



No. 2271

SERVICE MANUAL



MODEL VN-700

SOLID STATE STEREO INTEGRATED AMPLIFIER

DIMENSIONS : Height 5-3/8", Width 16-5/8", Depth 12-1/2" WEIGHT : 22 lbs.

SPECIFICATIONS

Type	: Solid State Stereo Integrated Amplifier	Frequency response	: 3Hz — 450kHz (—3dB) at 1W
Transistors	: 32	Damping factor	: 50 at 8Ω load
Diodes	: 14	Matching load impedance	: 4 — 16Ω
Input	: PHONO-1, PHONO-2, AUX-1, AUX-2, AUX-3, TAPE PLAY-1, TAPE PLAY-2, MAIN IN, 4 CHANNEL REAR IN.	Input sensitivity for rated power	: 1V
Output	: TAPE REC-1, TAPE REC-2, PRE OUTX2, 4 CHANNEL REAR OUT, SPEAKERS SYSTEM-1, SPEAKERS SYSTEM-2, HEADPHONES	PRE AMPLIFIER SECTION	
DIN socket	: TAPE-1, TAPE-2	Frequency response	: 20Hz — 50kHz ±0.5dB
Front panel controls	: POWER SWITCH, TAPE MONITOR, SELECT, BALANCE, VOLUME, SEA CONTROL SYSTEM, SEA REC., MUTING, LOUDNESS, SPEAKERS SELECT, SUBSONIC FILTER, HIGH FILTER	S.E.A. controls	
Rear panel controls	: PHONO-1 Cartridge load select & level adjust AUX-1 Level adjust	Center frequencies	: 40, 250, 1,000, 5,000, 15,000
POWER AMPLIFIER SECTION		Control range	: ±12dB
IHF dynamic power	: 110W(55W+55W) 8Ω load 140W(70W+70W) 4Ω load	Input sensitivity for rated power	
Continuous power (rms)	: 80W(40W+40W) 8Ω load one channel driven 100W(50W+50W) 4Ω load " " 70W(35W+35W) 8Ω load both channel driven 80W(40W+40W) 4Ω load " "	PHONO	2.5mV
Power bandwidth	: 10Hz — 23kHz (8Ω load one channel driven, output power) 35W T.H.D. 0.25% 25Hz — 20kHz (8Ω load both channel driven, output power) 35W T.H.D. 0.25%	AUX	200mV
Total harmonic distortion	: 0.05% at rated power (1kHz)	TAPE PLAY BACK	200mV
Inter modulation distortion	: 0.4% at rated power 0.1% at 1W	PHONO	55dB
		AUX	80dB
		Signal to noise ratio	: RIAA (Mag) ±0.5dB
		Equalizer	: 480mV(p-p), 170mV(RMS) at 1kHz
		PHONO over load	: 30mV
		Recording out level	: 180mV
		Filters	: SUBSONIC 12dB/oct. at 18Hz HIGH —12dB/oct. at 9kHz
		Muting	: —30dB
		Loudness	: at —30dB point 1kHz 1.5dB 10kHz +4dB 50Hz +11dB
		POWER CONSUMPTION : 150W	
		POWER SOURCE : AC 120V 50/60Hz	
		DIMENSIONS : 5-3/8"HX16-5/8"WX12-1/2"D	
		WEIGHT : 22 lbs.	

VICTOR COMPANY OF JAPAN, LIMITED.

HOW TO CHECK THE CENTER VOLTAGE

AND THE IDLING CURRENT OF POWER AMPLIFIER

NOTE : Allow the set to warm up at least for 10 minutes before you begin the following procedure.

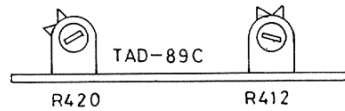


Fig. 1

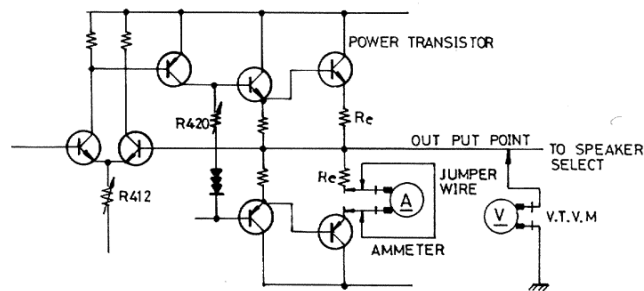


Fig. 2

Connection of a measurement instrument as shown Fig. 2. — This circuit is the standard one of main amplifier. —

- Turn VOLUME control to minimum

- (1) Connect the probe of VTVM (D.C.) to a positive pole of output point. And connect the ground lead of VTVM (D.C.) to a chassis.
- (2) Insert an ammeter and a jumper wire together as shown Fig. 2.

NOTE : After the power switch has been turned on and jumper wire has been take off, adjust the idling current in order to protect the ammeter against being damaged by surge current.

- Turn POWER SWITCH on

- (1) VTVM (D.C.) ought to show zero V. If VTVM (D.C.) is not zero V adjust R412 to VTVM (D.C.) reading of zero V.
- (2) An ammeter ought to show 10mA~20mA. If an ammeter reading of volume are not 10mA~20mA, adjust R420 to an ammeter reading of 10mA~20mA.

NOTE : The adjustment of the center voltage of power amplifier should be performed before measuring the idling current.

PACKING ILLUSTRATION

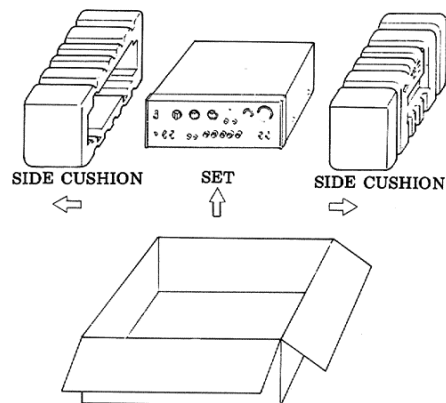


Fig. 3

Parts No.	Parts Name	Description
E37840-137	Packing Case Ass'y	
E32332-004	Envelope	for Set

ACCESSORIES

E30580-321A	INSTRUCTION BOOK
E41292-11	ENVELOPE
E64103-001	POLISHING CLOTH
E30539-329A	SCHEMATIC DIAGRAM
E64208-60	ENVELOPE
Q04741-3	FUSE (125V 3A)
E64213-002	WARRANTY CARD
E64302-002	SERVICE STATION LIST

USED TRANSISTORS & DIODE

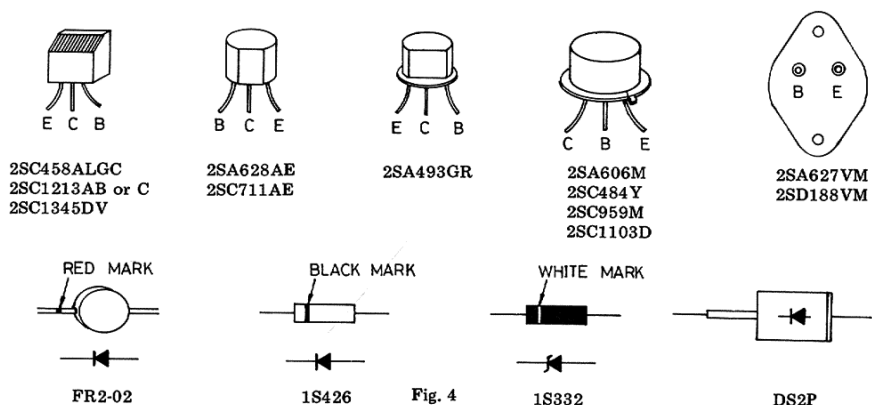


Fig. 4

EXPLODED VIEW OF MECHANICAL PARTS

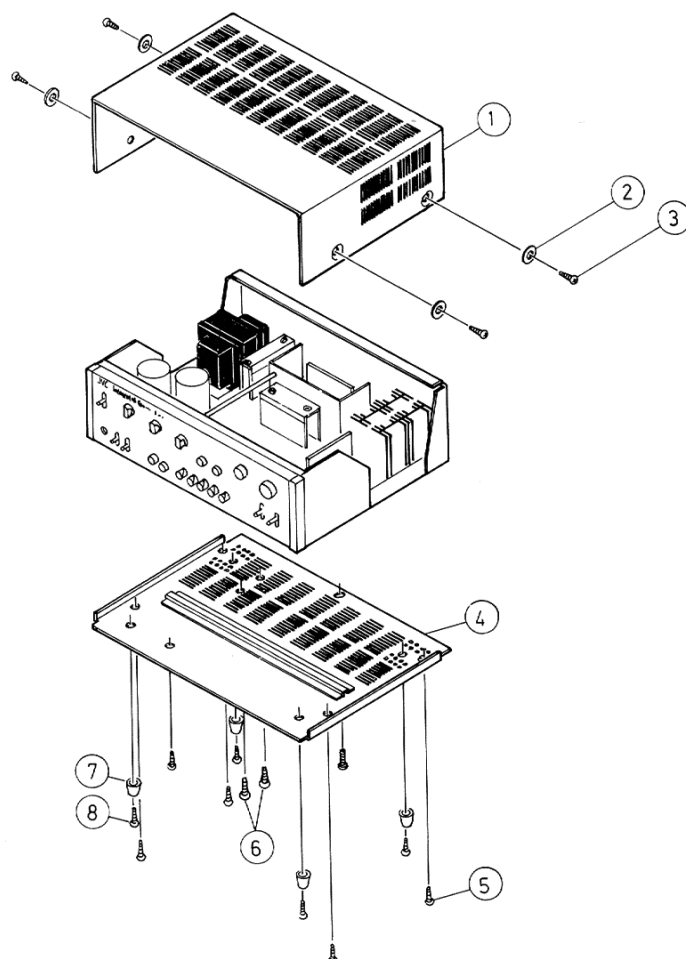


Fig. 5

THE PARTS LIST FOR REPLACEMENT

Dwg. No.	Parts No.	Parts Name	Description
1	E21158-001	Cover	
2	Q03093-108	Washer	
3	SDBP4008RS	Screw	
4	E20889-002	Bottom Plate	
5	SBSB3008N	Tapping Screw	
6	SBSB4008N	"	
7	Q05905-1	Foot	
8	SBSB3014N	Tapping Screw	

