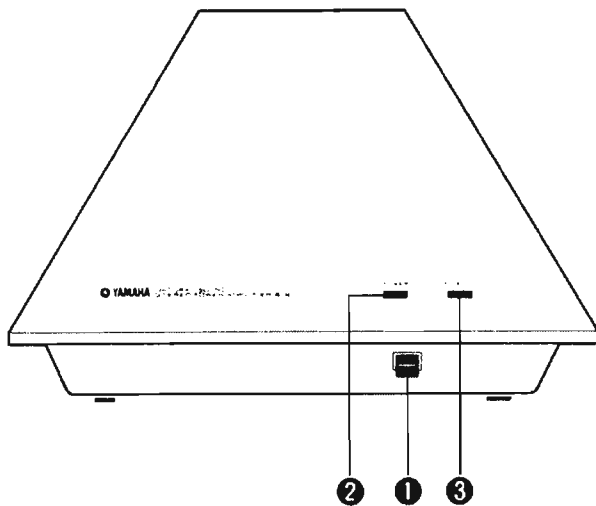


# B-6

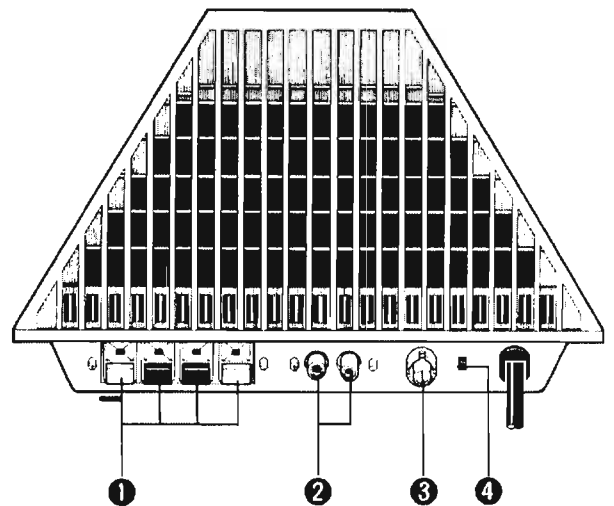
## SERVICE MANUAL

### ■ FRONT VIEW



- ❶ POWER SWITCH
- ❷ POWER INDICATOR
- ❸ PROTECTION INDICATOR

### ■ REAR VIEW



- ❶ SPEAKER TERMINALS
- ❷ INPUT TERMINALS
- ❸ GROUND TERMINAL
- ❹ SPEAKER SWITCH

### ■ CONTENTS

SPECIFICATIONS .....	1
BLOCK DIAGRAM .....	1
INTERNAL VIEW .....	2
DISASSEMBLY PROCEDURES .....	3
CIRCUIT OPERATION .....	5
ADJUSTMENTS .....	8
WIRING .....	11
SCHEMATIC DIAGRAM .....	12

004416

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# YAMAHA

NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN

'80. 9 1.8K K.T. ☐ Ⓢ Printed in Japan

B-6

## 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

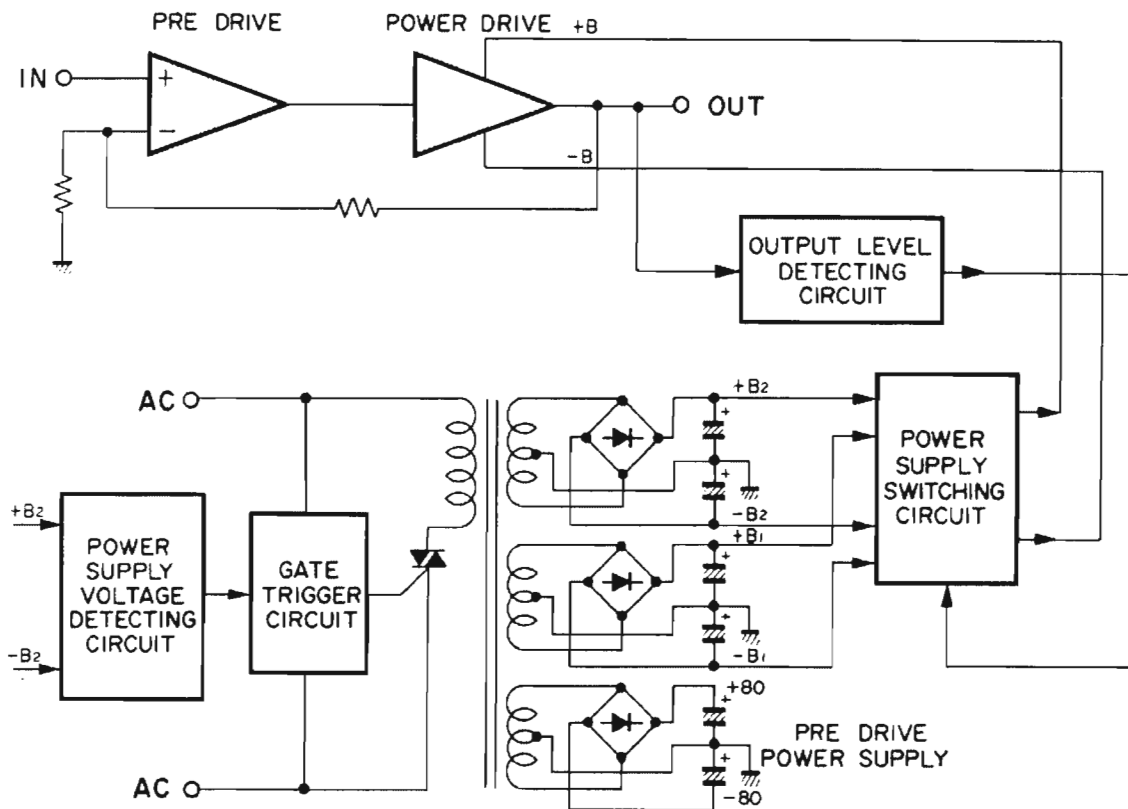
<b>Power Consumption</b>	
U.S.	..... 200W (1% T.H.D., 1/10 output power)
Northern Europe	..... 1200W (1% T.H.D.)

<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")	

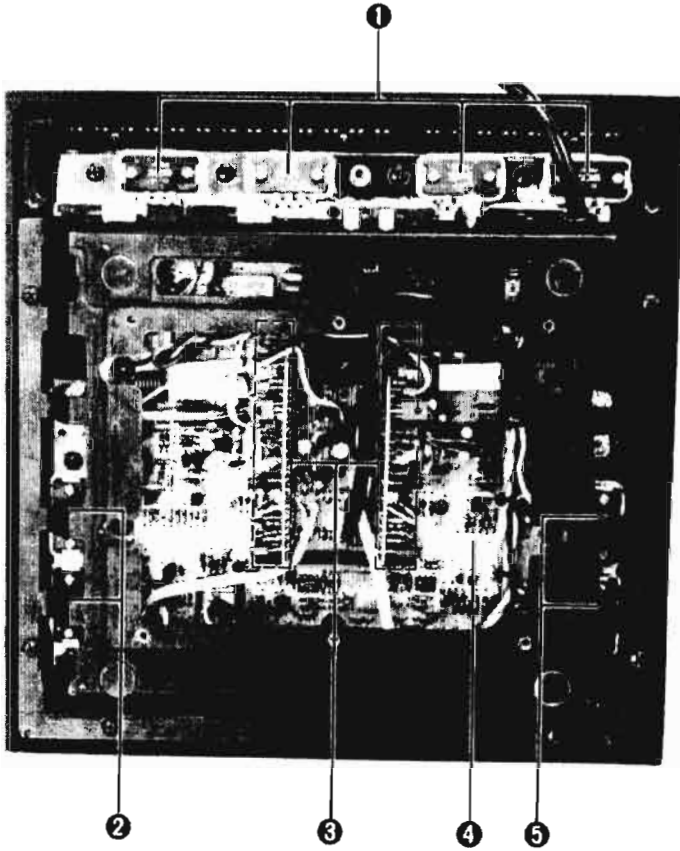
<b>Weight</b>	
U.S.	..... 9.0 kg (19 lbs. 13 oz.)
Northern Europe	..... 9.2 kg (20 lbs. 4 oz.)

