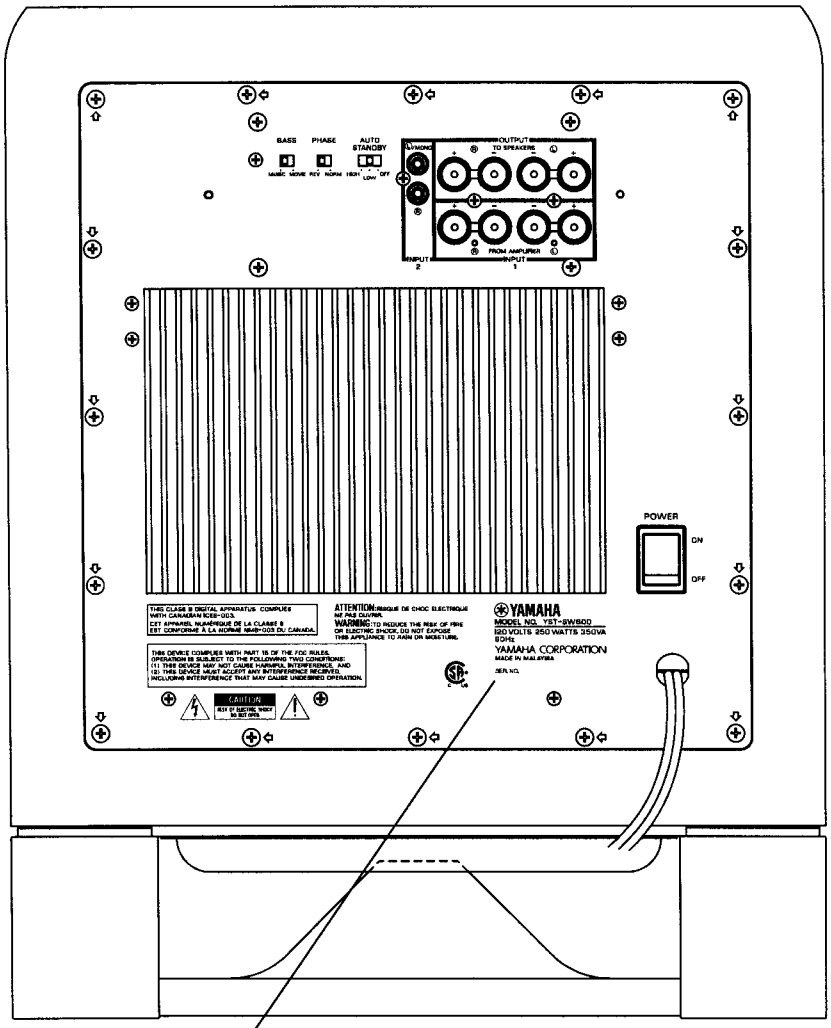
■ SPECIFICATIONS

Type	Advanced Yamaha Active Servo Technology
Driver	25 cm (9-13/16") cone woofer (JA25610) Magnetically shielded type
Amplifier Output	
U, C models	1kW
A, B, G models	800W/6Ω
Input Impedance	
INPUT1 (SP)	4.7kΩ
INPUT2 (PJ)	12kΩ
Frequency Response	18 Hz to 160 Hz (-10 dB)
Power Supply	
U, C models	AC120V, 60 Hz
A model	AC240V, 50 Hz
B, G models	AC230V, 50 Hz
Power Consumption	250W
Dimensions (W x H x D)	390 x 482 x 420 mm (15-3/8" x 19" x 16-9/16")
Weight	24 kg (52 lbs. 14 oz)
Finish	
All model	Black color
G model	Cherry color
Accessories	Nonskid pad x 4

* *Specifications subject to change without notice.*

U ..... ***USA model***
C ..... ***Canadian model***
A ..... ***Australian model***
B ..... ***British model***
G ..... ***European model***

■ REAR PANEL



▼ U, C models

YAMAHA
MODEL NO. YST-SW800
120 VOLTS 250 WATTS 350VA
60Hz
YAMAHA CORPORATION
MADE IN MALAYSIA
SER. NO.

▼ A model

YAMAHA
MODEL NO. YST-SW800
240 VOLTS 250 WATTS
50Hz
YAMAHA CORPORATION
MADE IN MALAYSIA
SER. NO.

N89

▼ B, G models

YAMAHA
MODEL NO. YST-SW800
230 VOLTS 250 WATTS
50Hz
YAMAHA CORPORATION
MADE IN MALAYSIA
SER. NO.

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■ DISASSEMBLY PROCEDURES

(Remove parts in the order as numbered.)

1. Removal of Front Panel Ass'y

Remove 4 screws (①) and then remove the Front Panel Ass'y in Fig. 1.

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

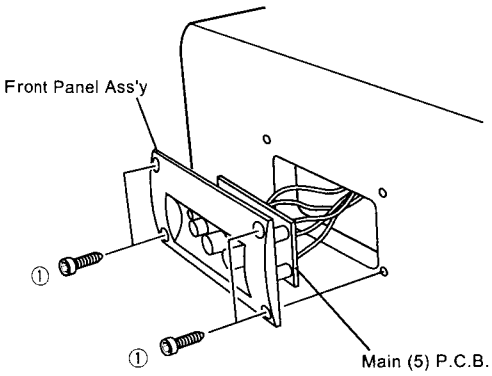


Fig. 1

2. Removal of Loud Speaker

a. Remove 8 screws (②) and then remove the Base Ass'y in Fig. 2.

b. Remove 8 screws (③) and then remove the Loud Speaker in Fig. 2.

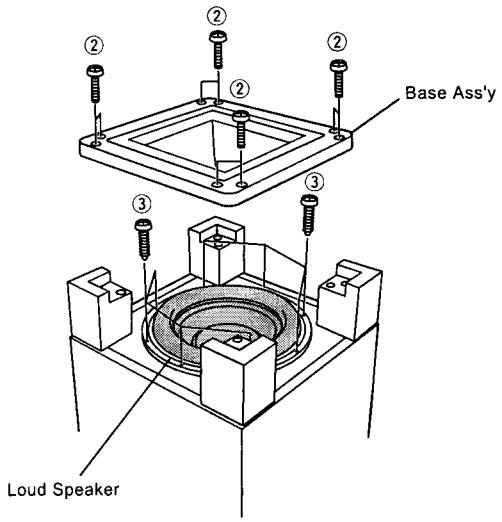


Fig. 2

3. Removal of Rear Panel Ass'y

Remove 16 screws (④) in Fig. 3.

* **Arrow marks (⇦) are printed to identify the screws to be removed.**

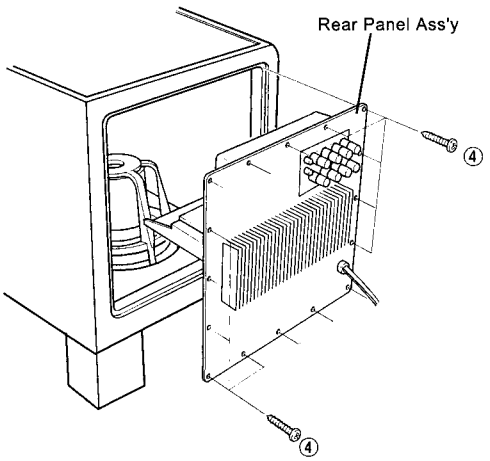


Fig. 3

* **When assembling the Rear Panel, check to ensure that the gasket is not damaged so as to prevent air leakage from occurring.**

● Installation of emblem

1. Put the emblem into the cabinet at the specified position.
2. Place a piece of cloth/wood on top of the emblem.
3. Using a mallet, hammer the emblem in place through the cloth/wood.

* **Use special care not to cause damage to the emblem or cabinet while hammering the emblem.**

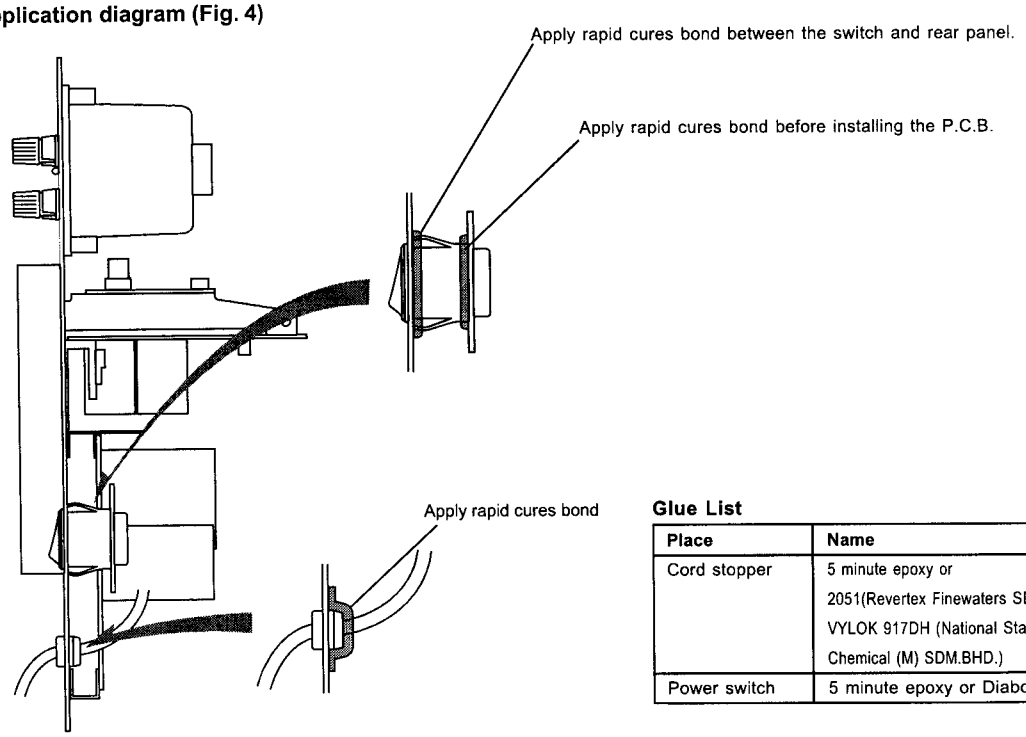
● Installation of power switch

Rapid cures bond (such as 5 minute epoxy) is required to fix the power switch.
As shown in Fig. 4, apply rapid cures bond (such as 5 minute 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 minute epoxy) to the cord stopper as shown in Fig. 4,