PARTS ARRANGEMENT (TOP VIEW)

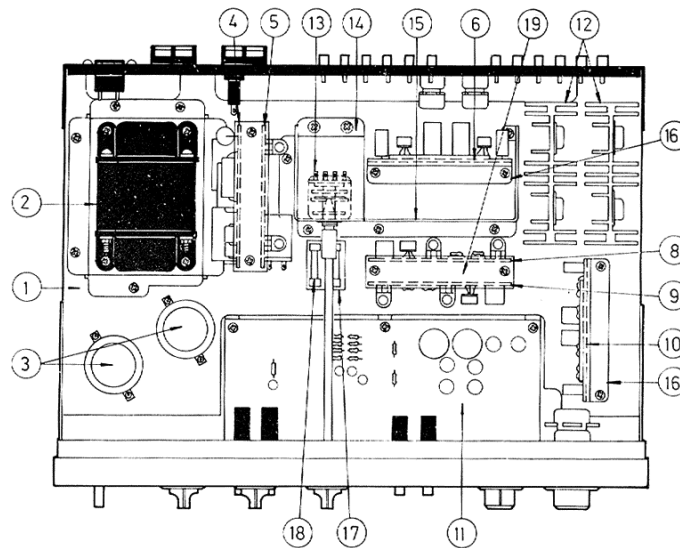


Fig. 6

THE PARTS LIST FOR REPLACEMENT

Dwg. No.	Parts No.	Parts Name	Dwg. No.	Parts No.	Parts Name
1	E1664-001	Chassis Base	11	TAC-229C	S.E.A. Circuit Board Ass'y
2	E03077-10	Power Transformer	12	E32818-002	Heat Sink
3	QEY-5005	Electrolytic Capacitor	13	Q30391-002	Rotary Switch (Select)
	-121		14	E47703-001	Shield Bracket
4	TAP-163	Power Supply Circuit Board	15	E33119-001	Switch Bracket
5	TAC-177E	Protector Circuit Board Ass'y	16	E47607-001	Circuit Board Bracket
6	TAE-63B	Equalizer Circuit Board Ass'y	17	Q30227-002	Fuse Board
7			18	04112-4	Fuse
8,9	TAD-89C	Driver Circuit Board Ass'y	19	E46822-001	Circuit Board Holder
	TAB-89C	Driver Circuit Board Ass'y			
10	TAC-228A	Filter Circuit Board Ass'y			

THE LIST OF FRONT MECHANICAL PARTS FOR REPLACEMENT

Dwg. No.	Parts No.	Parts Name	Description
1	E1672-001	Front Panel Ass'y	
2	SBSB3006C	Tapping Screw	
3	E47612-001	Knob	(Volume)
4	E47613-001	"	(Balance)
5	E47614-001	"	
6	E47615-001	S.E.A. Knob	
7	E47254-003	Push Switch Knob	
8	"	"	
9	E1665-002	Front Bracket Ass'y	
10	QSL1135-007	Lever Switch	(Power)
11	SBSB3006N	Tapping Screw	
12	E45979-007	Spacer	
13	Q03958-001	Head Phone Jack Ass'y	
14	QSL2235-005	Lever Switch	(Speakers)
15	"	"	(")
16	SSSP3006NS	Ass'y Screw	
17	E45979-007	Spacer	
18	E45842-003	Wire Clamp	
19	QSR3165-202	Rotary Switch	(Tape Monitor)
20	E03161-001	"	(Mode)
21	E50670-002	Wire Clamp	
22	SBSB3006N	Tapping Screw	
23	E46310-001	Terminal Board	
24	SBSB3008N	Tapping Screw	
25	E46209-001	Rubber Bushing	
26	Q04962-003	Mini Lamp	
27	E46880-001	Bushing	
28	Q03091-141	Washer	
29	E5357-2	Nut	
30	E47060-002	Shaft	
31	REE4000	E. Ring	
32	"	"	
33	E47061-001	Connector	
34	E47610-001	Push Switch Bracket	
35	QSP0220-001	Push Switch	(Filter)
36	SBSB3006N	Tapping Screw	
37	SSSP3006NS	Ass'y Screw	
38	E47203-001	Wire Clamp	
39	SBSB3006N	Tapping Screw	
40	QVC2A2M-0F5	Variable Resistor	(Balance)
41	QVH2A2B-5F5	"	(Volume)
42	QSL4235-003	Lever Switch	(Loudness)
43	"	"	(Muting)
44	SSSP3006NS	Ass'y Screw	
45	E45979-007	Spacer	
46	Q03001-33	Lug Strip	
47	SBSB3006N	Tapping Screw	
48	TAC-229C	S.E.A. Circuit Board Ass'y	
49	E33085-001	S.E.A. Circuit Board Bracket	
50	E47611-001	Push Switch Bracket	
51	SBSB3006N	Tapping Screw	
52	"	"	
53	E47804-001	Bracket	
54	SBSB3006N	Tapping Screw	
55	"	"	
56	SBSB3008N	"	

