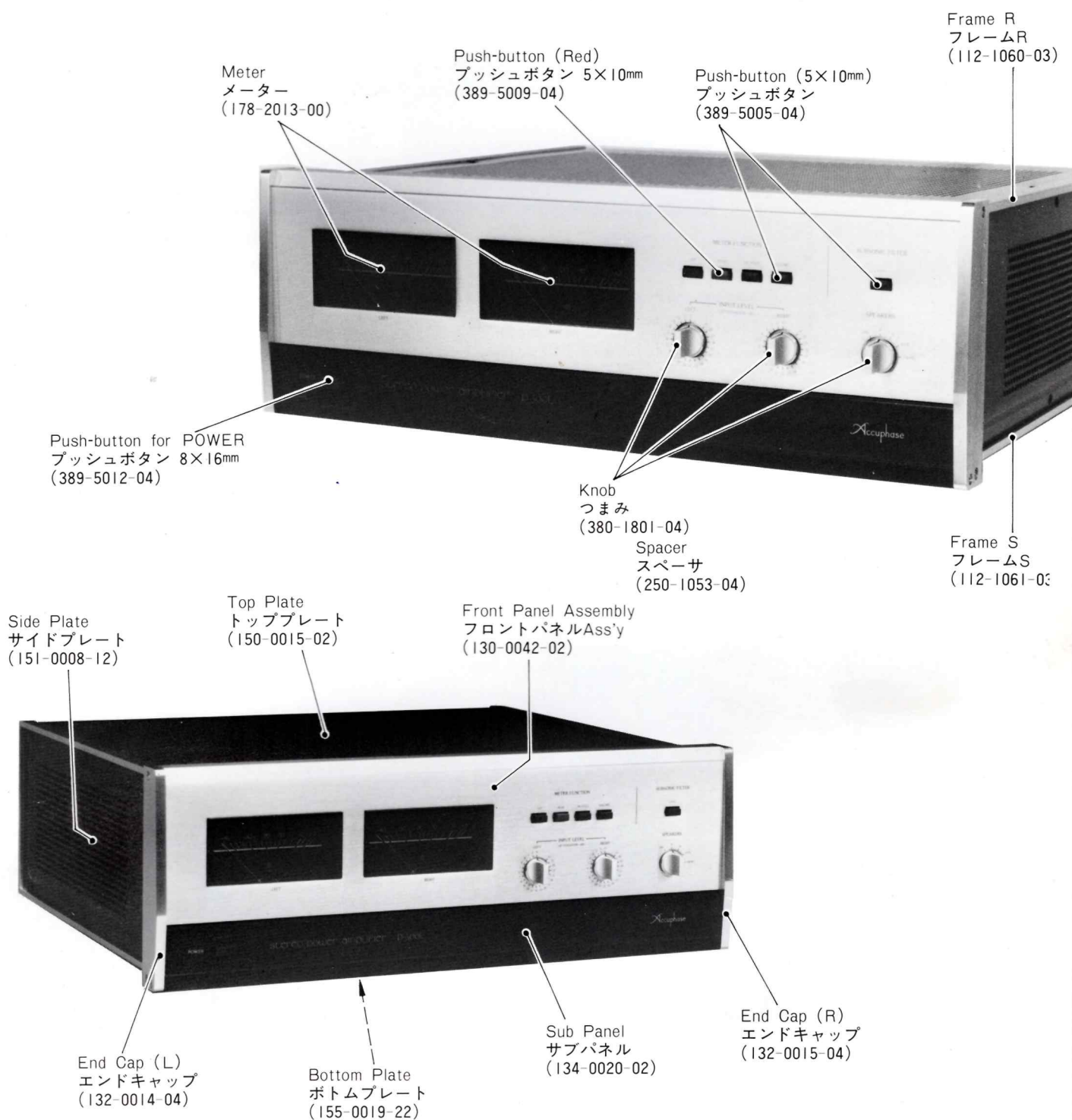


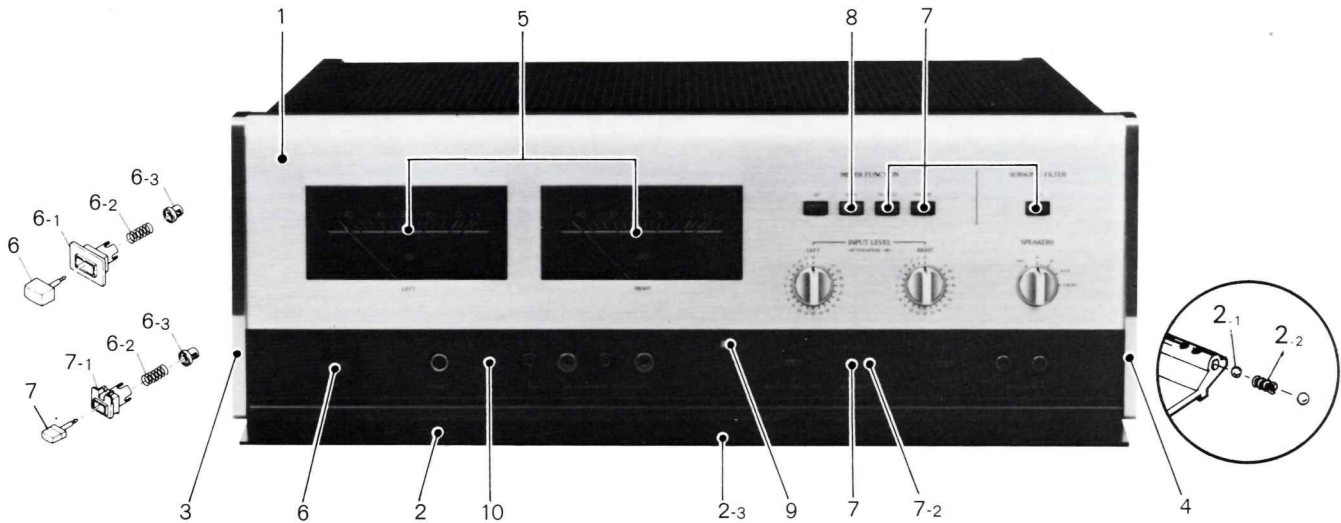
# Accuphase Service Information

STARTING WITH SERIAL NO. F4Y001



STEREO POWER AMPLIFIER P-300L

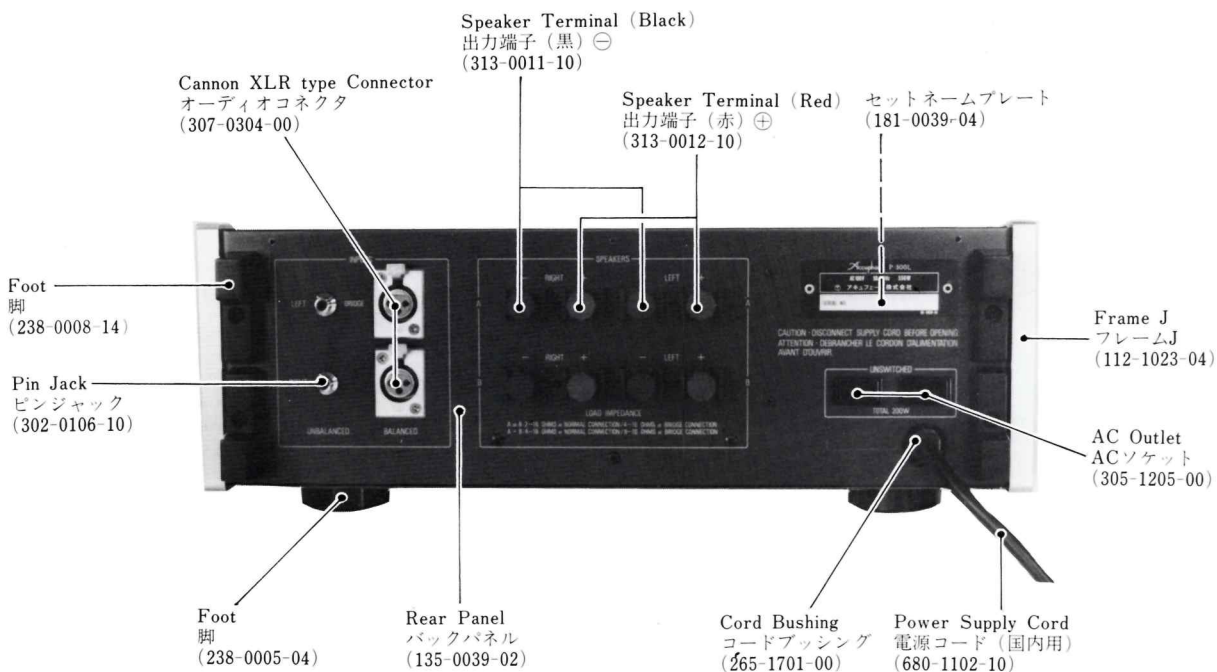
# FRONT VIEW (前面)



Front Panel Assembly  
フロントパネルAss'y  
(130-0042-02)