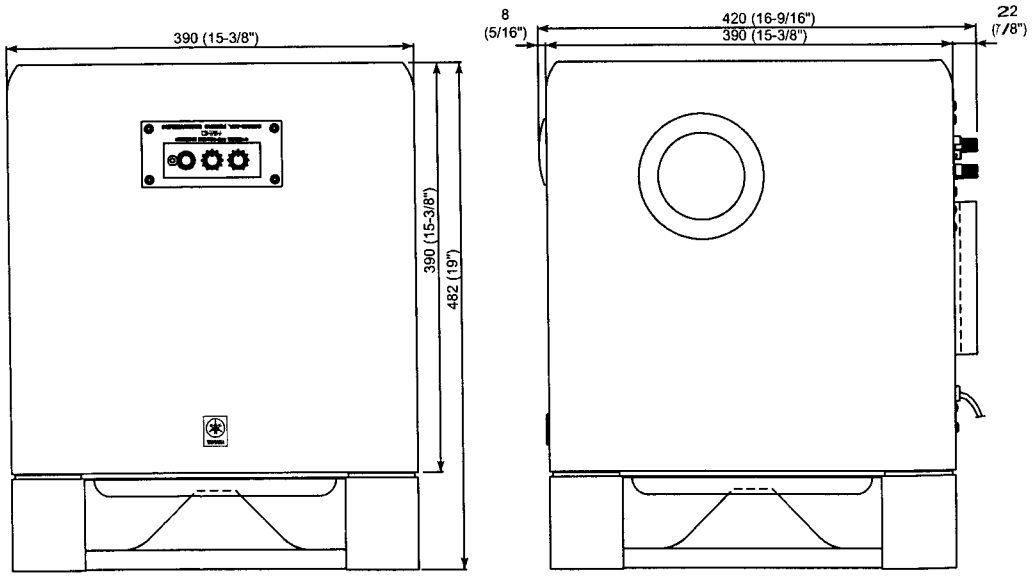
Bond application diagram (Fig. 4)



Glue List

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

● Dimensions



Units : mm (inch)

■ REPAIR PROCEDURES

It is recommended to disconnect the SW power supply section and the power amplifier because it is highly possible that the SW power supply section has also broken down due to the overload caused by breakdown in the power amplifier.

Repair Procedure

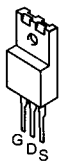
1) Remove CB201, CB202 and CB205. (Power (1) P.C.B.)
Then the power supply circuit and the power amplifier circuit will be disconnected.

2) Repair the power amplifier as described below. (Main (1) P.C.B.)
Replace the defective parts.
Whether the major parts are defective or not can be checked as follows.

Remove 3 screws fixing the heat sink to the rear panel and 4 screws fixing the support P.C.B. to the rear panel.

FET (Q16~19, Q22~24): Measure the resistance value between GATE and SOURCE to determine whether a failure exists or not.
If the measured resistance value is close to 0Ω, a failure exists.
If the measured resistance value is close to the value of the resistor connected between GATE and SOURCE, no failure exists.

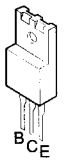
FET



Remove 3 screws fixing the Main (1) P.C.B. to the support P.C.B.

TR (Q1~4): Check DIODE characteristics between BASE and EMITTER or between BASE and COLLECTOR to determine whether a failure exists or not.

TR



Check the operation as follows.

a. Prepare a stabilized DC power source equipped with +30V and -30V outputs.
b. Connect +B, -B and GND output terminals of the stabilized power source to +B, -B and GND lines of the power amplifier.
c. Connect the terminal of the oscilloscope to the circuit between ① in the figure and GND.
d. Remove CB1. (Main (2) P.C.B.)
e. Connect the output of the signal generator to the circuit between the lead on the (-) side of C1 and GND.
f. Set the frequency of the signal generator to the 100Hz sine wave and the output level to the minimum level.
g. Turn on the stabilized DC power source.
h. Raise the output level of the signal generator gradually and check the output waveform on the oscilloscope.
i. If nothing abnormal is found with the waveform until the output level reaches 40Vp-p, the check result is OK.

After operation check
Connect CB1.

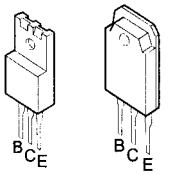
3) Repair the SW power supply section as follows. (Power (1) P.C.B.)
Follow the instruction described below to avoid any danger.
High voltage maintained in C209 and C210 even after the power is turned off is dangerous. It is necessary to force this electric charge to be discharged before starting the repair work.
For such forced discharge, connect a resistance of approximately 100Ω/5W to each of both terminals of the capacitor. Then check to make sure that the voltage between the capacitor terminals is 0V.

Replace the defective parts.
Whether the major parts are defective or not can be checked as follows.

TR (Q202~205): It is highly possible that a failure occurs due to a short between COLLECTOR and EMITTER.

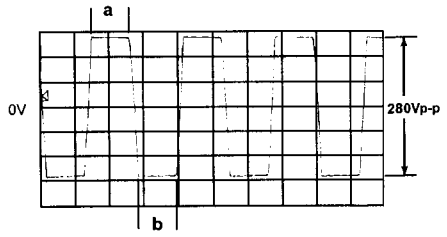
R216, R217: It is highly possible that a failure occurs due to an open circuit.

TR



Check the operation and make adjustment as follows.

a. Connect CB205.
b. Connect the probe of the oscilloscope between TP201 and TP202.
c. Turn on the power switch and the STANDBY/ON switch on the front panel.
d. Check the waveform on the oscilloscope and adjust VR201 so that a = b is obtained.
   Permissible range: a/b = 1.0 ± 0.1



V : 50V/div H : 10 µsec/div
AC range 1 : 1 probe

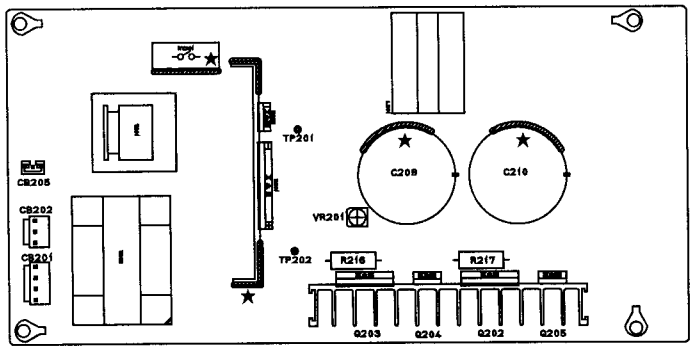
CAUTION

Electric potential is always applied to the ground side of the oscilloscope.
Be careful so that no other part comes in contact with it.

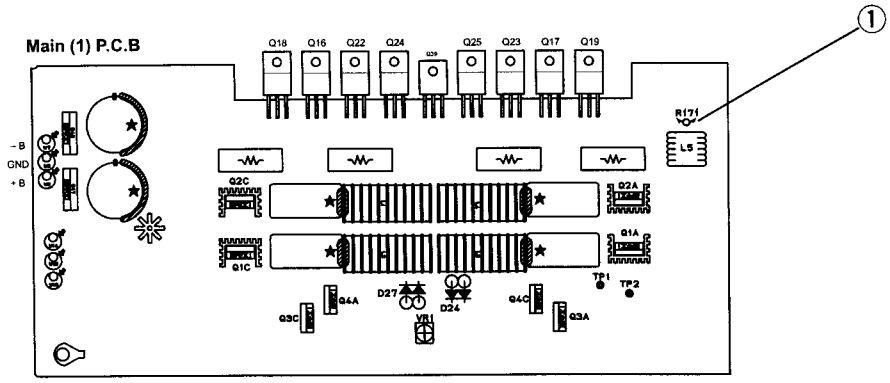
Caution for operation check of the SW power supply section and the power amplifier

As a high voltage is applied to the SW power supply section and the power amplifier, be careful not to receive an electric shock.

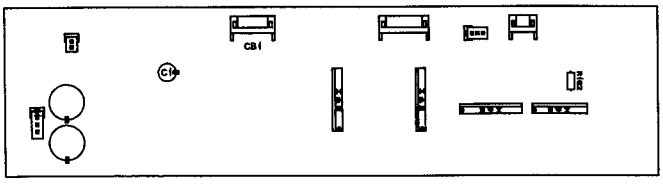
Power (1) P.C.B



Main (1) P.C.B



Main (2) P.C.B



■ 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 A and B in the schematic diagram according to the following procedure.