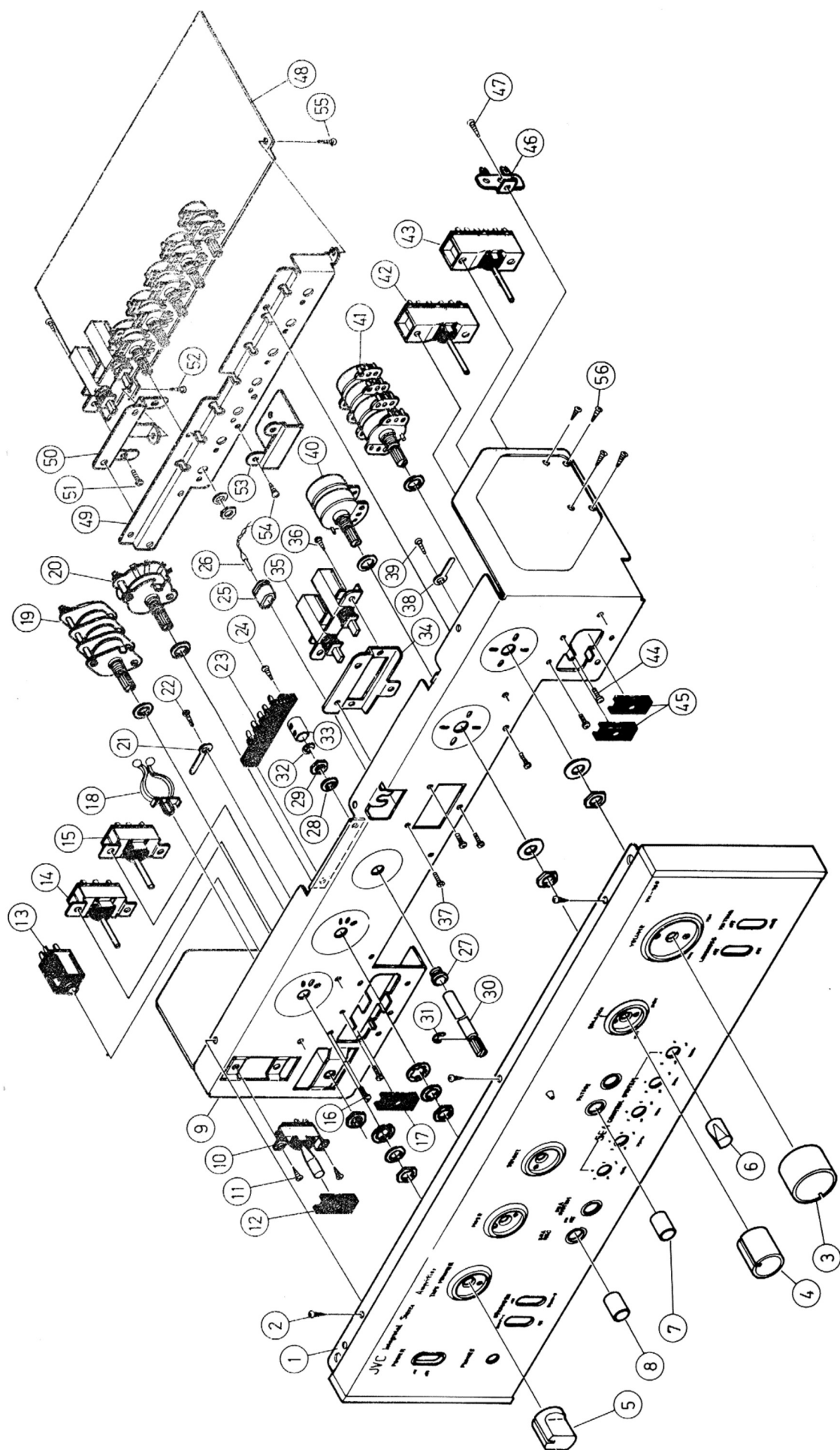


Fig. 7

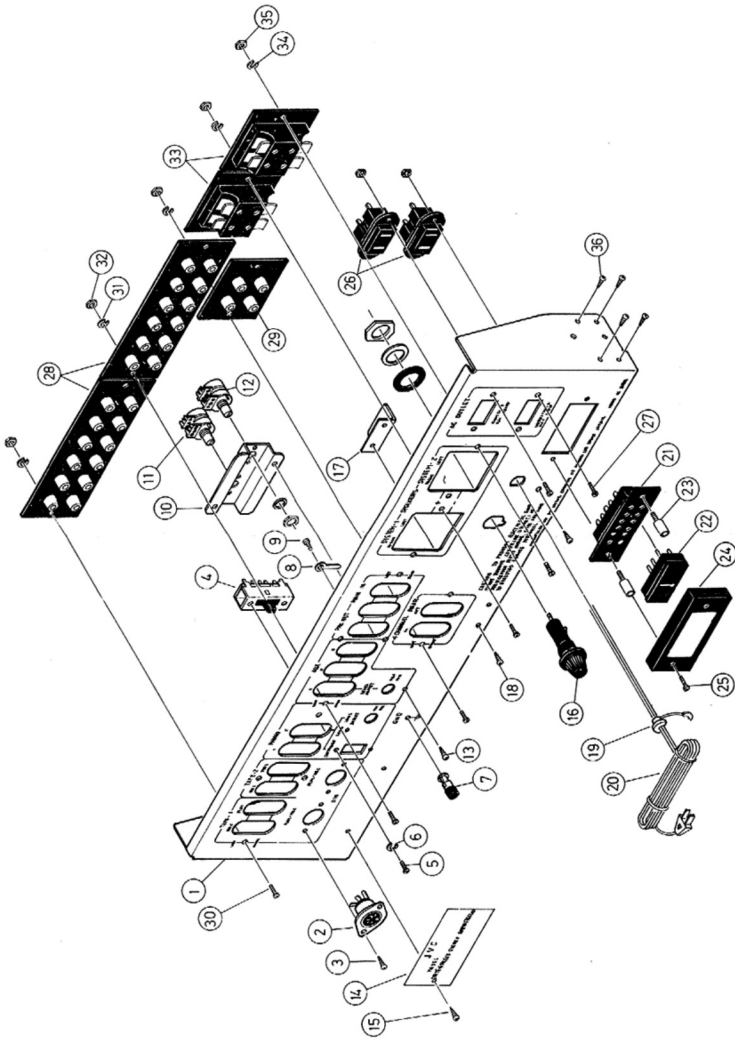


Fig. 8

THE LIST OF REAR PANEL PARTS FOR REPLACEMENT

Dwg. No.	Parts No.	Parts Name	Description
1	E21114-001	Rear Panel	
2	Q03967	DIN Socket Ass'y	
3	SBSB3008N	Tapping Screw	
4	Q03764-002	Slide Switch	(Cartridge Board)
5	SPSP2605M	Screw	
6	WLS2600M	Lock Washer	
7	E04069S	Push Terminal	Earth
8	52868-3	Lug Terminal	
9	LPSP2005NS	Ass'y Screw	
10	E47697-001	Volume Bracket	
11	E03504-001	Variable Resistor	
12	E03504-002	"	50K (B)
13	SBSB3006M	Tapping Screw	250K (B)
14	E47330-035	Rating Label	
15	SBSB3006M	Tapping Screw	
16	Q30210-001	Fuse Socket Ass'y	(UL)
17	E44366-001	Bracket	
18	SBSB3008M	Tapping Screw	

Dwg. No.	Parts No.	Parts Name	Description
19	E31704-001	Cord Stopper	(UL)
20	Q03056-14	Power Cord with Plug	(UL)
21	E04084	Voltage Select Socket	(UL)
22	E04085	Voltage Select Plug	(UL)
23	E44182-008S	Stud	
24	E46603-002	Voltage Select Cover	
25	SPSP3006MS	Screw	(UL)
26	Q30120-001	AC Socket	
27	SPKP3010S	Screw	
28	E03043-120	Pin Jack Ass'y	12 Pin
29	E03043-40	"	4 Pin
30	SPSP3008MS	Screw	
31	WLS3000N	Lock Washer	
32	NNB3000NS	Nut	
33	E03410-001	4P Push Terminal Ass'y	Speakers
34	WLS3000N	Lock Washer	
35	NNB3000NS	Nut	
36	SBSB3008N	Tapping Screw	

EXPLODED VIEW OF MECHANICAL PARTS

(HEAT SINK & POWER TRANSISTOR)

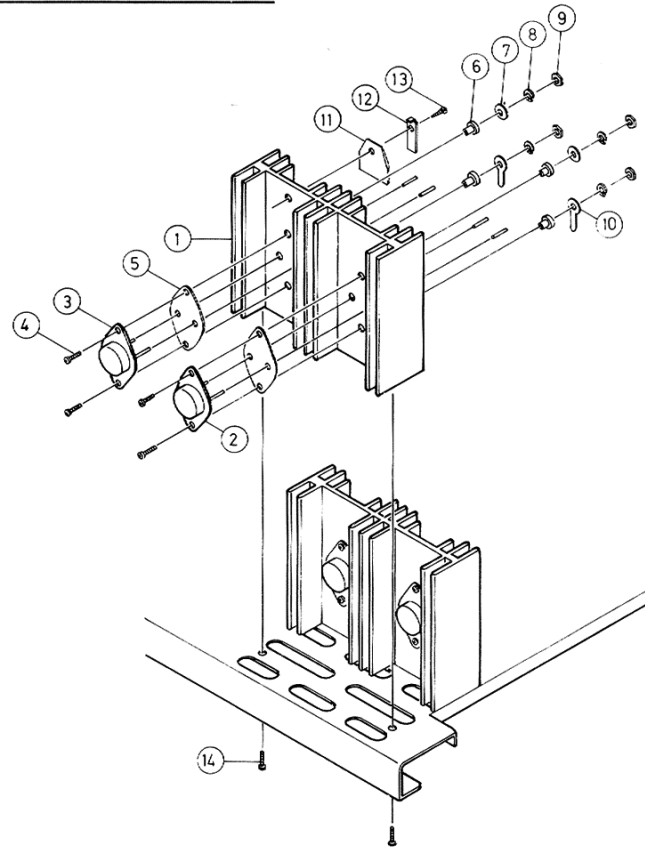


Fig. 9

THE PARTS LIST FOR REPLACEMENT

DWG NO.	Parts No.	Parts Name	Description
1	E32816-001	Heat Sink	NPN Power Transistor PNP
2	2SD188VM	Silicon Transistor (NICHIDEN)	
3	2SA627VM	" (NICHIDEN)	
4	SPSP3016NS	Screw	Fixed Power Transistor
5	E41542-2	Insulator	
6	E41541-1	Insulator Spacer	
7	WNB3000N	Washer	
8	WLS3000N	Lock Washer	
9	NNB3000NS	Nut	Fixed Thermistor
10	E41543	Lug Terminal	
11	E41250	Thermistor Supporter	
	E04026-4	Thermistor	
12	E41251	Spring	
13	SBSB3006N	Tapping Screw	
14	LPSP3010NS	Ass'y Screw	

TAE-63B EQUALIZER CIRCUIT BOARD ASS'Y (TOP VIEW)

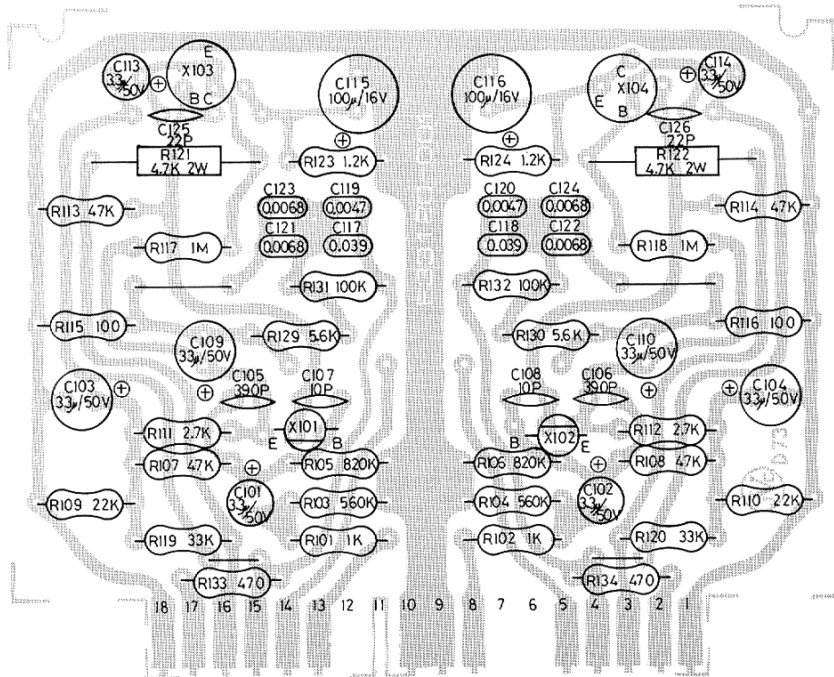


Fig. 10

TAE-63B EQUALIZER CIRCUIT BOARD ASS'Y (BOTTOM VIEW)

