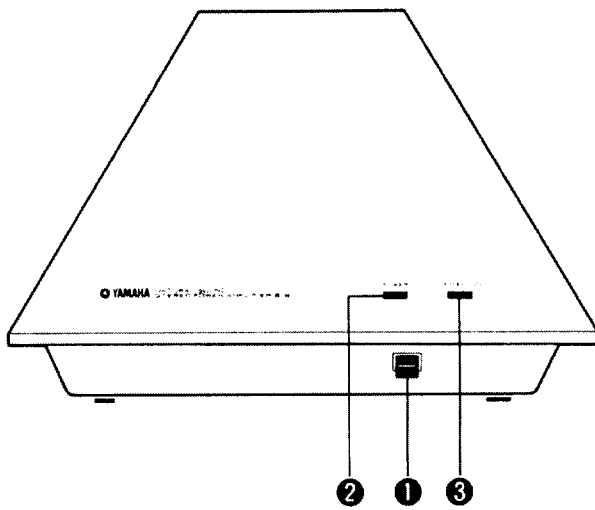


# B-6

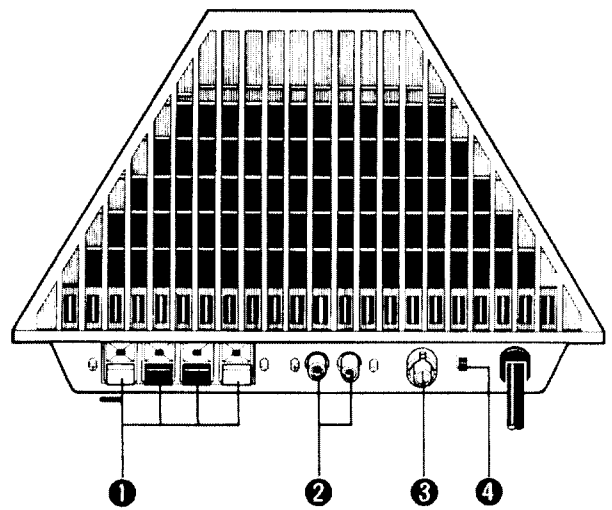
## SERVICE MANUAL

### FRONT VIEW



- ① POWER SWITCH
- ② POWER INDICATOR
- ③ PROTECTION INDICATOR

### REAR VIEW



- ① SPEAKER TERMINALS
- ② INPUT TERMINALS
- ③ GROUND TERMINAL
- ④ SPEAKER SWITCH

B-6

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SINCE 1887



**YAMAHA**

NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN

'80. 9 1.8K K.T. Printed in Japan

# SPECIFICATIONS

<b>Minimum rms Output Power</b>	
(8Ω, 20 to 20,000Hz, T.H.D. 0.003%)	.. 200W + 200W
<b>Total Harmonic Distortion</b>	
(8Ω, 100W, 20 to 20,000Hz)	..... Less than 0.03%
<b>IM Distortion Ratio (50Hz · 7kHz = 4 : 1)</b>	
(8Ω, 100W)	..... Less than 0.003%
<b>Power Bandwidth</b>	
(8Ω, 100W, 0.03% T.H.D.)	..... 10Hz to 100kHz
<b>Damping Factor</b>	
(8Ω, 1kHz)	..... Better than 200
<b>Frequency Response</b>	
(8Ω)	..... DC to 100kHz ± 0.5dB
<b>Input Sensitivity/Impedance</b>	
(8Ω, 200W, 1kHz)	..... 1.41V/25kΩ
<b>Signal-to-Noise Ratio (IHF A Network)</b>	
(8Ω, input shorted)	..... 127dB

<b>Channel Separation (1kHz, shorted)</b>	
20Hz	..... 95dB
1kHz	..... 92dB
20kHz	..... 72dB

<b>Power Supply</b>	
U.S.	..... 120V, 60Hz
Northern Europe	..... 220V, 50Hz

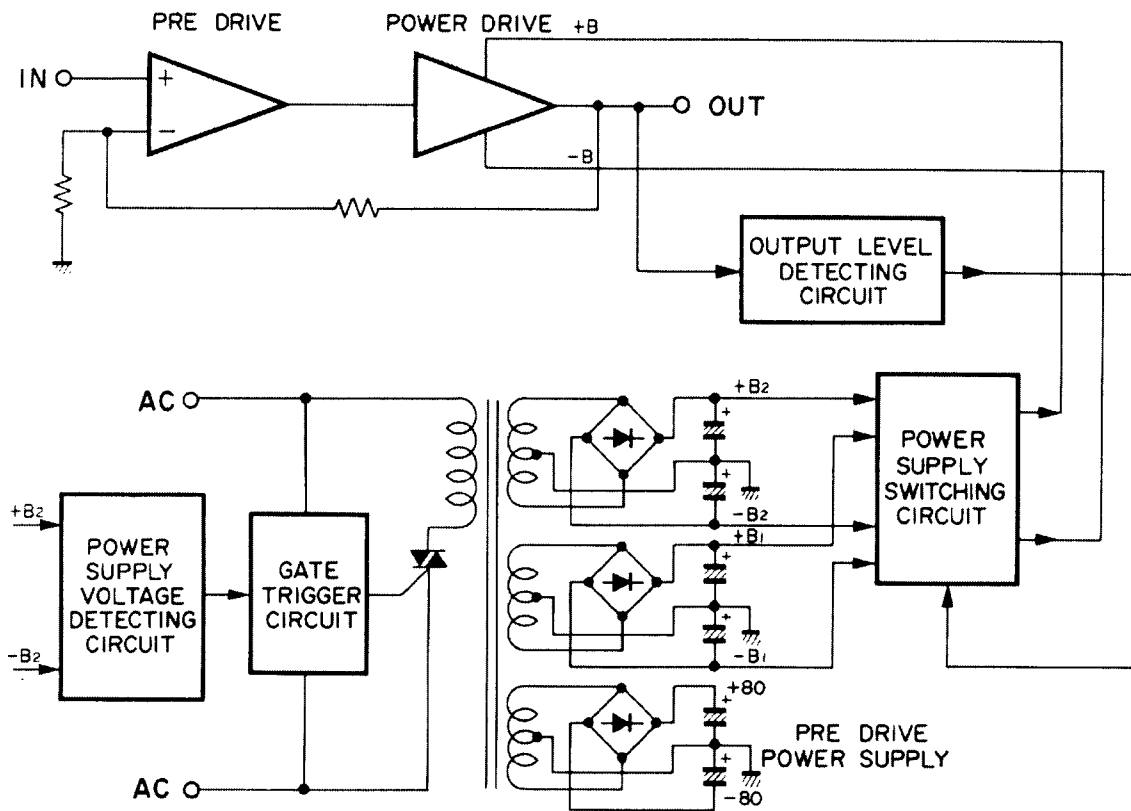
<b>Power Consumption</b>	
U.S.	..... 200W (1% T.H.D., 1/10 output power)
Northern Europe	..... 1200W (1% T.H.D.)

<b>Dimensions (W x H x D)</b>	
..... 290 x 176.5 x 290 mm (11-7/16" x 6-15/16" x 11-7/16")	

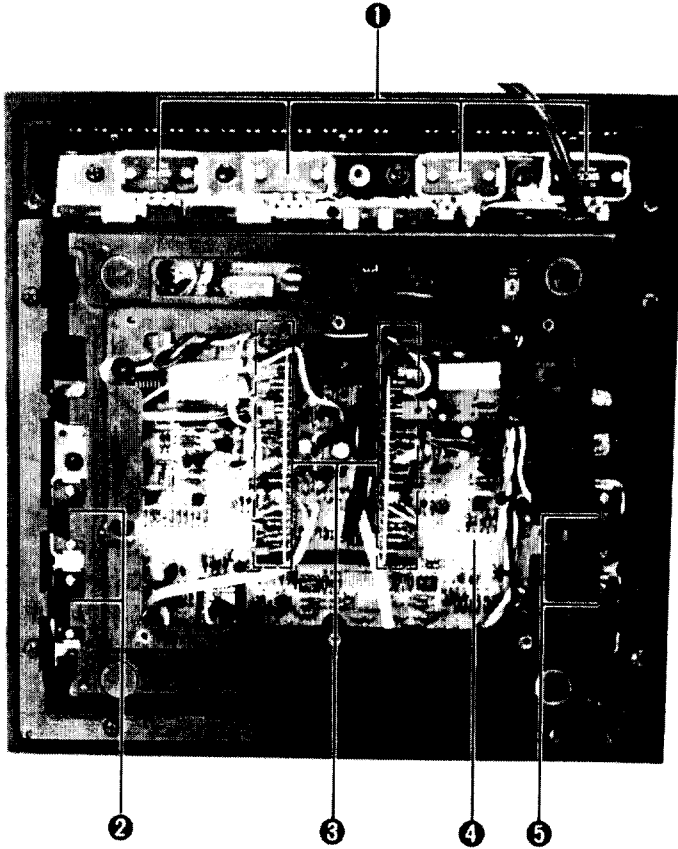
<b>Weight</b>	
U.S.	..... 9.0 kg (19 lbs. 13 oz.)
Northern Europe	..... 9.2 kg (20 lbs. 4 oz.)

*Specifications subject to change without notice.*

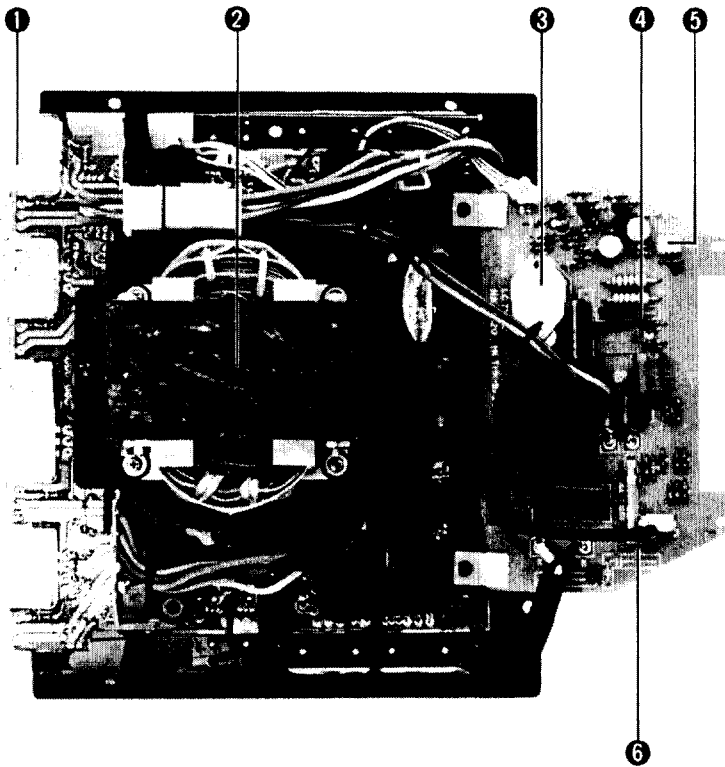
# BLOCK DIAGRAM



## INTERNAL VIEW



- ① Power Transistor  
2SA1095LBB  
2SC2565LBB
- ② Transistor (For Voltage selector)  
2SA1095LBB  
2SC2565LBB  
2SB596 (O, Y)  
2SD526LBB
- ③ Pri-drive C. Board (NA07519)
- ④ Main C. Board  
(U.S. Model: NA07549)  
(N. European Model: NA07518)



- ① Radiator
- ② Power Transformer  
(U.S. Model: GA64010)  
(N. European Model: GA64000)  
(Japanese Model: GA63730)
- ③ Triac AC16D1F-L (iH00102)
- ④ Triac SMOR5G42 (iH00090)
- ⑤ Photo coupler TLP508 (iK00028)
- ⑥ Power Supply C. Board  
(U.S. Model: NA07556)  
(N. European Model: NA07557)

## DISASSEMBLY PROCEDURES

### 1. Bottom cover removal

Remove the screws ① to ⑥ in Photo 1 and then the bottom cover can be removed.

① to ⑥ : Bind Head Tap-Tyte screw 4 x 8 (Black)

### 2. Transistor cover removal

Remove the screws ⑦ to ⑨ in Photo 1 and then the transistor cover can be removed.

⑦ to ⑨ : Bind Head Tap-Tyte screw 4 x 8 (Black)

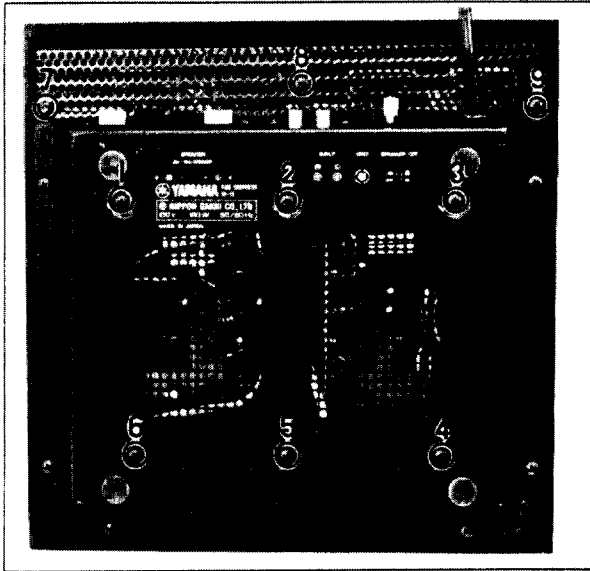


Photo 1

### 3. Top case unit removal

Remove the screws ① to ⑭ in Photo 2 and then loosen the screws ⑮ to ⑰.

\* The screws ⑮ to ⑰ can not be removed because they are attacked with guide bushes.

① to ⑩ : Bind Head Tap-Tyte screw 4 x 8 (Black)

⑪ to ⑭ : B.W Head Tap-Tyte screw 4 x 8 (Black)

\* Make sure that you use the above screws.