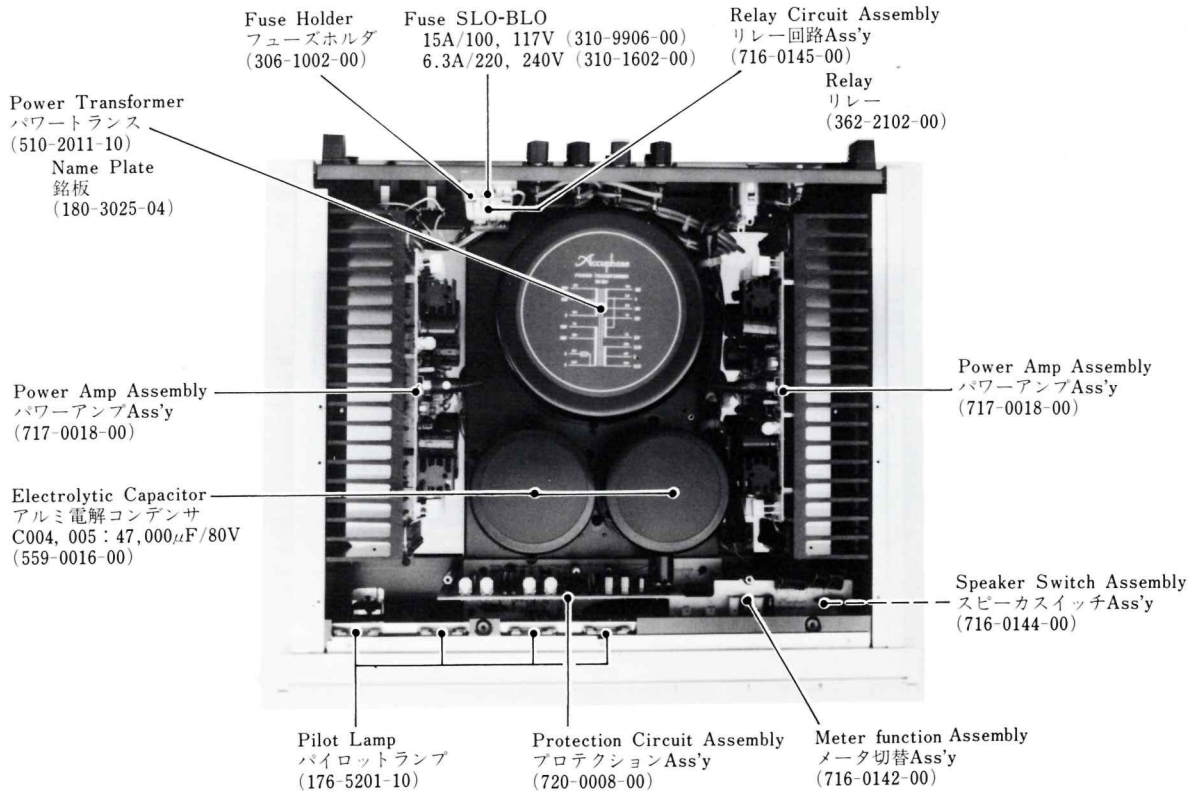
- |     |   |       |     |   |             |
|-----|---|-------|-----|---|-------------|
| 1   | Front Panel=131-0042-02<br>フロントパネル                | 1pc.  | 7   | Push-button (5×10mm) Brown=389-5005-04<br>プッシュボタン(茶)  | 7pcs.       |
| 2   | Sub Panel=134-0020-02<br>サブパネル                    | 1pc.  | 7-1 | Frame for (5×10mm)=113-0015-04<br>プッシュボタンフレーム   | 8pcs.       |
| 2-1 | Ball Bearing=220-0301-00<br>ボールベアリング              | 2pcs. | 7-2 | Frame for BRIDGE, REAR INPUT=113-0028-04<br>プッシュボタンフレーム   | 2pcs.       |
| 2-2 | Coil Spring=285-1001-04<br>コイルスプリング               | 1pc.  | 8   | Push-button (5×10mm) Red=389-5009-04<br>プッシュボタン(赤)  | 1pc.        |
| 2-3 | Catcher=272-0002-00<br>キャッチャ                      | 1pc.  | 9   | Frame for Opener=113-0022-04<br>開閉器用プッシュボタンフレーム<br>(Push-button with Magnet=389-0601-00)<br>マグネット付プッシュボタン | 1pc.        |
| 3   | Panel End Cap(L)=132-0014-04<br>パネルエンドキャップ        | 1pc.  | 10  | Panel Name Plate=180-1025-03<br>パネルネームプレート  | 1pc.        |
| 4   | Panel End Cap(R)=132-0015-04<br>パネルエンドキャップ        | 1pc.  | 11  | Soft Tape=258-4300-04<br>ソフトテープ   | 10×20×300mm |
| 5   | Front Glass=172-0017-04<br>フロントガラス                | 2pcs. |     |   |             |
| 6   | Push-button (8×16mm)=389-5012-04<br>プッシュボタン POWER | 1pc.  |     |   |             |
| 6-1 | Frame for (8×16mm)=113-0021-04<br>プッシュボタンフレーム     | 1pc.  |     |   |             |
| 6-2 | Coil Spring=285-1003-04<br>コイルスプリング               | 9pcs. |     |   |             |
| 6-3 | Spring Stopper=284-0007-04<br>スプリングストッパー          | 9pcs. |     |   |             |