Devices required

Signal generator (100Hz sine wave)
8Ω or 6Ω load resistor
Oscilloscope (dual trace type)

Connection

1) Connect the output signal from the signal generator to the input terminal of YST-SW800.
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

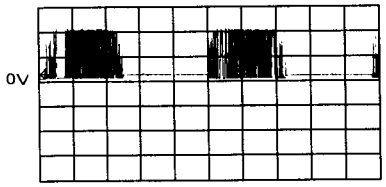
1) Set the signal generator to the sine wave, 100Hz and minimum output level settings.
2) Set the volume of YST-SW800 to the minimum position.
3) Turn on the power to YST-SW800.
4) Adjust the output level of the signal generator and the volume of YST-SW800 so that the output level observed at oscilloscope CH2 is 70Vp-p.

Waveform observation

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

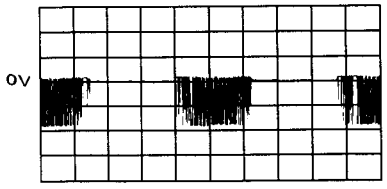
Normal

Point A (Cathode of D27)
V : 50V/div H : 2 msec/div
DC range 1 : 1 probe



Abnormal
+B or GND level
Becomes constant

Point B (Anode of D24)
V : 50V/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 1 or 2 minutes in non loaded condition before the adjustment.
Adjust VR1 so that the voltage between terminals TP1 and TP2 is DC 50mV to 250mV.

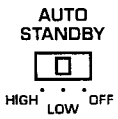
● Confirmation of AUTO STANDBY operation

Setting

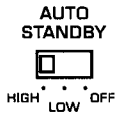
1) Turn off the power switch.
2) In order to shorten the time required for operation check; connect a 10kΩ resistor at both ends of R162 on the MAIN (2) P.C.B.
3) Connect the output signal from the signal generator to the L/MONO terminal of YST-SW800.
4) Set the signal generator for the sine wave of 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.



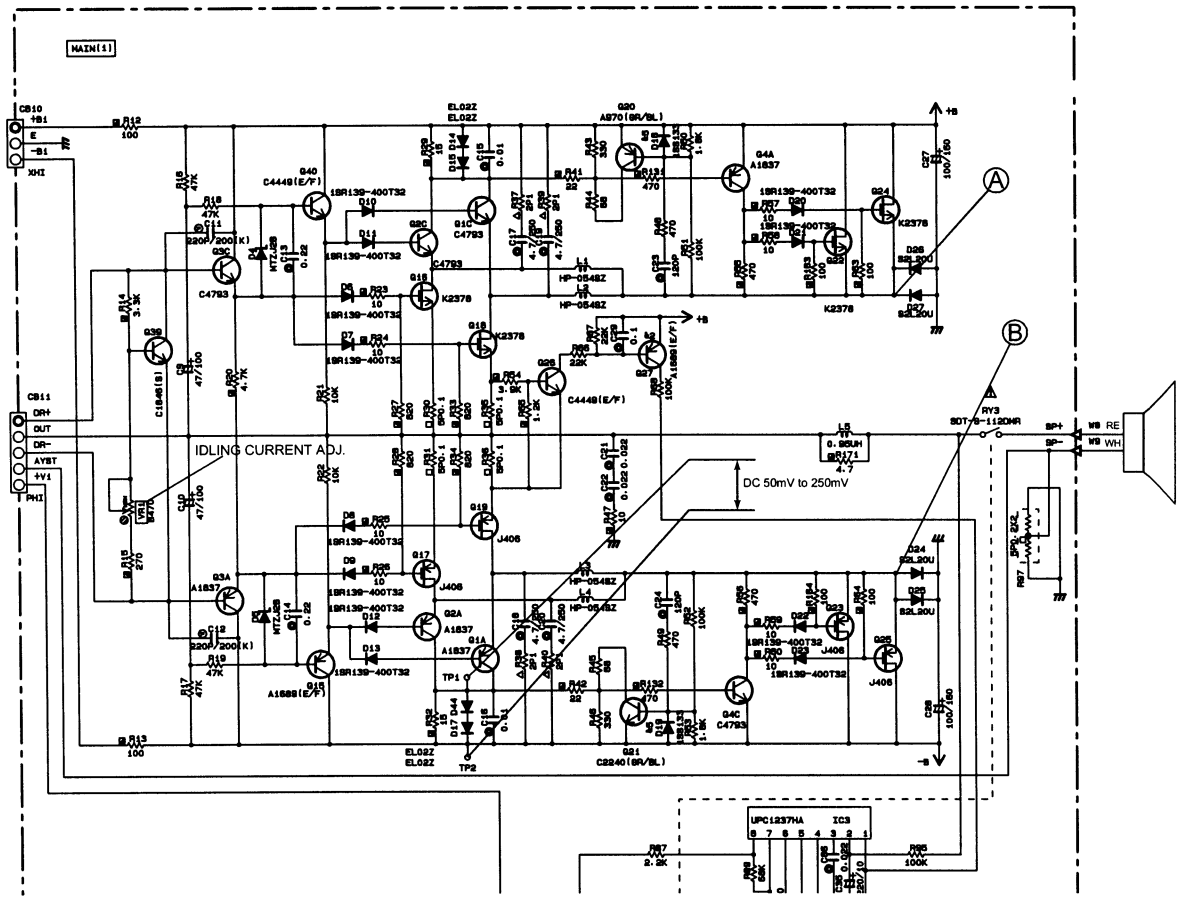
5) Turn on the STANDBY/ON switch.
   The display LED lights up (green) and its color remains unchanged even after time have elapsed.
6) Turn off the STANDBY/ON switch.
   The display LED goes off.

After confirmation

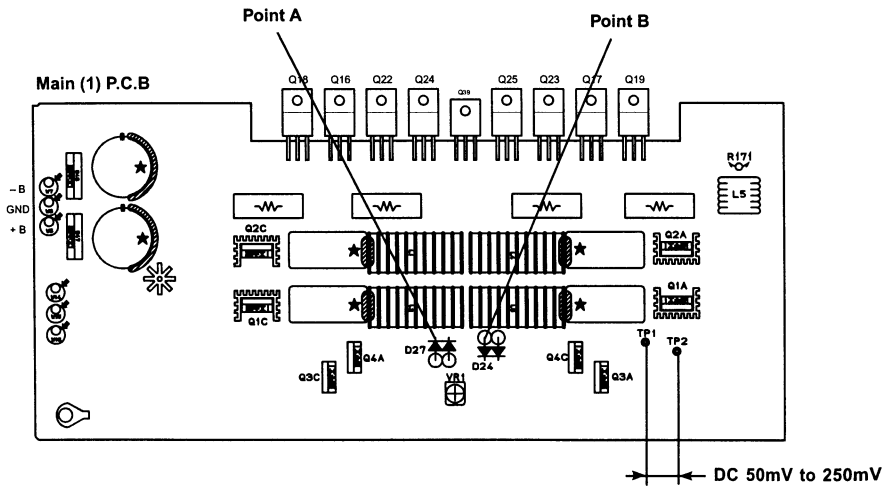
1) Turn off the power switch.
2) Disconnect the 10kΩ resistor connected to both ends of R162.