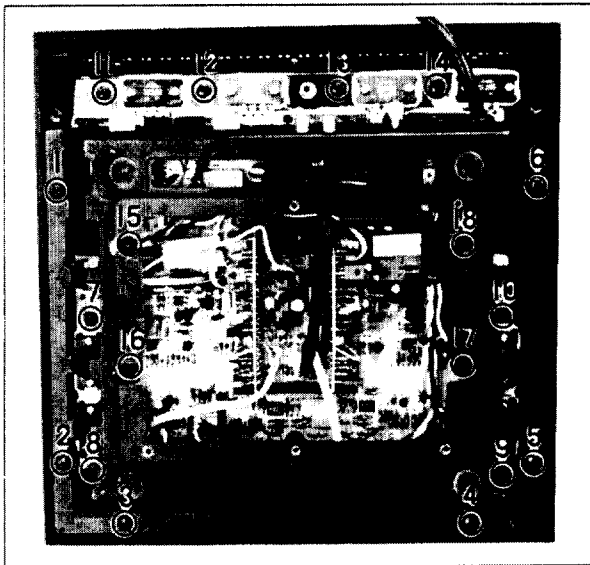


Photo 2

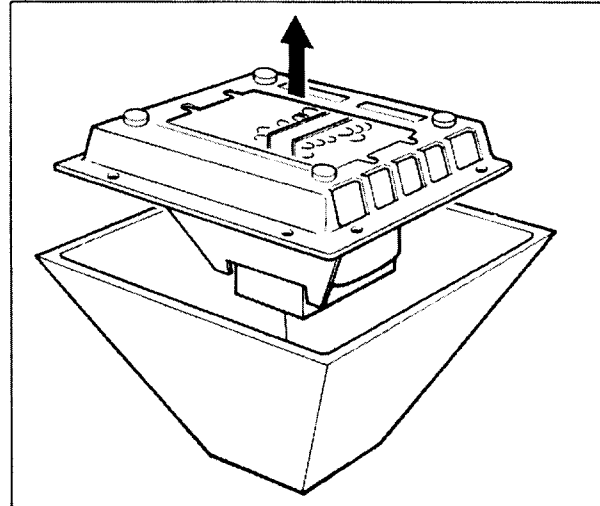


Fig. 1

### 4. Power supply printed circuit board removal

Remove the screws ① to ④ in Photo 3 and then spread out the power supply printed circuit board in Photo 4. You can exchange the parts in power supply printed circuit board (ex. Triac).

①. ② : B.W Head Tap-Tyte screw 3 x 6 (Black)

③. ④ : Bind Head Tap-Tyte screw 3 x 8

\* Make sure that you use the toothed locked washer with the screw ①

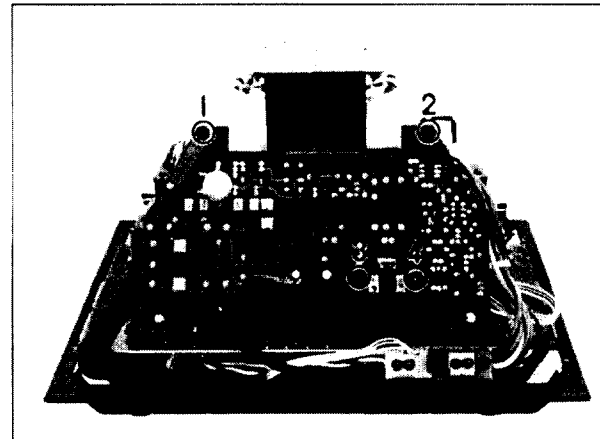


Photo 3

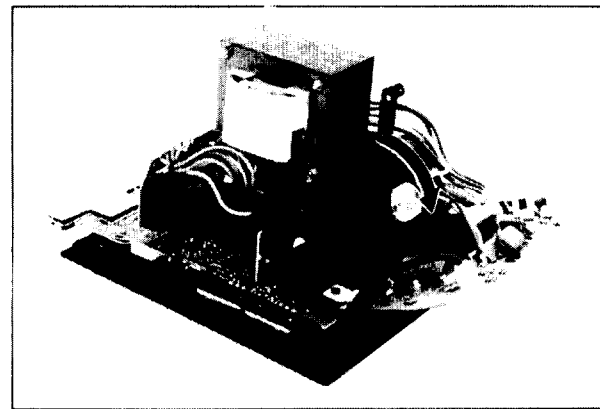


Photo 4



### 5. Power supply unit removal

Remove the three connectors which are connected to power supply unit. Remove the screws ① to ③ in Photo 5 and then power supply unit can be removed from the bottom unit.

① to ③ : Bind Head Tap-Tyte screw 4 x 8 (Black)

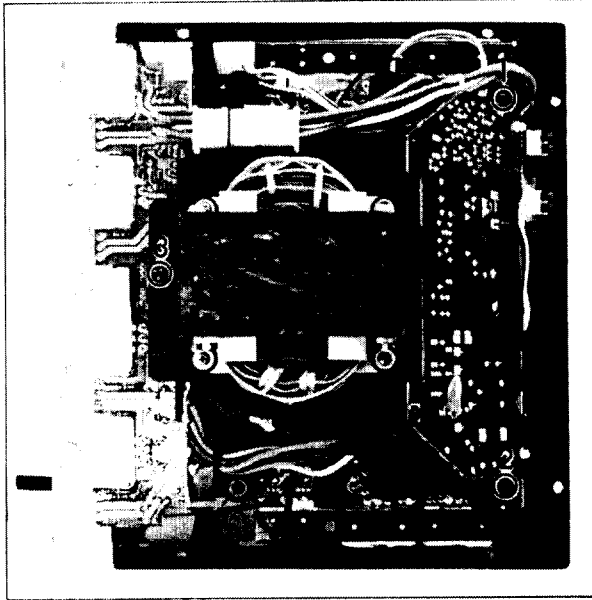


Photo 5

### 6. Capacitor cover removal

Remove the screws ① to ④ in Photo 6 and then remove the capacitor cover.

① to ④ : Bind Head Tap-Tyte screw 3 x 8 (Black)

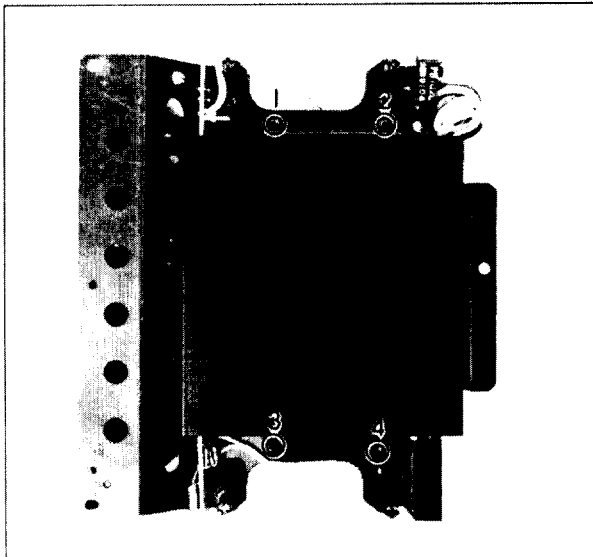


Photo 6

### 7. Electrolytic capacitor printed circuit board removal

Remove the screws ① and ② in Photo 7 and remove the electrolytic capacitor printed circuit board.

①, ② : Bind Head Tap-Tyte screw 3 x 16 (Black)

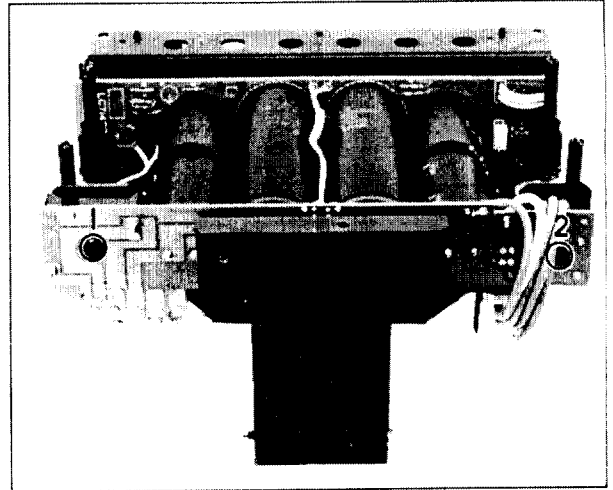


Photo 7

### 8. Main printed circuit board removal

a. Remove the lead wires which are connected to the main printed circuit board.

- Remove the speaker terminal. (2-screws)
- Remove the LED Holder. (2-screws)
- Remove the connector. (2-screws)

b. Remove the screws ① to ⑥ in Photo 8 and then Remove the main printed circuit board.

① to ⑥ : Bind Head Tap-Tyte screw 4 x 8 (Black)

\*Make sure that you use the toothed locked washer with the screw ④

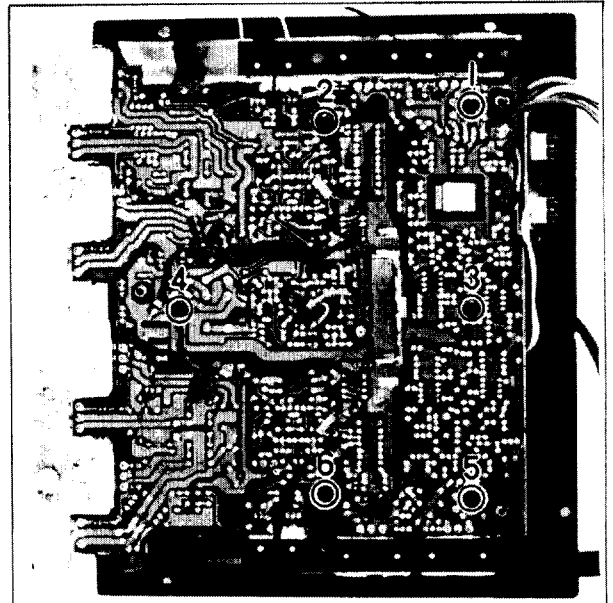


Photo 8

# CIRCUIT OPERATION

## X POWER SUPPLY CIRCUIT OPERATION CONTROL CIRCUIT

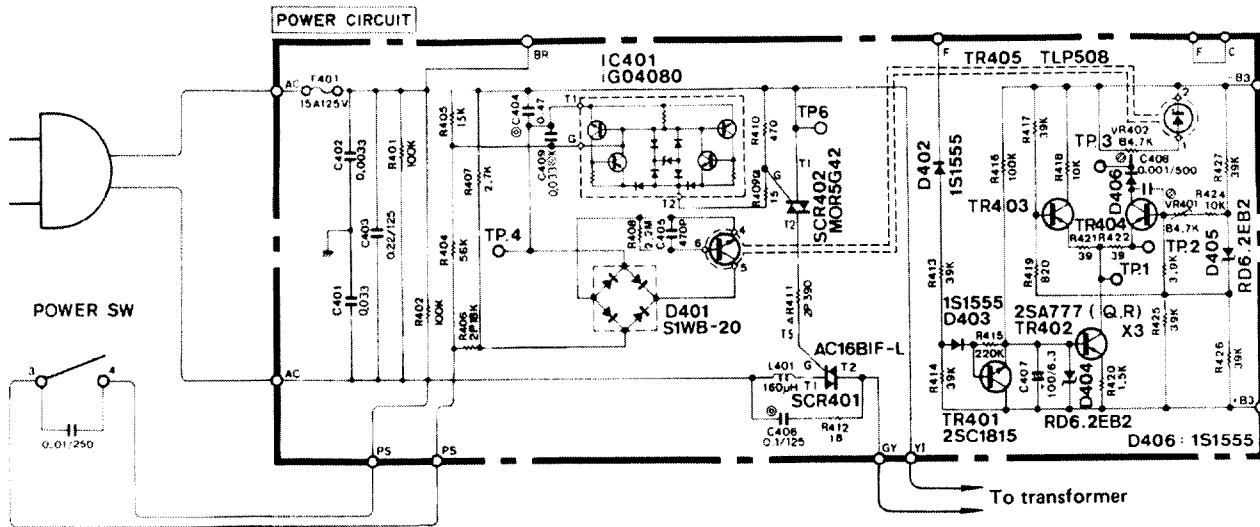


Fig. 1

### X Power Supply Circuit Operation

The X power supply circuit is composed of a voltage variation detector circuit consisting of TR405 (Photo Coupler TLP508), TR402, TR403, TR404, D404, D405

and D406, and a control circuit consisting of IC401, IG04080, TR405 (TLP508), D401, SCR401 and SCR402.

### IG04080

This is an IC with the function of triggering TRIAC.

Operation when  $T_2 < T_1$

If a voltage higher than the combined forward-direction voltage of  $D_1$  and  $D_4$  ( $0.6 + 0.6V$ ) and the zener voltage of ZD ( $7.5V$ ) is applied ( $7.5 + 1.2 = 8.7V \rightarrow$  about  $9V$ ), current flows to ZD. As this current becomes  $IB_2$ ,  $TR_2$  turns on, then  $TR_4$  also turns on. Accordingly, a high current flows from  $T_1$  to  $T_2$ .

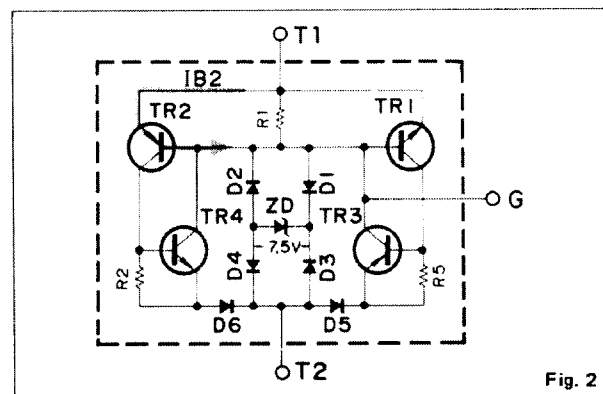


Fig. 2

Operation when  $T_2 > T_1$

The same as above applies, but current flows in the order of:  $D_3 \rightarrow ZD \rightarrow D_2 \rightarrow TR_1$ . Then  $TR_1$  and  $TR_2$  turn on, and current flows from  $T_2$  to  $T_1$ .