*Specifications subject to change without notice.*

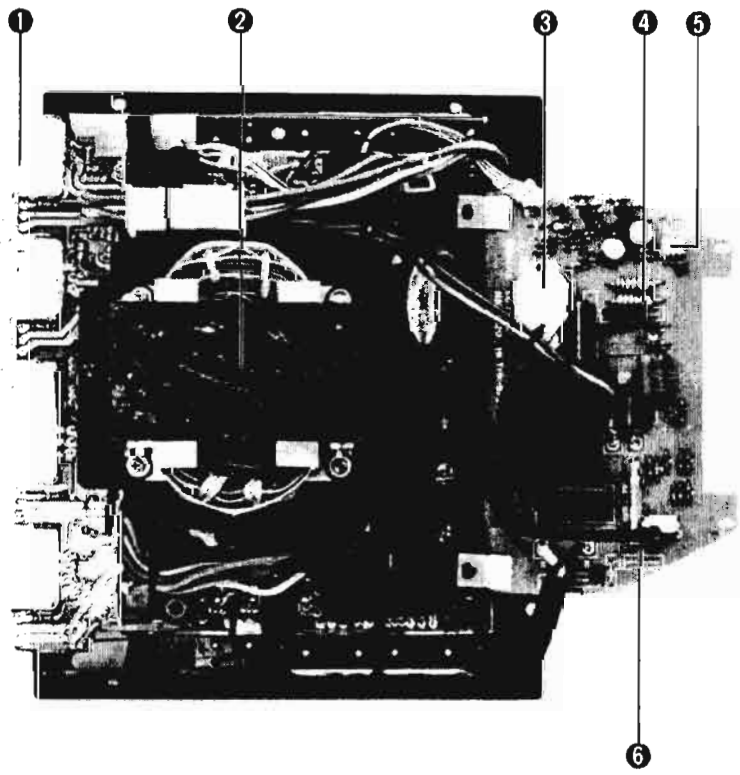
## BLOCK DIAGRAM



# 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)

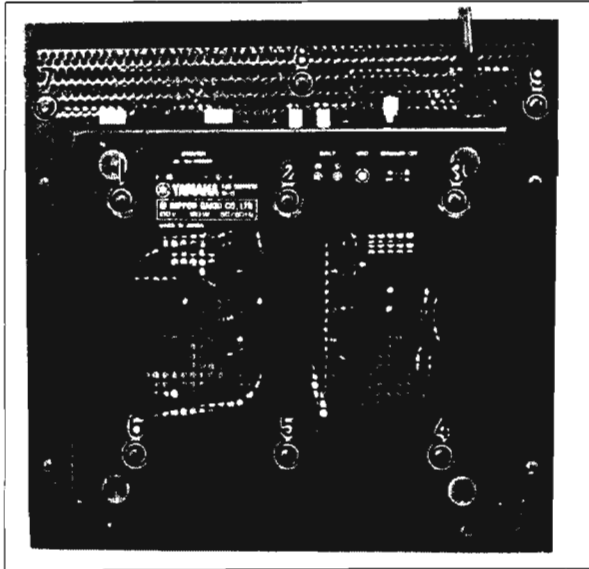


Photo 1

### 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.

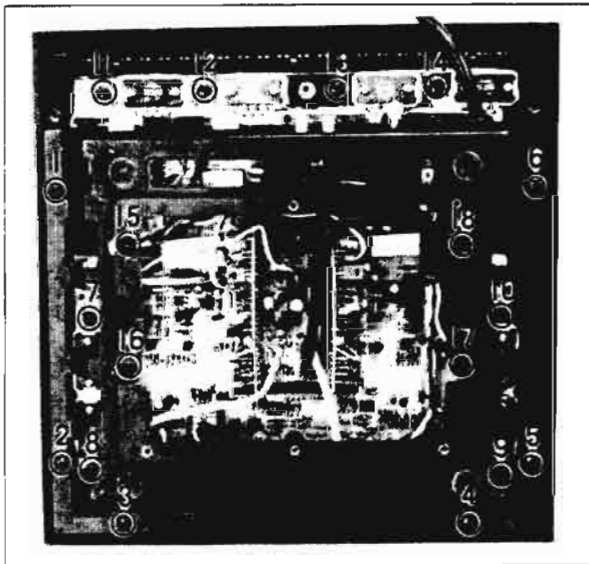


Photo 2

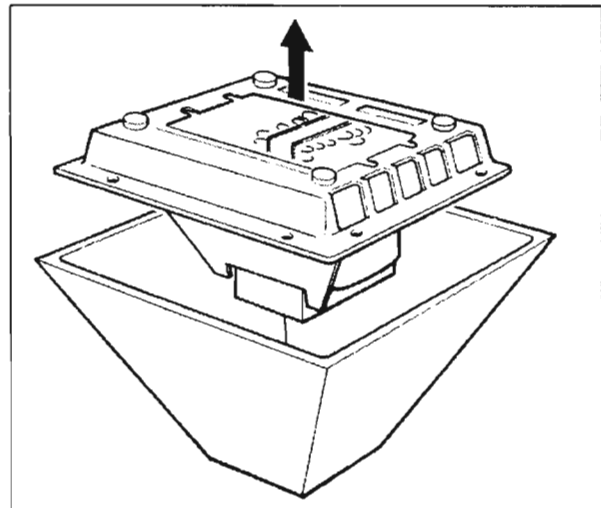


Fig. 1

### 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

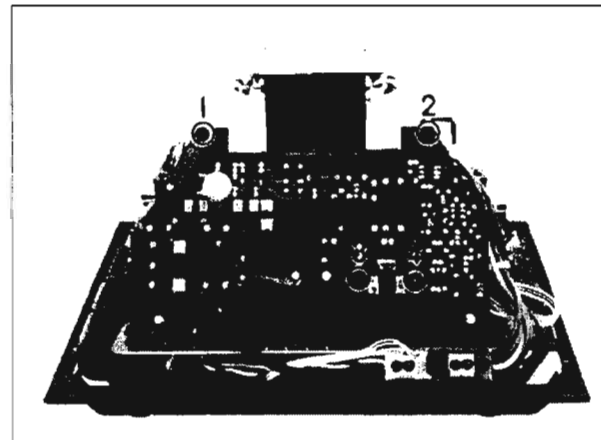


Photo 3

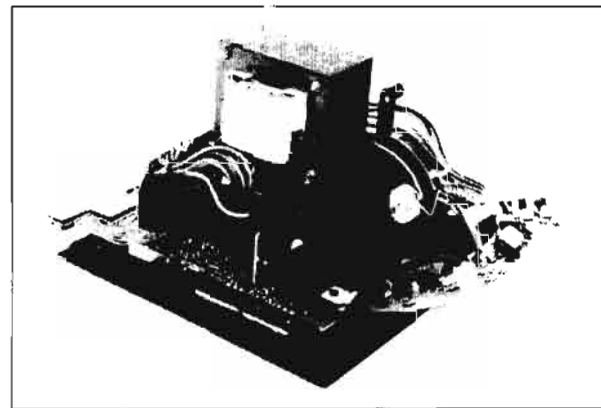


Photo 4

### 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)

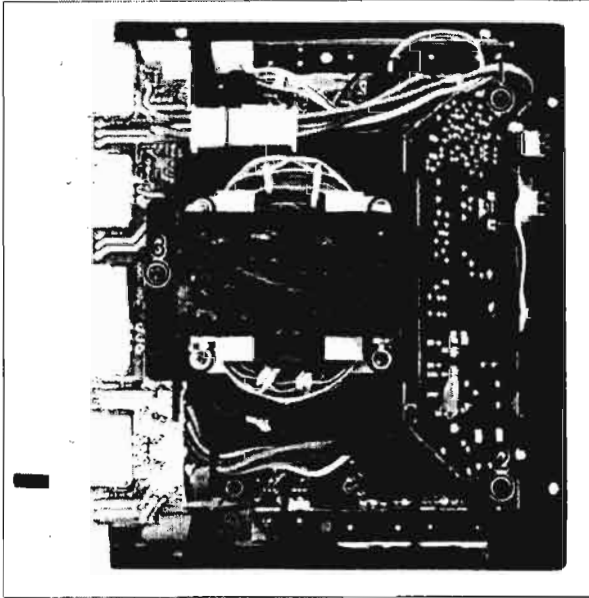


Photo 5

### 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)

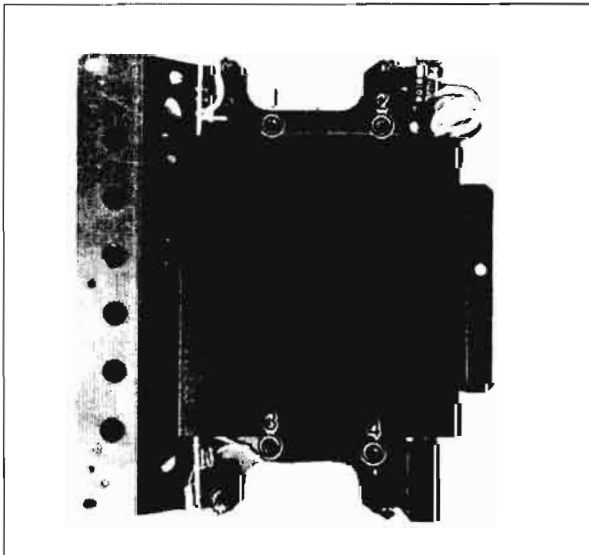


Photo 6