YST-SW800

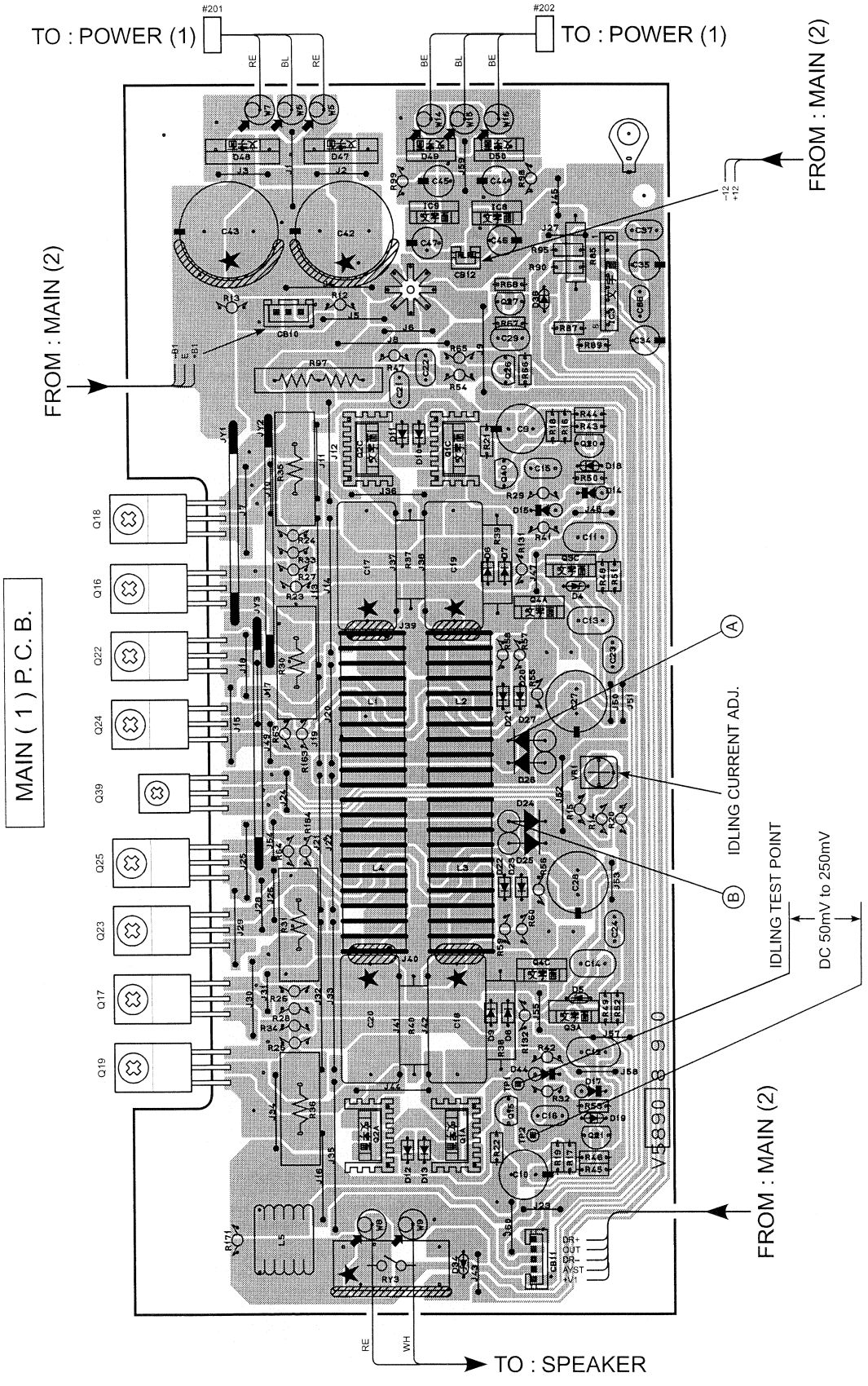
● Schematic Diagram



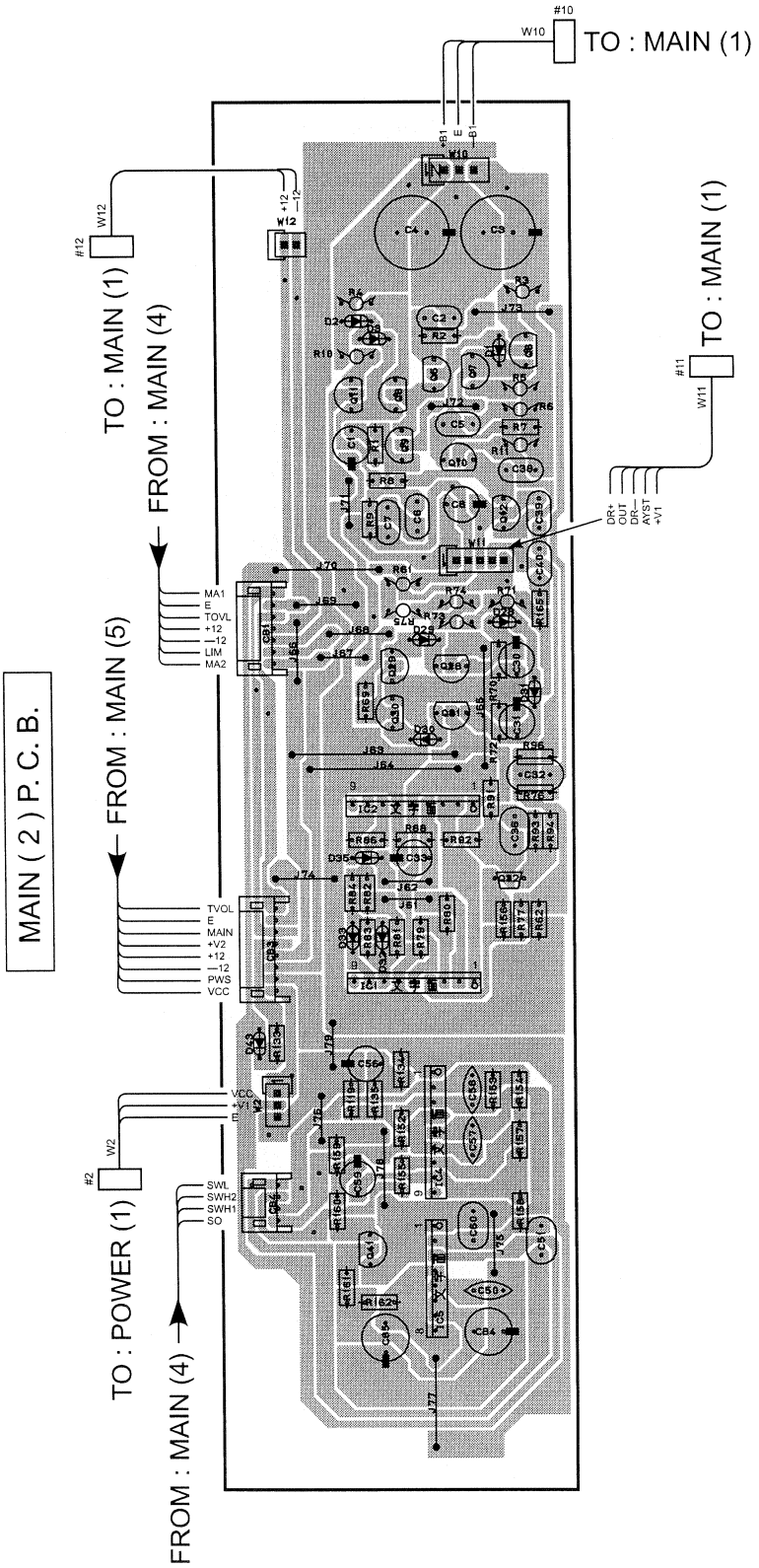
● Test Points



■ PRINTED CIRCUIT BOARD (Foil side)

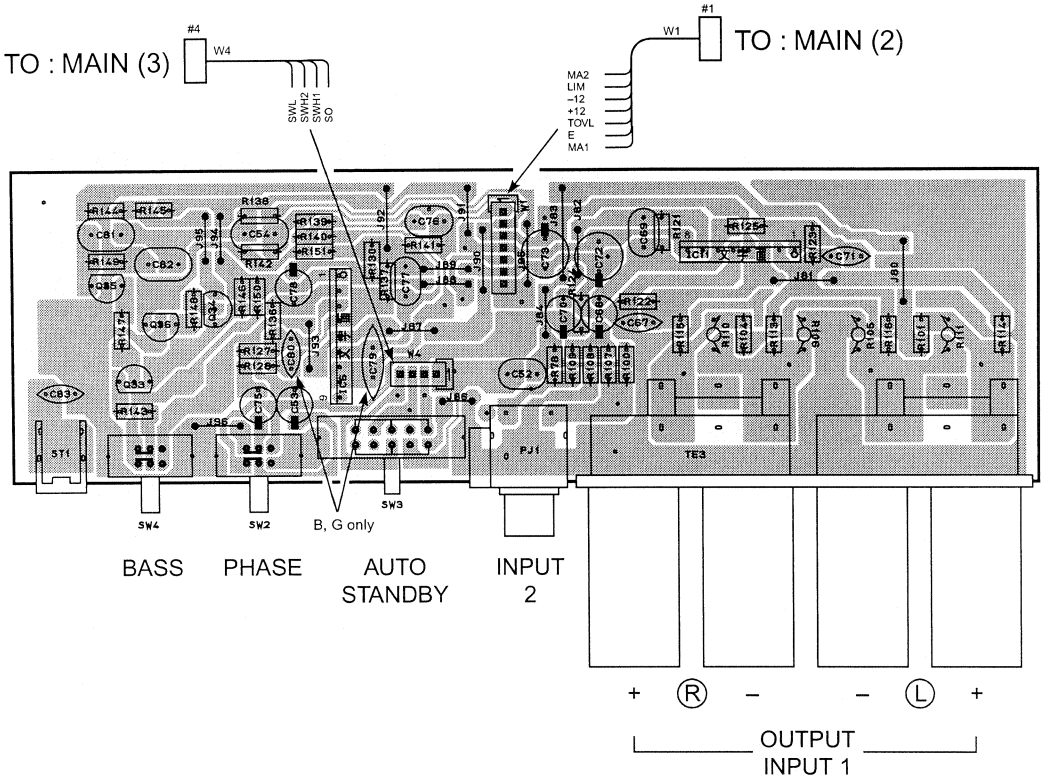


■ PRINTED CIRCUIT BOARD (Foil side)

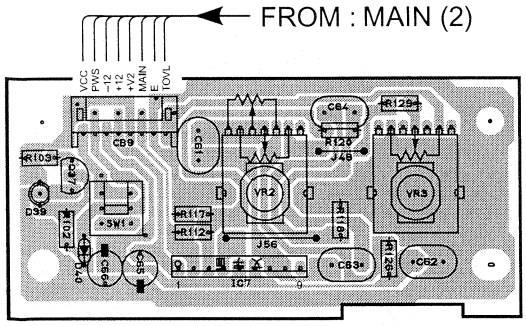


■ PRINTED CIRCUIT BOARD (Foil side)

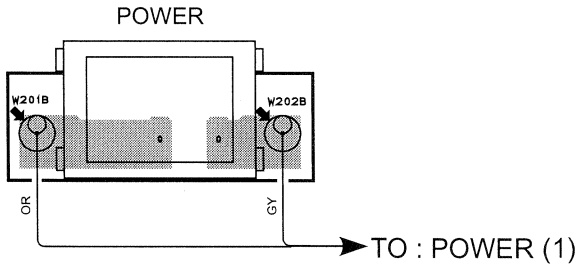
MAIN (4) P. C. B.