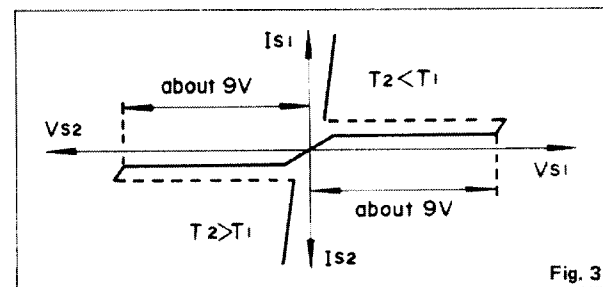


Fig. 3

POWER APPLICATION PHASE ANGLE CONTROL CIRCUIT AND CONSTANT-VOLTAGE OPERATION

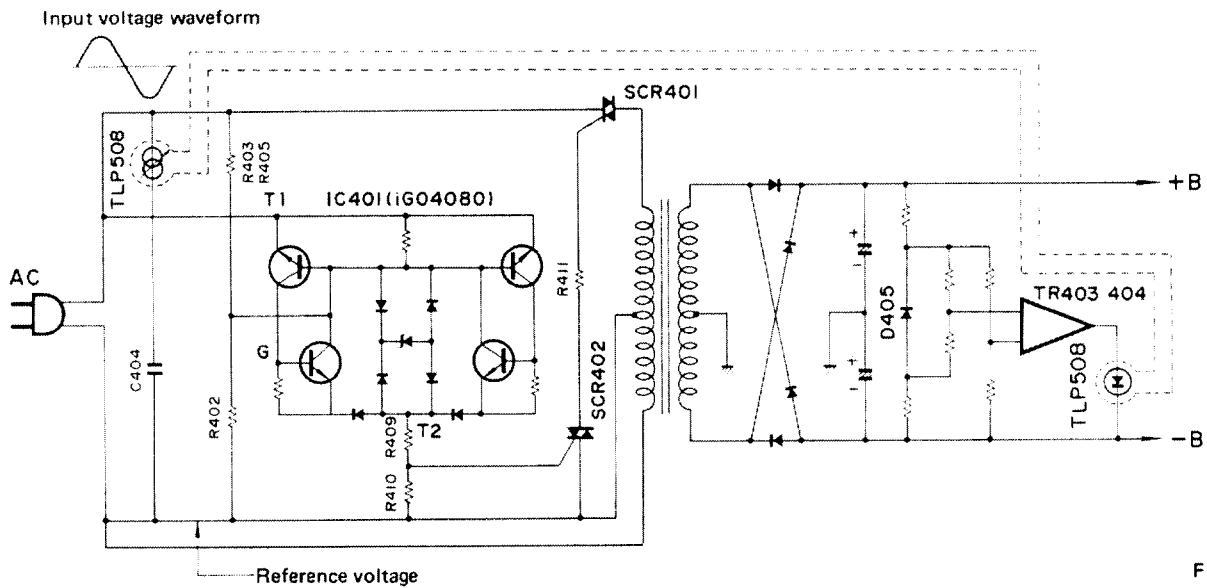


Fig. 4

The positive half-cycle of AC input is explained below: With the current from the constant-current source generated by a phototransistor of Photo Coupler TLP508, the voltage at both ends of C404 ( $T_1 - T_2$  voltage) becomes higher over time as shown in Fig. 3. If it reaches about 9V,  $T_1 - T_2$  turns on, and the electric energy stored in C404 passes,  $T_1 \rightarrow T_2 \rightarrow R409 \rightarrow R410$ , then discharges. At this time, the trigger operates and SCR402 switches on. Accordingly, SCR401 also switches on, and the voltage is applied to the transformer primary. If the current from the constant-current circuit with the phototransistor TLP508 is low, it will take a longer time to reach 9V. Thus the voltage applied to the transformer primary will be lower and the rectified voltage ( $\pm B$ ) in the secondary will also be lower. On the other hand, if the current from the constant-current circuit is high, it will take a shorter time to reach 9V. As a result, the voltage applied to the transformer primary will be higher and the rectified voltage in the secondary ( $\pm B$ ) will also be higher. Thus, by detecting the voltage variation of  $\pm B$  of the secondary, and changing the current supplied to the LED of Photo Coupler 508 so as to change the light emitting quantity, the current of the phototransistor changes and the power application phase angle changes, thereby ensuring stability. If, for example, voltage  $\pm B$  tends to rise, a voltage lower than the reference voltage obtained in zener diode D405 is input to terminal of the voltage variation detector circuit.

As a result, the current supplied to the LED of TLP508 decreases and it becomes dim. Accordingly, the current of the phototransistor decreases and it will take a longer time for TRIAC to turn on. Thus the voltage applied to

the transformer primary will be lower and the rectified voltage of the secondary will also be lower. This means, that the amount by which  $\pm B$  voltage tended to become higher, is detected and fed back so as to keep constant voltage. On the other hand, if  $\pm$  voltage tends to become lower, the same sequence operates in reverse to maintain constant voltage.

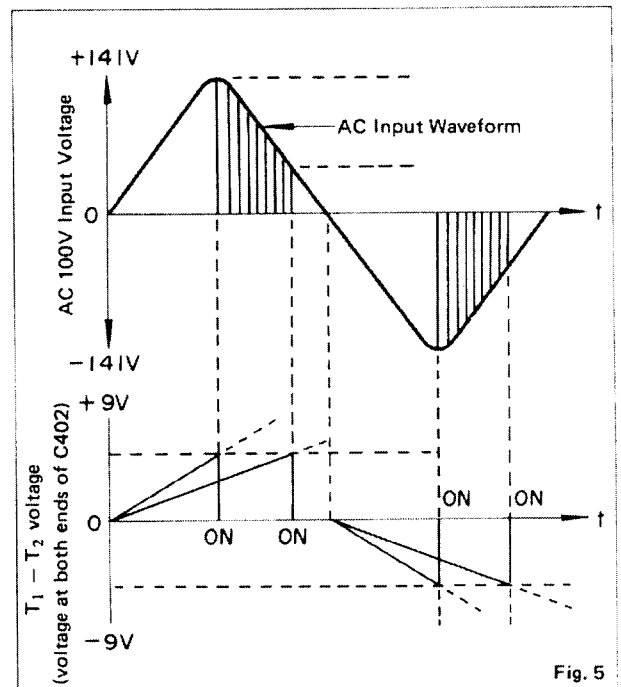


Fig. 5

THE OPERATION AT THE TIME OF ON-OFF OF POWER SW

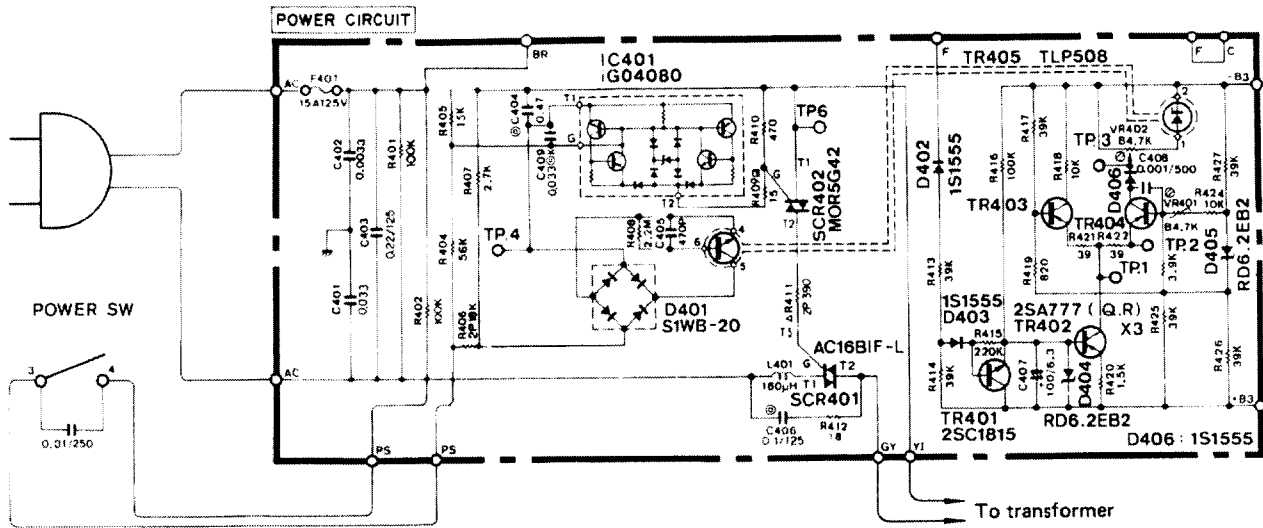


Fig. 6

In all cases mentioned above, the voltage variation detector circuit operates and, accordingly, the control circuit is activated. If the power SW is turned on, however, there is no  $\pm B$  voltage. Therefore the voltage variation detector circuit does not operate and no current flows to the photo coupler. That is, as the control circuit of the primary is not activated either, there is no power supply.

This power circuit is provided with a start circuit to insure operation when the power SW is turned on. Resistors R404, and R405 connected to G circuit of IC401 provide this function. If the power SW is turned on, the AC input voltage passes R402 (100K), then from G terminal of IC401 to T<sub>1</sub> terminal and current flows to charge C404. Thus the voltage of T<sub>1</sub> terminal gradually increases. If it nears 9V, T<sub>1</sub> - T<sub>2</sub> of IC401 is connected, thereby switching on SCR402 and SCR401. At that time, a voltage of about 13V is supplied to the voltage variation detection circuit of the secondary to start operation.

And the start circuit operates quickly as the power voltage is low.

SOFT START CIRCUIT

Just after the power SW is turned on, the voltage variation detector circuit detects that the power voltage is very low. Then it is fed back to the primary control circuit via TLP508 so as to increase the power application phase angle.

However, if the phase angle increases abruptly, a very large rush current flows to TRIAC (SCR401).

To prevent this, a soft start circuit consisting of TR402, D404, C407 and R416 is provided so that the power application phase angle is increased gradually. Because this circuit gives a bias applied to TR402 with charge time of C407 and R416, the current flowing to TR402 gradually increases. Therefore, the current flowing to Photo Coupler TLP508 varies in the same way to increase the power application phase angle gradually. VR401 is for adjustment of  $\pm B$ , and VR402 for adjustment of the current flowing to TLP508.

## ADJUSTMENTS

### AC line voltages under adjustments

Models	AC line voltage	Frequency
US	120V $\pm$ 10%	60 Hz
North European	220V $\pm$ 10%	50 Hz

STEP	ADJUSTMENT ITEM	ADJUSTMENT	TEST POINT	RATING OR STANDARD	REMARKS
1	DC offset (Lch)	Pre-drive P.C. board VR301	Main P.C. board TP1 ~ TP2	0 $\pm$ 5 mV	After the power switch is ON, wait 3 minutes before adjustment.
2	DC offset (Rch)	Pre-drive P.C. board VR302	Main P.C. board TP1 ~ TP4	0 $\pm$ 5 mV	
3	Idling current (Lch)	Main P.C. board VR101	Main P.C. board TP2(+) ~ TP3 (-)	2.5 $\pm$ 0.5 mV	<ul style="list-style-type: none"> <li>• No Load</li> <li>• Rotate VR101 and 102 to the left and after the power switch is ON, wait 5 minutes before adjustment.</li> <li>• Max 40mV under warming up.</li> </ul>
4	Idling current (Rch)	Main P.C. board VR102	Main P.C. board TP4(+) ~ TP5(-)	2.5 $\pm$ 0.5 mV	
5	Power supply voltage	Power supply P.C. board VR401	Main P.C. board TP1(E) ~ TP11	76.0 $\pm$ 0.2 V	No Load
6	Photo coupler working point	Power supply P.C. board VR402	Power supply TP1 ~ TP2	60 $\pm$ 10 mV	Adjust the moment you adjust step 5.

\* Adjust step 5 and 6 at the same time as you use the two digital multi-meters.

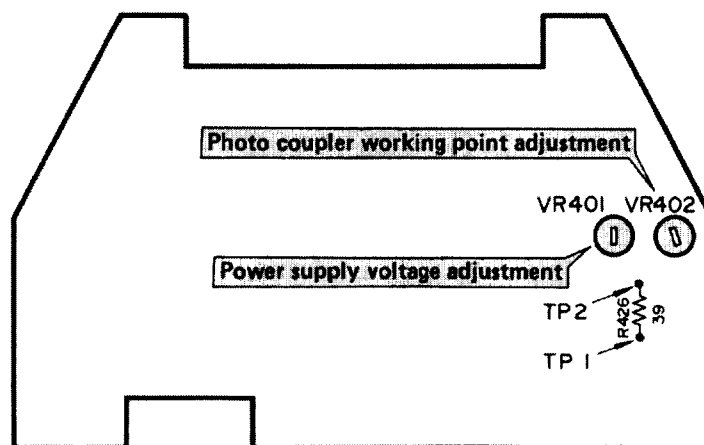
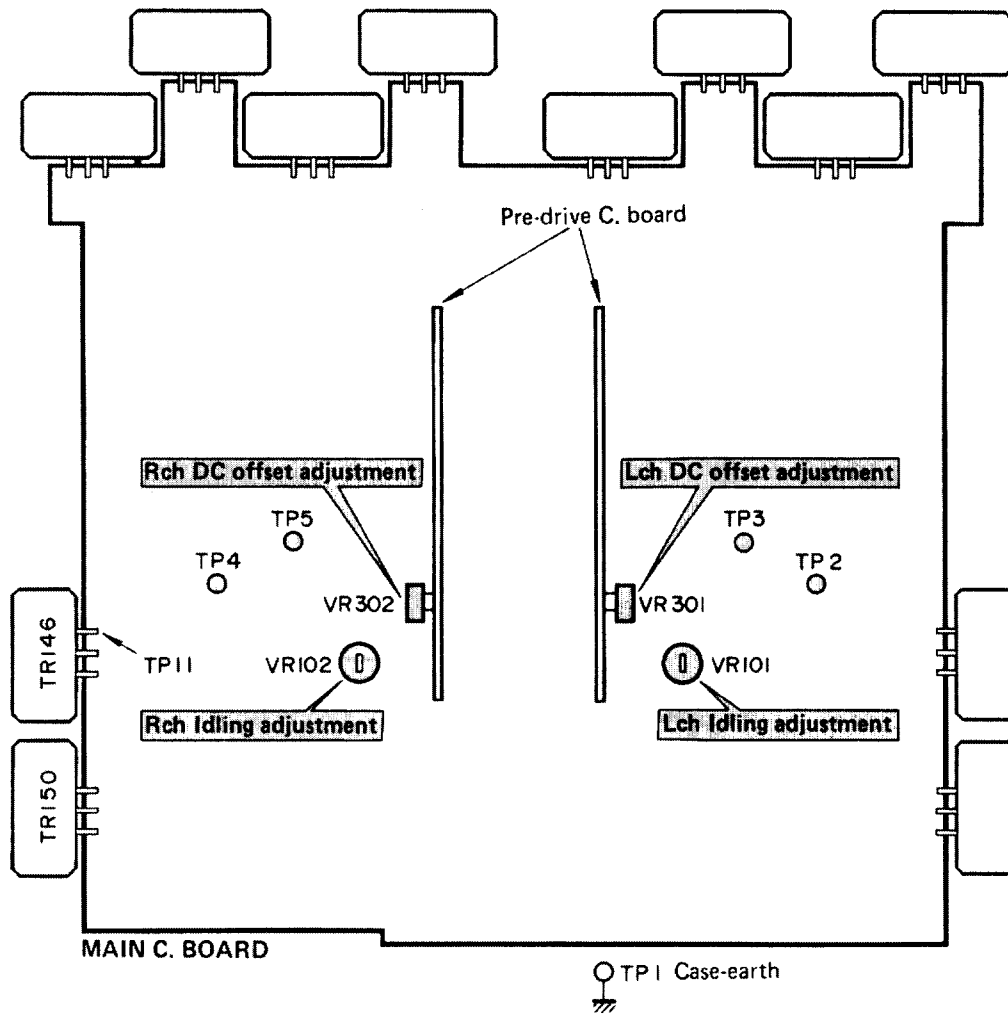
\* Adjust step 6 only when exchanging the photo-coupler.