### 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)

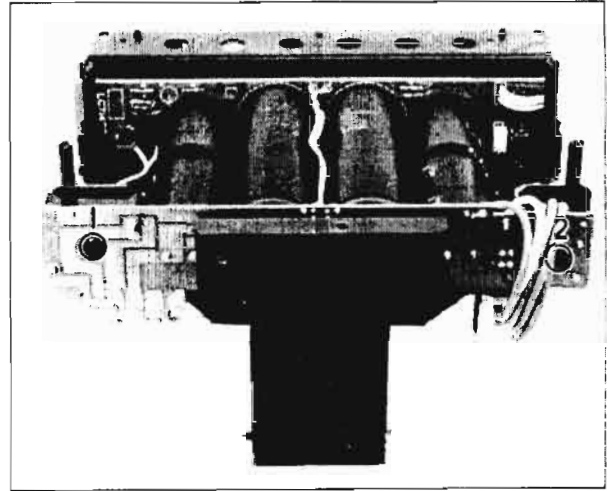


Photo 7

### 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

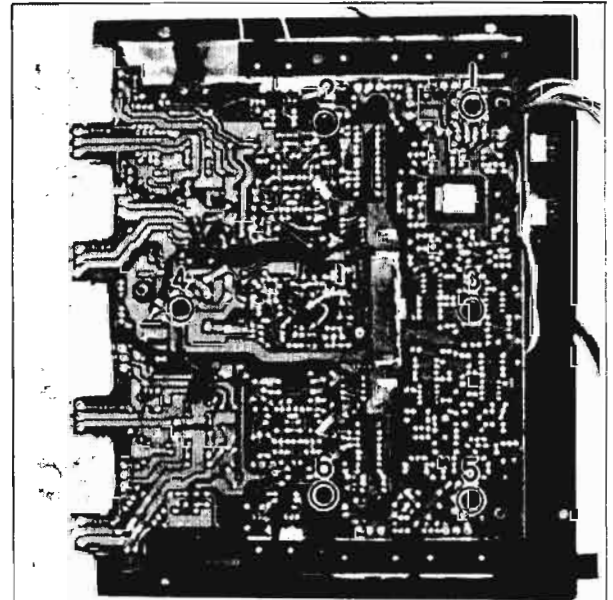


Photo 8

# CIRCUIT OPERATION

## X POWER SUPPLY CIRCUIT OPERATION CONTROL CIRCUIT

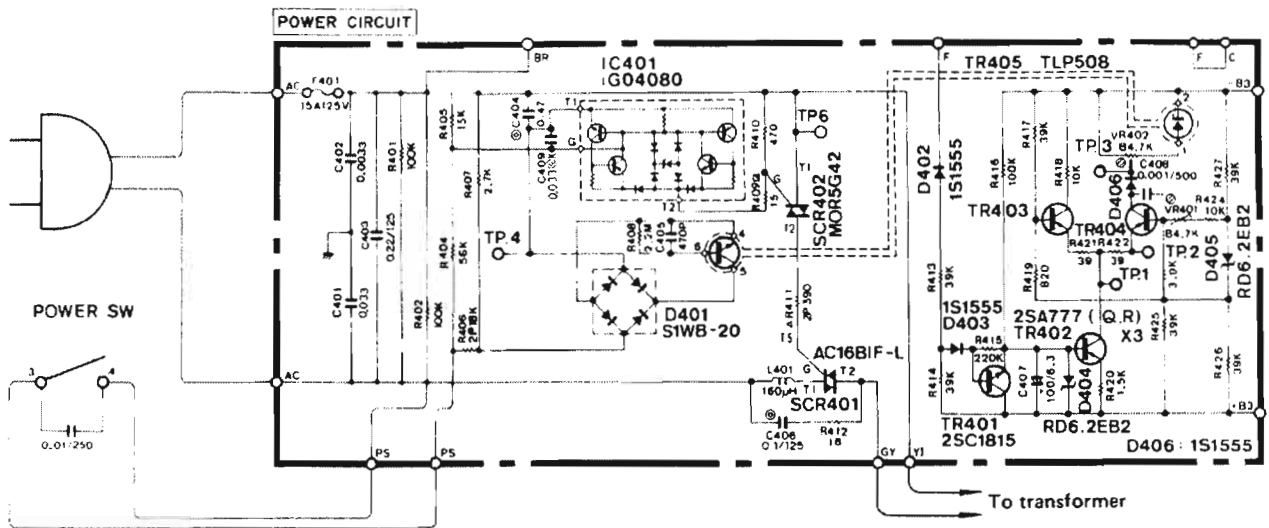


Fig. 1

### 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  $T_2$ .

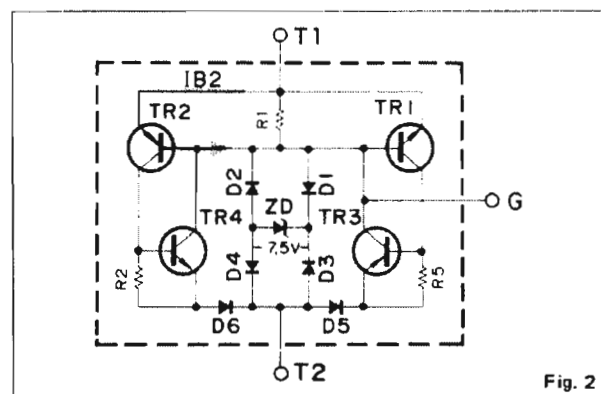


Fig. 2

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  $T_1$ .

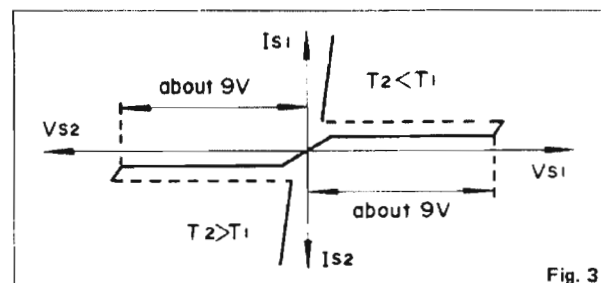


Fig. 3

POWER APPLICATION PHASE ANGLE CONTROL CIRCUIT AND CONSTANT-VOLTAGE OPERATION

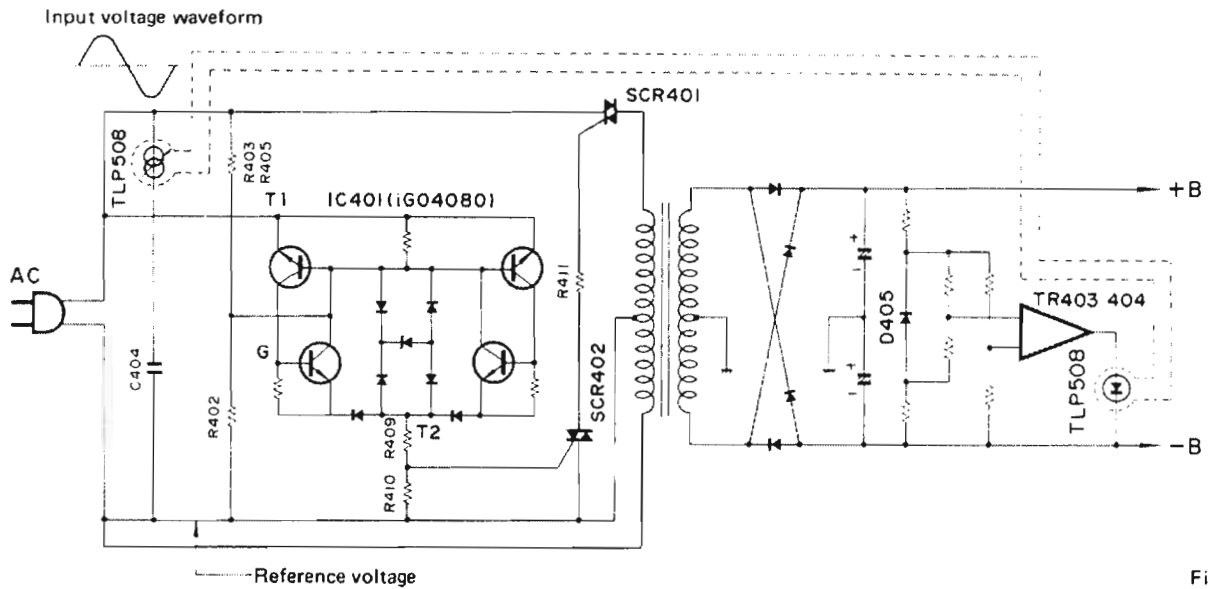


Fig. 4

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.