MAIN (5) P. C. B.

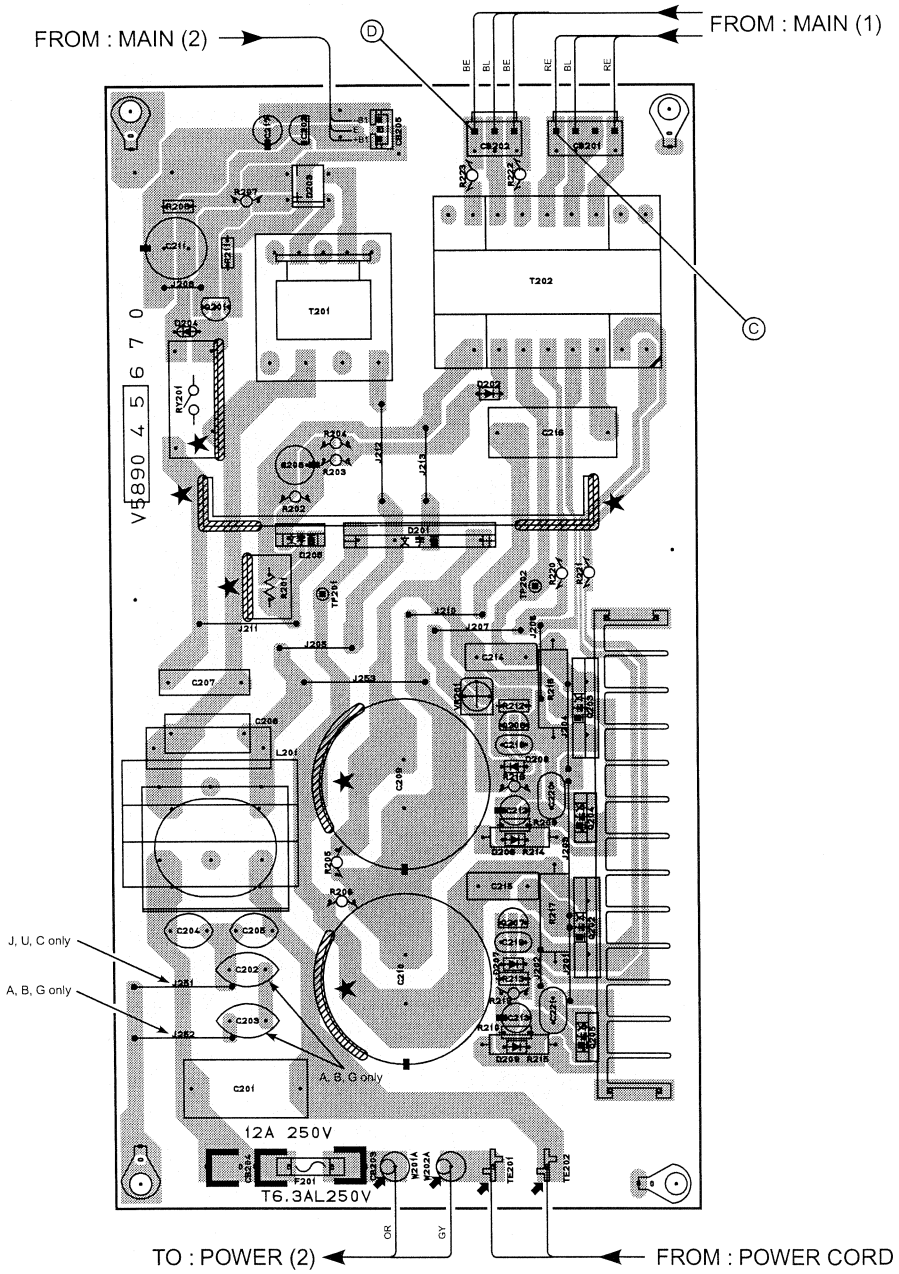


POWER (2) P. C. B.

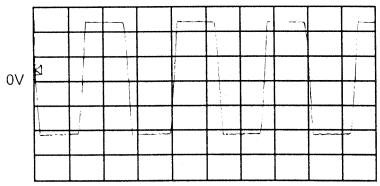


■ PRINTED CIRCUIT BOARD (Foil side)

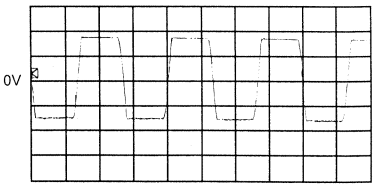
POWER (1) P. C. B.



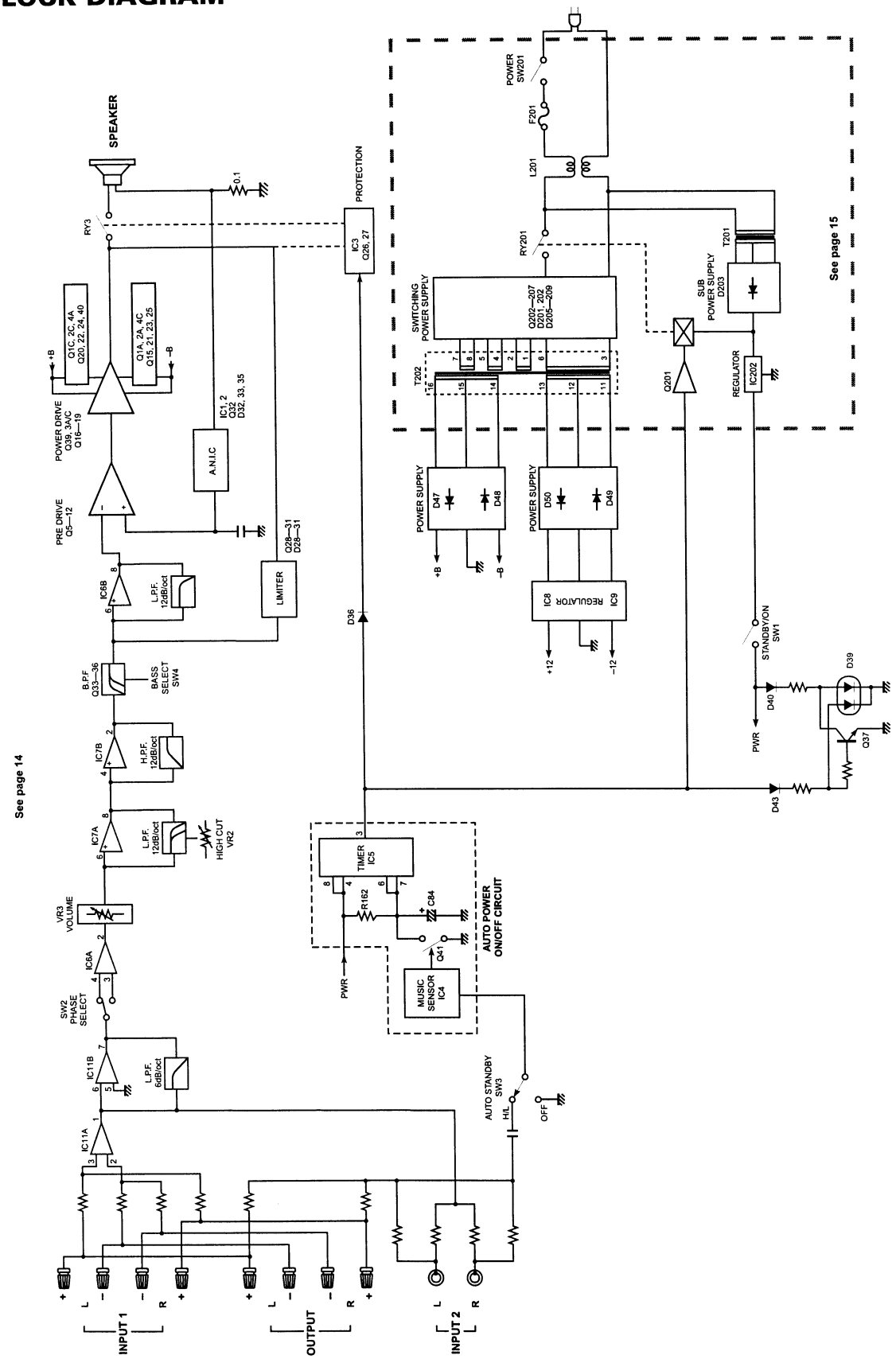
Point C (Pin 1 of CB201)
V : 50V/div H : 10 µsec/div
DC range 1 : 1 probe