\* Remove the Top case when adjusting but adjust in a short time when full power Drive is needed, because the top case unit is serves as a heat sink.

#### • Cautions (Power supply P.C. board adjustment)

- 1) Be careful not to receive an electric shock because AC line voltage is feeded to power supply P.C. board directly.
- 2) Make sure that the voltage is checked between the check point and the standard point.
- 3) Make sure that you use the floating input type oscilloscope for observing the waveform.  
By using body-earthed oscilloscope the circuit may be shorted. As the AC line voltage is feeded to the body, do not touch it.
- 4) Observe the waveform across R411 (390 $\Omega$  2P) (U.S Model) R413 (390 $\Omega$  2P) (N. European Model) to check the triac.

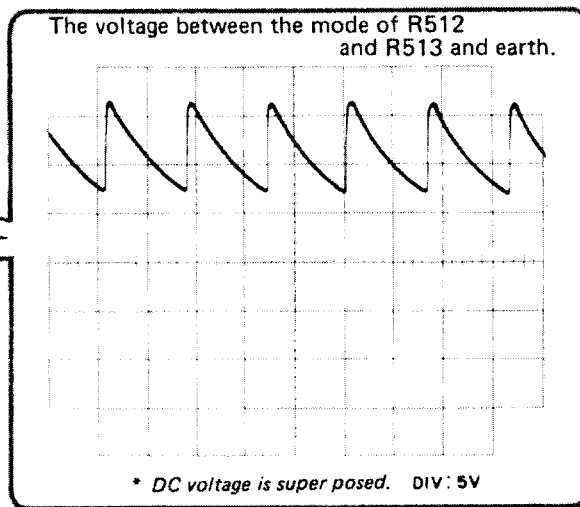
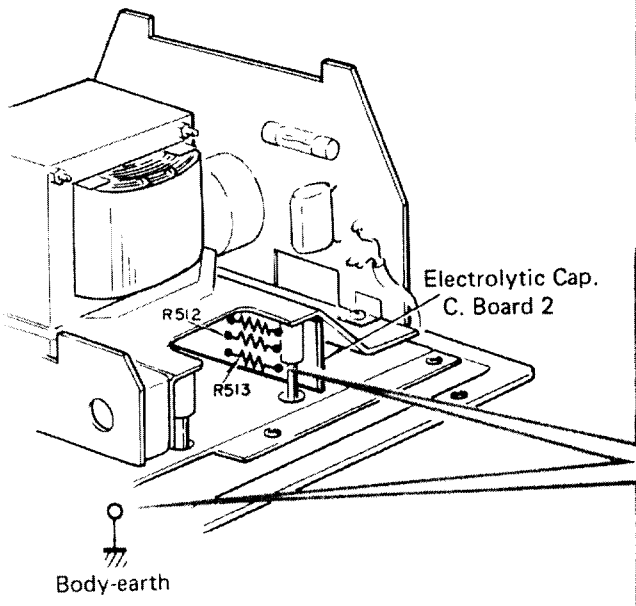
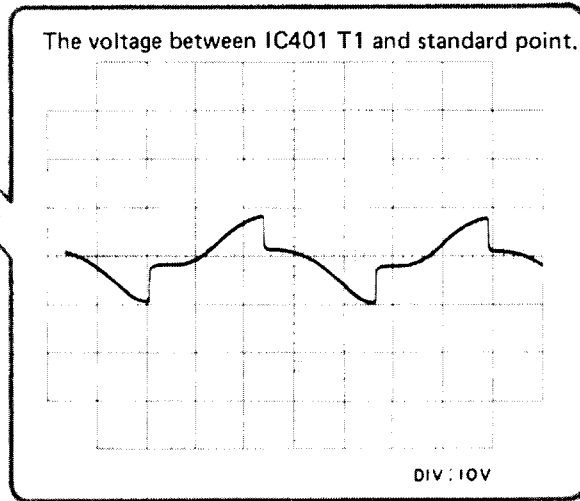
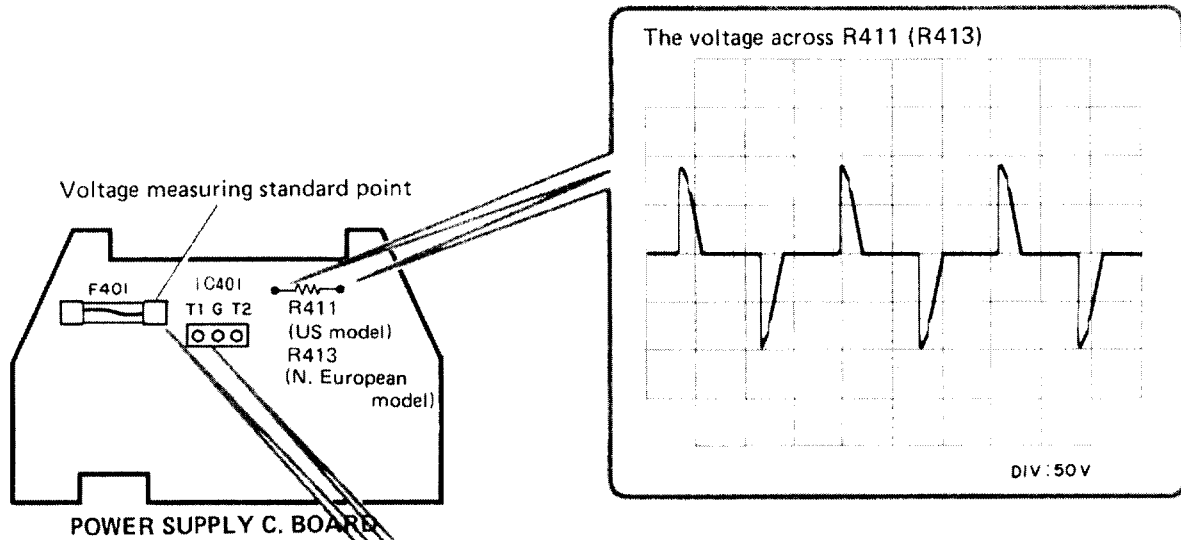
# I. Adjustment Test point

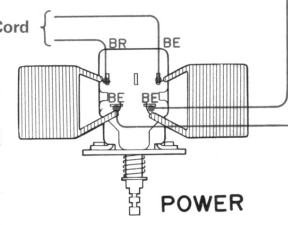
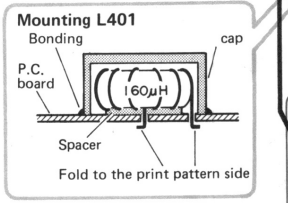
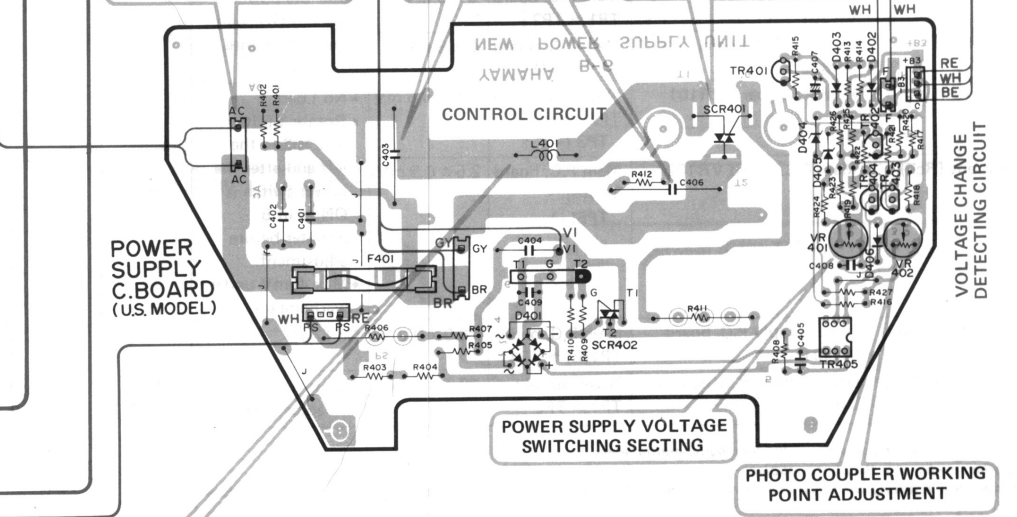
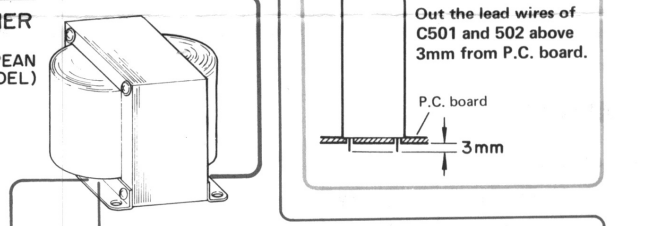
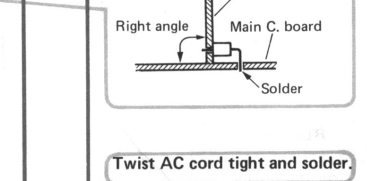
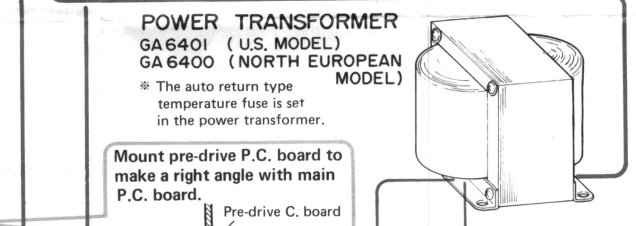
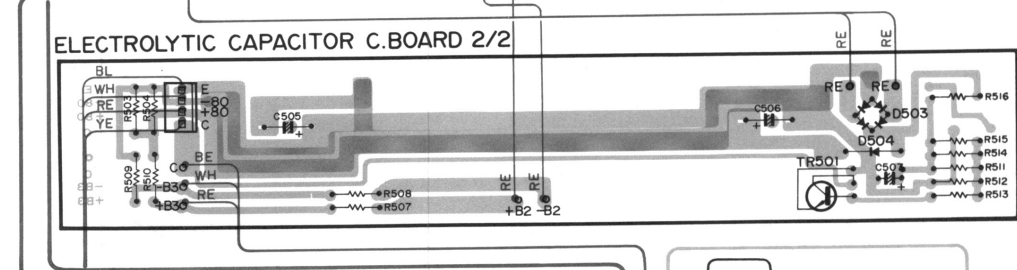
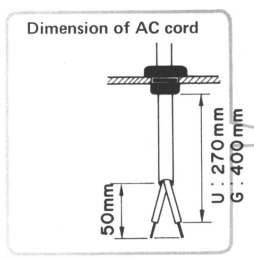
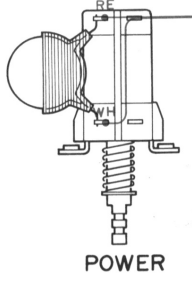
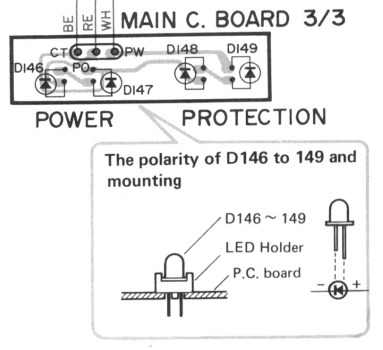
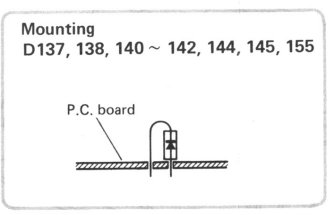
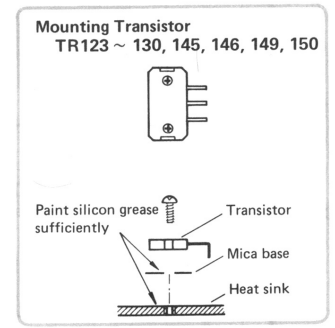
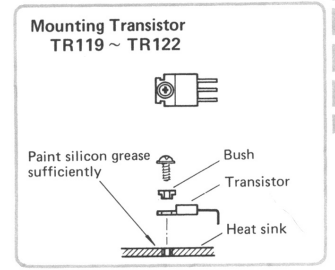
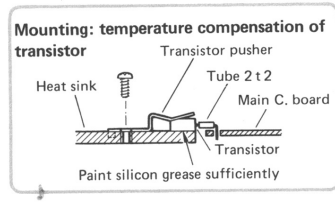
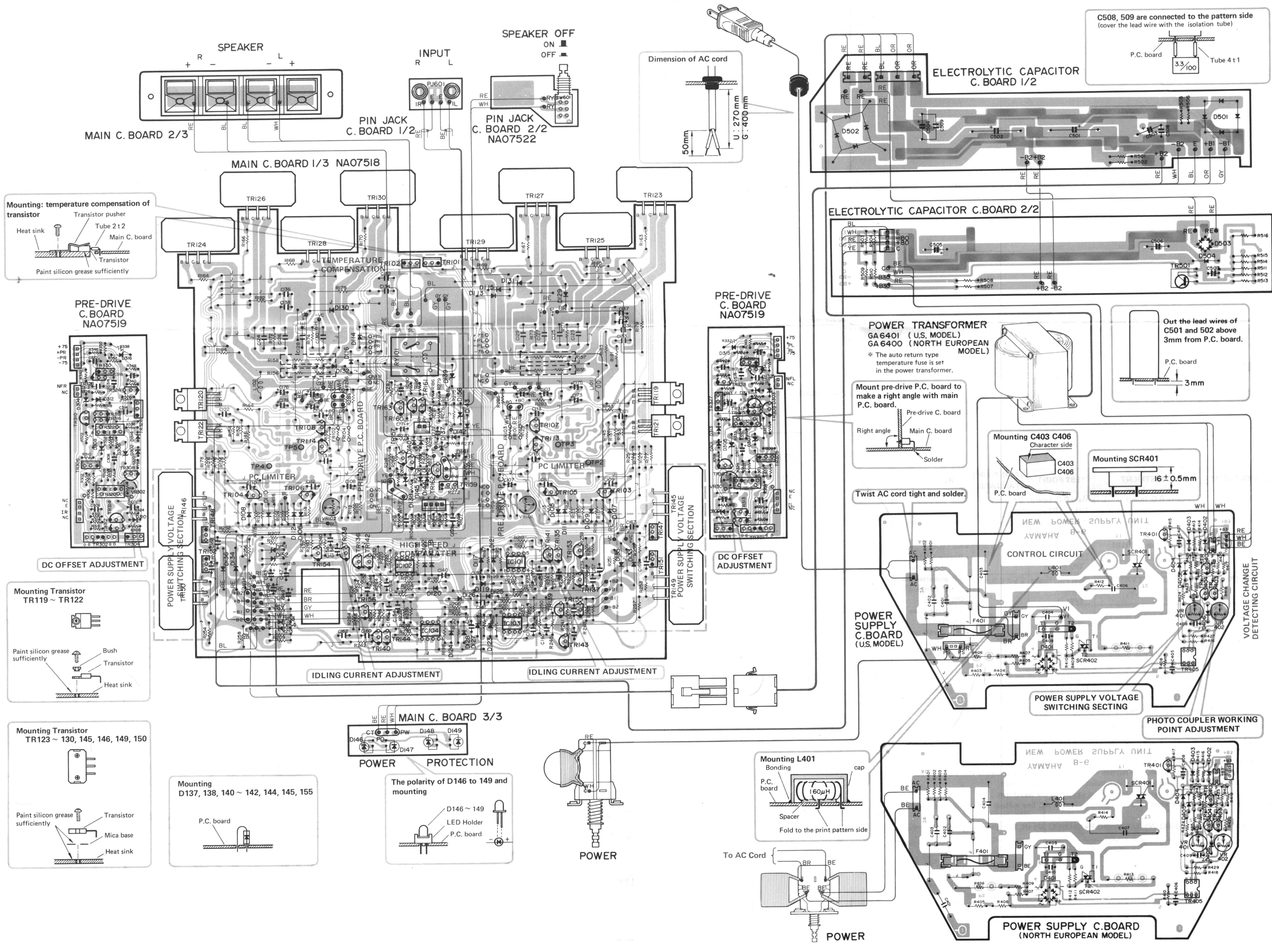