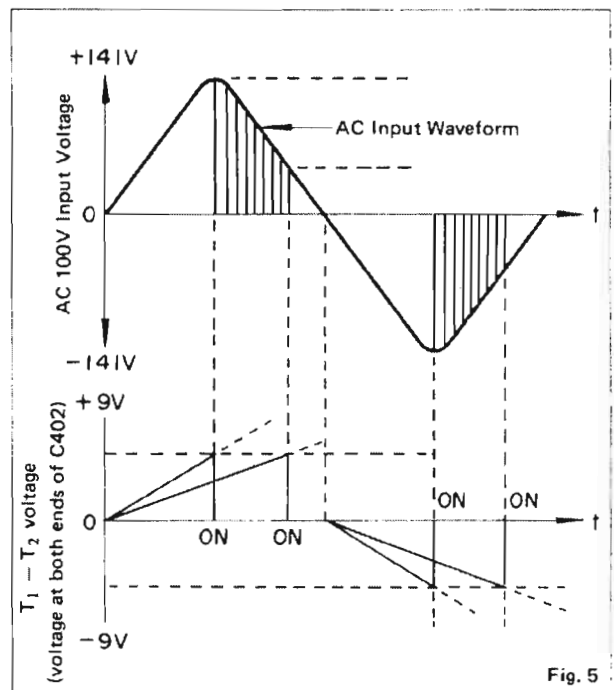


Fig. 5

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

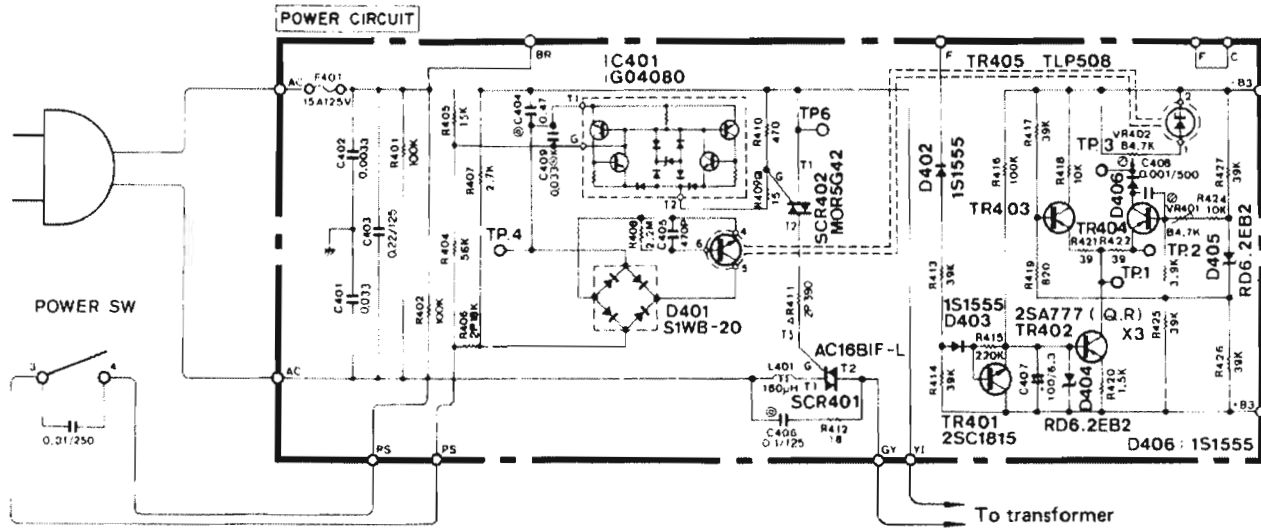


Fig. 6

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 (IG04080) 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 TRJAC (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.

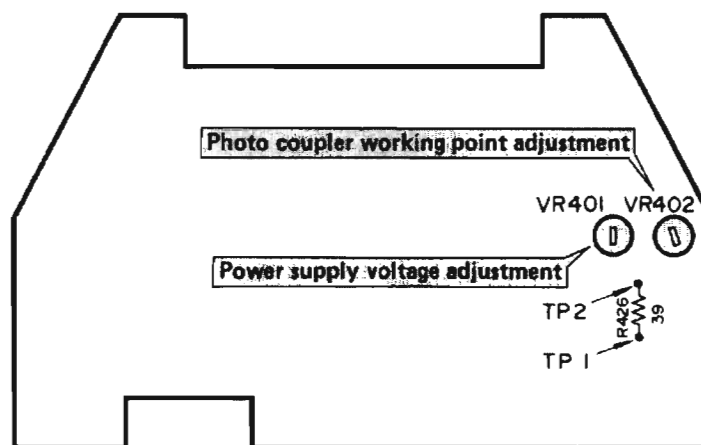
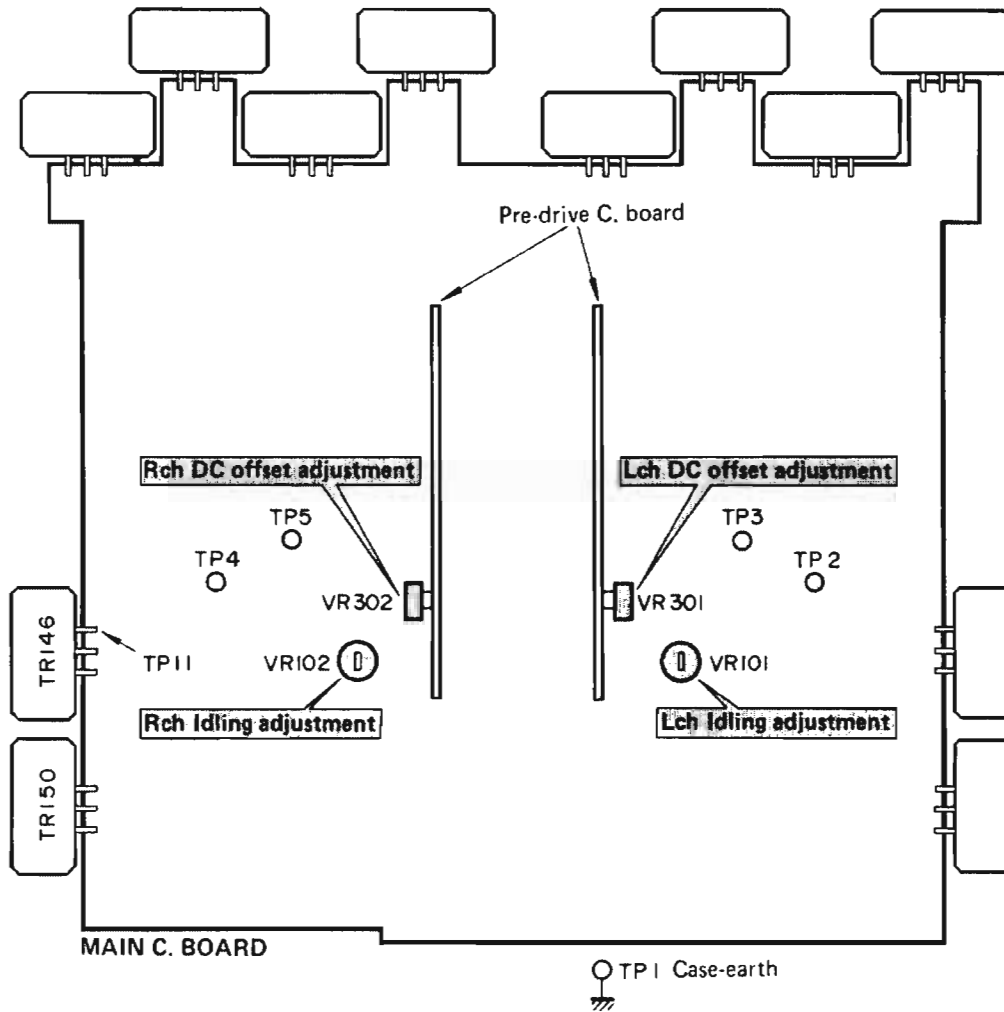
\* Adjust step 6 only when exchanging the photo-coupler.