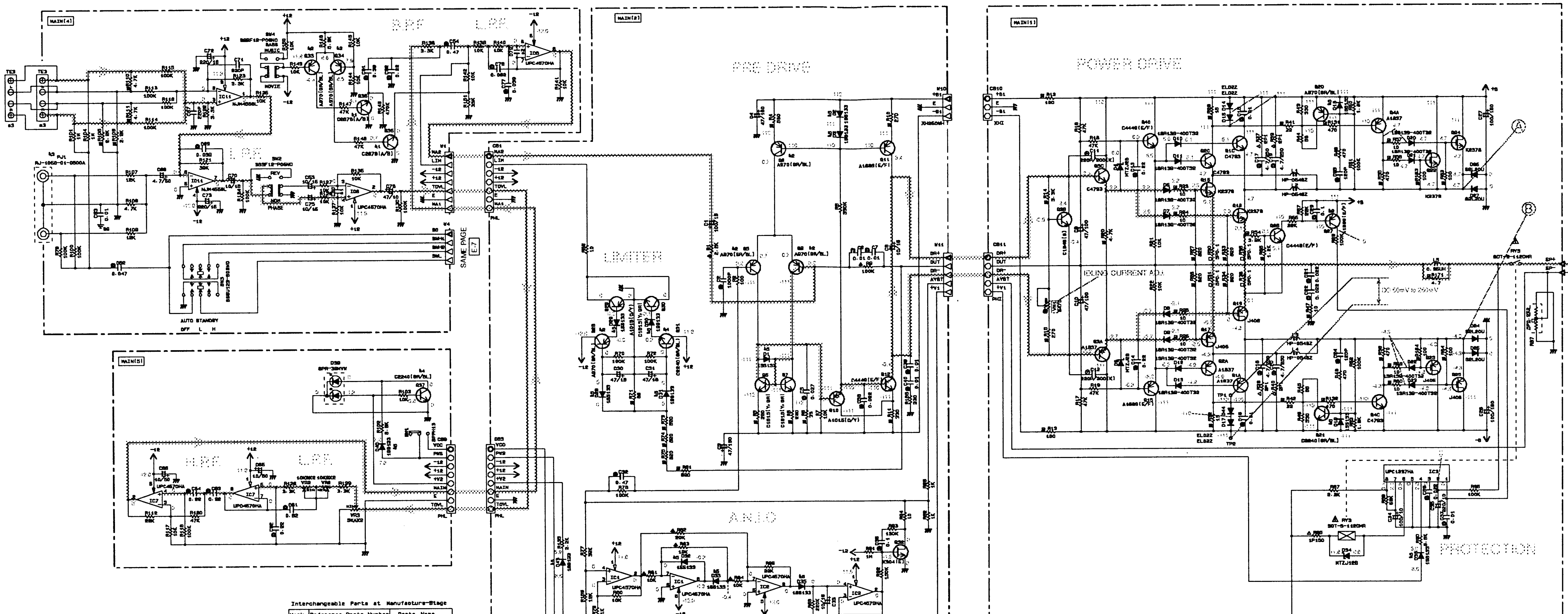
Point D (Pin 1 of CB202)
V : 10V/div H : 10 µsec/div
DC range 1 : 1 probe

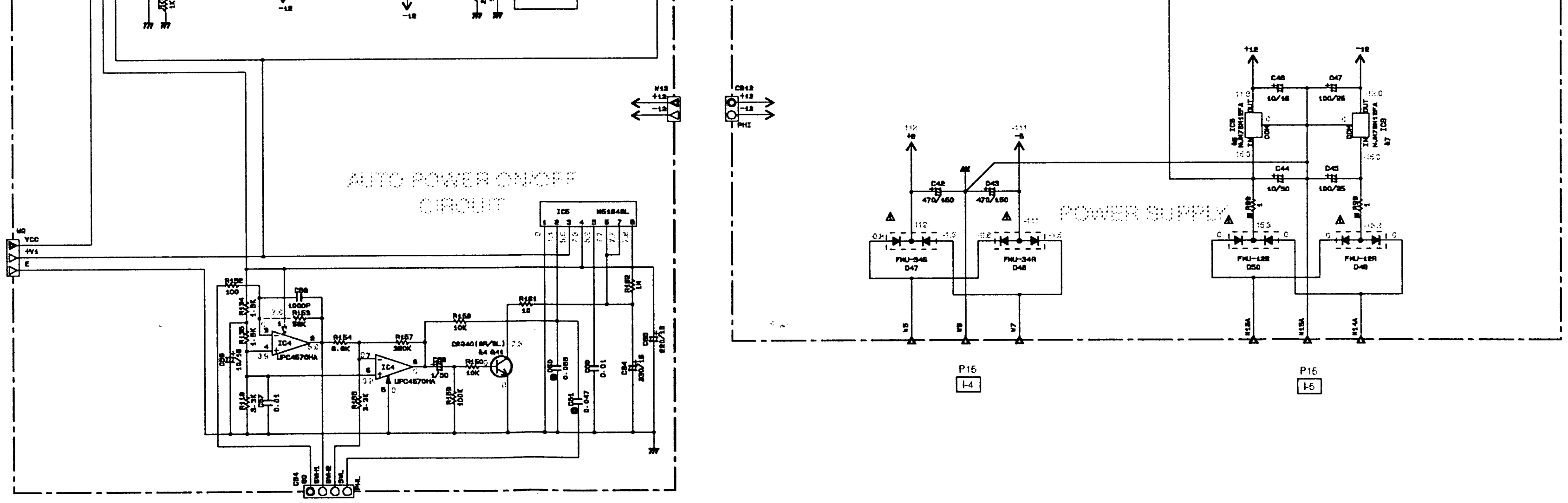


■ BLOCK DIAGRAM

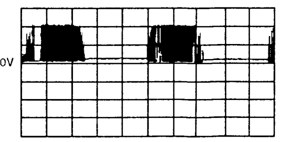


■ SCHEMATIC DIAGRAM

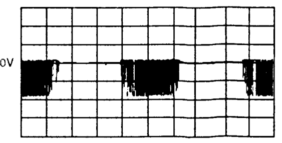




Point A (Cathode of D27)
V : 50V/div H : 2 msec/div
DC range 1 : 1 probe



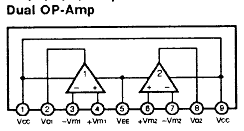
Point B (Anode of D24)
V : 50V/div H : 2 msec/div
DC range 1 : 1 probe



Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
⚠1	Q35, 38	C2878(A/B) C3788
⚠2	Q5, 8, 9, 20, 28, 33, 34	A970(GR/BL) A1267(Y/T)
⚠3	PJ1	RJ-1050-01-0500A LPR6520-C618
⚠4	Q21, 31, 37, 41	C2240(GR/BL) C2908(Y/T)
⚠5	D1-3, 18, 19, 28-33, 35, 38 D40, 43	1SS133 MS2104TD
⚠6	IC8	NJM78M12FA AN78M12F
⚠7	IC9	NJM79M12FA AN79M12F
⚠8		

IC1, 2, 4, 6, 7 : µPC4570HA
Dual OP-Amp

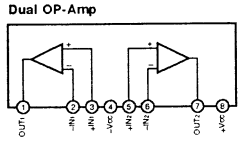


CIRCUIT CHANGES BY MARKET.

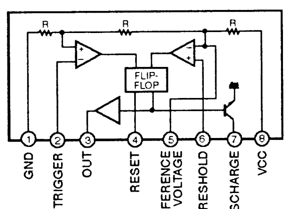
	LOCATION	DESTINATION	
		J・U・C・A	B・G
⊕1	C80	X	22PCH
⊕2	C79	X	220PCH
⊕3	TE3	VV00310 VC31370	Y481140
⊕4			
⊕5			

X : NOT USED

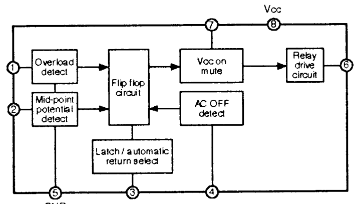
IC11 : NJM4558L
Dual OP-Amp



IC5 : M51848L
CR Timer



IC3 : µPC1237HA
Protector IC for Power Amplifier



RESISTOR

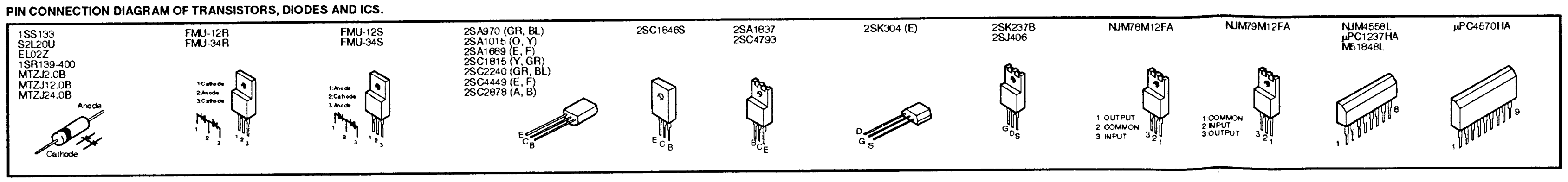
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P=5)
⍁	CARBON FILM RESISTOR (P=10)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
☒	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⊣⊢ (polarized)
⊗	TANTALUM CAPACITOR	
NO MARK	CERAMIC CAPACITOR	⊣⊢
●	CERAMIC TUBULAR CAPACITOR	
●	POLYESTER FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
⦶	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
●	SEMICONDUCTIVE CERAMIC CAPACITOR	