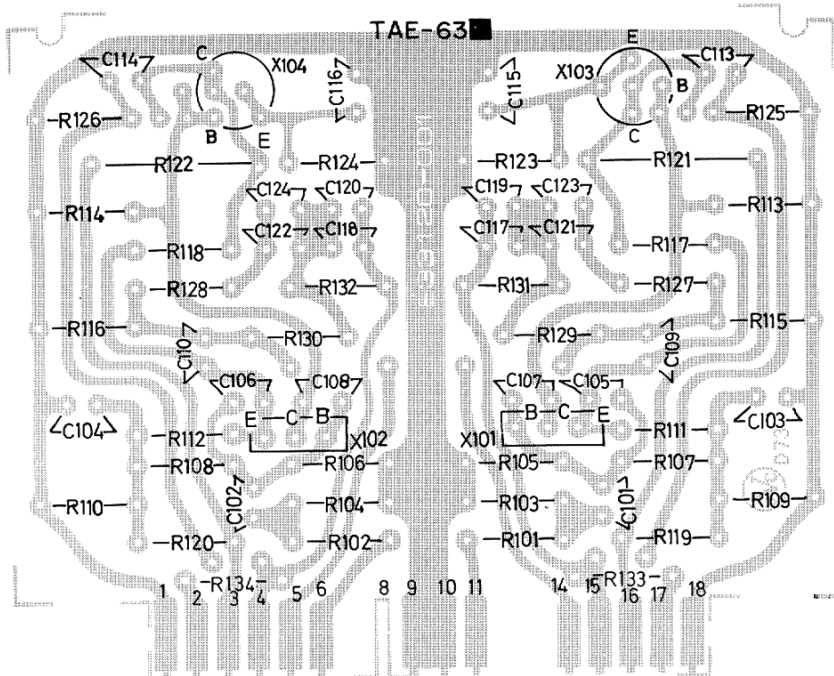


Fig. 11

WIRE CONNECTION

Pin No.	Socket Pin Name	Connection
1	Earth (output)	To Select Switch and Level Adjust Volume.
2	Output (L)	
3	+B5 74V	
4		
5		
6	Input (L)	From Select Switch
7		
8		
9	Earth (input)	
10	Earth	
11	Input (R)	From Select Switch
12		
13		
14		
15		
16	+B5 74V	From Power Supply Circuit TAP-163 13
17	Output (R)	Select Switch and Level Adjust Volume
18	Earth (output)	

THE LIST OF MAIN PARTS FOR REPLACEMENT

Dwg. No.	Parts No.	Parts Name	Description
1	TAE-63B	Circuit Board Ass'y	
2	2SC1103L	Silicon Transistor (NICHIDEN)	X103, 104
3	2SA493GR	Silicon Transistor (TOSHIBA)	X101, 102

TAC-228A SUBSONIC, HIGH FILTER CIRCUIT BOARD ASS'Y (TOP VIEW)

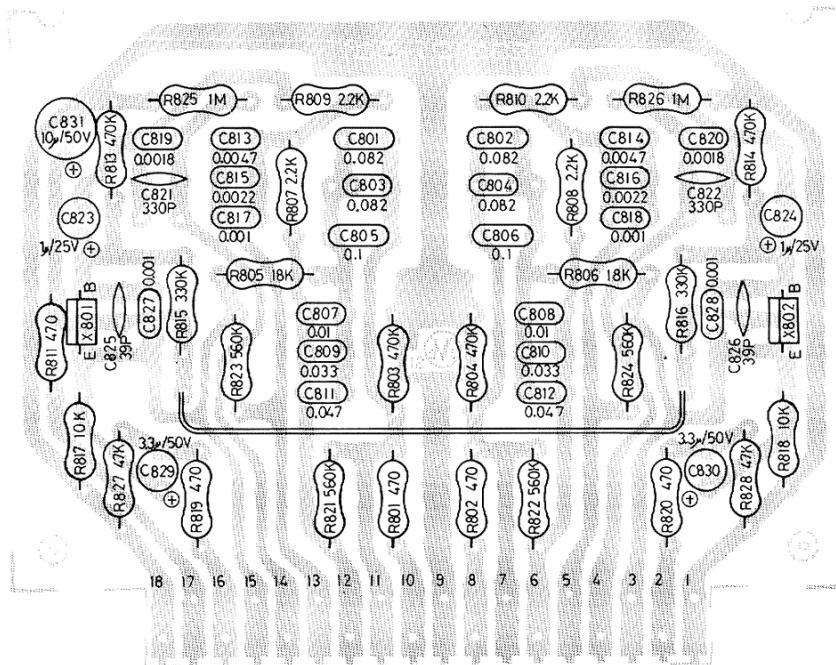


Fig. 12

TAC-228A SUBSONIC, HIGH FILTER CIRCUIT BOARD ASS'Y (BOTTM VIEW)

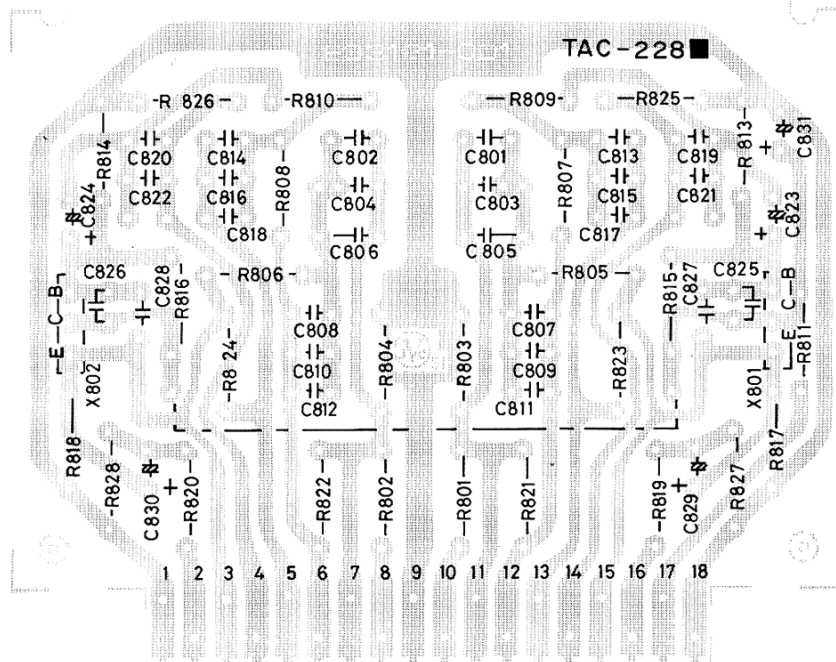


Fig. 13

WIRE CONNECTION

Pin No.	Socket Pin Name	Connection
1	Earth	
2	Output (R)	To PRE OUT Pin Jack
3	(R)	To High Filter Switch
4	(R)	To High Filter Switch
5	(L)	To High Filter Switch
6	(R)	To Subsonic Filter Switch
7	(L)	To Subsonic Filter Switch
8	Input (R)	From S.E.A. Circuit TAC-229C
9	Earth	
10	Input (L)	From S.E.A. Circuit TAC-229C
11	(R)	To Subsonic Filter Switch
12	(L)	To Subsonic Filter Switch
13	(R)	To Subsonic Filter Switch
14	(L)	To High Filter Switch
15	(L)	To Subsonic Filter Switch
16	Output (L)	To PRE OUT Pin Jack
17	+B6 39V	From S.E.A. Circuit TAC-229C
18	Earth	

THE LIST OF MAIN PARTS FOR REPLACEMENT

Dwg. No.	Parts No.	Parts Name	Description
1	TAC-228A	Circuit Board Ass'y	
2	2SC458ALGC	Silicon Transistor (HITACHI)	X801, 802

TAD-89C DRIVER CIRCUIT BOARD ASS'Y (TOP VIEW)