\* 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.

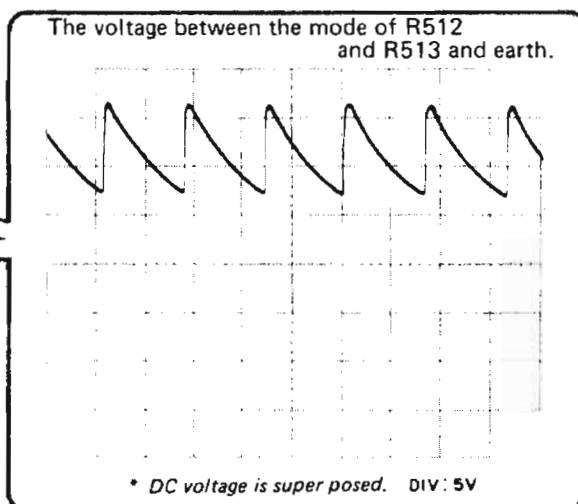
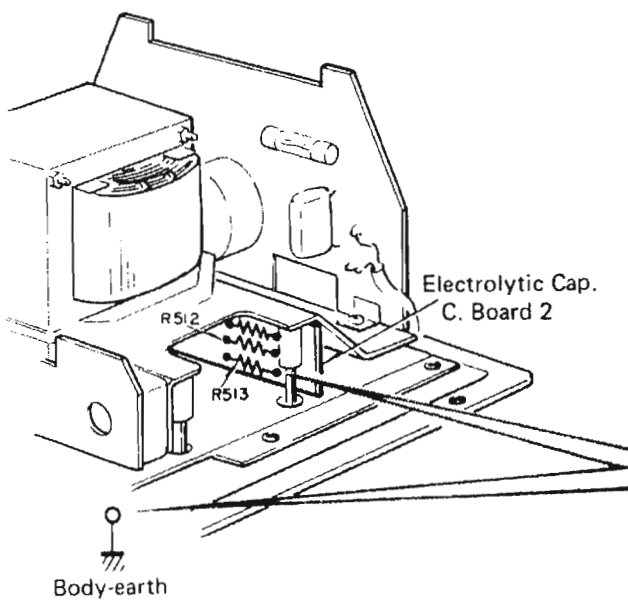
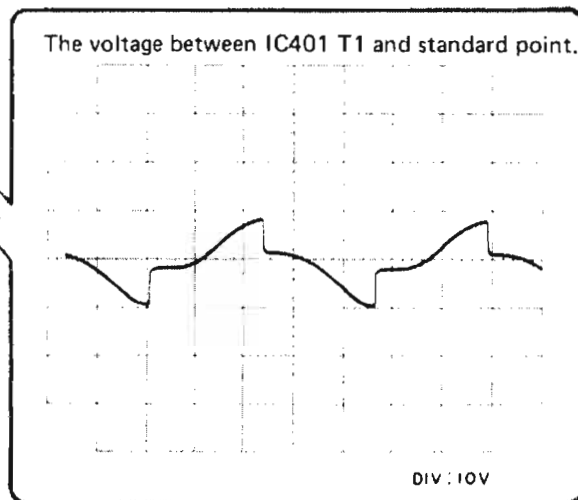
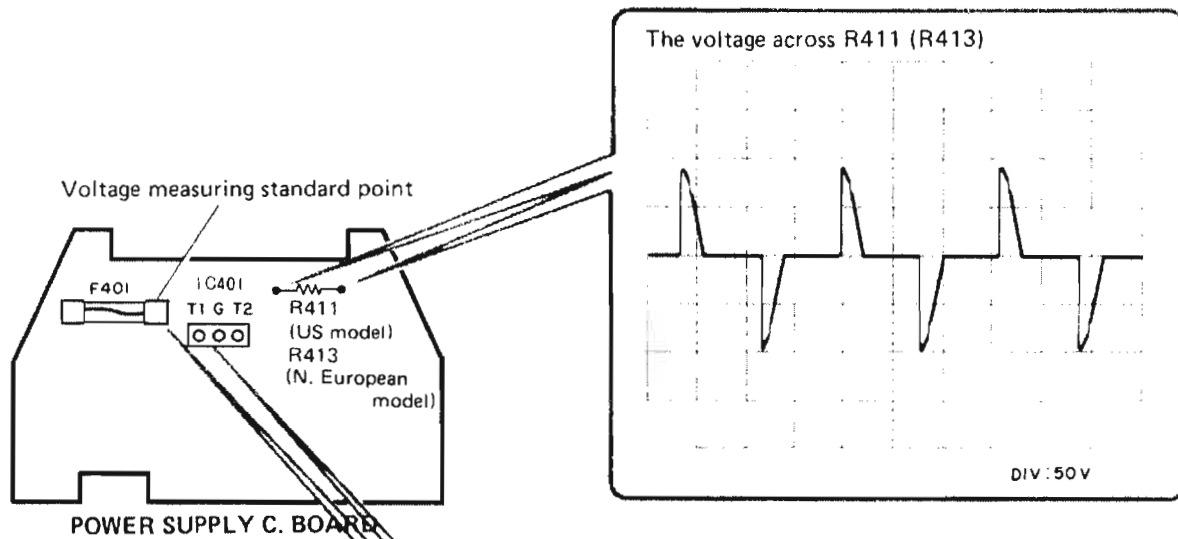
I. Adjustment Test point



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







# PARTS LIST

## B-6

### ■ CONTENTS

EXPLODED VIEW (BOTTOM VIEW) .....	1
EXPLODED VIEW (TOP VIEW) .....	2
PARTS LIST .....	3
PARTS LIST (ELECTRICITY) .....	6

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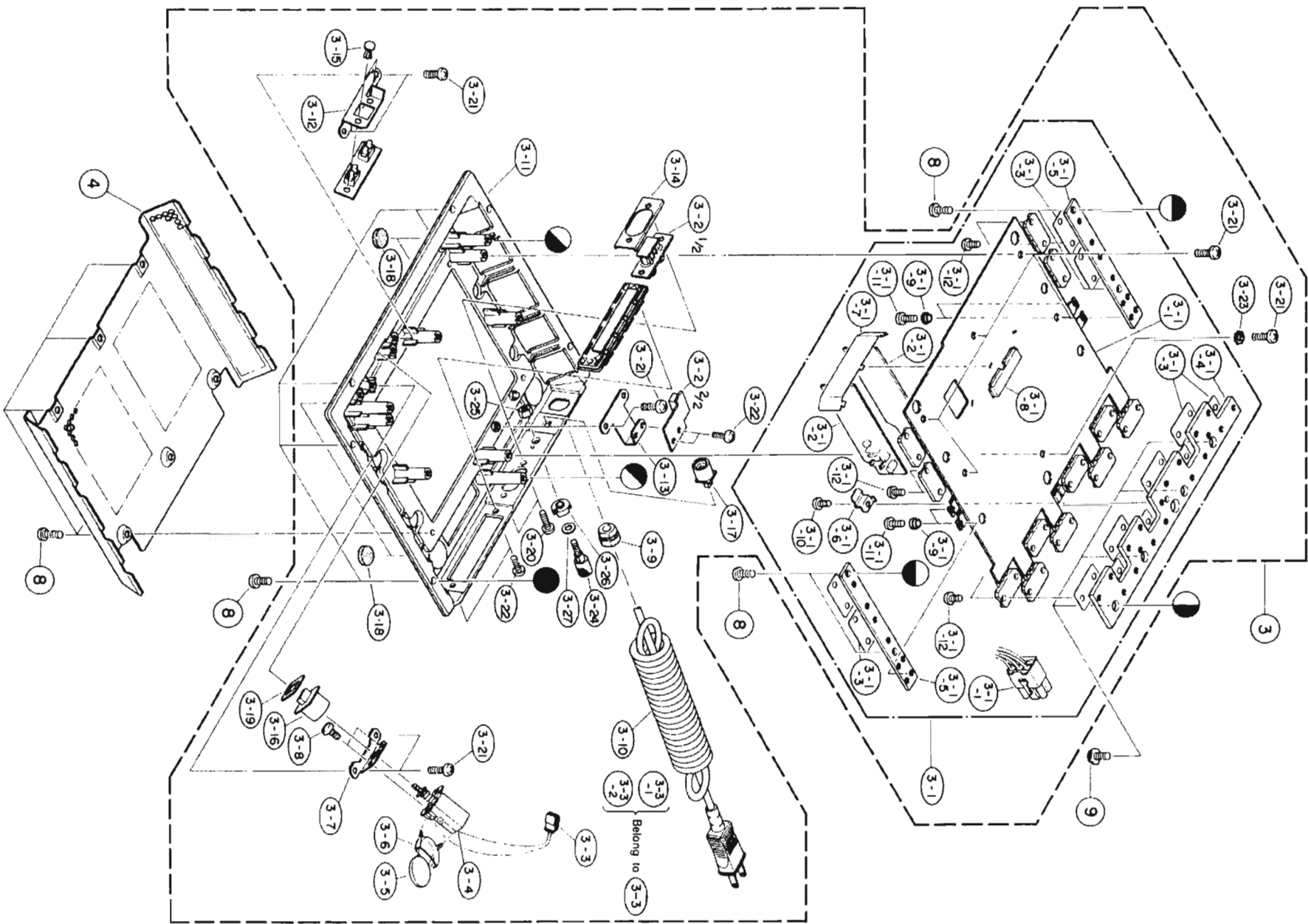