# REAR VIEW (後面)

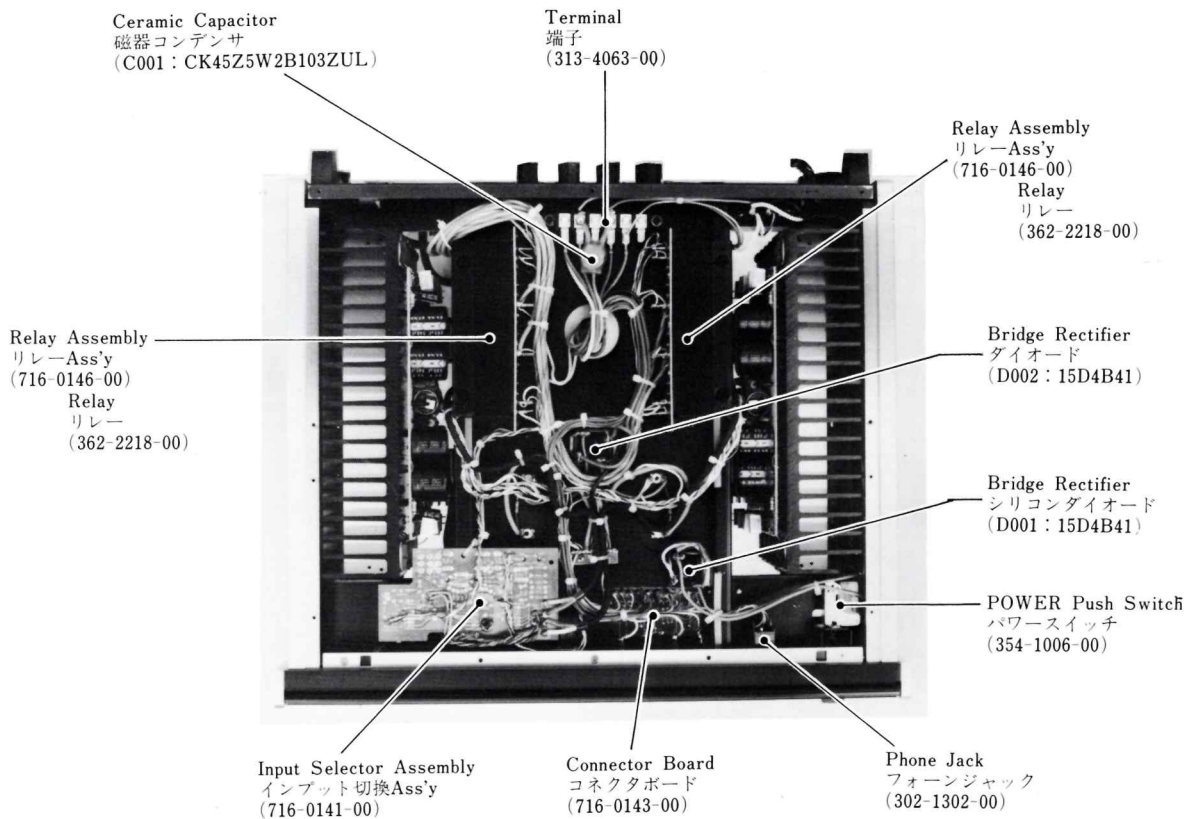


\*for European Model  
(680-3301-20) 3-Conductor

# TOP VIEW (上面)

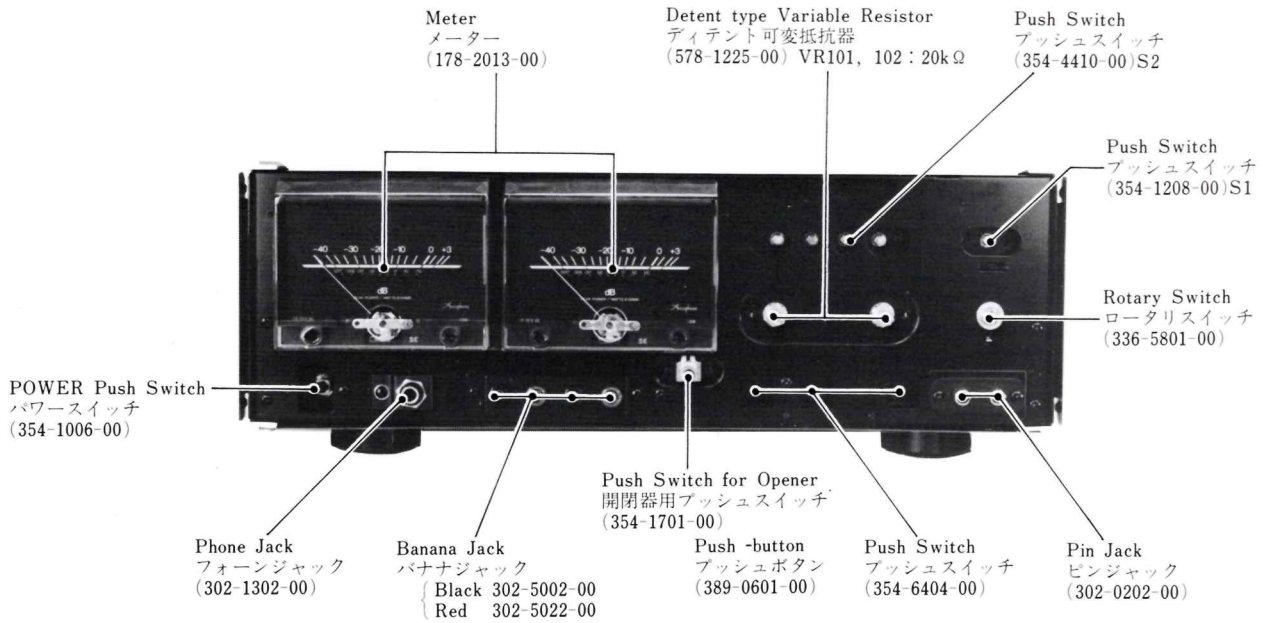


# BOTTOM VIEW (底面)

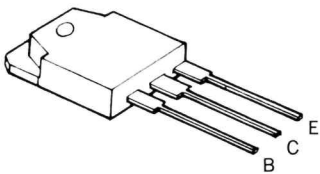




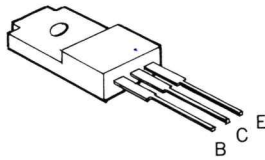
# FRONT VIEW (SUB-CHASSIS SIDE) (サブシャーシ前面図)



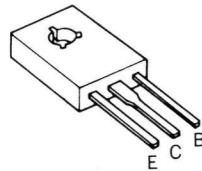
## SEMICONDUCTORS



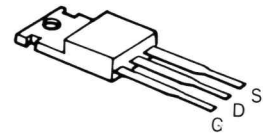
2SA1146  
2SC2706



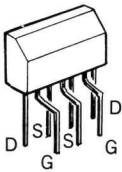
2SA1306  
2SC3298



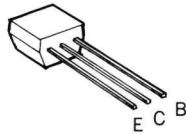
2SA1142  
2SC1162  
2SC2682



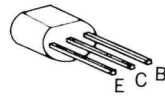
2SJ76  
2SK213



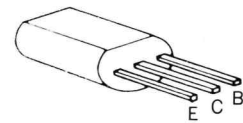
2SK389  
2SJ109



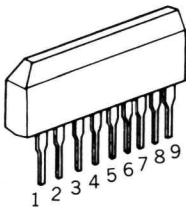
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2SA1150  
2SC2458  
2SC2710



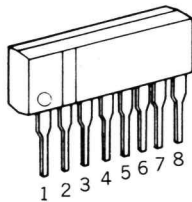
2SA872  
2SA1015  
2SA1316  
2SC1775  
2SC1815  
2SC3329



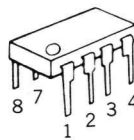
2SA965  
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2SA1145  
2SB647  
2SB716  
2SC2235  
2SC2655  
2SC2705  
2SD667  
2SD756



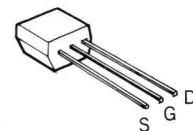
TA7318P



HA12002



NJM4559  
 $\mu$ PC4082



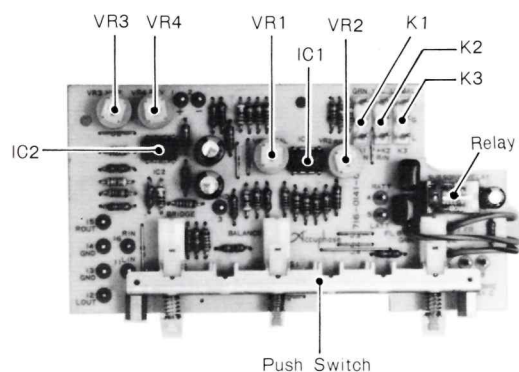
2SK184  
2SK330

# MISCELLANEOUS (その他使用部品)

No.	Description (部品名)	Part No. (部品No.)	Remarks (備考)	No.	Description (部品名)	Part No. (部品No.)	Remarks (備考)																																			
VR101,102	Pilot Lamp Pilot パイロットランプ	176-5201-00	8V/300mA 4pcs.	Screws for ネジ類	Front Panel フロントパネル用(皿ネジ)	613-0308-04	3×8mm Flat Head B type Self Tapping 6pcs.																																			
	Hexa Boss 六角ボス	251-6971-04 251-6071-14	97mm length 7mm length		Sub Panel サブパネル用	600-0310-04	3×10mm Pan Head ISO Metric 2pcs.																																			
	Fuse SLO-BLO 15A フューズ 6.3A	310-9906-00 310-1602-00	for at 100, 117V for at 220, 240V		Nylon Washer ナイロンワッシャー	637-1031-50	1pc.																																			
	Detent type Variable Resistor ディテント可変抵抗器	578-1225-00	20kΩ		End Cap エンドキャップ用 (ナベタッピング)	617-0310-04	3×10mm Pan Head B type Self Tapping 4pcs.																																			
	D001,002	Bridge Rectifier シリコンダイオード	15D4B41			Top Plate トッププレート用 (バインドタツプタイト)	614-0306-02	3×6mm Binding Head B type Self Tapping 3pcs.																																		
C001				Ceramic Capacitor 磁気コンデンサ		CK43Z5W2B103ZUL	0.01μF/125V	622-0308-00	3×8mm Oval Head Self Tapping 2pcs. 3pcs.																																	
	C002,003	Metalized Film Capacitor MDコンデンサ	CQ93M2J103M		0.01μF/630V					614-0306-02	3×6mm Oval Head Self Tapping 12pcs.																															
C004,005				Electrolytic Capacitor アルミ電解コンデンサ		559-0016-00	47,000μF/80V	614-0306-02	3×6mm Binding Head B type Self Tapping 7pcs.																																	
	R001	Oxide Metal Film Resistor 全膜酸化物被膜抵抗器	RS143AA100J		10Ω 1W ±5%					614-0310-02	3×10mm Binding Head B type Self Tapping 4pcs.																															
R002,003				Carbon Film Resistor 炭素被膜抵抗器		RD142HA363J	36kΩ 1/2W ±5%	614-0310-02	3×10mm Binding Head Self Tapping 11pcs.																																	
	Accessories 付属品	Power Supply Cord 電源コード	680-1102-10 680-3301-20		3-Conductor					Meter メータ用 (バインドタツプタイト)	614-0310-02	3×10mm Binding Head Self Tapping 4pcs.																														
Banana Plug バナナプラグ				301-5001-00 301-5021-00		(Black) (Red)	600-0414-01	4×14mm Pan Head ISO Metric 4pcs.																																		
									Owner's Manual 取扱説明書				820-2047-00 820-0047-00	620-0416-00	4×16mm Pan Head B type Self Tapping 4pcs.																											
Packing Material 梱包部品	Outer Carton Box カートンボックス(外箱)	800-0062-04		Bottom side 底板側(ナベタッピング)	600-0414-01	4×14mm Pan Head ISO Metric 4pcs.																																				
							Inner Carton Box カートンボックス(内箱)	801-0062-04		Rear side 背面側(ナベタッピング)	620-0416-00	4×16mm Pan Head B type Self Tapping 4pcs.																														
													Front Pad フロントパッド	803-0047-12		Power Transistor パワートランジスタ用	614-0310-02	3×10mm Binding Head Self Tapping 11pcs.																								
																			Rear Pad 後部パッド	803-0049-22		Foot 脚用	600-0414-01	4×14mm Pan Head ISO Metric 4pcs.																		
																									Cover 保護カバー	810-4046-04		Bottom side 底板側(ナベタッピング)	600-0414-01	4×14mm Pan Head ISO Metric 4pcs.												
																															Rear side 背面側(ナベタッピング)	620-0416-00		Rear side 後部パッド	803-0049-22	4×16mm Pan Head B type Self Tapping 4pcs.						
																																					Cover 保護カバー	810-4046-04		Cover 保護カバー	810-4046-04	保護カバー