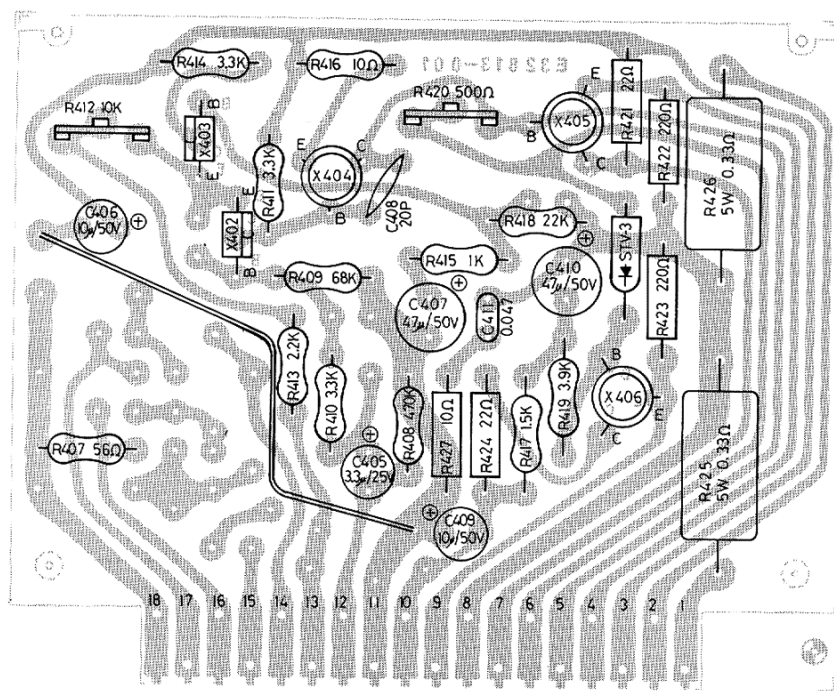


Fig. 14

TAD-89C DRIVER CIRCUIT BOARD ASS'Y (BOTTOM VIEW)

E32813-001 2

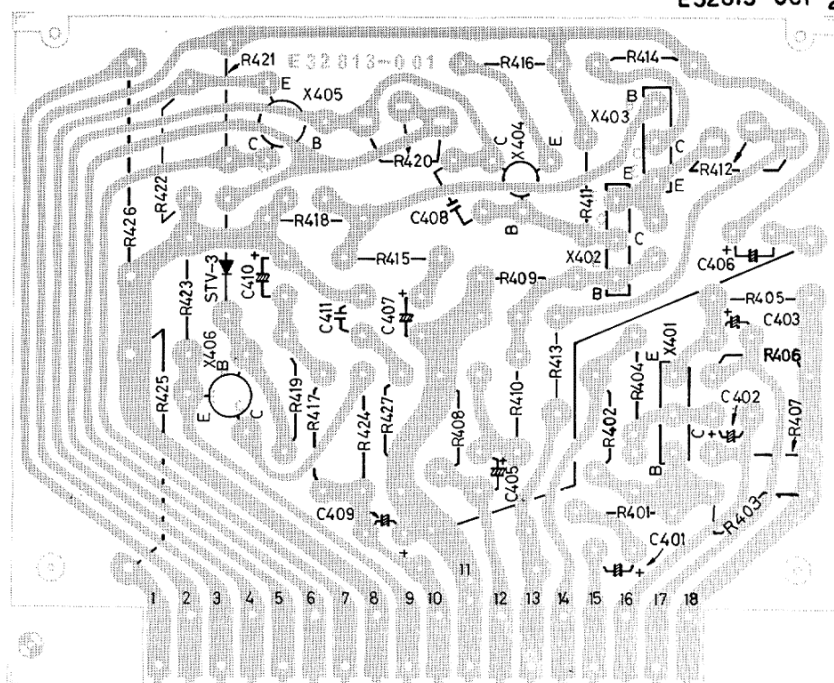


Fig. 15

WIRE CONNECTION

Pin No.	Socket Pin Name	Connection
1	+B1 39V	To Power Transistor 2SA627VM Emitter
2		To Power Transistor 2SD188VM Emitter
3		To Power Transistor 2SD188VM Emitter
4		To Power Transistor 2SD188VM Base
5		To Thermistor
6		To No 18 Pin
7	Output	To Protector Circuit TAC-177E 7
8		To Protector Circuit TAC-177E 10
9		To Power Transistor 2SA627VM Base
10	-B1 -39V	To Power Transistor 2SA627VM Collector
11	Input	From MAIN IN Pin Jack
12	Earth	
13	- B3 - 7V	From Protector Circuit
14		
15		
16		To Thermistor
17		
18		

THE LIST OF MAIN PARTS FOR REPLACEMENT

Dwg. No.	Parts No.	Parts Name	Description
1	TAD-89C	Circuit Board Ass'y	
2	2SC959M	Silicon Transistor (NICHIDEN)	X405
3	2SA606M	Silicon Transistor (NICHIDEN)	X404, 406
4	2SC1345DV	Silicon Transistor (NICHIDEN)	X402, 403
5	E03094-002	Varistor	STV-3
6	Q04842-2	Variable Resistor	500 Ω , R420
7	Q04846-3	Variable Resistor	10K R412
8	Q04117-5-0.33	Unflamable Resistor	0.33 Ω , R425, 426

TAC-177E PROTECTOR CIRCUIT BOARD ASS'Y (TOP VIEW)

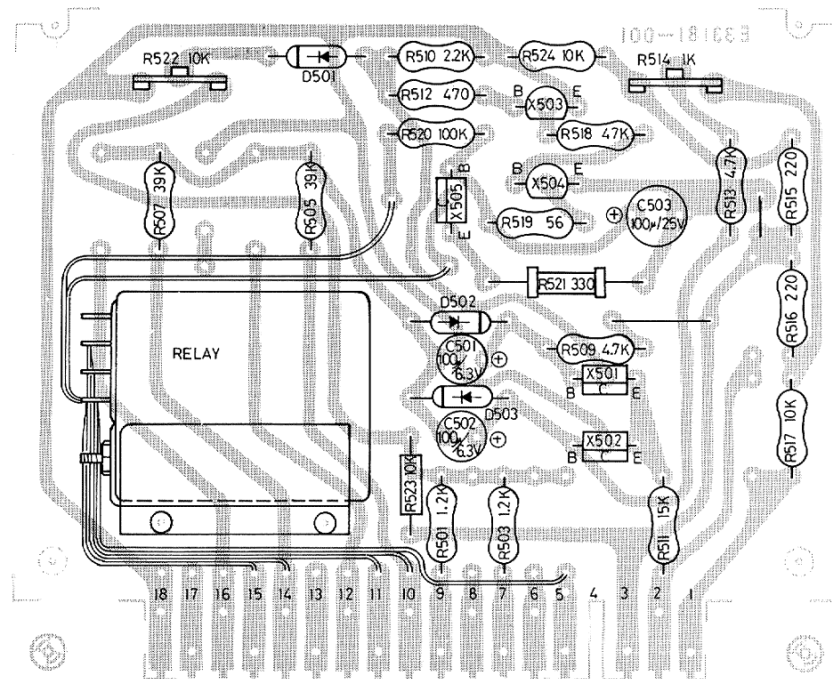


Fig. 16

TAC-177E PROTECTOR CIRCUIT BOARD ASS'Y (BOTTOM VIEW)

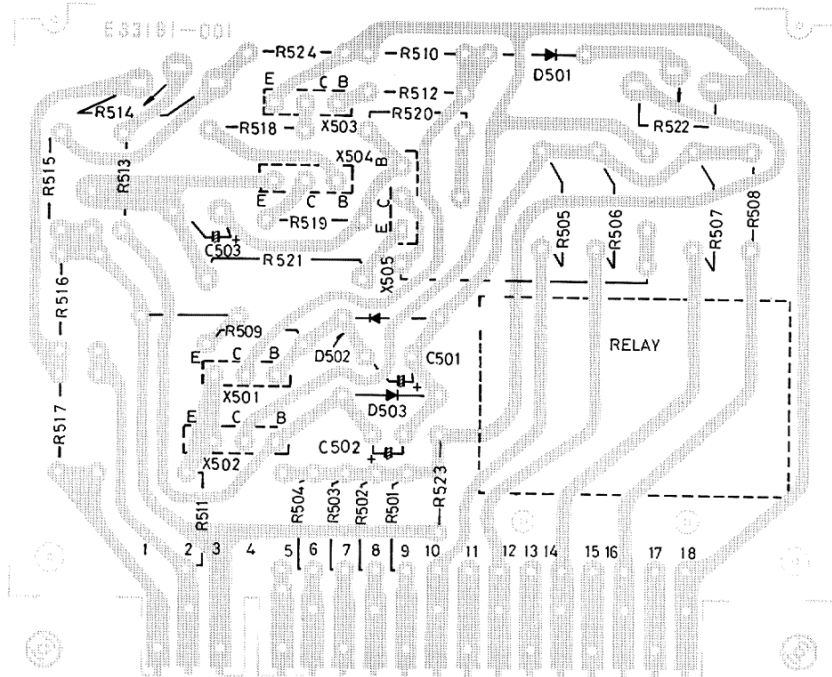


Fig. 17

WIRE CONNECTION

Pin No.	Socket Pin Name	Connection
1	-B1 -39V	From Fuse Holder
2	-B3 -7V	From Terminal Board
3	Earth	From Power Supply Circuit TAP-163 2
4		
5	+B4	From Power Supply Circuit TAP-163 11
6		
7		From Driver Circuit (L) TAD-89C 7
8		
9		From Driver Circuit (R) TAD-89C 7
10	Input	From Driver Circuit (L) TAD-89C 8
11	Output	To Speaker Select Switch (System-1)
12		
13		
14	Input	From Driver Circuit (R) TAD-89C 8
15	Output	To Speaker Select Switch (System-1)
16		
17		
18	+B1 39V	From Fuse Holder