POWER SUPPLY C. BOARD  
(print pattern side)

- \* You can adjust easily to solder the lead wires (about 1cm) to TP1, and TP2.
- \* VR401 and 402 are able to adjust at print pattern side.

## II. Waveform Check point

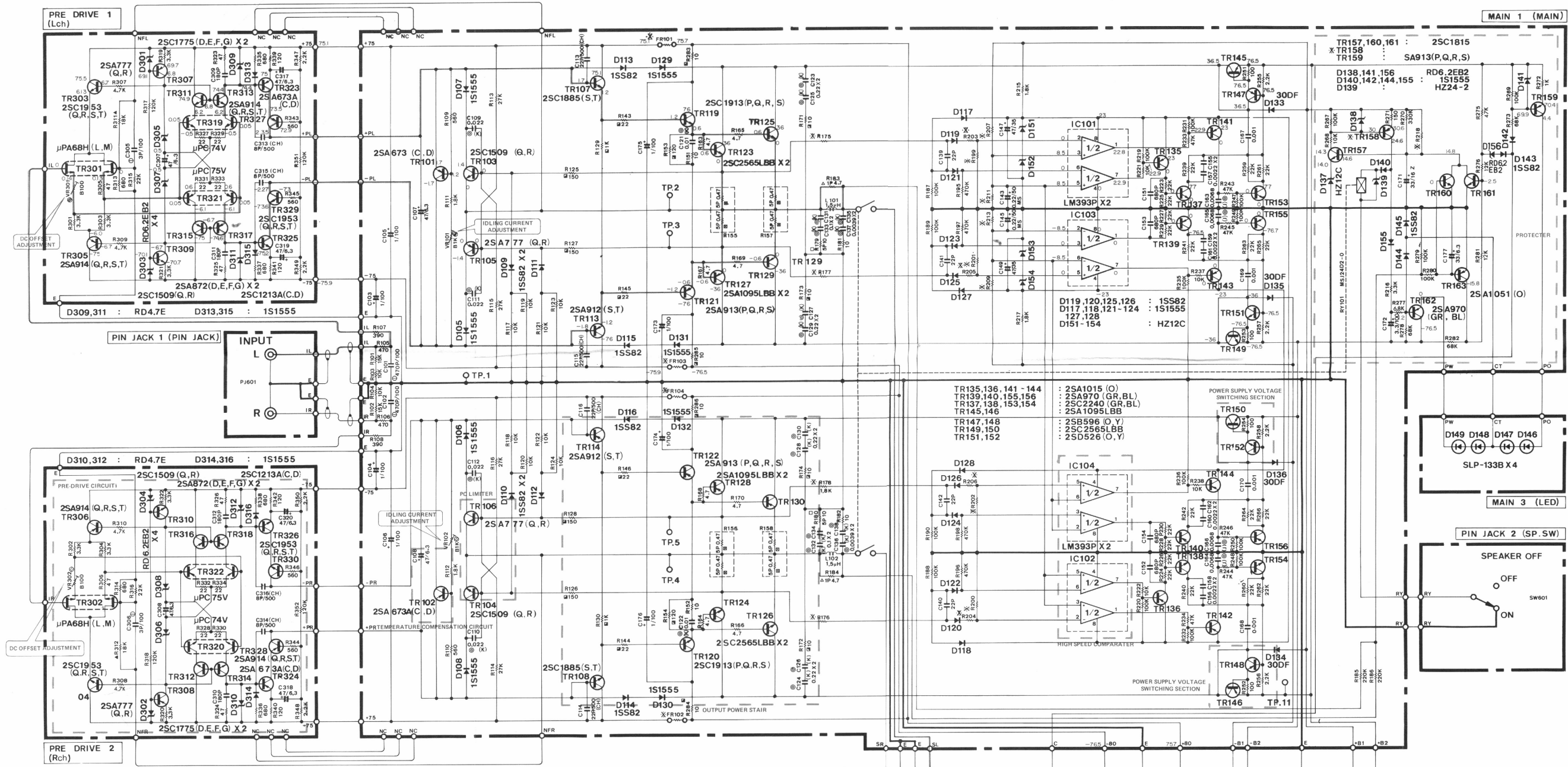




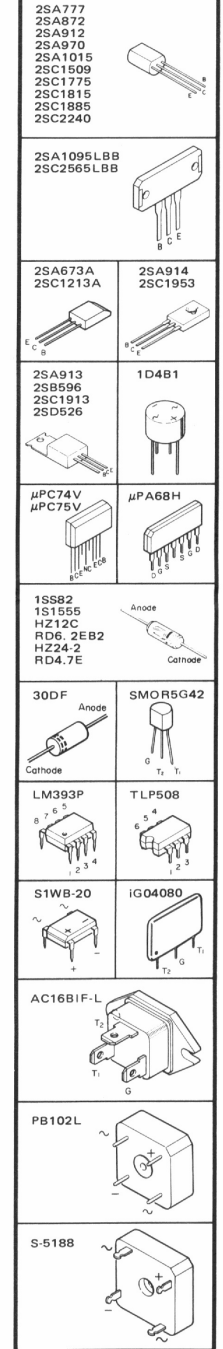
\* Wiring Diagram is subject to change without notice.



# SCHEMATIC DIAGRAM



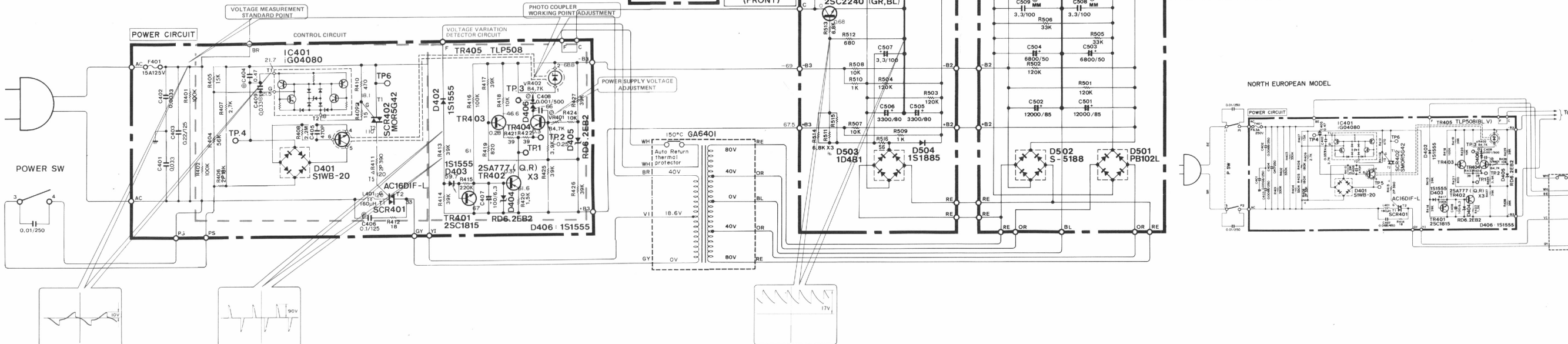
PIN-CONNECTION DIAGRAM



MODEL	J, G	U
R175 - 178	1.8k(1)	2.2k(1)
R188 - 202	10k(1)	10k(1)
R203 - 206	22k(1)	2.2k(1)
R207, 208	33k(1)	33k(1)
FR101 - 104	100mA(2)	100mA(10)
R218	1M(1)	2.2k(1)
TR158	2SA777 (Q,R)	2SA914 (O,Y)

REMARKS	PARTS
NO MARK	CARBON RESISTOR
⊙	SEMI VARIABLE RESISTOR
△	METAL OXIDE FILM RESISTOR
⊠	FIRE PROOF CARBON RESISTOR
□	METAL PLATE RESISTOR
▢	CEMENT MOLDED RESISTOR
▲	METALIZED FILM RESISTOR

REMARKS	PARTS
NO MARK	CERAMIC CAPACITOR
⊙	MICA CAPACITOR
⊖	MYLAR CAPACITOR



- 1) Measure the voltage of power supply P. C. Board between test points and Voltage measurement standard point.
- 2) When observing the waveform of power supply P. C. Board, make sure that you don't touch the body of the oscilloscope, because of receiving an electric shock and you don't have a body-earth.
- 3) Triac is active when you observe the waveform of R413 (2.2kΩ 3P) in the circuit.

\* The voltages are measured by the digital multimeter having internal resistance 1MΩ.  
 \* Given above is the voltage measured with the U.S. model.  
 \* Schematic Diagram is subject to change without.