## Input Selector Assembly (716-0141-00)

### インプット切替Ass'y



Connector Plug コネクタプラグ	308-0301-00	3pin K1, 2, 3
Push Switch プッシュスイッチ	354-6404-00	
Relay リレー	362-1201-00	SUBSONIC
Potentiometer 半固定抵抗器	580-0551-00	VR1, 2, 3, 4 (470kΩ)
ICs	IC1, 2	NJM2041D-D
Capacitors	C1, 2, 6	CC14SL1H180J 18pF/50V
	C3, 4	CE04W1E101USM 100μF/25V
	C5	CC14SL1H100J 10pF/50V
	C7	CE04W1E470USM 47μF/25V
	C8, 9	CF922N1H105J 1μF/50V
Carbon Film Resistors	R15~21, 26 28~34	RD142EA.....J 1/4W ±5%
Metal Film Resistors	R1~12, 22~24 27	RN142EK.....F 1/4W ±1%
Solid Resistor	R13, 14, 25	RC142EGF186J 18MΩ 1/4W ±5%

## Meter Function Assembly (716-0142-00)

### メータ切替Ass'y

Connector Jack コネクタジャック	307-0402-00	4pin K2
	307-0504-00	5pin K3
	307-0801-00	8pin K1
Push Switch プッシュスイッチ	354-1208-00	S1
	354-4410-00	S2

## Connector Board (716-0143-00)

### コネクタボード

Connector Jack コネクタジャック	307-0201-00	2pin K1
	307-0305-00	3pin K1
Connector Plug コネクタプラグ	308-0501-00	
	308-0901-00	
Diodes	D1, 2	S5277B
Metal Film Resistors	R1, 2	RN143DA2R7J 2.7Ω 2W ±5%

## Speaker Switch Assembly (716-0144-00)

### スピーカスイッチAss'y

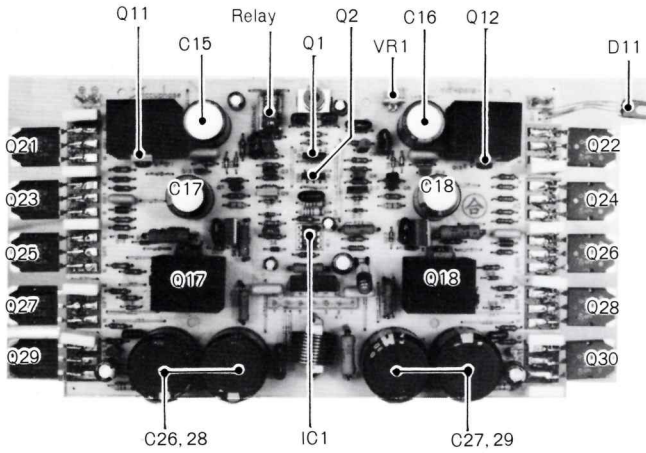
Connector Jack コネクタジャック	307-0402-00
Rotary Switch ロータリスイッチ	336-5801-00

## Relay Circuit Assembly (716-0145-00)

### リレー回路Ass'y

Fuse Holder フューズホルダ	306-1102-00	
Hexa Boss 六角ボス	251-6071-14	7mm length
Relay リレー	362-2102-00	
Diodes	D1	S1YB10
Resistors	R1~6	RW993FJ1ROK 1Ω 3W
Capacitor	C1	CE04W1V101USM 100μF/35V

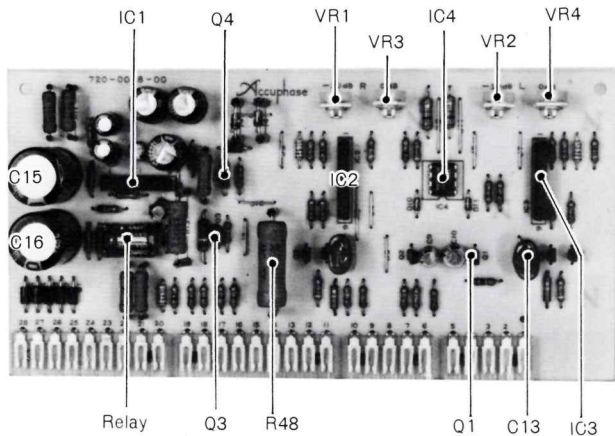
**Power Amp Assembly (717-0018-00)**  
**パワーアンプ Ass'y**



PC Board PCボード	115-0293-13	
Heat Sink Heat Sink ヒートシンク	240-0016-02 240-2004-20	for Final for Q11, 12, 17, 18
Hexa Boss 六角ボス	251-6071-14	7mm length
Pin Jack ピンジャック	302-0104-00	K2
Connector Plug コネクタプラグ	308-0701-00	7pin K1
Transistor Insulator マイカ板	318-0402-00	10pcs.
Choke Coil チョークコイル	506-0003-00	L1
Relay リレー	362-1201-00	SUBSONIC
Potentiometer 100Ω-B 半固定抵抗器	581-0122-00	VR1 : for Bias
Diodes	D1, 2 D3, 4, 7~10, 20~23(LED) D5, 6(Zener) D11(Varistor) D12~17, 24, 25 D28 D26, 27	1S1555 LT-8001P HZ162L STV-3H-O 1SS81 UB152 S5277B

IC	IC1	NJM4559D-F,S	
Transistors FETs	Q1(FET) Q2(FET) Q3, 5, 8 Q4, 6, 7 Q9, 11 Q10, 12 Q13, 15 Q14, 16 Q17 Q18 Q19(FET) Q20(FET) Q21, 23, 25, 27, 29 Q22, 24, 26, 28, 30	2SK389-BL 2SJ109-BL 2SC2705-O,Y 2SA1145-O,Y 2SA1142-P,Q 2SC2682-P,Q 2SD667 2SB647 2SC3298-O,Y 2SA1306-O,Y 2SK213 2SJ76 2SC2706B-O,Y 2SA1146B-O,Y	
Capacitors	C1, 2 C3 C4 C5, 6 C7 C8 C9 C10 C11, 12 C13, 14, 30, 31 C15~18 C19, 20 C21, 22 C23, 24 C25 C26~29 C32 C33, 34	CF922N1H124J CE04W1E470USM CM93D2A181J CM93D2A331J CQ922PP2A332J CM93D2A330J CE04W1E100ARB CQ09S2B331J-C CE04W1E220USM CQ922PP2E103K-S CE04W2A101AR2 CM93D2F101J CQ93PP2A472JM CF922N2A104M CQ93PP2A223JM CE04W1K681LP2 CE04W1HR47USM CE04W2A100USM	0.12μF/50V 47μF/25V 180pF/100V 330pF/100V 3.300pF/100V 33pF/100V 10μF/25V 330pF/125V 22μF/25V 0.01μF/250V 100μF/100V 100pF/315V 4.700pF/100V 0.1μF/100V 0.022μF/100V 680μF/80V 0.47μF/50V 10μF/100V
Carbon Film Resistors	R3, 4, 6~15, 20~23, 26, 29 32~34, 39, 40 44~63	RD142EA.....J	1/4W ±5%
Solid Resistor	R2	RC142EGF156J	15MΩ 1/4W ±5%
Metal Film Resistors	R1, 5, 16, 17 R24, 25, 41, 42 R76, 77	RN142EK.....F RN142HA.....F RN143AA.....J	1/4W ±1% 1/2W ±1% 1W ±5%
Oxide Metal Film Resistors	R27, 28, 43 R37, 38, 75	RS143AA.....J RS143DA.....J	1W ±5% 2W ±5%
Fuse Resistor	R30, 31	RF142EA560J	56Ω 1/4W ±5%
Metal Plate Resistors	R64~73	RW993DJR47K	0.47Ω 2W ±10%
Cement Resistor	R74	RW983D100K	10Ω 2W