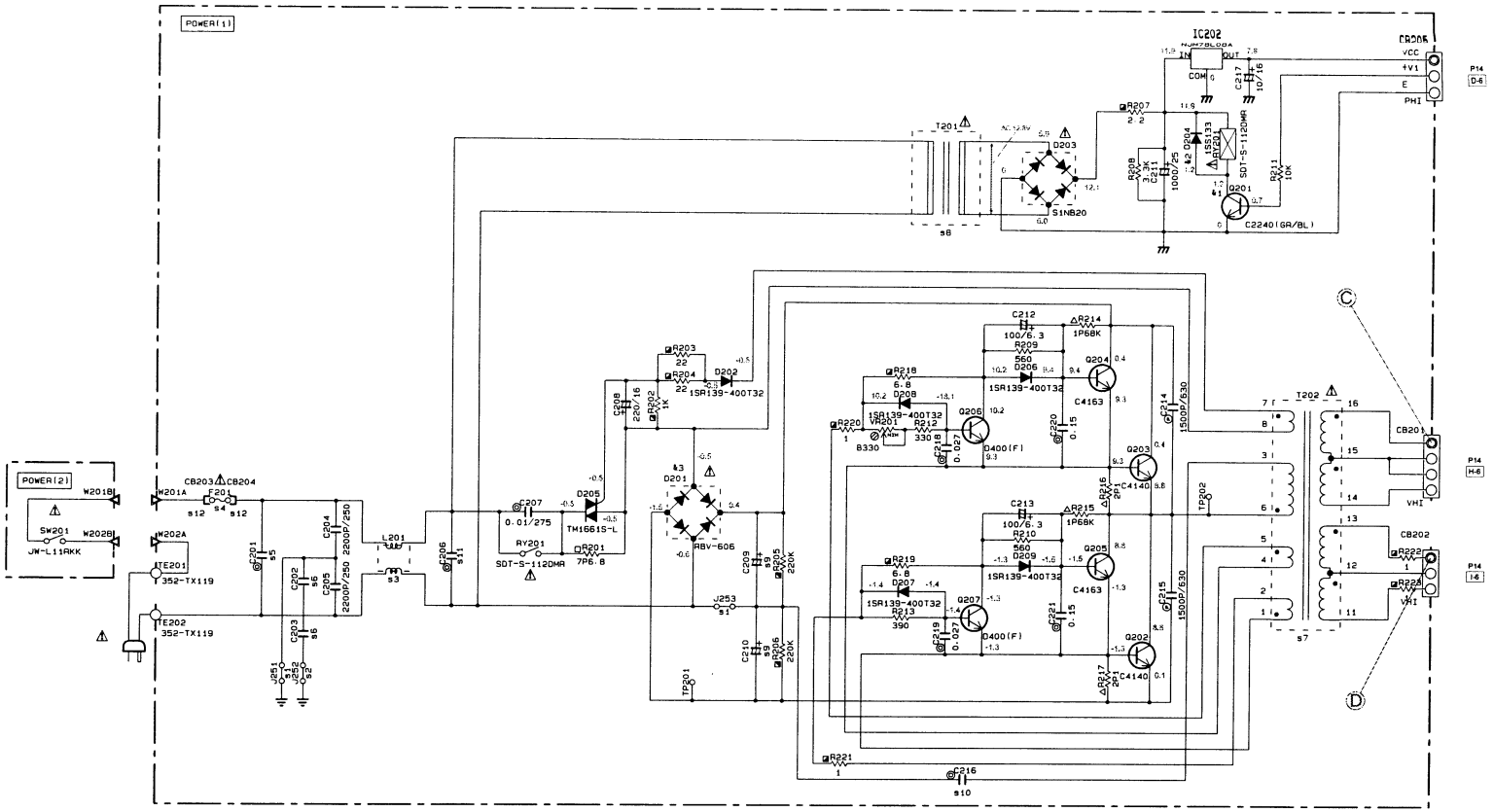
NOTICE (model)
(J)····· JAPANESE
(U)····· U.S.A
(C)····· CANADIAN
(R)····· GENERAL
(A)····· AUSTRALIAN
(B)····· BRITISH
(G)····· EUROPEAN
(T)····· CHINA
(L)····· SINGAPORE

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICS.



* All voltage 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.

■ SCHEMATIC DIAGRAM



CIRCUIT CHANGES BY MARKET.

	LOCATION	DESTINATION			
		J	U·C	A	B·G
s1	J251, 253	O	O	X	X
s2	J252	X	X	O	O
s3	L201	VP23430	VP23430	VN39810	VN39810
s4	F201	12A250V	12A250V	T6.3AL250V	T6.3AL250V
s5	C201	0.47/250	0.47/250	1/250	1/250
s6	C202, 203	X	X	4700P/250	4700P/250
s7	T202	XY912	XY913	XY914	XY915
s8	T201	XV442	XV443	XV445	XV445
s9	C209, 210	2200/180	1800/200	1200/250	1200/250
s10	C216	3.3/250	2.2/250	2.2/250	2.2/250
s11	C206	0.22/250	0.22/250	0.47/250	0.47/250
s12	CB203, 204	V657740	V657740	VT65820	VT65820
s13					
s14					

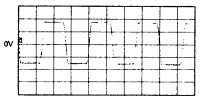
X : NOT USED
O : USED

Interchangeable Parts at Manufacture-Stage

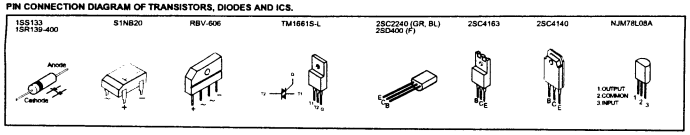
Mark	Reference Parts Number	Parts Name
&1	Q201	C2240(GR/BL)
		C2909(S/T)
&2	D204	1SS133
		HSS104TD
&3	D201	RBV-606
		D5SBA60

Point C (Pin 1 of CB201)
V : 50V/div H : 10 µsec/div
DC range 1 : 1 probe

Point D (Pin 1 of CB202)
V : 10V/div H : 10 µsec/div
DC range 1 : 1 probe



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICS.



* All voltage 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.

PARTS LIST

■ ELECTRICAL PARTS

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

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

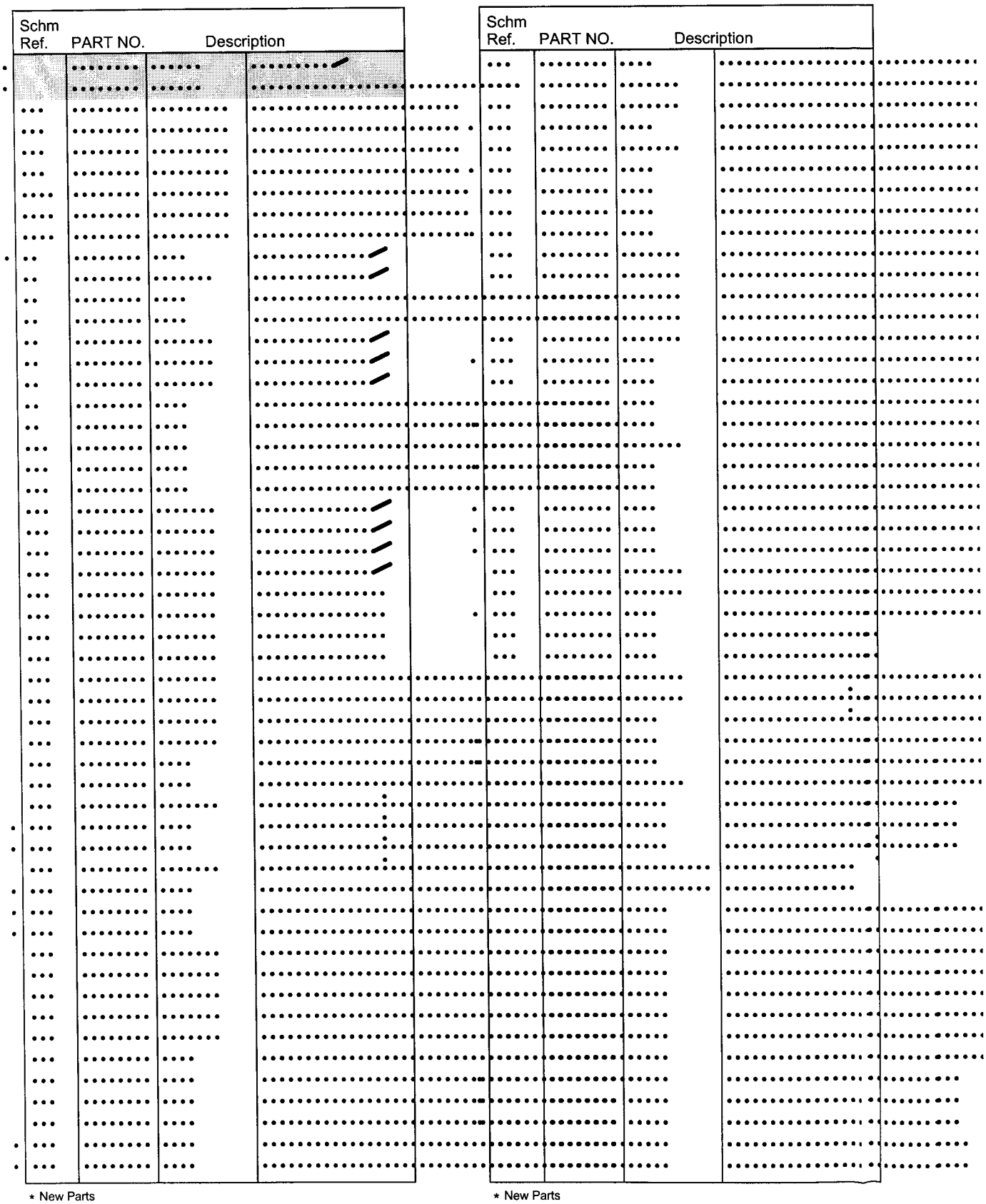
ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