**YAMAHA**

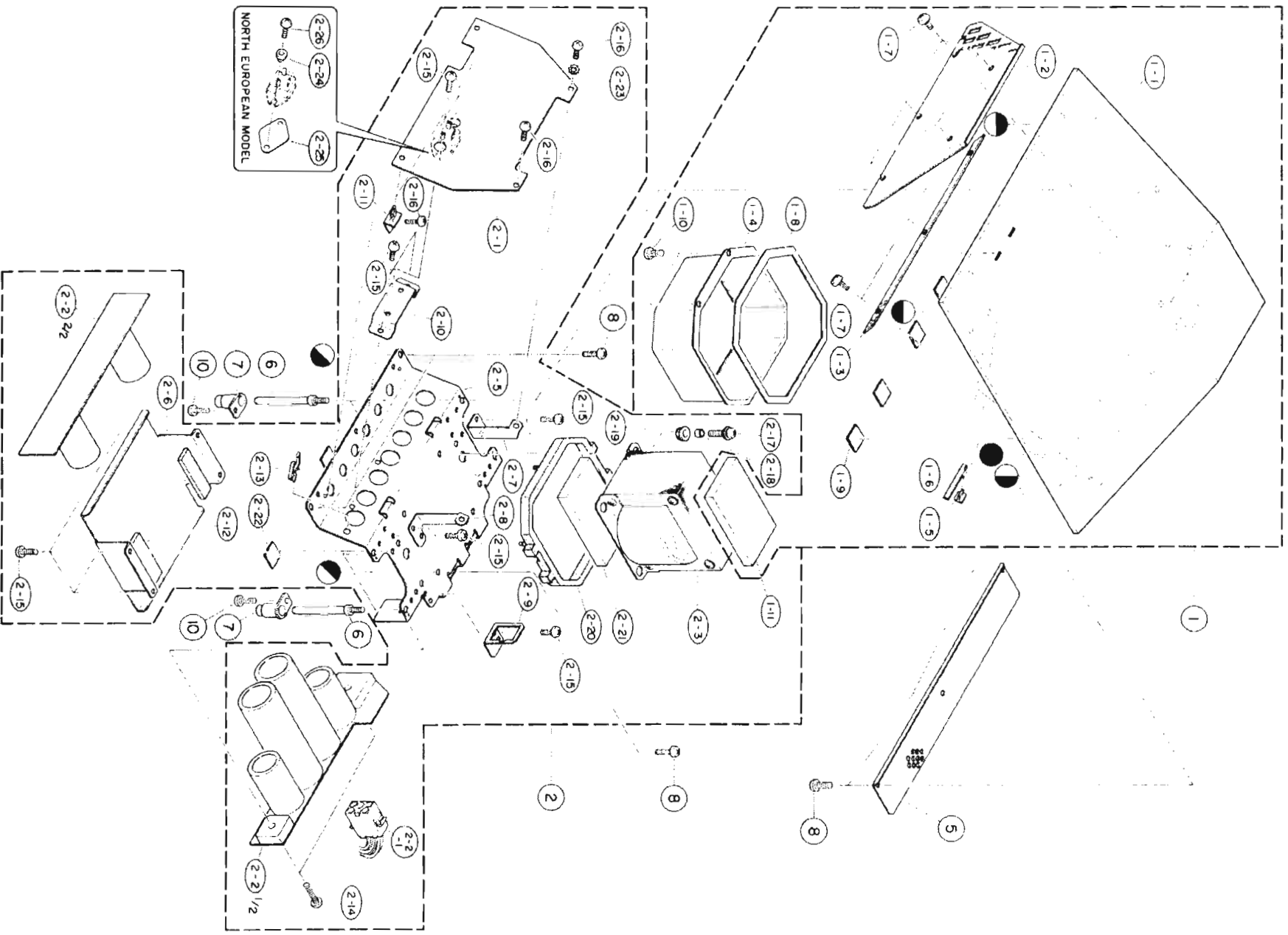
NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN

004416

EXPLODED VIEW (BOTTOM VIEW)



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 11.52 mm	ダンプターナール(A)	T-2		
* 1-7	42,00,00 EK,97,00,20	Pan Head Tap-Tyre Screw (B-Tyre) 2.6x4(ZMC2-8)	パンヘッドタップタイア(Bタイ)			
* 1-8	42,00,00 CB,60,02,10	Packing	ケーヌパッキン			
* 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	Bind Head Tap-Tyre Screw (B-Tyre) 4x8(ZMC2-8)	バインドヘッドタップタイア(Bタイ)			
* 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,63,73,00	Power Transformer	電源トランス			J
* 2-3	42,00,00 GA,64,00,00	"	"			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	コネクター金具			
* 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)			
* 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	ワイヤークリッパ			
* 2-14	42,00,00 EN,33,01,00	Bind Head Tapping Screw (Type-1) 3x16(FCM3-8)	バインドヘッドタップネジ(2種ミ)			
* 2-15	42,00,00 EN,33,00,10	" 3x8(FCM3-8)	"			
* 2-16	42,00,00 EK,33,60,20	B.W. Head Tapping Screw (Type-1) 4x8 3x6(FCM3-8)	B.W.ヘッドタップネジ(2種ミ)			
* 2-17	42,00,00 EH,04,01,20	Pan Head Screw (Sems-Type) 4 x 12 (ZMC2-Y)	パンヘッドネジ(スリ-ビー)			
* 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	絶縁ブッシュ			G
* 2-25	42,00,00 CB,60,15,90	Trac Base	トラクタベース			G
* 2-26	42,00,00 EN,03,00,50	Bind Head Tapping Screw (Type-1) 3x12(ZMC2-Y)	バインドヘッドタップネジ(2種ミ)			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,09,92,00	"	"			G
* 3-1	32,00,00 NB,09,78,90	Main C. Board Unit	メインシートユニット			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 IL,00,05,10	Mica Base AC243	マイカーベース			
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	シールドカバー			
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 (FCM3-8)	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)	鉄チベ小ネジ			
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 Ass'y (Power Switch)	パワーSWコネクタ-Ass'y			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			
3-4	42,00,00 KA,80,10,70	Push Switch (Power Switch) SDV-2P	ワッシユ S W			J,U
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 (FCM3-8)	鉄バインツ小ネジ			
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	LEDステー			
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 Ass'y (P)	プラスチックボタンAss'y(P)		T-2	
3-17	32,00,00 NB,09,39,30	Push Button Ass'y	プラスチックボタンAss'y		CR-640	
3-18	42,00,00 CC,03,60,40	Pad (Leg) $\phi$ 15 x 13	トランジスタ(パッド)			
3-19	42,00,00 CA,07,05,60	Spacer (P) (6.5 x 11.5) $\phi$ 17 x 11.4	スパーサー (P)			
3-20	42,00,00 ED,33,01,00	Bind Head Screw 3 x 10 (FCM3-8)	鉄バインツ小ネジ			
3-21	42,00,00 EK,95,00,60	Bind Head Tap-Tye Screw (B-Tye)4x8(ZMC2-8)	鉄バインツワッシャー(1894)			
3-22	42,00,00 EN,33,00,10	Bind Head Tapping Screw (Type III)3x8(FCM3-8)	鉄バインツワッシャー(1894)			
3-23	42,00,00 EV,42,04,00	Toothed Locked Washer 4S (ZMC2-Y)	鉄外歯形蓋付座金			
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) $\phi$ 3.6x10x0.8(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			