**Protectin Circuit Assembly (720-0008-00)**  
**プロテクション Ass'y**



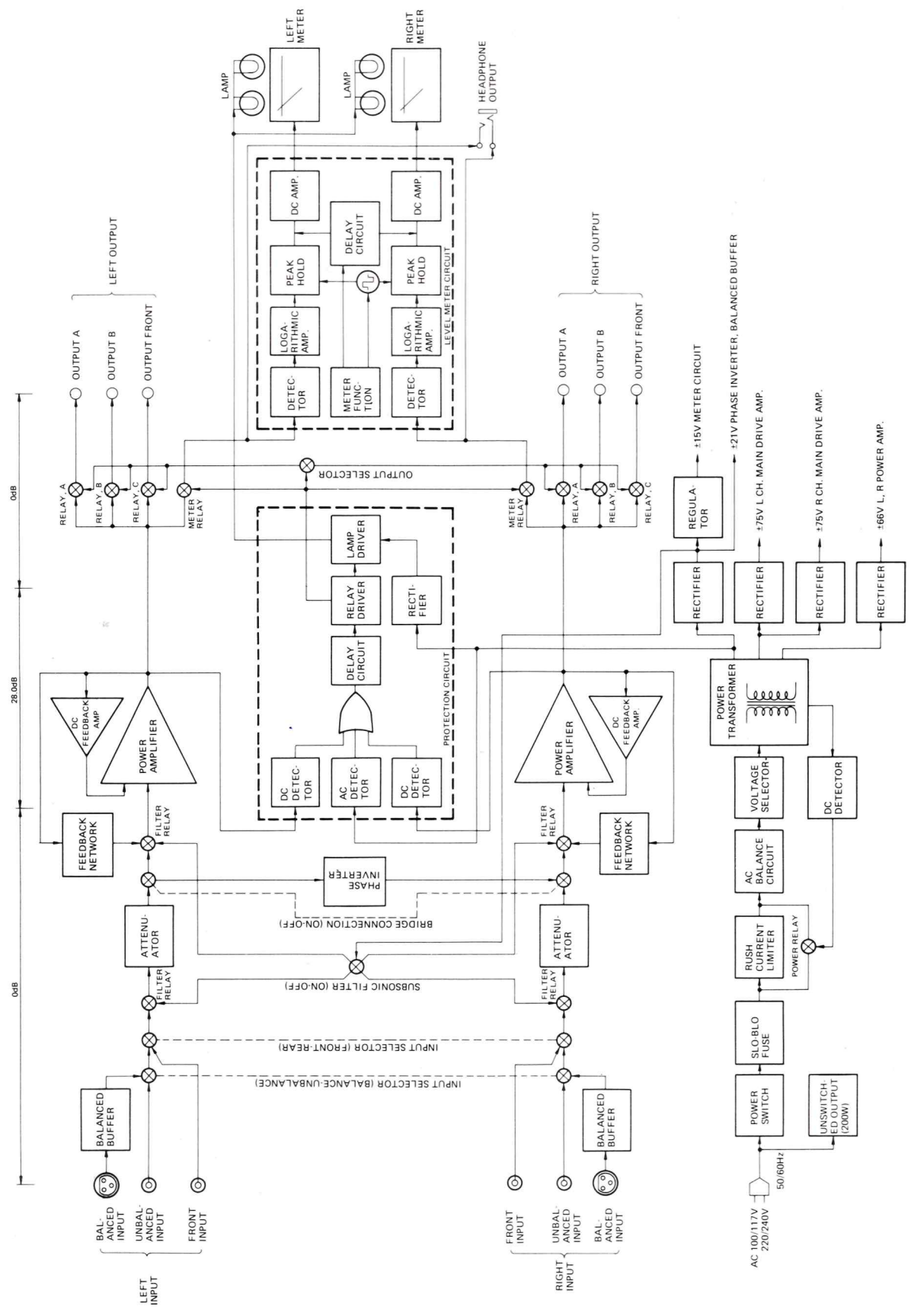
PC Board PCボード	115-0294-14	
Connector Jack コネクタジャック	307-0506-00 307-0904-00	
Relay	362-2217-00	
Potentiometer 半固定抵抗器	(47kΩ) 581-0542-00 (470Ω) 581-0522-00	VR1, 2 : -30dB CAL VR3, 4 : 0dB CAL
Diodes	D1~5, 9 D6, 7 D8 D10, 11	S5277B RD15F-B3 1S1555 1SS104

Transistors FETs	Q1, 2 Q3 Q4 Q5, 6(FET) Q7, 8(FET)	2SA1048-GR 2SB647 2SC1162-C 2SK184-GR 2SK330-Y,GR	
ICs	IC1 IC2, 3 IC4	HA12002 TA7318P-2 μPC4082C	
Capacitors	C1, 4 C2, 3 C5 C6, 7 C8, 11, 12 C9 C10 C13, 14 C15, 16 C17, 18	CE04W1E100USM CE04W1A101USM CE04W1A331USM CE04W1C221USM CG14X1H222N CE04W1HR22RNB CE04W1E100RNB CQ922PP2A104K CE04W1V102USM CK14B1H102K	10μF/25V 100μF/10V 330μF/10V 220μF/16V 2.200pF/50V 0.22μF/50V 10μF/25V 0.1μF/100V 1.000μF/35V 1.000pF/50V
Carbon Film Resistors	R1~4, 7~9, 14~18 20~23, 26~41, 44~47 R12, 24, 25	RD142EA.....J RD142HA.....J	1/4W ±5% 1/2W ±5%
Solid Resistors	R42, 43	RC142EGF186J	1/4W ±5%
Oxide Metal Film Resistor	R13 R5, 6, 10, 11, 19	RS143DA302J RS143A.....J	3kΩ 2W ±5% 1W ±5%
Metal Film Resistor	R48	RN143FA8R2J	8.2Ω 3W ±2%
Relay リレー			362-2218-00
Diodes	D1~3	1S1555	

**Relay Assembly (716-0146-00)**  
**リレー Ass'y**



# BLOCK DIAGRAM



# CIRCUIT ADJUSTMENT (回路調整)

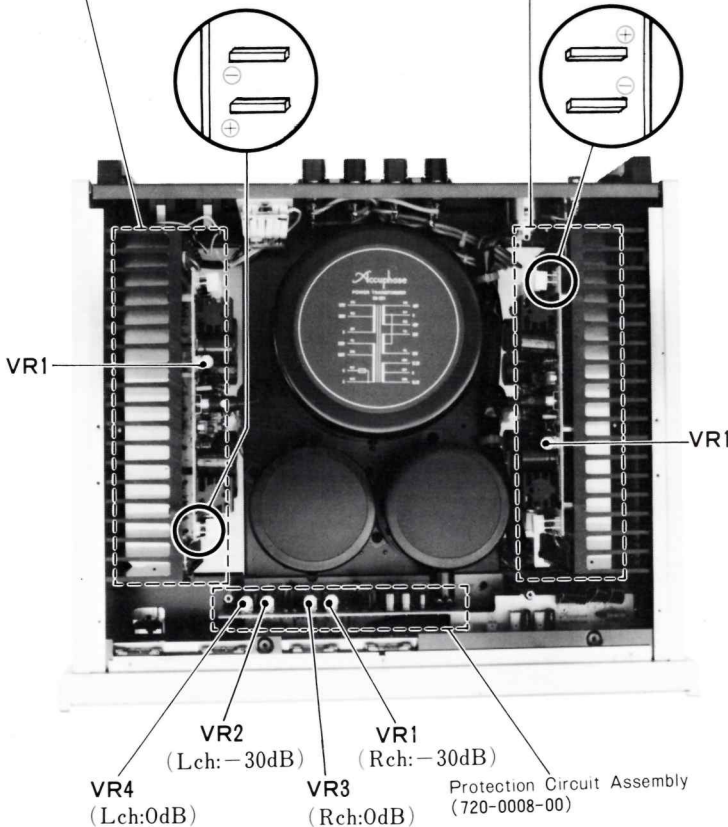
- Notes ※1. Internal input resistance of volt-ohm meter should be higher than 10 k ohms.  
 テスターは、入力抵抗10kΩ以上のものをお使い下さい。
- ※2. Adjustments should be made in case of the PC Board or Transistors being changed.  
 調整はPCボードあるいはトランジスタを交換した場合行って下さい。
- ※3. After feeding 1~10 watts output for about 15 minutes, check bias adjustments again.  
 出力1~10ワット前後で通電動作させた後、バイアス電流を再チェックする。

STEP ステップ	ADJUST ITEM 調整項目	PROCEDURE 電圧検出		ADJUST 調整箇所	REMARKS 調整・備考
		TEST EQ'PT 検出器	CONNECTING POINT 接続点		
<b>POWER AMP ASSEMBLY (717-0018-00)</b> パワーアンプAss'y					
1	Bias Current of Lch. Power Amp. Lch. バイアス電流	V.O. Meter Set range to less than DC0.3V	Test Point Pin (+) and (-)	VR1 for Lch.	Adjust for "25 mV" reading of V.O. Meter テスターの指示"25mV" に調整
2	Bias Current of Rch. Power Amp. Rch. バイアス電流	テスター DC0.3V以下のレンジ	テストポイント⊕, ⊖	VR1 for Rch.	
<b>METER CALIBRATION (Located PROTECTION CIRCUIT ASSEMBLY 720-0008-00)</b> メータ調整					
Note 1. Adjustment should be repeated until correct meter indication is obtained. 1~4の調整はメータの指示が正しくなるまで数回繰返して下さい。					
Note 2. Meter function switch is set at Peak position. メーターファンクションスイッチはPEAKポジションをON					
1	Peak-0 dB Calibration for Lch. Lch : 0 dB 校正	VTVM Input : 1kHz Sine Wave 入力 1kHz正弦波 Load : None	Speaker Terminals 出力端子	VR4	Adjust input signal so that VTVM reads 36.88V. Then adjust VR3 and VR4 so that Meter read 0 dB. VTVMの指示36.88Vになる入力信号 を入れ、メータの指示が0 dBとなる ようにVR3,4を調整
2	Peak-0 dB Calibration for Rch. Rch : 0 dB 校正			VR3	
3	-30dB Calibration for Lch. Lch : -30dB 校正			VR2	
4	-30dB Calibration for Rch. Rch : -30dB 校正			VR1	

Lch.  
Power Amp Assembly  
(717-0018-00)

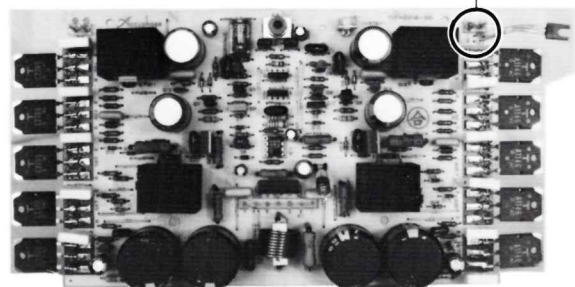
Rch. Power Amp Assembly  
(717-0018-00)

## CHECKING/ADJUSTMENT of Power Amp Stage パワーアンプ回路のチェック



Power Amp Assembly

※ Connect SHORT terminal for class-C



Under normal circumstances, heat sink is indispensable for final stage. However, if it is operated under class-C temporarily, circuit check can be made without heat sink.