THE LIST OF MAIN PARTS FOR REPLACEMENT

Pin No.	Parts No.	Parts Name	Description
1	TAC-177E	Circuit Board Ass'y	
2	AP3222	Relay	
3	E47022-001	Relay Holder	
4	Q03095-203	Washer	
5	LPSP2606N	Ass'y Screw	
6	NNS2600N	Nut	
7	WLS2600N	Lock Washer	
8	2SC1345DV	Silicon Transistor (NICHIDEN)	X501, 502
9	2SC711AE	Silicon Transistor (MITSUBISHI)	X504
10	2SA628AE	Silicon Transistor (MITSUBISHI)	X503
11	2SC1213A~C	Silicon Transistor (HITACHI)	X505
12	1S426	Ge. Diode (J.R.C.)	D501, 502, 503
13	Q04843-2	Variable Resistor	1K R514
14	Q04846-3	Variable Resistor	10K R522

TAP-163 POWER SUPPLY CIRCUIT BOARD ASS'Y (TOP VIEW)

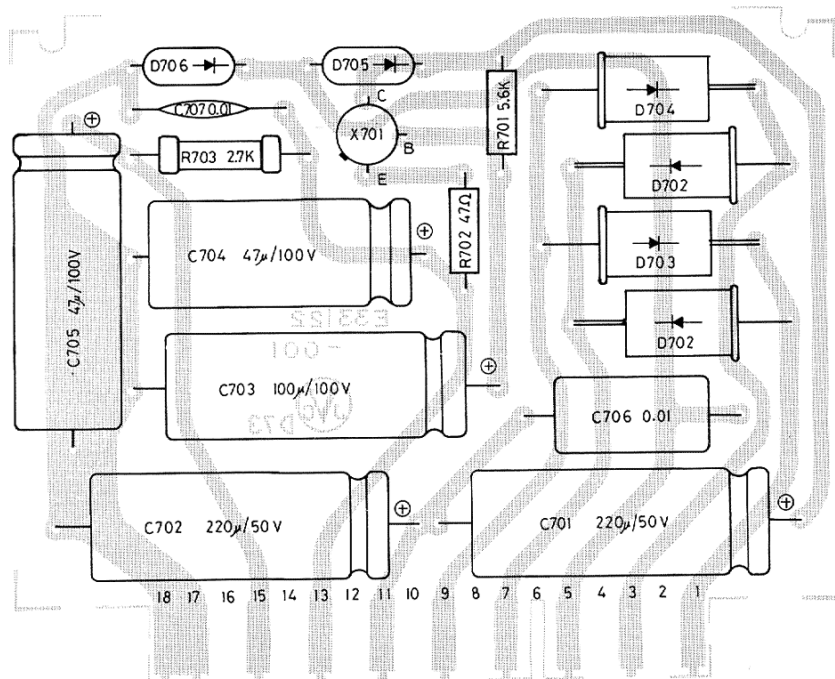


Fig. 18

TAP-163 POWER SUPPLY CIRCUIT BOARD ASS'Y (BOTTOM VIEW)

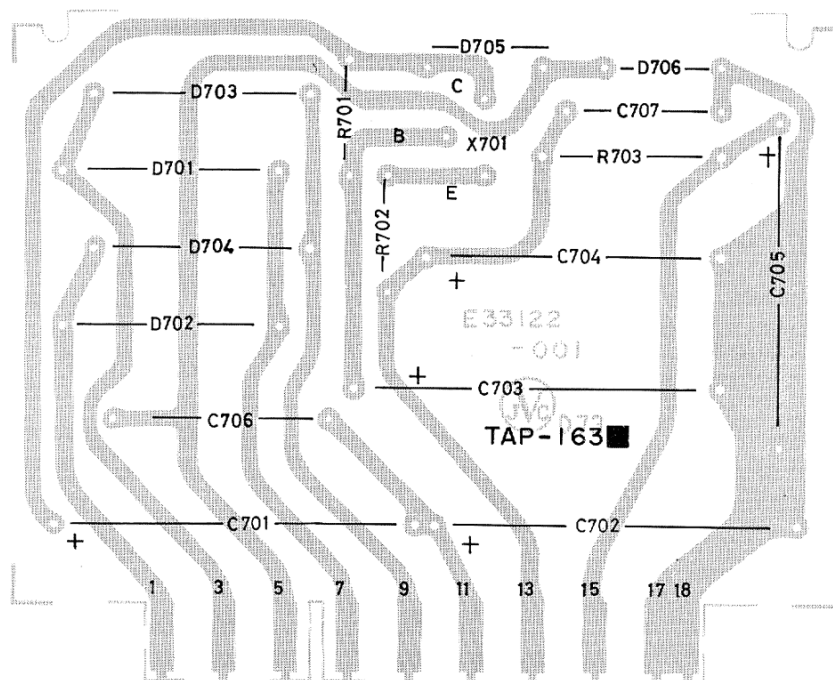


Fig. 19

WIRE CONNECTION

Pin No.	Socket Pin Name	Connection
1	AC input 24.5V	From Power Trans
2		
3	AC input 24.5V	From Power Trans
4		
5	AC input 30V	From Power Trans
6		
7	+B1 36V	To Electrolytic Capacitor 4700 μ /50V
8		
9	-B1 -36V	To Electrolytic Capacitor 4700 μ /50V
10		
11	AC input and +B4 39V	From Power Trans. To Protector Circuit 6
12		
13	+B5 75V	To Equalizer Circuit TAE-63B 16
14		
15	+B6 39V	To S.E.A. Circuit TAC-229C
16		
17	Earth	To Earth position of chassis base.
18	Earth	

THE LIST OF MAIN PARTS FOR REPLACEMENT

Dwg. No.	Parts No.	Parts Name .	Description
1	TAP-163	Circuit Board Ass'y	
2	2SC484Y	Silicon Transistor (TOSHIBA)	X701
3	DS-2P	Silicon Diode (FUJI DENKI)	D701, 702, 703, 704
4	FR2-02	Silicon Diode (FUJI DENKI)	D705, 706
5	Q03111-200	Electrolytic Capacitor	200 μ /50V C701, 702
6	Q03129-100	Electrolytic Capacitor	100 μ /100V C703
7	Q03129-47	Electrolytic Capacitor	47 μ /100V C704, 705
8	Q03206-103	Oil Filled Tubular Capacitor	0.01 μ C706
9	Q04772-2.2K	Oxide Metalized Film Resistor	2.2K/2W R703

WIRE CONNECTION

Tab No.	Tab Name	Connection
1	Input (R)	From Master Volume
2		
3	Earth	
4	Input (L)	From Master Volume
5	Earth	
6		
7	Output (R)	To Filter Circuit 8
8	Earth	
9	Output (L)	To Filter Circuit 10
10	+B6 39V	From Power Supply 15
11	+B6 39V	To Filter Circuit 17
12	(L)	To Tape Monitor Switch
13	Earth	
14	(R)	To Tape Monitor Switch
15	(L)	To Tape Monitor Switch
16	Earth	
17	(R)	To Tape Monitor Switch
18	(L)	To Mode Switch
19	Earth	
20	(R)	To Mode Switch
21	(L)	To Tape Monitor Switch
22	Earth	
23	(R)	To Tape Monitor Switch
24	(L)	From Select Switch
25	Earth	
26	(R)	From Select Switch
27	Earth	

THE LIST OF MAIN PARTS FOR REPLACEMENT

Dwg. No.	Parts No.	Parts Name	Description
1	TAC-229C	Circuit Board Ass'y	
2	E33085-001	Circuit Board Bracket	
3	E03478-001	Variable Resistor	50K(W) R343~352
4	E47611-001	Push Switch Bracket	
5	E03108-11	Choke Coil	2H, 600mH L301,302,303,304
6	E0747-11	Ferrite Inductor	100mH L305, 306
7	E0747-12	Ferrite Inductor	22mH L307, 308
8	E0747-13	Ferrite Inductor	10mH L309, 310
9	2SC458ALGC	Silicon Transistor (HITACHI)	X301, 302, 303, 304