# PARTS LIST

## B-6

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SINCE 1887



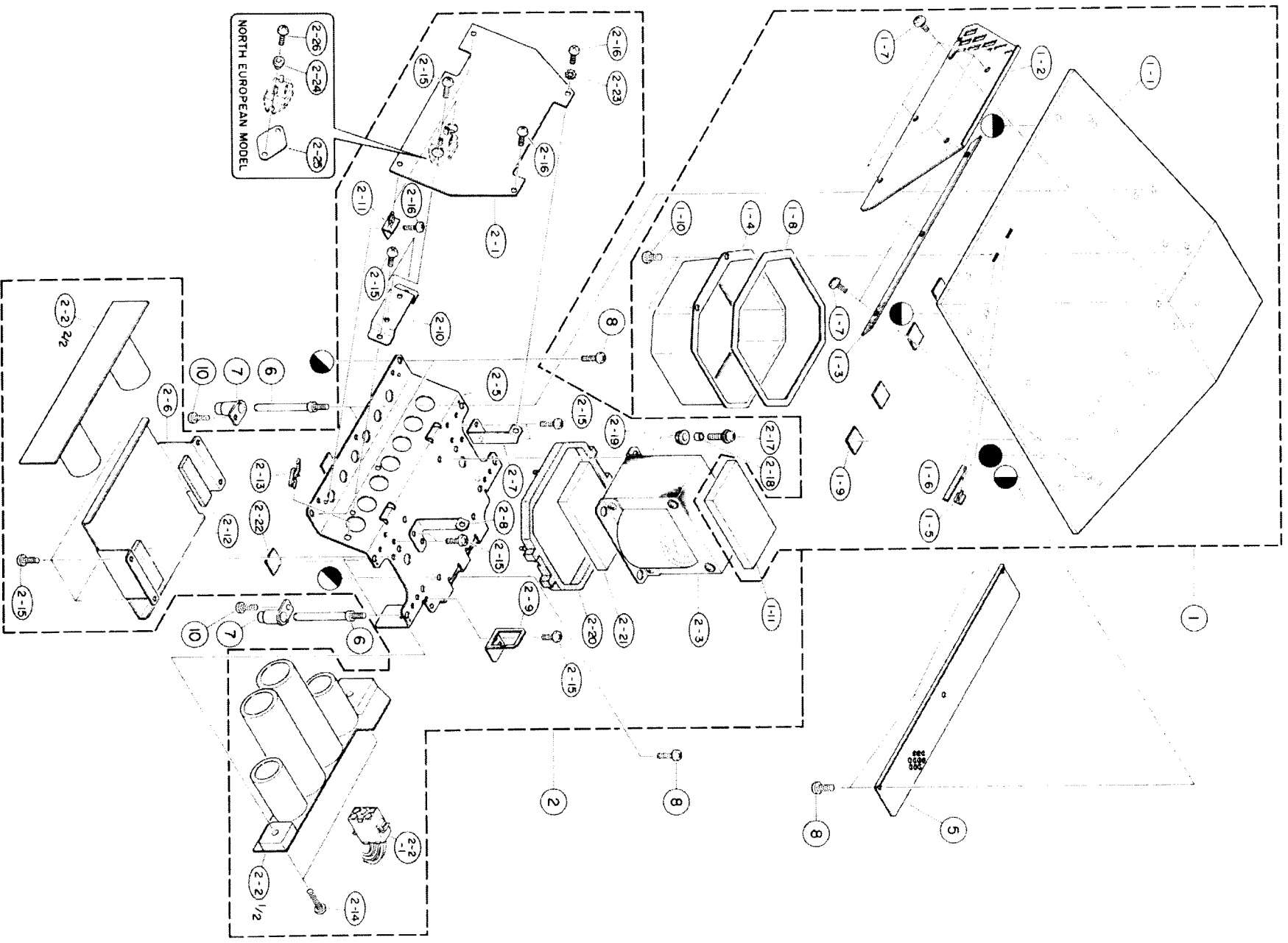
**YAMAHA**

NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN

004416



EXPLODED VIEW (TOP VIEW)



## PARTS LIST

U: U.S.A  
G: North European  
J: Japanese

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
* 1	32,00,00/NB,09,78,60	Top Case Unit	トップケースユニット			
* 1-1	32,00,00/BA,07,91,60	Top Case	トップケース			
* 1-2	32,00,00/AA,60,33,00	Case Cover (L)	ケースカバー(L)			
* 1-3	32,00,00/AA,60,33,10	Case Cover (S)	ケースカバー(S)			
* 1-4	32,00,00/BA,07,96,20	Trans Case	トランスケース			
* 1-5	32,00,00/CB,09,95,50	Lamp Lens	ランプレンズ			
* 1-6	42,00,00/CB,08,52,10	Dumper 7 x 45 x t1.52 mm	メーターランプ(A)		T-2	
* 1-7	42,00,00/EK,97,00,20	Pan Head Tap-Type Screw (B-Type) 2.6x4 (ZMC2-B)	メーターランプ(B)			
* 1-8	42,00,00/CB,60,02,10	Packing	ケースパッキン			
* 1-9	42,00,00/CA,07,06,20	Isolation Fiber	絶縁ファイバー			
* 1-10	42,00,00/EK,39,50,20	Bird Head Tap-Type Screw (B-Type) 4x8 (ZMC2-B)	ヘッドタップタイプねじ(B)			
* 1-11	42,00,00/NB,09,80,20	Silicon Grease Pack	シリコングリスパック			
* 2	32,00,00/NB,09,78,70	Power Supply Unit	電源ユニット			J
* 2	32,00,00/NB,09,91,70	"	"			U
* 2	32,00,00/NB,09,91,80	"	"			G
* 2-1	32,00,00/NA,07,52,00	Power Supply C. Board	電源シート			J
* 2-1	32,00,00/NA,07,55,60	"	"			U
* 2-1	32,00,00/NA,07,55,70	"	"			G
* 2-2	32,00,00/NA,07,52,10	Electrolytic Cap. C. Board	ケミコンシート			J, G
* 2-2	32,00,00/NA,07,55,00	"	"			U
* 2-2-1	42,00,00/NB,09,79,00	Receptacle (male)	レセプタクル			J
* 2-3	42,00,00/GA,64,00,00	Power Transformer	電源トランス			G
* 2-3	42,00,00/GA,64,01,00	"	"			U
* 2-5	32,00,00/AA,60,32,10	Holder, Power Transformer	トランスホルダー			
* 2-6	32,00,00/AA,60,32,30	Holder, Electrolytic Cap.	ケミコンホルダー			
* 2-7	32,00,00/AA,60,32,50	C. Board Stay (L)	シートスライ(L)			
* 2-8	32,00,00/AA,60,33,90	" (R)	" (R)			
* 2-9	32,00,00/AA,60,32,90	Metal Fittings, Connector	コネクタ-金具			
* 2-10	32,00,00/BA,07,93,00	Holder, Triac	トライアックホルダー			
* 2-11	32,00,00/CB,09,95,40	P.C.B. Hinge (B-Type)	P.C.B.ヒンジ(Bタイプ)			
* 2-12	32,00,00/CB,09,96,30	Anti-Vibration Rubber	防振ゴム			
* 2-13	42,00,00/CB,06,94,80	Wire Clip	ワイヤクリップ			
* 2-14	42,00,00/EN,33,01,00	Bird Head Tapping Screw (Type-I) 3x16 (FCM3-B)	ヘッドタップタイプねじ(Ⅰ)			
* 2-15	42,00,00/EN,33,00,10	" 3x8 (FCM3-B)	"			
* 2-16	42,00,00/EK,33,60,20	B.W Head Tapping Screw (Type-II) 8 3x6 (FCM3-B)	B.Wヘッドタップタイプねじ(Ⅱ)			
* 2-17	42,00,00/EH,04,01,20	Pan Head Screw (Sems Type) 4 x 12 (ZMC2-Y)	パンヘッドねじ(スリ-ビス)			
* 2-18	32,00,00/BA,07,96,30	Collar	カラ			
* 2-19	32,00,00/CB,09,99,10	Cushion Rubber	防振ゴム			
* 2-20	32,00,00/CB,60,02,00	"	"			
* 2-21	42,00,00/NB,09,80,20	Silicon Grease Pack	シリコングリスパック			
* 2-22	42,00,00/CA,07,06,20	Isolation Fiber	絶縁ファイバー			
* 2-23	42,00,00/EV,42,00,30	Toothed Locked Washer 3S (ZMC2-Y)	鉄外歯形鎖付座金			
* 2-24	32,00,00/CB,60,15,80	Isolation Bush	絶縁ワッシユ			G
* 2-25	42,00,00/CB,60,15,90	Triac Base	トライアックベース			G
* 2-26	42,00,00/EN,03,00,50	Bird Head Tapping Screw (Type-II) 3x12 (ZMC2-Y)	ヘッドタップタイプねじ(Ⅱ)			G
* 3	32,00,00/NB,09,78,80	Bottom Unit	ボトムユニット			J
* 3	32,00,00/NB,09,91,90	"	"			U
* 3	32,00,00/NB,09,87,00	"	"			G
* 3-1	32,00,00/NB,09,78,90	Main C. Board Unit	メインシートユニット			J, G
* 3-1	32,00,00/NB,09,92,10	"	"			U
* 3-1-1	32,00,00/NA,07,51,80	Main C. Board	メインシート			J, G
* 3-1-1	32,00,00/NA,07,54,90	"	"			U
* 3-1-2	32,00,00/NA,07,51,90	Pre-Drive C. Board	プリドライブシート			U

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
3-1-3	42 00 00 L 00 05 10	Mica Base AC243	マイカベース			
3-1-4	32 00 00 BA 07 92 70	Heat Sink	放 熱 板			
3-1-5	32 00 00 BA 07 92 90	Sub Heat Sink	サブ放熱板			
3-1-6	32 00 00 BB 06 90 50	Transistor Pusher	トランジスタ押え			
3-1-7	32 00 00 BB 06 90 80	Shield Plate	シールドプレート			
3-1-8	32 00 00 BB 06 90 90	Shield Cover	シールドカバー			
3-1-9	32 00 00 CB 07 28 80	Isolation Bush	絶縁ワッシユ			
3-1-10	42 00 00 ED 33 00 50	Bind Head Screw 3 x 5 (FCM3-BE)	鉄バインツ小ネジ			
3-1-11	42 00 00 EA 12 60 80	Pan Head Screw 2.6 x 8 (FNM3-3g)	鉄ナベ小ネジ			
3-1-12	42 00 00 EA 13 00 80	" 3 x 8 ( " )	"			
3-2	32 00 00 NA 07 52 20	Pin Jack C. Board	ピンジャックシート			
3-3	32 00 00 MZ 07 89 90	Connector Assy (Power Switch)	ハワ-SWコネクタ- Assy			J
3-3	32 00 00 MZ 07 96 10	"	"			U
3-3	32 00 00 MZ 07 95 90	"	"			G
3-3-1	42 00 00 BB 00 44 30	Connect Pin (2.5 Pitch) SHF-001T-08CS	2.5ピッチコネクタピン			
3-3-2	42 00 00 LB 40 05 60	Housing (2.5 Pitch) H4P-SHF	2.5ピッチハウジング			J,U
3-4	42 00 00 KA 80 10 70	Push Switch (Power Switch) SDV-2P	ワッシユ S W			
3-4	42 00 00 KA 80 06 90	" SDG-5PE	"			G
3-5	42 00 00 FI 16 41 00	Ceramic Cap. 150 VAC 0.01 $\mu$ F	セラミックコンデンサー			J
3-5	42 00 00 FI 34 41 00	" MY 0.01 $\mu$ F	"			U
3-5	42 00 00 FR 16 41 00	Metallized Paper Cap. 250VAC 0.01 $\mu$ F	M P コンデンサー			G
3-6	42 00 00 CB 60 08 10	Cover (For Cap.) HY-0102	コンデンサカバー半丸形			J,U
3-6	42 00 00 CB 07 21 90	" SB-0632-B	コンデンサカバー角形			G
3-7	32 00 00 AA 60 32 60	Switch Holder	スイッチホルダー			
3-8	42 00 00 ED 33 00 50	Bind Head Screw 3 x 5 (FCM3-BE)	鉄バインツ小ネジ			J
3-9	42 00 00 CB 80 68 50	Cord Stopper SR-6N3-4	コードストッパー			J
3-9	42 00 00 CB 07 27 50	" SR-4N-4	"			U,G
3-10	42 00 00 MG 00 06 90	Power Cord 2.2m 15A 125V	電 源 コ ー ド			J
3-10	42 00 00 MG 00 08 90	" 2m 13A 125V	"			U
3-10	42 00 00 MG 00 09 10	" 2m 6A 250V	"			G
3-11	32 00 00 BA 07 91 70	Bottom Case	ボトムケース			J
3-11	32 00 00 BA 07 92 50	"	"			U,G
3-12	32 00 00 AA 60 32 70	LED Stay	L E D ス テ イ			
3-13	32 00 00 AA 60 32 80	Jack Holder	ジャックホルダー			
3-14	32 00 00 AA 60 10 20	Pin Jack Holder	ピンジャックホルダー			
3-15	42 00 00 CB 06 88 80	Plastic Rivet	プラスチックリベット			
3-16	32 00 00 NB 08 46 40	Push Button Assy (P)	ワッシユボタンAssy(P)		T-2	
3-17	32 00 00 NB 09 39 30	Push Button Assy	ワッシユボタンAssy		CR-640	
3-18	42 00 00 CC 03 60 40	Pad (Leg) $\phi$ 15 x t3	トランレット(パッド)			
3-19	42 00 00 CA 07 05 60	Spacer (P) (6.5 x 11.5) $\square$ 17 x t1.4	スパーサー (P)			
3-20	42 00 00 ED 33 01 00	Bind Head Screw 3 x 10 (FCM3-BE)	鉄バインツ小ネジ			
3-21	42 00 00 EK 95 00 60	Bind Head Tap-Tyre Screw (B-Tyre) 4x8(ZMC2-8E)	鉄バインツワッペンネジ			
3-22	42 00 00 EN 33 00 10	Bind Head Tapping Screw (Type II) 3x8(FCM3-8E)	鉄バインツワッペンネジ			
3-23	42 00 00 EV 42 04 00	Toothed Locked Washer 4S (ZMC2-Y)	鉄外歯形歯付座金			
3-24	32 00 00 NB 08 14 80	Terminal Unit	ターミナルユニット			
3-25	32 00 00 AA 09 57 20	Bonding Nut	ボンディングナット			
3-26	32 00 00 CB 07 81 70	Saucer	受皿			
3-27	42 00 00 EV 90 13 60	Flat Washer (Sems-Type) $\phi$ 3.6x $\phi$ 10x10.8(FNM3-3g)	鉄セムス平座金			
4	32 00 00 AA 60 32 20	Bottom Cover	ボトムカバー			J
4	32 00 00 AA 60 33 40	"	"			U
4	32 00 00 AA 60 33 50	"	"			G
5	32 00 00 AA 60 32 40	Transistor Cover	トランジスタカバー			
6	32 00 00 AA 60 33 70	Screw	止めネジ			

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markers
7	32,00,00 CB,09,95,60	Guide Bush	ガイドブッシュ			
8	42,00,00 EK,95,00,60	Bind Head Tap-Tyre Screw(B-Tyre)4x8(ZMC2.8)	ボルトのナット(Bナット)			
9	42,00,00 EK,96,60,70	B.W Head Tap-Tyre Screw(B-Tyre)4x8(φ10) ( " )	B.Wのナット(Bナット)			
10	42,00,00 EN,33,00,10	Bind Head Tapping Screw (Type II)3x8(F)CM3.8)	ボルトのナット(2種ミソ)			
*	32,00,00 MZ,07,89,40	Connector (Female) Ass'y (Electrolytic Cap. C. Board)	ケミコンネクター-Ass'y			
*	32,00,00 MZ,07,89,80	" (Female) (Pin Jack C. Board)	ピンジャックコネクター-Ass'y			