メイン回路は通常の動作ではヒートシンクが必要ですが、C級動作をさせる事によってヒートシンクなしで基板を動作チェックする事ができます。

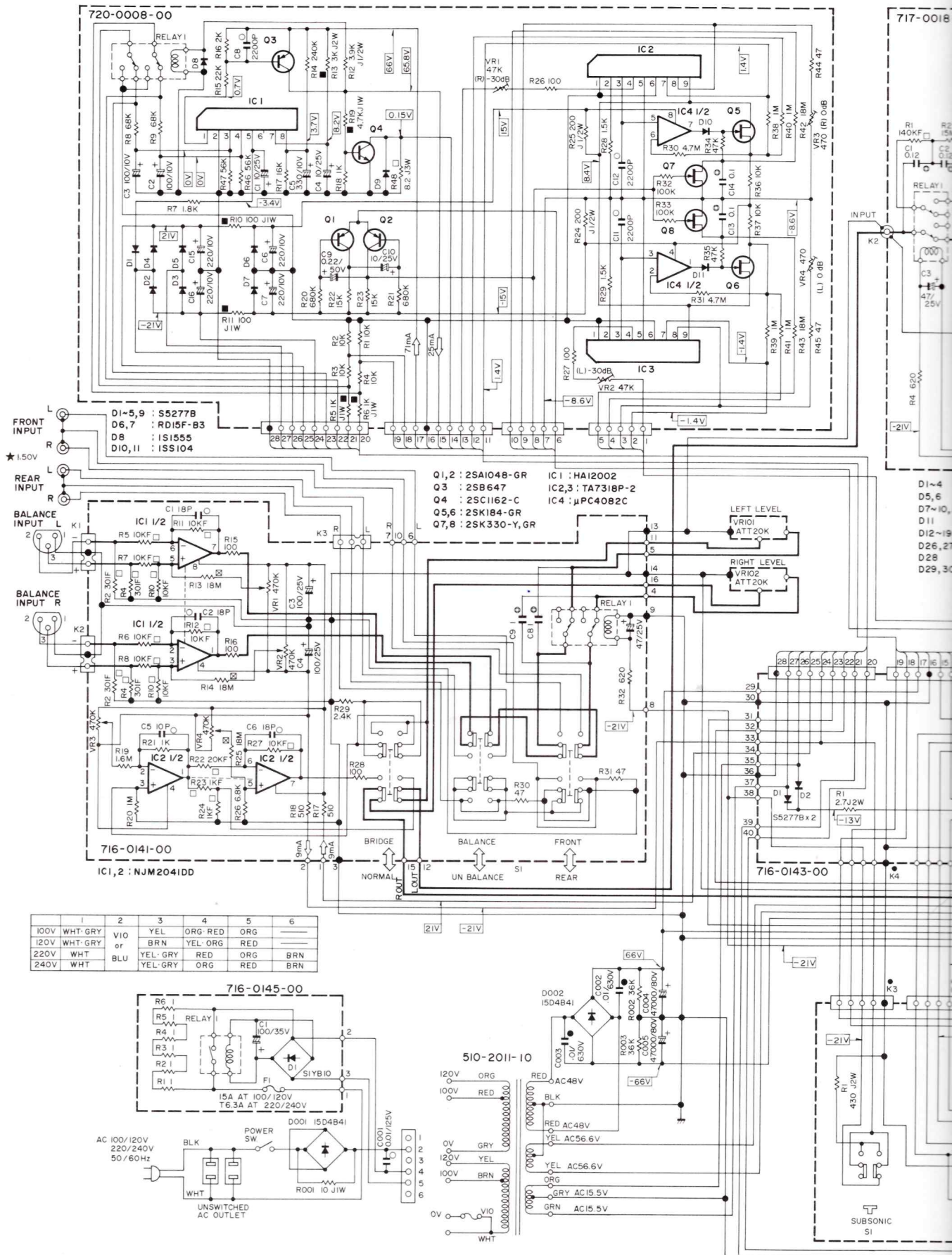


# P-300L SCHEMATIC DIAGRAM

## NOTES

1. The heavy lines on the schematic denote the signal path.
2. Big spots denote the ground.
3. The mark of capacitors and resistors on the schematic are:
  - CERAMIC CAPACITORS
  - ⊖ MICA CAPACITORS
  - ⊠ TANTALUM SOLID CAPACITORS

- METAL FILM RESISTOR
- POLYMER FILM CAPACITOR
- ⊖ METAL CLIP CAPACITOR
- ⊖ METAL CLIP CAPACITOR
- ⊖ WIRE WOUND RESISTOR
- ⊠ SOLID TANTALUM CAPACITOR



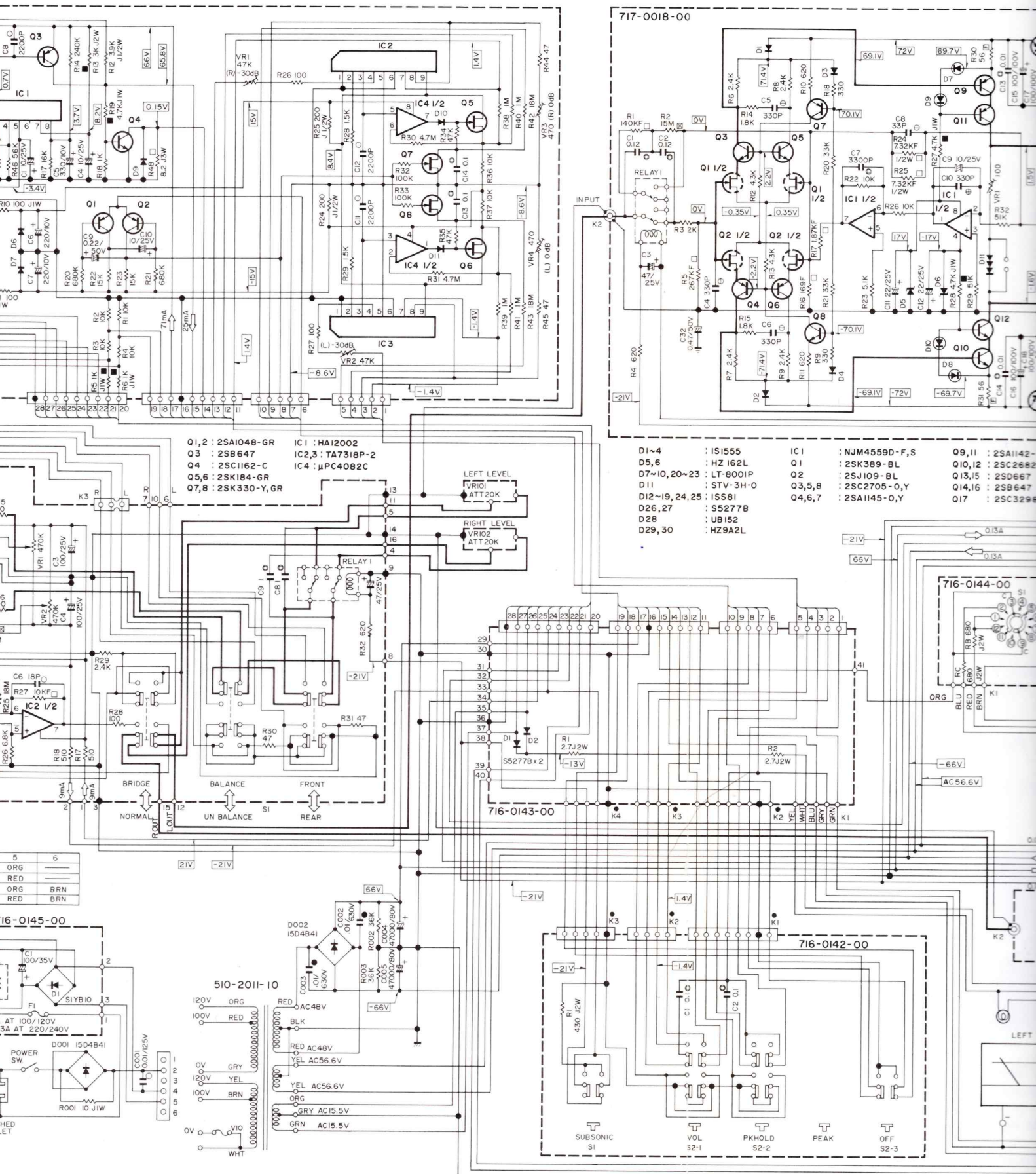
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- Big spots denote the ground.
- The mark of capacitors and resistors on the schematic are:
  - CERAMIC CAPACITORS
  - MICA CAPACITORS
  - ⊠ TANTALUM SOLID CAPACITORS

- METALLIZED FILM CAPACITORS
- ⊕ POLYSTYRENE FILM CAPACITORS
- ⊖ METALLIZED POLYESTER FILM CAPACITORS
- ⊙ METALLIZED POLYPROPYLENE FILM CAPACITORS
- ⊞ WIRE WOUND RESISTORS
- ⊠ SOLID RESISTORS

- ⊞ FUSE RESISTOR
  - ⊞ METAL FILM RESISTORS
  - ⊞ OXIDE METAL FILM RESISTORS
  - ⊞ METAL PLATE RESISTORS
- Unless otherwise specified, Cap Resistors are CARBON FILM type 1/4 watt and ±5% tolerance.