## PARTS LIST (ELECTRICITY)

Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markers
	32,00,00	NA,07,51,80	Main C. Board	メ イ ン シ ー ト		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,111,42,20	Mylar Cap.	マ イ ラ ー コ ン		
C113~116	42,00,00	FH,161,12,20	Ceramic Cap.	セ ラ コ ン		
C121, 122	42,00,00	FA,114,100	Mylar Cap.	マ イ ラ ー コ ン		
C123~130	42,00,00	FA,111,52,20	"	"		
C131~134	42,00,00	FA,115,51,00	"	"		
C135~138	42,00,00	FA,111,33,90	"	"		
C139~142	42,00,00	FG,151,12,20	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,115,36,80	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,75,92,20	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,15,71,00	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
R203~206	42,00,00 HU 57,72,20	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	"			J, G
R218	42,00,00 HK 35,91,00	" 1MΩ	"			
"	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	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 98,42,20	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			
TR102	42,00,00 A 07,77,30	" 2SA777 (O, R) 2SC1509 (O, R)	"			
TR103	42,00,00 C 18,08,30	" 2SA172	"			
TR105	42,00,00 C 107,77,30	" 2SA172	"			
TR106	42,00,00 C 145,09,10	" 2SC1885	"			
TR108	42,00,00 C 18,85,00	" 2SC1885 (S, T)	"			
TR119~TR122	42,00,00 A 08,13,00	" 2SA913IP (Q, R, S), 2SC1913IP (Q, R, S)	"			
TR123~TR130	42,00,00 A 110,95,00	" 2SA1095, 2SC2565	"			
TR135	42,00,00 A 110,15,10	" 2SA1015 (O)	"			
TR136	42,00,00 C 22,40,00	" 2SC2240 (GR, BL)	"			
TR137	42,00,00 A 09,70,00	" 2SA970 (GR, BL)	"			
TR139	42,00,00 A 110,15,10	" 2SA1015	"			
TR144~TR146	42,00,00 A 119,95,00	" 2SA1095, 2SC2565	"			
TR147	42,00,00 C 28,65,00	" 2SB596 (O, Y) 2SD526 (O, Y)	"			
TR148	42,00,00 C 105,95,30	" 2SB596 (O, Y) 2SD526 (O, Y)	"			
TR149	42,00,00 C 119,85,00	" 2SA1095, 2SC2565	"			
TR150	42,00,00 C 129,85,00	" 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 ト			
TR152	42,00,00	" 2SC2240 (GR, BL)	"			
TR153	42,00,00	" 2SA970 (GR, BL)	"			
TR154	42,00,00	" 2SA970 (GR, BL)	"			
TR155	42,00,00	" 2SC1815	"			
TR157	42,00,00	" 2SA777 (Q, R)	"			J, G
TR158	42,00,00	" 2SA814 (O, Y)	"			U
"	42,00,00	" 2SA913 (P, Q, R, S)	"			
TR159	42,00,00	" 2SC1815	"			
TR160	42,00,00	" 2SA970 (GR, BL)	"			
TR161	42,00,00	" 2SA1015 (O)	"			
TR162	42,00,00	" 2SA1015 (O)	"			
TR163	42,00,00	Diode 1S1555	ダイオード			
O105~108	42,00,00	" 1SS82	"			
O109~116	42,00,00	" 1S1555	"			
O117, 118	42,00,00	" 1SS82	"			
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			
IC104~108	42,00,00	IC LM393P	I C			
RY101	42,00,00	Relay MSJ24D2.0 24V	リ レ			
* 42,00,00	LA 00133,40	Speaker Terminal	スピーカターミナル			
* 42,00,00	LB 2013,90	Connector (male) 2P	2.5ピッチヘースピソ			
* 42,00,00	NB 09,79,10	Receptacle (with wire)	リーフ付レセプタクル	Refer to Page 1		
* 42,00,00	CB 06,92,50	Binding Tie BK-1	インシュロックタイ			
* 42,00,00	LA 00125,00	Wrapping Terminal 1P	1型ラッピング端子板			
* 42,00,00	LB 140,05,70	Connector (male)	2.5ピッチヘースピソ			
* 42,00,00	CB 09,79,30	LED Holder	L E D ホルダー			
* 42,00,00	IL 00102,70	Mica Base	マイカベース			
* 32,00,00	NA 07151,90	Pre-drive C, Board	プリドライバボード			
* C305, 306	42,00,00	Mica Cap. 3pF 100V	マイカコン			
* C307, 308	42,00,00	Electrolytic Cap. 47μF 6.3V	ケ ミ コ ン			
* C309~312	42,00,00	Ceramic Cap. 180pF 50V	セラミックコン			
* C313~316	42,00,00	" 8pF 500V	"			
* C317~320	42,00,00	Electrolytic Cap. 47μF 6.3V	ケ ミ コ ン			
* R301~304	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	カーボン抵抗			
R317, 318	42,00,00 HN 75,81,20	22kΩ	"			
R319-322	42,00,00 HN 75,63,30	120kΩ	"			
R323-328	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	"			
V8301	42,00,00 HT 57,02,60	Metal Gazed Semi Variable Resistor B100Ω	メタルグレーズ可変リニアムド			
V8302	42,00,00 IE 110,19,10	μPA68H L, M	デュアルFET			
TR301	42,00,00 IA 109,14,50	Transistor 2SA914(Q,R,S,T), 2SC1953(Q,R,S,T)	トランジスタ			
TR303	42,00,00 IC 119,53,50	2SA777(Q,R), 2SC1509(Q, R)	"			
TR307	42,00,00 IA 107,77,30	2SA777(Q,R), 2SC1509(Q, R)	"			
TR310	42,00,00 IC 115,09,30	2SA872(D,E,F,G), 2SC1775(D,E,F,G)	"			
TR311	42,00,00 IA 108,72,00	μPC74V	デュアルトランジスタ			
TR318	42,00,00 IC 117,75,00	μPC74V	"			
TR319	42,00,00 IZ 00,01,20	μPC75V	"			
TR320	42,00,00 IZ 00,01,30	RD6,2E82	ツェナーダイオード			
TR321	42,00,00 IZ 00,01,30	RD4,7E	"			
TR322	42,00,00 IF 00,14,70	RD4,7E	"			
O309-312	42,00,00 IF 00,08,30	1S1555	ダイオード			
O313-316	42,00,00 IF 00,00,40	Diode	ミニチュアコネクタコンデン			
	42,00,00 LB 20,17,50	Miniature Connector Pin 2P	"			
	42,00,00 LB 40,07,90	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
C501, 502	42,00,00 FZ 00,23,40	Electrolytic Cap. 12000μF 80V	ケミコン			
C503, 504	42,00,00 FZ 00,23,30	6800μF 50V	"			
C505, 506	42,00,00 FZ 00,23,20	3300μF 80V	"			
C507	42,00,00 UW 69,63,30	3.3μF 100V	"			
C508, 509	42,00,00 FC 10,63,30	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			
RS5, 506	42,00,00 HN 75,73,30	33kΩ	"			
RS07, 508	42,00,00 HJ 35,17,100	10kΩ	"			
RS09, 510	42,00,00 HJ 35,61,100	1kΩ	"			
RS11	42,00,00 HJ 35,66,80	6.8kΩ	"			
RS12	42,00,00 HJ 35,56,80	680Ω	"			
RS13-515	42,00,00 HJ 35,66,80	6.8kΩ	"			
RS16	42,00,00 HJ 35,45,90	56Ω	"			
TR501	42,00,00 IC 22,40,00	Transistor 2SC2240 (GR, BL)	トランジスタ			
D501	42,00,00 IH 00,08,50	Diode Bridge PB102L	ダイオードブリッジ			
D502	42,00,00 IH 00,06,80	5.5188	"			
D503	42,00,00 IH 00,04,70	1D481	ダイオード			
D504	42,00,00 IH 00,02,40	1S1885	"			
	42,00,00 LB 40,05,70	Connector (male) 4P	2.5ピッチヘースピン			
	42,00,00 NB 09,79,00	Plug (with wire) 6P 3191,06P	リーフ付プラグ			
	42,00,00 LA 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 00,24,00	" P = 7.5 3P "	"			
	42,00,00 CA 07,06,40	Isolation Plate	絶縁板			
	42,00,00 CB 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 80,17,00	Push Switch SPJ-222	スイッチ			
PL601	42,00,00 LB 20,16,20	Pin Jack 2P	ピンジャック			
	32,00,00 MZ 07,89,80	Pin Jack Connector Assy	ピンジャックコネクタ Assy			