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

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

YST-SW800

P.C.B. MAIN



* New Parts

* New Parts

P.C.B. MAIN

Schm Ref.	PART NO.	Description

Schm Ref.	PART NO.	Description

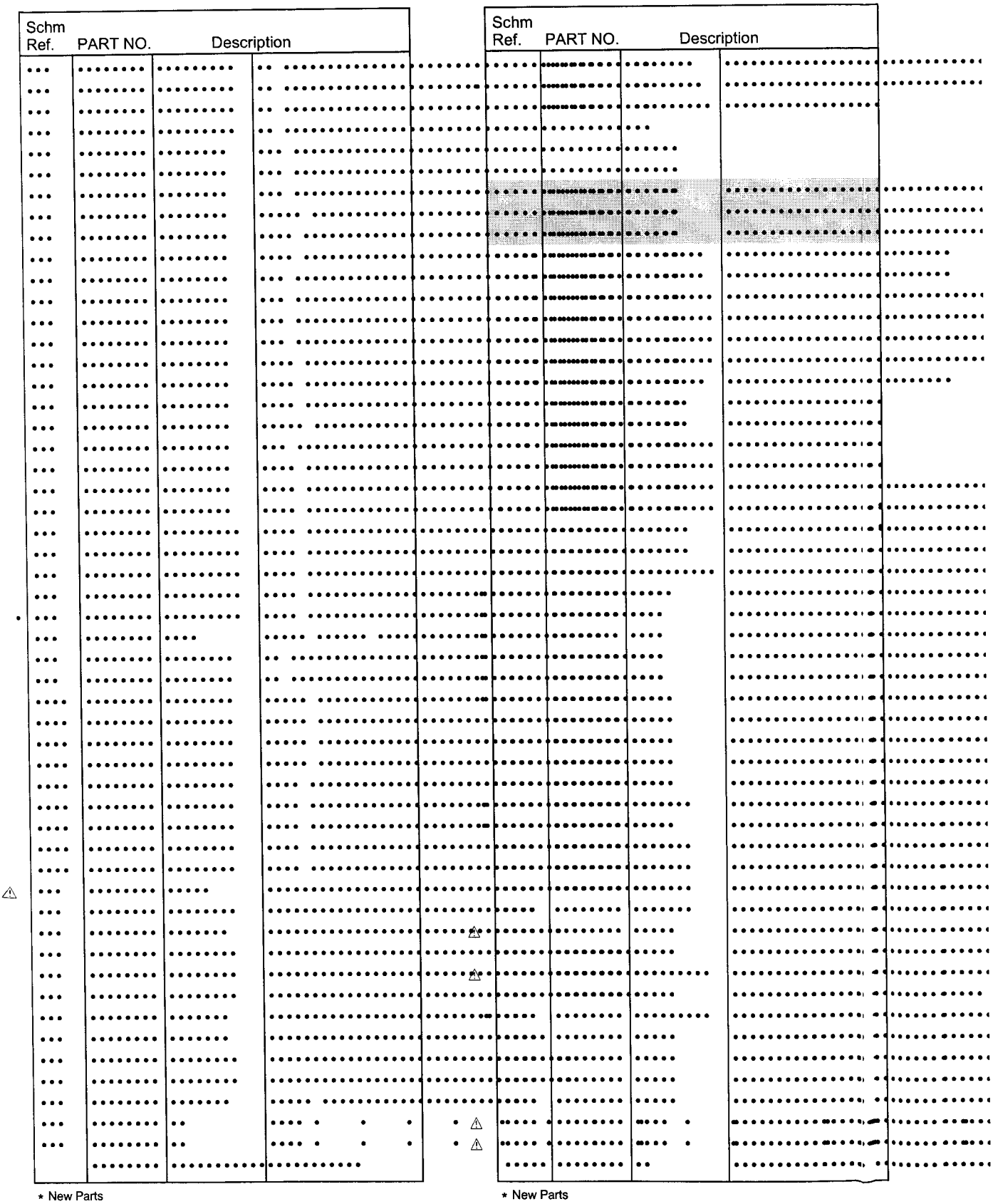
* New Parts

* New Parts

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

YST-SW800

P.C.B. MAIN & POWER



Schm Ref.	PART NO.	Description

Schm Ref.	PART NO.	Description

* New Parts

* New Parts

P.C.B. POWER

Schm Ref.	PART NO.	Description

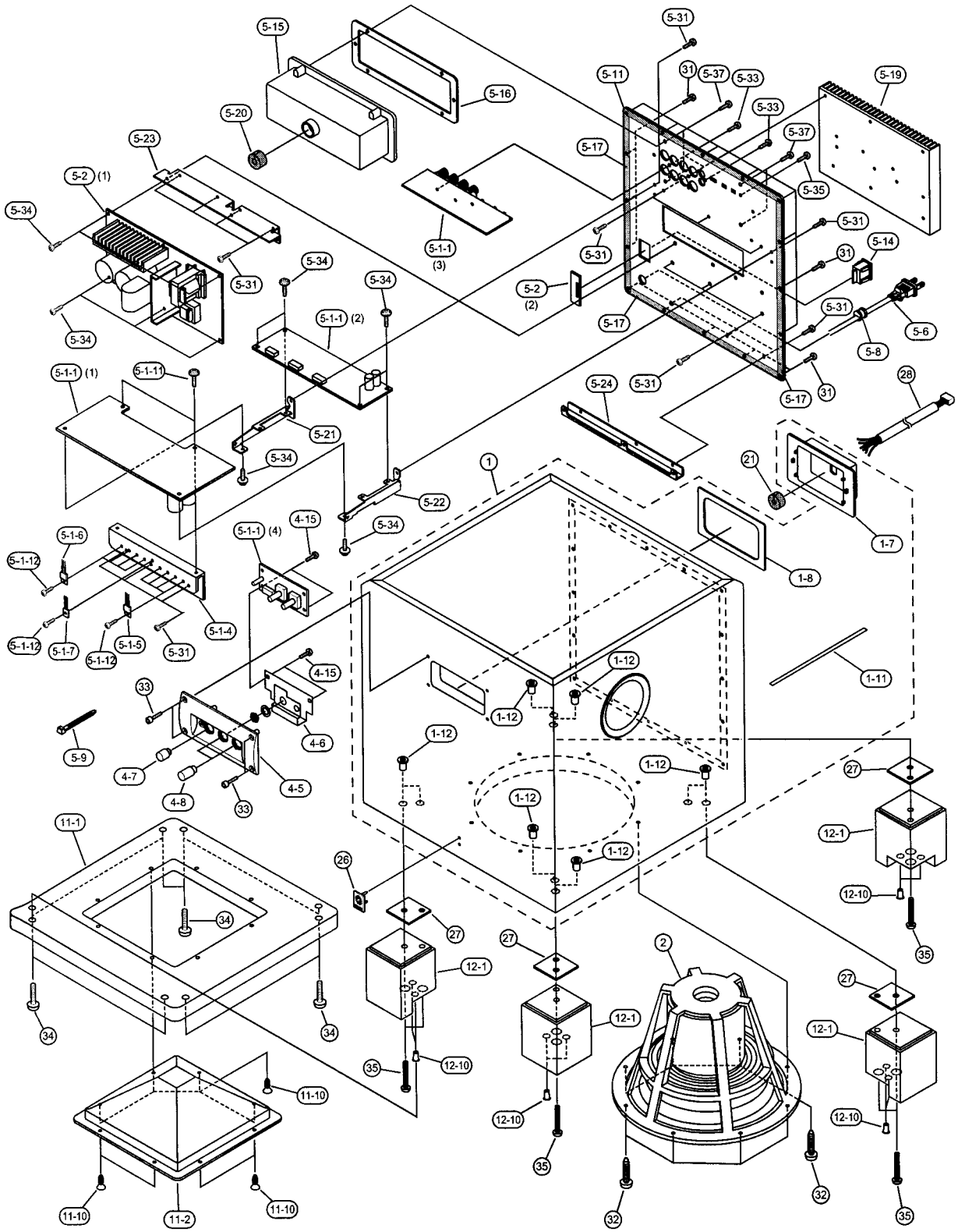
* New Parts

Schm Ref.	PART NO.	Description

* New Parts

YST-SW800

■ EXPLODED VIEW



■ MECHANICAL PARTS

Ref. No.	PART NO.	Description	Remarks	Markets

* New Parts

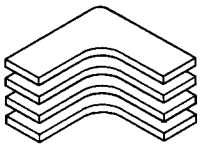
Note) Those parts marked with "#" are not included in the P.C.B. ass'y.

YST-SW800

Ref. No.	PART NO.	Description	Remarks	Markets
**	*********	******	* **********	
* **	*********	****** **********		
* **	*********	**********		
**	*********	**********	**********	********** **********
* **	*********	**********	**********	********
* **	*********	**********	**********	**********
**	*********	**********	**********	
* **	*********	**********	**********	
		**********		
* ***	*********	***	**********	

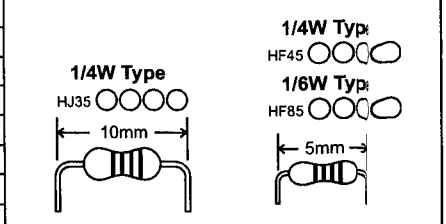
* New Parts

(203) X 4



Parts List for Carbon Resistors

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



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