Indicated values of parts in the schematic diagram may be changed in case of performance improvement.

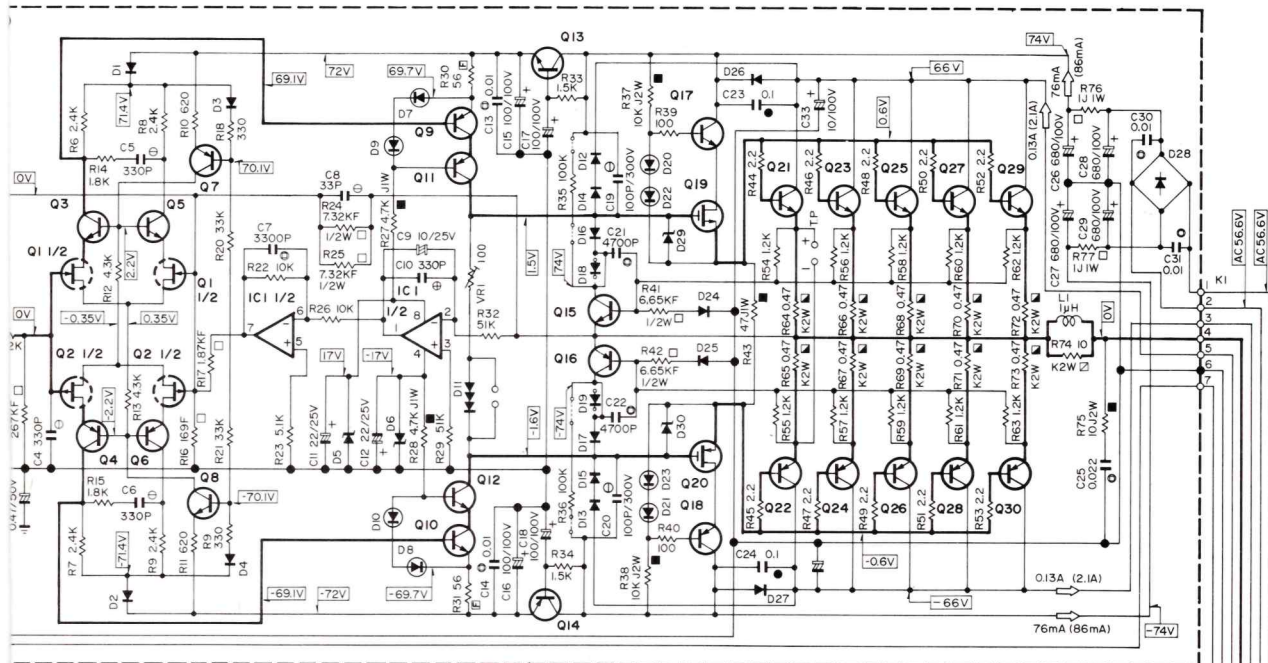


ZED FILM CAPACITORS  
 RENE FILM CAPACITORS  
 ZED POLYESTER FILM CAPACITORS  
 ZED POLYPROPYLENE FILM CAPACITORS  
 DUND RESISTORS  
 RESISTORS

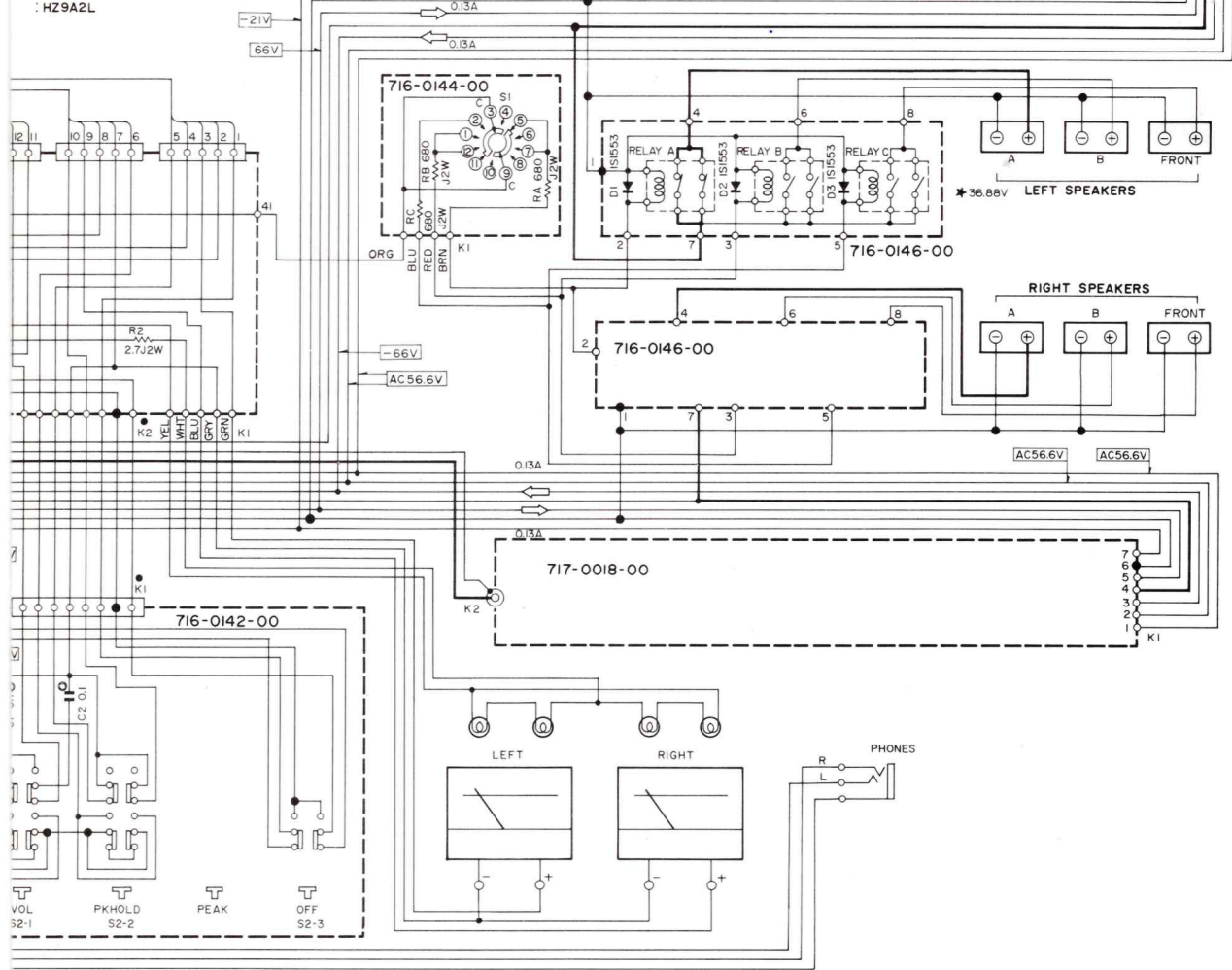
FUSE RESISTOR  
 METAL FILM RESISTORS  
 OXIDE METAL FILM RESISTORS  
 METAL PLATE RESISTORS

Unless otherwise specified Capacitors are ELECTROLYTIC types.  
 Resistors are CARBON FILM types  
 1/4 watt and ± 5% tolerance

4 VOLTAGE Signal Source Voltage  
 Operating with no input  
 5 CURRENT Operating with no input



- |          |        |                |        |               |                 |                |
|----------|--------|----------------|--------|---------------|-----------------|----------------|
| IS1555   | IC1    | : NJM4559D-F,S | Q9,11  | : 2SA1142-P,Q | Q18             | : 2SA1306-O,Y  |
| HZ162L   | Q1     | : 2SK389-BL    | Q10,12 | : 2SC2682-P,Q | Q19             | : 2SK213       |
| LT-8001P | Q2     | : 2SJ109-BL    | Q13,15 | : 2SD667      | Q20             | : 2SJ76        |
| STV-3H-O | Q3,5,8 | : 2SC2705-O,Y  | Q14,16 | : 2SB647      | Q21,23,25,27,29 | : 2SC2706B-O,Y |
| ISS81    | Q4,6,7 | : 2SA1145-O,Y  | Q17    | : 2SC3298-O,Y | Q22,24,26,28,30 | : 2SA1146B-O,Y |
| S5277B   |        |                |        |               |                 |                |
| UB152    |        |                |        |               |                 |                |
| HZ9A2L   |        |                |        |               |                 |                |