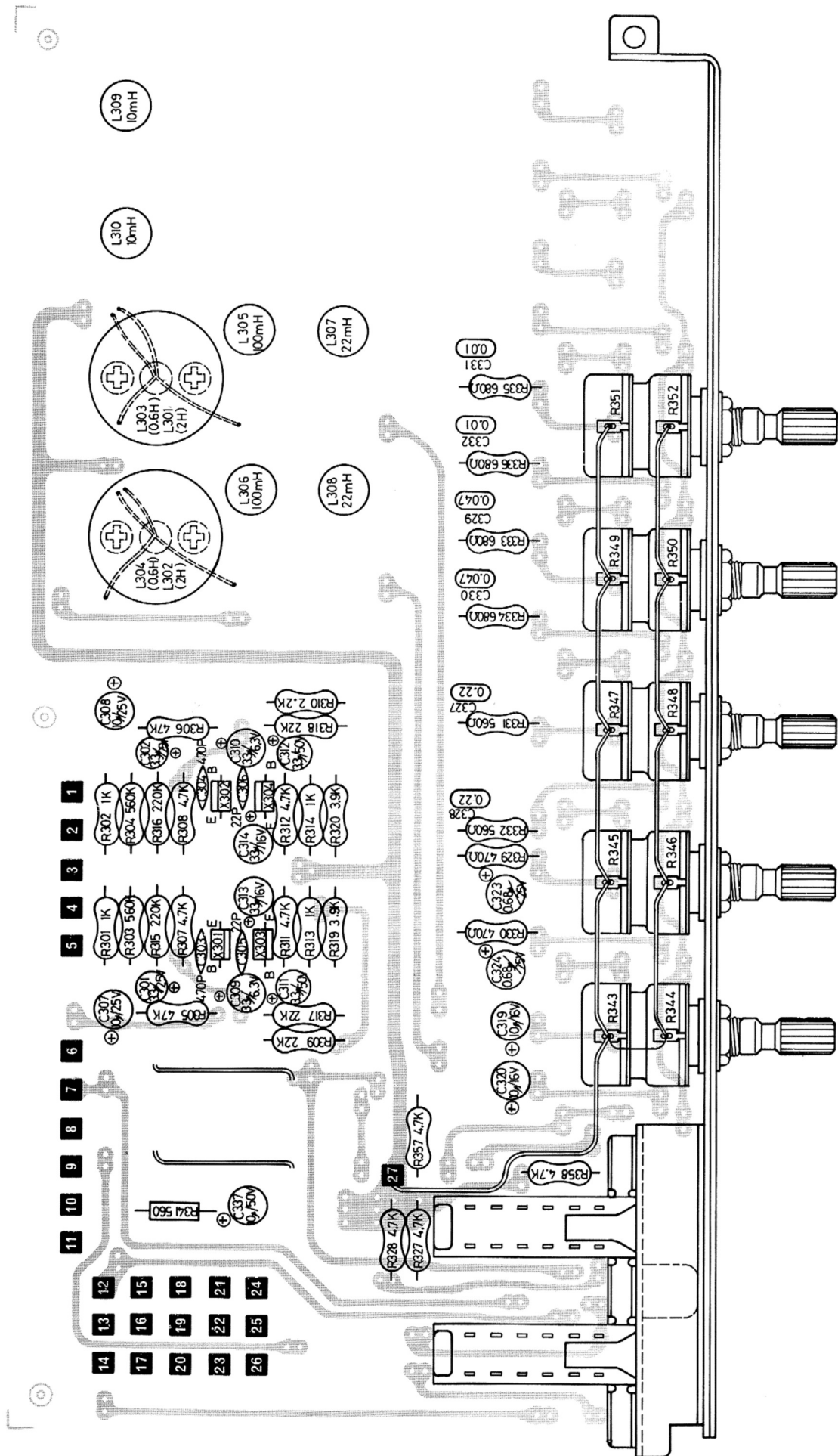


Fig. 20

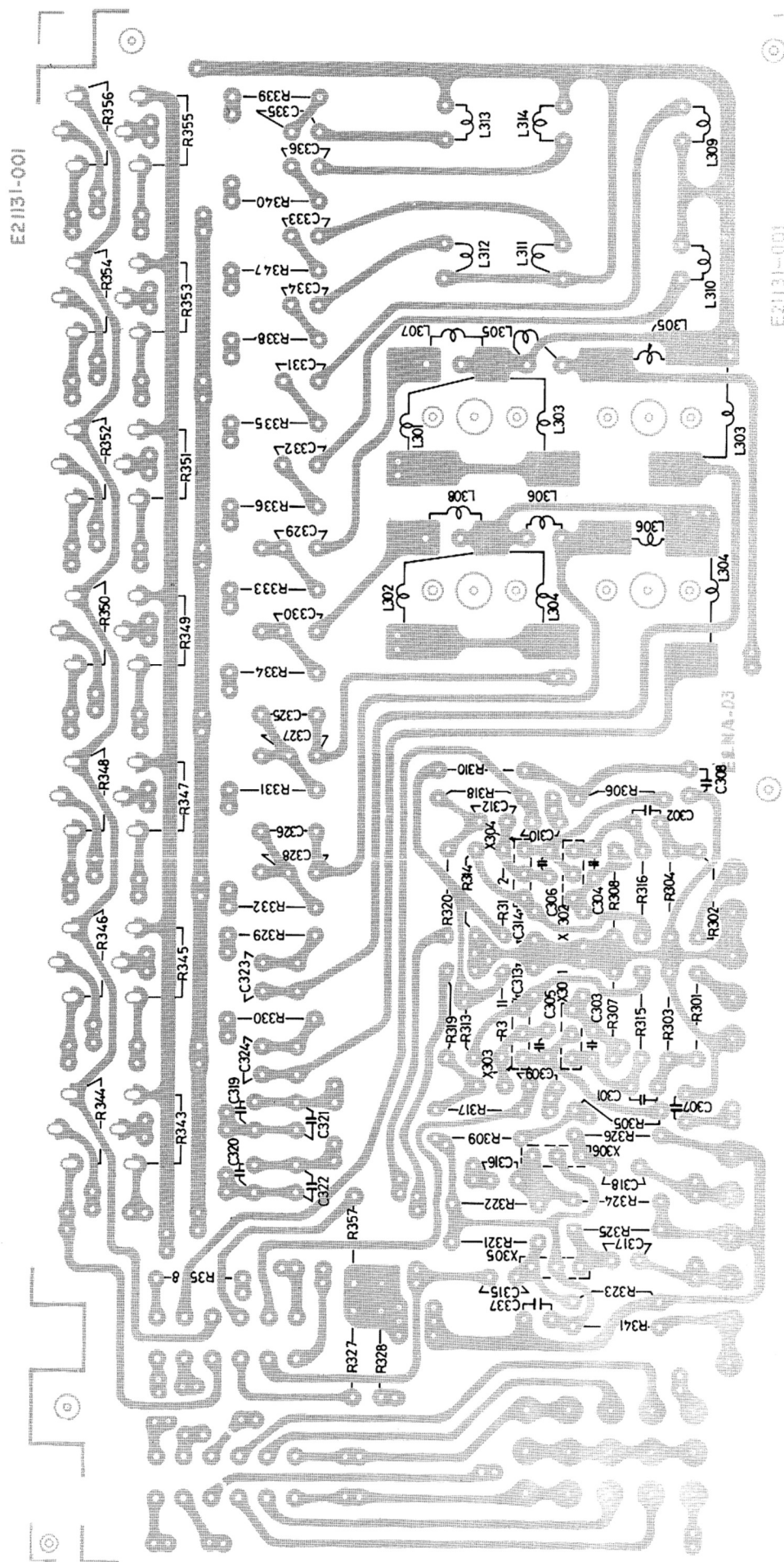


Fig. 21

NOTE : A sort of Resistor's Parts Number shown below.

Parts NO.	Sort of Resistor Parts No.
Q04804-	Carbon Resistor ½W
Q04800-	Carbon Resistor ¼W
04091-	Composition Resistor ½W
04090-	Composition Resistor ¼W
Q04772-	Oxide Metalized Film Resistor 2W

When you order Resistor, write required Resistor value in addition to the right-hand of hyphen.

For example : Q04804-1K = Carbon Resistor 1K Ω ½W

Q04772-100 = Oxide Metalized Film Resistor 100 Ω 2W

Q04800-4.7K = Carbon Resistor 4.7K Ω ¼W

04091-5.6K = Composition Resistor 5.6K Ω ½W

CHECK POINT AFTER REPAIR

Please make sure of the following respect when repair was completed.

1. Normal gain and output are obtained. (PHONO 77dB, AUX 50dB, nonclip output 18V into 8 Ω load)
2. Both high and low range of audio frequency are not decreased exceptionally.
3. Normal fuse used: 100V~120V

JVC AMERICA, INC.

50-35, 56th Road, Maspeth

New York, N. Y. 11378

Manufactured by

Victor Company of Japan, Limited

The List of JVC NIVICO Service Manual

(Phonograph)

No.	Model	No.	Model	No.	Model	No.	Model	No.	Model
2081	4TR-3U	2091	ARC-30A, 30B	2101	N760ME, N99U	2111(B)	STC-707C(R#-2)	2121	5007
2082	N-55T	2092	4TR-55	2102	SRP-472E	2112	SST-61	2122	L-21M
2083	SRE-103E	2093	{N670, N770 4TR-99u, etc	2103	SRP-469E	2113	{FRS-103EH.V (R#-2)	2123	ARC-10 Series
2084	N590F, 4TR-590F	2094	STP-7LA	2104	ARC-10L	2114	STP-808C	2124(B)	5003 (Revised)
2085	ARC-40A	2095	TRE-26C	2105	{BLA-204, 208 BLA-304, 30E	2115	SSL-95E	2125	L-311C
2086	TRE-12F	2096	STP-7F	2106	AST-140E	2116	MSL-16T	2126	5204
2087	SRP-467E	2097	N-880 (R#-2)	2107	ARC-12C, E	2117	AST-215E	2127	{4210, 4220, 4230 & (R#-2)
2088	SRP-468E	2098	N-163	2108	CSL-1E	2118	SRC-700U	2128	5305
2089	ECA-101E	2099	4TR-6U	2109	MSL-8E	2119	AST-102E	2129	TRE-12T
2090	STC-19	2100	MSL-15E	2110	SST-31	2120	No. 200E Series	2130	5304