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 FI	Ceramic Cap. 0.0033 $\mu$ F 125V	セラミック			
* C403	42,00,00 FC	Metallized Mylar Cap. 0.22 $\mu$ F 125V	M M コ ン			
* C404	42,00,00 FA	Metallized Mylar Cap. 0.47 $\mu$ F 50V	マイラ コ ン			
C405	42,00,00 FG	Ceramic Cap. 470pF 50V	セラミック			
* C406	42,00,00 FC	Metallized Mylar Cap. 0.1 $\mu$ F 125V	M M コ ン			
* C407	42,00,00 UW	Electrolytic Cap. 100 $\mu$ F 6.3V	ケ ミ コ ン			
* C408	42,00,00 FH	Ceramic Cap. 0.001 $\mu$ F 500V	セラミック			
* C409	42,00,00 FA	Mylar Cap. 0.033 $\mu$ F 50V	マイラ コ ン			
L401	42,00,00 GD	Coil 100k $\Omega$	コイル			
R401, 402	42,00,00 HK	Carbon Resistor 120k $\Omega$	カーボン抵抗			
R403	42,00,00 HK	" 56k $\Omega$	"			
R404	42,00,00 HK	" 15k $\Omega$	"			
R405	42,00,00 HK	" 2.2M	"			
R406	42,00,00 HL	Metal Oxide Film Resistor 2P 18k $\Omega$	酸 金 抵 抗			
R407	42,00,00 HK	Carbon Resistor 2.7k $\Omega$	カーボン抵抗			
R408	42,00,00 HK	" 15 $\Omega$	"			
R409	42,00,00 HV	Flame Proof Resistor 470 $\Omega$	不燃化カーボン抵抗			
R410	42,00,00 HK	Carbon Resistor 3.9k $\Omega$	カーボン抵抗			
R411	42,00,00 HL	Metal Oxide Film Resistor 2P 390 $\Omega$	酸 金 抵 抗			
R412	42,00,00 HV	Flame Proof Resistor 18 $\Omega$	不燃化カーボン抵抗			
R413, 414	42,00,00 HK	Carbon Resistor 220k $\Omega$	カーボン抵抗			
R415	42,00,00 HK	" 100k $\Omega$	"			
R416	42,00,00 HK	" 39k $\Omega$	"			
R417	42,00,00 HK	" 10k $\Omega$	"			
R418	42,00,00 HK	" 820 $\Omega$	"			
R419	42,00,00 HK	" 1.5k $\Omega$	"			
R420	42,00,00 HK	" 39 $\Omega$	"			
R421, 422	42,00,00 HK	Carbon Resistor 10k $\Omega$	カーボン抵抗			
R423	42,00,00 HK	" 39k $\Omega$	"			
R424	42,00,00 HK	" 39k $\Omega$	"			
R425-427	42,00,00 HK	" 39k $\Omega$	"			
R428-429	42,00,00 HT	Solid Semi Variable Resistor BA,7k $\Omega$	ソリッドポリアーム			
TR401	42,00,00 IC	Transistor 2SC1815	トランジスタ			
TR402	42,00,00 IA	" 2SA777 Q, R	"			
TR403	42,00,00 IA	"	"			
TR404	42,00,00 IK	Photo coupler	フォトカプラ			
D401	42,00,00 IH	Diode Bridge S1WB-20	ダイオードブリッジ			
D402, 403	42,00,00 IF	Diode S1S55	ダイオード			
D404, 405	42,00,00 IF	Zener Diode RD6,2EB2	ツェナーダイオード			
D406	42,00,00 IF	Diode S1S55	ダイオード			
IC401	42,00,00 IG	IC (Trigger) AC16D1F-L	トリガー IC			
* SCR401	42,00,00 IH	Triac SMDR5G42	トライアック			
* SCR402	42,00,00 IH	"	"			
F401	42,00,00 KB	Fuse UL 15A 125V	ヒューズ			
"	42,00,00 KB	" 15A 125V	"			
"	42,00,00 LB	Fuse Holder Pin PC	ヒューズホルダーピン			
"	42,00,00 LB	Connector (male) 3P	2.5 ピッチヘースピン			
"	42,00,00 LB	" ( " ) 4P	"			
"	42,00,00 LA	Wrapping Terminal P = 10 2P L-type	1型ラッピング端子板			
"	42,00,00 LA	" P = 10 2P L-type	1型ラッピング端子板			
"	42,00,00 LA	" P = 5 2P L-type	1型ラッピング端子板			
"	42,00,00 LA	" P = 5 2P L-type	"			
"	42,00,00 CB	Spacer, Anti-Vibration	防振スパーサー			
"	32,00,00 CB	Rubber Cap	ゴムキャップ			



Ref. No.	Part No.	Description	(部 品 名)	Remarks	Common model	Markets
	3200000	North European Model Power Supply C. Board	電 源 シ ー ト			
*C401~403	42,00,00	FR 16,36,80 Metalized Paper Cap.	M P コ ン			G
*C404	42,00,00	FR 15,54,70 "	"			
C405	42,00,00	FA 85,54,70 Mylar Cap.	マ イ ラ ー コ ン			
C406	42,00,00	FG 51,24,70 Ceramic Cap.	セ ラ コ ン			
C407	42,00,00	FO 09,46,80 Oil Cap.	オ イ ル コ ン			
C408	42,00,00	UW 81,81,00 Electrolytic Cap.	ケ ミ コ ン			
C409	42,00,00	FH 21,31,00 Ceramic Cap.	セ ラ コ ン			
C410	42,00,00	FA 81,43,30 Mylar Cap.	マ イ ラ ー コ ン			
L401	42,00,00	GD 90,03,80 Coil	コ イ ル			
R401~404	42,00,00	HK 35,83,30 Carbon Resistor	カ ー ボ ン 抵 抗			
R405, 406	42,00,00	HK 35,81,80 "	"			
R407	42,00,00	HK 35,71,50 "	"			
R408	42,00,00	HL 82,73,30 Metal Oxide Film Resistor 2P 33kΩ	酸 金 抵 抗			
R409	42,00,00	HK 35,62,70 Carbon Resistor	カ ー ボ ン 抵 抗			
R410	42,00,00	HK 35,92,20 "	"			
R411	42,00,00	HV 35,41,50 Flame Proof Resistor 15Ω	不 燃 化 カ ー ボ ン 抵 抗			
R412	42,00,00	HK 35,54,70 Carbon Resistor	カ ー ボ ン 抵 抗			
R413	42,00,00	HL 82,53,90 Metal Oxide Resistor 2P 390Ω	酸 金 抵 抗			
R414	42,00,00	HV 35,41,80 Flame Proof Resistor 18Ω	不 燃 化 カ ー ボ ン 抵 抗			
R415, 416	42,00,00	HK 35,73,90 Carbon Resistor	カ ー ボ ン 抵 抗			
R417	42,00,00	HK 35,82,20 "	"			
R418	42,00,00	HK 35,81,00 "	"			
R419	42,00,00	HK 35,73,90 "	"			
R420	42,00,00	HK 35,71,00 "	"			
R421	42,00,00	HK 35,58,20 "	"			
R422	42,00,00	HK 35,61,50 "	"			
R423 R424	42,00,00	HK 35,43,90 Carbon Resistor	カ ー ボ ン 抵 抗			
R425	42,00,00	HK 35,63,90 "	"			
R426	42,00,00	HK 35,71,00 "	"			
R427~429	42,00,00	HK 35,73,90 "	"			
VR401 VR402	42,00,00	HT 41,00,40 Solid Sem. Variable Resistor 84.7kΩ	ソ リ ッ ト ボ リ ュ ム			
TR401	42,00,00	IC 18,15,00 Transistor	ト ラ ン ジ ス ト			
TR403 TR404	42,00,00	IA 07,77,30 "	"			
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	ダイ オード ブリッジ			
D402, 403	42,00,00	IF 00,00,40 Diode	ダイ オード			
D404, 405	42,00,00	IF 00,14,70 Zener Diode	ツェナーダイオード			
D406	42,00,00	IF 00,00,40 Diode	ダイ オード			
IC401	42,00,00	IG 04,08,00 IC (Trigger)	トリガー IC			
SCR401	42,00,00	IH 00,10,20 Triac	トリアック			
SCR402	42,00,00	IH 00,09,00 "	"			
F401	42,00,00	KB 00,22,40 Fuse F6.3A 250V	ヒ ュ ー ス			
	42,00,00	LB 20,15,30 Fuse Holder Pin	ヒューズホルダーピン			
	42,00,00	LB 30,07,30 Connector (male)	2.5ピッチヘスピン			
	42,00,00	LA 00,21,40 Lapping Terminal P = 10 2P	1型ラッピング端子板			
	42,00,00	LA 00,24,10 " P = 10 2P	L型ラッピング端子板			
	42,00,00	LA 00,21,10 " P = 5 2P	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			