## PARTS LIST (ELECTRICITY)

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
	32 00 00 NA 07 51 80	Main C. Board	メ イ ン ボ ー ド			J, G
	32 00 00 NA 07 54 90	"	"			U
C101, 102	42 00 00 FU 35 24 70	Mica Cap.	マ イ カ コ ン			
C103~106	42 00 00 UW 69 61 00	Electrolytic Cap.	ケ ミ コ ン			
C107, 108	42 00 00 UW 81 74 70	"	"			
C109~112	42 00 00 FA 11 42 20	Mylar Cap.	マ イ ラ ー コ ン			
C113~116	42 00 00 FH 61 12 20	Ceramic Cap.	セ ラ コ ン			
C121, 122	42 00 00 FA 11 41 00	Mylar Cap.	マ イ ラ ー コ ン			
C123~130	42 00 00 FA 11 52 20	"	"			
C131~134	42 00 00 FA 15 51 00	"	"			
C135~138	42 00 00 FA 11 33 90	"	"			
C139~142	42 00 00 FG 51 12 20	Ceramic Cap.	セ ラ コ ン			
C143	42 00 00 FZ 00 02 30	Electrolytic Cap.	ケ ミ コ ン			
C145	42 00 00 FZ 00 02 30	"	"			
C147	42 00 00 UW 85 74 70	"	"			
C149	42 00 00 UW 85 74 70	"	"			
C151~154	42 00 00 FG 51 26 80	Ceramic Cap.	セ ラ コ ン			
C155~162	42 00 00 FG 51 32 20	"	"			
C163~166	42 00 00 FA 15 36 80	Mylar Cap.	マ イ ラ ー コ ン			
C167~170	42 00 00 FG 51 31 00	Ceramic Cap.	セ ラ コ ン			
C171	42 00 00 FM 39 73 30	Electrolytic Cap.	ケ ミ コ ン			
C172	42 00 00 UW 69 63 30	"	"			
C173~176	42 00 00 UW 69 61 00	"	"			
C177	42 00 00 UW 81 73 30	"	"			
L101, 102	42 00 00 GD 90 03 70	Coil	コ イ ル			
R101, 102	42 00 00 HN 75 71 50	Carbon Resistor	カーボン抵抗			
R103, 104	42 00 00 HN 75 71 00	"	"			
R105, 106	42 00 00 HN 75 54 70	"	"			
R107, 108	42 00 00 HN 75 53 90	"	"			
R109, 110	42 00 00 HK 35 55 60	"	"			
R111, 112	42 00 00 HK 35 61 80	"	"			
R113~116	42 00 00 HK 35 72 70	"	"			
R117~124	42 00 00 HK 35 71 00	"	"			
R125~128	42 00 00 HV 35 51 50	Flame Proof Resistor	不燃化カーボン抵抗			
R129, 130	42 00 00 HV 35 61 00	"	"			
R143~146	42 00 00 HV 35 42 20	"	"			
R151, 152	42 00 00 HK 35 41 00	Carbon Resistor	カーボン抵抗			
R153, 154	42 00 00 HV 35 51 20	Flame Proof Resistor	不燃化カーボン抵抗			
R155~158	42 00 00 HZ 00 16 50	Dual Metal Plate Resistor	デュアル金属板抵抗			
R163~170	42 00 00 HK 35 34 70	Carbon Resistor	カーボン抵抗			
R171~174	42 00 00 HV 35 41 00	Flame Proof Resistor	不燃化カーボン抵抗			
R175~178	42 00 00 HK 35 61 80	Carbon Resistor	カーボン抵抗			J, G
"	42 00 00 HK 35 62 20	"	"			U
"	42 00 00 HK 35 61 80	"	"			
R179, 180	42 00 00 HM 75 41 00	Cement Molded Resistor	セメント抵抗			
R181, 182	42 00 00 HK 35 41 00	Carbon Resistor	カーボン抵抗			
R183, 184	42 00 00 HL 81 34 70	Metal Oxide Film Resistor	酸金抵抗			
R185, 186	42 00 00 HN 75 82 20	Carbon Resistor	カーボン抵抗			
R187~190	42 00 00 HK 35 81 00	"	"			
R195~198	42 00 00 HK 35 84 70	"	"			
R199~202	42 00 00 HK 35 71 00	"	"			J, G
"	42 00 00 HU 57 71 00	Metal Film Resistor	金属膜抵抗			U
R203~206	42 00 00 HK 35 72 20	Carbon Resistor	カーボン抵抗			J, G



Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
R209~206	42,00,00 HU 57,73,20	Metal Film Resistor 10kΩ	金属薄膜抵抗			U
R207, 209	42,00,00 HK 35,73,30	Carbon Resistor 33kΩ	カーボン抵抗			J, G
"	42,00,00 HU 57,73,30	Metal Film Resistor 33kΩ	金属薄膜抵抗			U
R211, 213	42,00,00 HK 35,71,00	Carbon Resistor 10kΩ	カーボン抵抗			J, G
"	42,00,00 HU 57,71,00	Metal Film Resistor 10kΩ	金属薄膜抵抗			U
R215	42,00,00 HK 35,61,80	Carbon Resistor 1.8kΩ	カーボン抵抗			
R216	42,00,00 HN 75,63,30	" 3.3kΩ	"			
R217	42,00,00 HK 35,61,80	" 1.8kΩ	"			
R218	42,00,00 HK 35,91,00	" 1MΩ	"			J, G
"	42,00,00 HK 35,92,20	" 2.2MΩ	"			U
R219, 220	42,00,00 HK 35,81,00	" 100kΩ	"			
R221, 222	42,00,00 HK 35,71,00	" 10kΩ	"			
R223~230	42,00,00 HK 35,72,20	" 22kΩ	"			
R231, 232	42,00,00 HK 35,81,00	" 100kΩ	"			
R233, 234	42,00,00 HK 35,74,70	" 47kΩ	"			
R235, 236	42,00,00 HK 35,81,00	" 100kΩ	"			
R237, 238	42,00,00 HK 35,71,00	" 10kΩ	"			
R239~242	42,00,00 HK 35,72,20	" 22kΩ	"			
R243~246	42,00,00 HK 35,74,70	" 47kΩ	"			
R247~250	42,00,00 HK 35,81,00	" 100kΩ	"			
R251~254	42,00,00 HK 35,51,00	" 100Ω	"			
R255~258	42,00,00 HK 35,62,20	" 2.2kΩ	"			
R259~266	42,00,00 HK 35,72,20	" 22kΩ	"			
R267	42,00,00 HN 75,81,00	" 100kΩ	"			
R268	42,00,00 HK 35,71,00	" 10kΩ	"			
R269	42,00,00 HK 35,81,00	" 100kΩ	"			
R270	42,00,00 HN 75,83,30	" 330kΩ	"			
R271	42,00,00 HN 75,51,50	" 150Ω	"			
R272	42,00,00 HK 35,61,00	" 1kΩ	"			
R273	42,00,00 HN 75,76,80	" 68kΩ	"			
R275	42,00,00 HK 35,74,70	" 47kΩ	"			
R276	42,00,00 HN 75,71,20	" 12kΩ	"			
R277	42,00,00 HN 75,66,80	" 6.8kΩ	"			
R278	42,00,00 HN 75,76,80	" 68kΩ	"			
R279, 280	42,00,00 HN 75,81,00	" 100kΩ	"			
R281	42,00,00 HN 75,71,20	" 12kΩ	"			
R282	42,00,00 HK 35,76,80	" 68kΩ	"			
R283~286	42,00,00 HV 35,41,00	Flame Proof Resistor 10Ω	不燃化カーボン抵抗			
VR101 VR102	42,00,00 HT 57,03,60	Metal Gazed Semi Variable Resistor 81kΩ	メタルグレーズポリウム			
FR101~ FR104	42,00,00 HW 99,42,20	Fuse Resistor 110 mA 22Ω	ヒューズ抵抗			J, G
"	42,00,00 HW 99,41,00	" 160 mA 10Ω	"			U
TR101	42,00,00 A 06,73,10	Transistor 2SA673A (C, D)	トランジスタ			
TR103	42,00,00 A 07,77,30	" 2SA777 (Q, R) 2SC1509 (Q, R)	"			
TR104	42,00,00 C 13,08,30	" 2SA777	"			
TR105	42,00,00 A 107,77,30	" 2SA777	"			
TR106	42,00,00 C 13,08,30	" 2SC1509	"			
TR108	42,00,00 C 18,85,00	" 2SC1885 (S, T)	"			
TR119~	42,00,00 A 09,113,00	" 2SA913(P, Q, R, S), 2SC1913(P, Q, R, S)	"			
TR122	42,00,00 C 19,113,00	"	"			
TR123~	42,00,00 A 110,65,00	" 2SA1095, 2SC2565	"			
TR130	42,00,00 C 25,65,00	" 2SA1015 (O)	"			
TR136	42,00,00 A 110,15,10	" 2SA1015 (O)	"			
TR137	42,00,00 C 22,40,00	" 2SC2240 (GR, BL)	"			
TR138	42,00,00 C 22,40,00	" 2SA970 (GR, BL)	"			
TR139	42,00,00 A 09,70,00	" 2SA970 (GR, BL)	"			
TR140	42,00,00 A 110,15,10	" 2SA1015	"			
TR141~	42,00,00 A 110,15,10	" 2SA1015	"			
TR144	42,00,00 A 110,15,10	" 2SA1015	"			
TR145	42,00,00 A 110,15,10	" 2SA1015	"			
TR146	42,00,00 C 25,65,00	" 2SA1095, 2SC2565	"			
TR147	42,00,00 C 25,65,00	" 2SB596 (O, Y) 2SD526 (O, Y)	"			
TR148	42,00,00 B 105,85,30	" 2SB596 (O, Y) 2SD526 (O, Y)	"			
TR149	42,00,00 A 110,65,00	" 2SA1095, 2SC2565	"			
TR150	42,00,00 C 25,65,00	" 2SA1095, 2SC2565	"			

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
TR151	42,00,00	Transistor 2SB596 (O, Y), 2SD526 (O, Y)	ト ラ ン ジ ス タ			
TR152	42,00,00	"	"			
TR153	42,00,00	2SC2240 (GR, BL)	"			
TR154	42,00,00	2SA970 (GR, BL)	"			
TR155	42,00,00	"	"			
TR157	42,00,00	2SC1815	"			
TR158	42,00,00	2SA777 (Q, R)	"			J, G
"	42,00,00	2SA814 (Q, Y)	"			U
TR159	42,00,00	2SA913 (P, Q, R, S)	"			
TR160	42,00,00	2SC1815	"			
TR161	42,00,00	2SA970 (GR, BL)	"			
TR163	42,00,00	2SA1015 (O)	"			
O105~108	42,00,00	Diode 1S1555	ダイオード			
O109~116	42,00,00	" 1SS82	"			
O117, 118	42,00,00	" 1S1555	"			
O119, 120	42,00,00	" 1SS82	"			
O121~124	42,00,00	" 1S1555	"			
O125~126	42,00,00	" 1SS82	"			
O127~132	42,00,00	" 1S1555	"			
O133~136	42,00,00	" 30DF	"			
D137	42,00,00	Zener Diode HZ12C	ツェナーダイオード			
D138	42,00,00	" RD6,2EB2	"			
D139	42,00,00	" HZ24,2	"			
D140	42,00,00	Diode 1S1555	ダイオード			
D141	42,00,00	Zener Diode RD6,2EB2	ツェナーダイオード			
D142	42,00,00	Diode 1S1555	ダイオード			
D143	42,00,00	" 1SS82	"			
D144	42,00,00	" 1S1555	"			
D145	42,00,00	" 1SS82	"			
D146~149	42,00,00	LED SLP,133B	L E D			
D151~154	42,00,00	Zener Diode HZ 12C	ツェナーダイオード			
D155	42,00,00	Diode 1S1555	ダイオード			
D156	42,00,00	Zener Diode RD6,2EB2	ツェナーダイオード			
IC101~104	42,00,00	IC LM393P	I C			
RY101	42,00,00	Relay MSJ24D2-0 24V	リレー			
"	42,00,00	Speaker Terminal	スピーカターミナル			
"	42,00,00	Connector (male) 2P	2.5ピッチヘースピン			
"	42,00,00	Receptacle (with wire)	リーフ付レセプタクル			
"	42,00,00	Binding Tie BK-1	インシュロツクタイ	Refer to Page 1		
"	42,00,00	Wrapping Terminal 1P	1型ラッピンツク端子板			
"	42,00,00	Connector (male)	2.5ピッチヘースピン			
"	32,00,00	LED Holder	L E D ホルダー			
"	42,00,00	Mica Base	マイカベース			
"	32,00,00	Pre-drive C, Board	プリドライバースト			
C905, 306	42,00,00	Mica Cap. 3pF 100V	マイカコン			
C907, 308	42,00,00	Electrolytic Cap. 47μF 6.3V	ケミコン			
C909~912	42,00,00	Ceramic Cap. 180pF 50V	セラコン			
C913~916	42,00,00	" 8pF 500V	"			
C917~920	42,00,00	Electrolytic Cap. 47μF 6.3V	ケミコン			
R301~904	42,00,00	Carbon Resistor 3.3kΩ	カーボン抵抗			
R305, 306	42,00,00	" 47Ω	"			
R307~310	42,00,00	" 4.7kΩ	"			
R311, 312	42,00,00	Metal Film Resistor 18kΩ	金属膜抵抗			
R313, 314	42,00,00	Carbon Resistor 680Ω	カーボン抵抗			