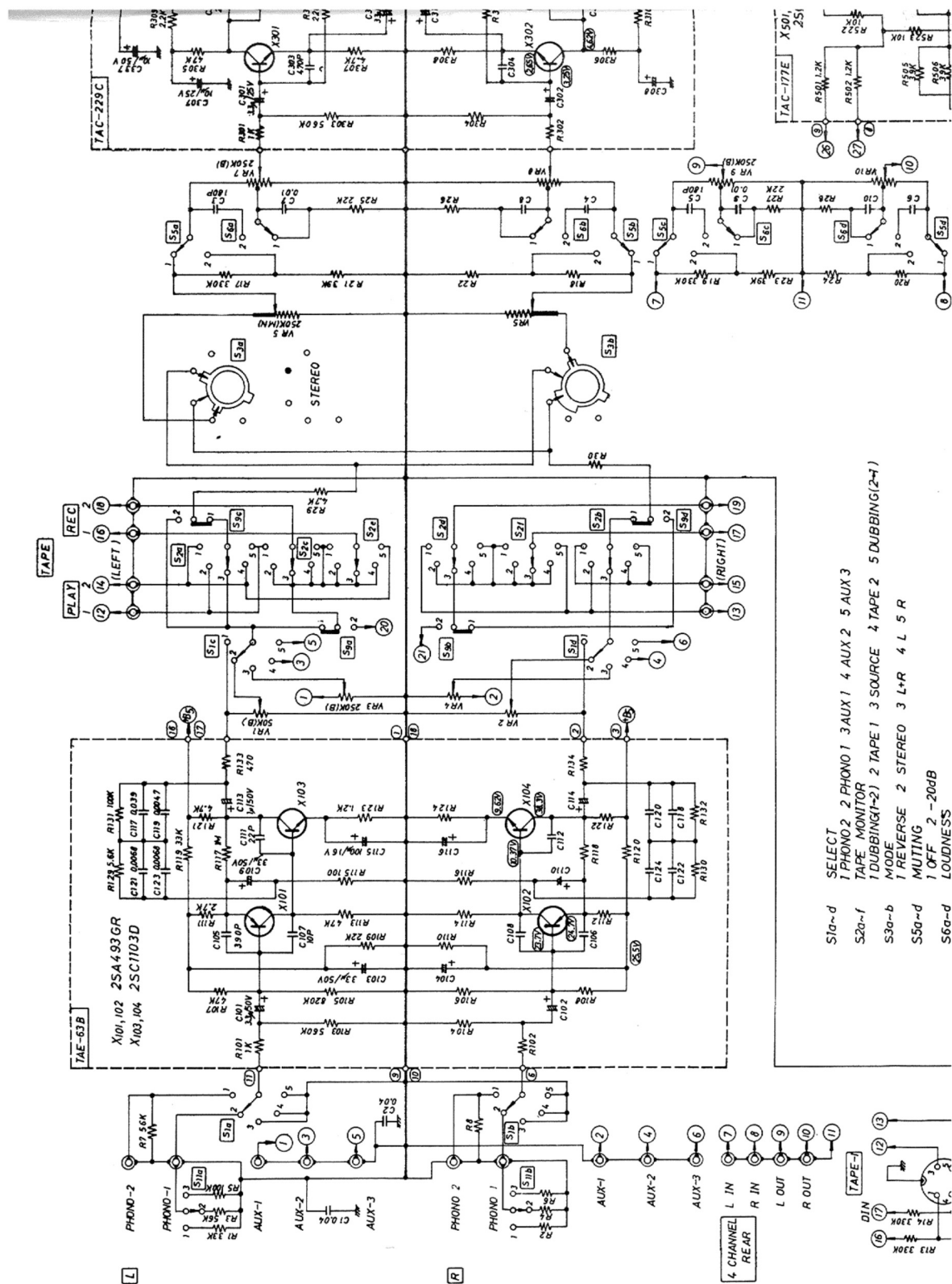
No.	Model	No.	Model	No.	Model	No.	Model	No.	Model
2131	STP-808A	2141	5320, 5340	2151(B)	5040 (R#-2)	2161	4333U	2171	5202
2132	ARC-41, 42	2142	L-311D	2152	{SSL-46E SSL-46EA	2162	MPX-18B	2172	5220
2133	TRE-666C	2143	6102, 6103, 6104	2153	MSL-300ES	2163	MCA-104E	2173	ARC-15A
2134(B)	4TR-990DX (a)	2144	ARC-10	2154	4330	2164	SEA-100E/5100	2174	4344, 4344U
2135	5001	2145	{5011/PST-1000E 5012/MST-1000E	2155	N-404, N-404Y	2165	5240B	2175(B)	4450, 4450U
2136	SRP-B30E/5230	2146	5201	2156(B)	MSL-501E	2166	4330U	2176	CSL-130SE
2137	N-65F	2147	MSL-300E	2157	N202, 303	2167	MCA-105E/5107	2177	5020/5020U
2138	4TR-511D, L511D	2148	5310	2158	4211	2168	5030/5030U	2178	MTR-10ME
2139(B)	SRP-B40E/5240	2149	MSL-110S	2159(B)	4333U, 4333	2169	SRC-900	2179	5010L
2140	5203	2150	5205	2160	5010	2170	5200	2180	4TR-1000

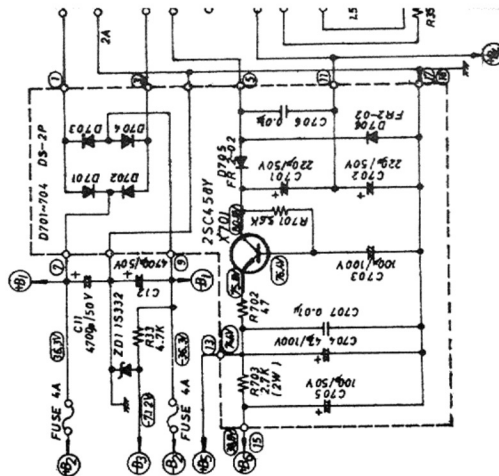
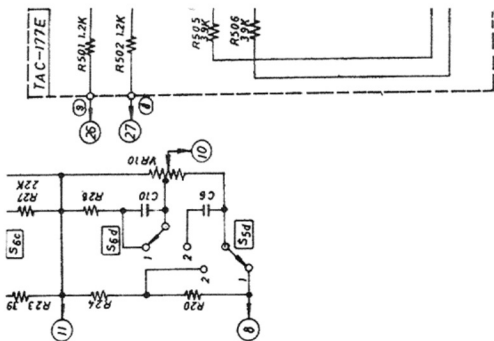
No.	Model	No.	Model	No.	Model	No.	Model	No.	Model
2181(B)	4400, 4400U	2191	MCM-105E/5111	2201	MSL-201L	2211	BLA-500E	2221	4431U
2182	ARC-50	2192	5395	2202	MSL-201S	2212	MCT-V7E	2222	4310U
2183	MCT-105E/5108	2193	MSL-201E	2203	4431	2213	5306	2223	{N303FYE, N203FY
2184	SCR-500	2194	MCA-V7E	2204	4310	2214	N203/Run No. 2	2224	MCA-104Z
2185	4330M	2195	SRC-800	2205	N-303YE	2215	5250U	2225	{MSL-501E MSL-201E
2186	N-404F Series	2196	5301/GB-2E	2206	5500	2216	5444/5444U	2226	MCP-105E
2187	5325, 5335	2197	5390	2207	5540	2217	5910	2227	MCA-V9E
2188	MSL-501L	2198	5321	2208	MTR-15ME	2218	MCT-V5E	2228	MCA-V5E
2189	MSA-404E	2199	5341/5341K	2209	5550/5550U	2219	5100	2229	ECA-102
2190	N-202FMY	2200	5331/5331K	2210	5351/5351K	2220	{5020/5020U 5030/5030U 5010/5040U	2230	5345

No.	Model	No.	Model	No.	Model	No.	Model	No.	Model
2231	CD4-1E	2241	4344U (R#-2)	2251	VR-5501	2261	VS-5307	2271	VN-700
2232	SRP-473E	2242	MS-4431, 4311U	2252	VN-5101	2262	VR-5511	2272	4MD-10X
2233	N-404FMY #3	2243	MF-4440	2253	VS-5308	2263	4DD-10	2273	VP-10, VB-10
2234	SEA-V7E	2244	MF-4451	2254	VS-5332	2264	5911	2274	
2235	MSL-502ES	2245	QSL-F777E	2255	VS-5352	2265	VT-700	2275	
2236	VS-5391	2246	MF-4430	2256	VS-5342	2266	4ME-4801	2276	
2237	VS-5396	2247	4MM-4600	2257	VS-5322	2267	VS-5399	2277	
2238	5520/5520U	2248	VR-5501L	2258	VR-5541	2268	4VN-770	2278	
2239	VR-5521L	2249	VR-5521	2259	VR-5551	2269	VP-100	2279	
2240	4ME-4800	2250	4VR-5445	2260(B)	4VR-5414	2270	VB-100	2280	

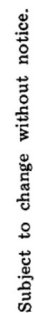
Printed in Japan

- 4704 - O -





Schematic Dia



m of Model VN-700