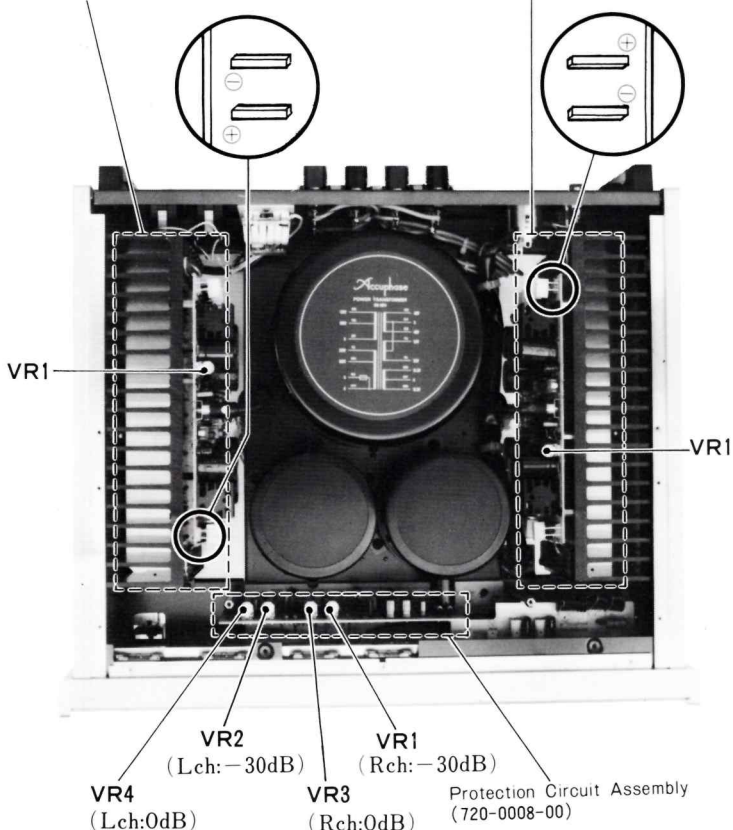
# CIRCUIT ADJUSTMENT (回路調整)

- Notes ※1. Internal input resistance of volt-ohm meter should be higher than 10k ohms.  
 テスターは、入力抵抗10kΩ以上のものをお使い下さい。
- ※2. Adjustments should be made in case of the PC Board or Transistors being changed.  
 調整はPCボードあるいはトランジスタを交換した場合行なって下さい。
- ※3. After feeding 1~10 watts output for about 15 minutes, check bias adjustments again.  
 出力1~10ワット前後で通電動作させた後、バイアス電流を再チェックする。

STEP ステップ	ADJUST ITEM 調整項目	PROCEDURE 電圧検出		ADJUST 調整箇所	REMARKS 調整・備考
		TEST EQ'PT 検出器	CONNECTING POINT 接続点		
<b>POWER AMP ASSEMBLY (717-0018-00)</b> パワーアンプAss'y					
1	Bias Current of Lch. Power Amp. Lch. バイアス電流	V.O. Meter Set range to less than DC0.3V	Test Point Pin (+) and (-)	VR1 for Lch.	Adjust for "25 mV" reading of V.O. Meter テスターの指示"25mV" に調整
2	Bias Current of Rch. Power Amp. Rch. バイアス電流	テスター DC0.3V以下のレンジ	テストポイント⊕, ⊖	VR1 for Rch.	
<b>METER CALIBRATION (Located PROTECTION CIRCUIT ASSEMBLY 720-0008-00)</b> メータ調整					
Note 1. Adjustment should be repeated until correct meter indication is obtained. 1~4の調整はメータの指示が正しくなるまで数回繰返して下さい。					
Note 2. Meter function switch is set at Peak position. メーターファンクションスイッチはPEAKポジションをON					
1	Peak-0 dB Calibration for Lch. Lch: 0 dB 較正	VTVM Input: 1kHz Sine Wave 入力 1kHz正弦波  Load: None	Speaker Terminals 出力端子	VR4	Adjust input signal so that VTVM reads 36.88V. Then adjust VR3 and VR4 so that Meter read 0 dB. VTVMの指示36.88Vになる入力信号 を入れ、メータの指示が0 dBとなる ようにVR3,4を調整
2	Peak-0 dB Calibration for Rch. Rch: 0 dB 較正			VR3	
3	-30dB Calibration for Lch. Lch: -30dB 較正			VR2	Adjust input signal so that VTVM read 1.2V(-30dB). Then adjust VR1 and VR2 so that Meter reads -30dB. VTVMの指示1.2V(-30dB)となる入 力信号にし、メータの指示が-30dB となるようにVR1,2を調整
4	-30dB Calibration for Rch. Rch: -30dB 較正			VR1	

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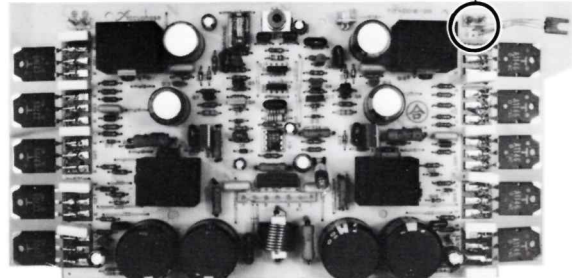
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# SPECIFICATIONS

## ● CONTINUOUS AVERAGE POWER OUTPUT (EIA):

### STEREOPHONIC MODE:

Both channels driven, from 20Hz to 20,000Hz with no more than 0.01% total harmonic distortion:

300watts per channel, min. RMS, at 2-ohms

250watts per channel, min. RMS, at 4-ohms

170watts per channel, min. RMS, at 8-ohms

85watts per channel, min. RMS, at 16-ohms

### MONOPHONIC MODE (Bridging Connection):

From 20Hz to 20,000Hz with no more than 0.01% total harmonic distortion:

600watts, min. RMS, at 4-ohms

500watts, min. RMS, at 8-ohms

340watts, min. RMS, at 16-ohms

## ● TOTAL HARMONIC DISTORTION:

### STEREOPHONIC MODE:

Both channels driven, from 20Hz to 20,000Hz at any power output from 1/4watt to rated power:

0.01% max, at 2-ohms to 16-ohms

### MONOPHONIC MODE (Bridging Connection):

From 20Hz to 20,000Hz at any power output from 1/4watt to rated power:

0.01% max, at 4-ohms to 16-ohms

## ● INTERMODULATION DISTORTION (EIA):

Will not exceed 0.003% at rated power output

## ● FREQUENCY RESPONSE (EIA):

20Hz to 20,000Hz; +0, -0.2dB for rated output at the maximum level control

0.5Hz to 250,000Hz; +0, -3.0dB for 1watt output at the maximum level control

0.5Hz to 100,000Hz; +0, -3.0dB for 1watt output at -6dB attenuation

## ● VOLTAGE AMPLIFICATION DECIBELS:

28.0dB in STEREOPHONIC and MONOPHONIC MODES

(Bridging Connection)

## ● OUTPUT LOAD IMPEDANCE:

2-ohms to 16-ohms in STEREOPHONIC MODE

4-ohms to 16-ohms in MONOPHONIC MODE (Bridging Connection)

## ● DAMPING FACTOR (EIA, at 50Hz):

300 in STEREOPHONIC MODE

150 in MONOPHONIC MODE (Bridging Connection)

## ● INPUT SENSITIVITY (at 8-ohms load):

### STEREOPHONIC MODE:

1.5V, for rated output at the maximum level control

0.12V, for 1 watt output (EIA)

### MONOPHONIC MODE (Bridging Connection):

2.5V, for rated output at the maximum level control

0.12V, for 1 watt output (EIA)

## ● INPUT IMPEDANCE:

20k-ohms UNBALANCED Input and 600-ohms BALANCED Input selectable by INPUT selector on the front subpanel

## ● A-WEIGHTED SIGNAL-TO-NOISE RATIO:

### STEREOPHONIC AND MONOPHONIC MODES:

120dB below rated outputs, input shorted

100dB at 1 watt output, terminated with 1k-ohm (EIA)

## ● HEADPHONE JACK:

For listening with low impedance (4-100-ohms) dynamic stereo headphones

## ● SUBSONIC FILTER: 10Hz cutoff. -18dB/oct.

## ● POWER LEVEL METER:

Logarithmic Scale Peak Level indication of the dynamic range from -40dB to +3dB with Peak-Hold circuit.

calibrated to read 0dB at 170 watts into 8-ohms load.

## ● SEMICONDUCTOR COMPLEMENT:

56Tr's, 12FETs, 8ICs and 78Di's

## ● POWER REQUIREMENT:

Voltage selection by rewiring for 100V, 117V, 220V and 240V, 50/60Hz operation

## ● POWER CONSUMPTION (STEREOPHONIC MODE):

78 watts at zero signal output

560 watts at rated power output into 8-ohms load

## ● DIMENSIONS:

width 445mm (17-1/2inches) max, height 160mm (6-5/16inches) depth 373mm (14-11/16inches)

## ● WEIGHT:

23kg (50.6lb) net, 27.5kg (60.5lb) in shipping carton