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
R315, 316	42,00,00 HN 75,72,20	Carbon Resistor 22kΩ	カーボンプ抵抗			
R317, 318	42,00,00 HN 75,81,20	" 120kΩ	" "			
R319~322	42,00,00 HN 75,63,30	" 3.3kΩ	" "			
R323~326	42,00,00 HN 75,44,70	" 47Ω	" "			
R327~334	42,00,00 HN 75,42,20	" 22Ω	" "			
R335, 336	42,00,00 HN 75,56,80	" 680Ω	" "			
R337, 338	42,00,00 HJ 35,56,80	" 680Ω	" "			
R339~342	42,00,00 HN 75,51,20	" 120Ω	" "			
R343~346	42,00,00 HN 75,55,60	" 560Ω	" "			
R347~350	42,00,00 HN 75,62,20	" 2.2kΩ	" "			
R351, 352	42,00,00 HN 75,81,20	" 120kΩ	" "			
VR301	42,00,00 HT 57,02,60	Metal Gazed Semi Variable Resistor B100Ω	メタルグレーズ半リニアム			
TR301	42,00,00 IE 1,0,19,10	Dual FET μPA68H L, M	デュアルFET			
TR302	42,00,00 IA 1,09,14,50	Transistor 2SA914(Q,R,S,T), 2SC1983(Q,R,S,T)	トランジスタ			
TR303	42,00,00 IC 1,19,53,50	" 2SA777(Q,R), 2SC1509(Q,R)	" "			
TR307	42,00,00 IA 1,07,77,30	" 2SA872(O,E,F,G), 2SC1775(O,E,F,G)	" "			
TR310	42,00,00 IC 1,15,09,30	" 2SA872(O,E,F,G), 2SC1775(O,E,F,G)	" "			
TR311~	42,00,00 IA 1,08,72,00	" 2SA872(O,E,F,G), 2SC1775(O,E,F,G)	" "			
TR318	42,00,00 IC 1,17,75,00	" 2SA872(O,E,F,G), 2SC1775(O,E,F,G)	" "			
TR319	42,00,00 IZ 1,00,01,20	Dual Transistor μPC74V	デュアルトランジスタ			
TR320	42,00,00 IZ 1,00,01,20	" μPC74V	" "			
TR321	42,00,00 IZ 1,00,01,30	" μPC75V	" "			
TR322	42,00,00 IZ 1,00,01,30	" μPC75V	" "			
D301~308	42,00,00 IF 1,00,14,70	Zener Diode RD6,2EB2	ツェナーダイオード			
D309~312	42,00,00 IF 1,00,08,30	" RD4,7E	" "			
D313~316	42,00,00 IF 1,00,00,40	Diode 1S1555	ダイオード			
	42,00,00 LB 2,0,17,50	Miniature Connector Pin 2P	ミニチュアコネクタピン			
	42,00,00 LB 4,0,07,90	" 4P	" "			
	32,00,00 NA,07,55,00	Electrolytic Cap. C. Board	ケミコンシート			U
	32,00,00 NA,07,52,10	" "	" "			G
CS01, 502	42,00,00 FZ 1,00,23,40	Electrolytic Cap. 12000μF 80V	ケミコン			
CS03, 504	42,00,00 FZ 1,00,23,30	" 6800μF 50V	" "			
CS05, 506	42,00,00 FZ 1,00,23,20	" 3300μF 80V	" "			
CS07	42,00,00 UW,69,63,30	" 3.3μF 100V	" "			
CS08, 508	42,00,00 FC 1,0,63,30	Metallized Mylar Cap. 3.3μF 100V	M M コン			
RS01~504	42,00,00 HJ 35,81,20	Carbon Resistor 120kΩ	カーボン抵抗			
RS05, 506	42,00,00 HN 75,73,30	" 33kΩ	" "			
RS07, 508	42,00,00 HJ 35,71,00	" 10kΩ	" "			
RS09, 510	42,00,00 HJ 35,61,00	" 1kΩ	" "			
RS11	42,00,00 HJ 35,66,80	" 6.8kΩ	" "			
RS12	42,00,00 HJ 35,56,80	" 680Ω	" "			
RS13~514	42,00,00 HJ 35,66,80	" 6.8kΩ	" "			
RS16	42,00,00 HJ 35,45,90	" 56Ω	" "			
TR501	42,00,00 IC 2,2,40,00	Transistor 2SC2240 (GR, BL)	トランジスタ			
DS01	42,00,00 IH 1,00,08,50	Diode Bridge PB102L	ダイオードブリッジ			
DS02	42,00,00 IH 1,00,06,80	" S-5188	" "			
DS03	42,00,00 IH 1,00,04,70	Diode 1D4B1	ダイオード			
DS04	42,00,00 IH 1,00,02,40	" 1S1885	" "			
	42,00,00 LB 1,40,05,70	Connector (male) 4P	2.5ピッチベースピン			
	42,00,00 NB 0,9,7,9,00	Plug (with wire) 6P 3191,08P	リードプラグ			
	42,00,00 LA 1,00,23,90	Wrapping Terminal P = 7.5 2P L-type	L型ラップピン端子板			
	42,00,00 LA 1,00,24,00	" P = 7.5 3P "	" "			
	42,00,00 CA 1,07,06,40	Isolation Plate	絶縁板			
	42,00,00 CB 1,06,92,50	Binding Tie	インシュロックタイ			
	32,00,00 NA,07,52,20	Pin Jack C. Board	ピンジャックシート			
SW601	42,00,00 KA 1,80,17,00	Push Switch SPJ-222	スイッチ			
PL601	42,00,00 LB 2,0,16,20	Pin Jack 2P	2Pピンジャック			
	32,00,00 MZ 0,7,89,80	Pin Jack Connector Ass'y	ピンジャックコネクタAss'y			

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
		U.S.A Model				
		Power Supply C. Board	電 源 シ ー ト			
* C401	42:00:00 NA 0755:60	Ceramic Cap.	セラミックコンデンサ			
* C403	42:00:00 FC 24:52:20	Metalized Mylar Cap. 0.0033 $\mu$ F 125V	M M コ ン			
* C404	42:00:00 FA 85:54:70	Mylar Cap. 0.47 $\mu$ F 50V	マイラーコン			
* C405	42:00:00 FG 51:24:70	Ceramic Cap. 470pF 50V	セラミックコン			
* C406	42:00:00 FC 24:51:00	Metalized Mylar Cap. 0.1 $\mu$ F 125V	M M コ ン			
* C407	42:00:00 UW 81:81:00	Electrolytic Cap. 100 $\mu$ F 6.3V	ケ ミ コ ン			
* C408	42:00:00 FH 21:31:00	Ceramic Cap. 0.001 $\mu$ F 500V	セラミックコン			
* C409	42:00:00 FA 81:43:30	Mylar Cap. 0.033 $\mu$ F 50V	マイラーコン			
L401	42:00:00 GD 90:03:80	Coil	コイル			
R401	42:00:00 HK 35:81:00	Carbon Resistor 100k $\Omega$	カーボン抵抗			
R403	42:00:00 HK 35:81:20	" 120k $\Omega$	"			
R404	42:00:00 HK 35:75:60	" 56k $\Omega$	"			
R405	42:00:00 HK 35:71:50	" 15k $\Omega$	"			
R406	42:00:00 HL 82:71:80	Metal Oxide Film Resistor 2P 18k $\Omega$	酸 金 抵 抗			
R407	42:00:00 HK 35:62:70	Carbon Resistor 2.7k $\Omega$	カーボン抵抗			
R408	42:00:00 HK 35:92:20	" 2.2M	"			
R409	42:00:00 HV 35:41:50	Flame Proof Resistor 15 $\Omega$	不燃化カーボン抵抗			
R410	42:00:00 HK 35:54:70	Carbon Resistor 470 $\Omega$	カーボン抵抗			
* R411	42:00:00 HL 82:53:90	Metal Oxide Film Resistor 2P 390 $\Omega$	酸 金 抵 抗			
R412	42:00:00 HV 35:41:80	Flame Proof Resistor 18 $\Omega$	不燃化カーボン抵抗			
R413	42:00:00 HK 35:73:90	Carbon Resistor 39k $\Omega$	カーボン抵抗			
R415	42:00:00 HK 35:82:20	" 220k $\Omega$	"			
R416	42:00:00 HK 35:81:00	" 100k $\Omega$	"			
R417	42:00:00 HK 35:73:90	" 39k $\Omega$	"			
R418	42:00:00 HK 35:71:00	" 10k $\Omega$	"			
R419	42:00:00 HK 35:58:20	" 820 $\Omega$	"			
R420	42:00:00 HK 35:61:50	" 1.5k $\Omega$	"			
R421	42:00:00 HK 35:43:90	" 39 $\Omega$	"			
R423	42:00:00 HK 35:63:90	Carbon Resistor 3.9k $\Omega$	カーボン抵抗			
R424	42:00:00 HK 35:71:00	" 10k $\Omega$	"			
R425	42:00:00 HK 35:73:90	" 39k $\Omega$	"			
VR401	42:00:00 HT 41:00:40	Solid Semi Variable Resistor B4.7k $\Omega$	ソリッドポリューム			
TR401	42:00:00 IC 18:15:00	Transistor 2SC1815	トランジスタ			
TR402	42:00:00 IA 07:77:30	"	"			
TR404	42:00:00 IA 07:77:30	" 2SA777 Q,R	"			
TR405	42:00:00 IK 00:02:80	Photo coupler	フォトカプラ			
D401	42:00:00 IH 00:08:80	Diode Bridge SIWB-20	ダイオードブリッジ			
D402	42:00:00 IF 00:00:40	Diode IS1555	ダイオード			
D404	42:00:00 IF 00:14:70	Zener Diode RD6.2E82	ツェナーダイオード			
D406	42:00:00 IF 00:00:40	Diode IS1555	ダイオード			
IC401	42:00:00 IG 04:08:00	IC (Trigger) AC16DIF-L	トリガーIC			
* SCR401	42:00:00 IH 00:10:20	Triac SMDR5G42	トライアック			
* SCR402	42:00:00 IH 00:09:00	"	"			
FA01	42:00:00 KB 00:13:80	Fuse UL 15A 125V	ヒューズ			
"	42:00:00 KB 00:12:70	" 15A 125V	"			
"	42:00:00 LB 20:09:00	Fuse Holder Pin PC	ヒューズホルダーピン			
"	42:00:00 LB 30:07:30	Connector (male) 3P	2.5 ピッチペーエピン			
"	42:00:00 LB 40:05:70	" ( " ) 4P	"			
"	42:00:00 LA 00:21:40	Wrapping Terminal P = 10 2P 1-type	1型ラッピング端子板			
"	42:00:00 LA 00:24:10	" P = 10 2P L-type	L型ラッピング端子板			
"	42:00:00 LA 00:21:10	" P = 5 2P 1-type	1型ラッピング端子板			
"	42:00:00 LA 00:25:00	" 1P "	"			
"	42:00:00 CB 60:05:00	Spacer Anti-Vibration	防振スパーサー			
"	32:00:00 CB 60:06:50	Rubber Cap	ゴムキャップ			

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
		North European Model				
	3210000	NA-07155170 Power Supply C. Board	電 源 シ ー ト			
*C401~403	42100100	FR 16136180 Metallized Paper Cap.	M P コ ン			G
*C404	42100100	FR 15154170	"			
*C405	42100100	FA 185154170 Myler Cap.	マ イ ラ ー コ ン			
*C406	42100100	FG 15124170 Ceramic Cap.	セ ラ コ ン			
*C407	42100100	FQ 109146180 Oil Cap.	オ イ ル コ ン			
*C408	42100100	UW 81181100 Electrolytic Cap.	ケ ミ コ ン			
*C409	42100100	FH 12131100 Ceramic Cap.	セ ラ コ ン			
*C410	42100100	FA 81143130 Myler Cap.	マ イ ラ ー コ ン			
L401	42100100	GD 90103180 Coil	コ イ ル			
R401~404	42100100	HK 35183130 Carbon Resistor	カ ー ボ ン 抵 抗			
R405, 406	42100100	HK 35181180	"			
R407	42100100	HK 35171150	"			
R408	42100100	HL 82173130 Metal Oxide Film Resistor 2P 33kΩ	酸 金 抵 抗			
R409	42100100	HK 35162170 Carbon Resistor	カ ー ボ ン 抵 抗			
R410	42100100	HK 35192120	"			
R411	42100100	HV 35141150 Flame Proof Resistor 15Ω	不 燃 化 カ ー ボ ン 抵 抗			
R412	42100100	HK 35154170 Carbon Resistor	カ ー ボ ン 抵 抗			
R413	42100100	HL 82153190 Metal Oxide Resistor 2P 390Ω	酸 金 抵 抗			
R414	42100100	HV 35141180 Flame Proof Resistor 18Ω	不 燃 化 カ ー ボ ン 抵 抗			
R415, 416	42100100	HK 35173190 Carbon Resistor	カ ー ボ ン 抵 抗			
R417	42100100	HK 35182120	"			
R418	42100100	HK 35181100	"			
R419	42100100	HK 35173190	"			
R420	42100100	HK 35171100	"			
R421	42100100	HK 35158120	"			
R422	42100100	HK 35161150	"			
R423	42100100	HK 35143190 Carbon Resistor	カ ー ボ ン 抵 抗			
R425	42100100	HK 35163190	"			
R426	42100100	HK 35171100	"			
R427~429	42100100	HK 35173190	"			
VR401	42100100	HT 141100140 Solid Semi Variable Resistor B4.7kΩ	ソ リ ッ ト ボ リ ュ ム			
VR402	42100100	IC 18115100 Transistor	ト ラ ン ジ ス タ			
TR401	42100100	IC 18115100 Transistor	ト ラ ン ジ ス タ			
TR402~TR404	42100100	IA 10717130	"			
TR405	42100100	IK 100102180 Photo coupler	フ オ ト カ プ ラ			
D401	42100100	IH 100108180 Diode Bridge	ダイ オード ブリッジ			
D402, 403	42100100	IF 100100140 Diode	ダイ オード			
D404, 405	42100100	IF 100114170 Zener Diode	ツェナーダイオード			
D406	42100100	IF 100100140 Diode	ダイ オード			
IC401	42100100	IG 104108100 IC (Trigger)	トリガー IC			
SCR401	42100100	IH 100110120 Triac	ト ラ イ ア ッ ク			
SCR402	42100100	IH 100109100	"			
F401	42100100	KB 100122140 Fuse F6.3A 250V	ヒ ュ ー ス			
	42100100	LB 120115130 Fuse Holder Pin	ヒ ュ ー ス ホ ル ダ ー ピ ン			
	42100100	LB 130107130 Connector (male)	2.5 ピッチヘースピン			
	42100100	LA 100121140 Lapping Terminal	1型ラッピンク端子板			
	42100100	LA 100124110	1型ラッピンク端子板			
	42100100	LA 100121110	P = 10 2P L-type			
	42100100	LA 100125100	P = 5 2P L-type			
	42100100	LA 100125100	P = 5 2P L-type			
	42100100	CB 60105100 Spacer Anti-Vibration	防 振 ス ペ ー サ ー			
	32100100	CB 60106150 Rubber Cap	ゴ ム キ ャ ッ プ			