

**JVC**

**SERVICE MANUAL**

MODEL  
**JR-S300 MARK II**  
STEREO RECEIVER

**SEA**



No. 2387  
JAN. 1977

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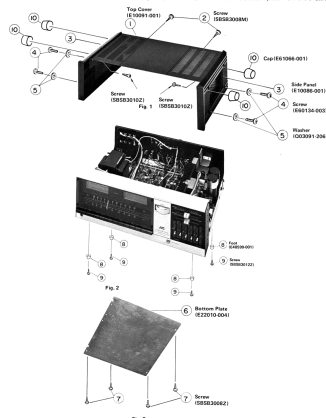
## 1. Specifications

<b>Dimensions</b>	: 6.616" (H) x 19.117" (W) x 13.316" (D) (168.0 mm x 483.0 mm x 338.5 mm)
<b>Weight (Net)</b>	: 23.9 lbs (10.7 kg)
<b>Amplifier Section</b>	
<b>RMS Power</b>	: 50 watts per channel, min. RMS at 8 ohms
<b>Both channels driven</b>	from 20 Hz to 20 kHz with no more than
<b>RMS Power</b>	0.1 % total harmonic distortion
<b>Both channels driven at 1 kHz</b>	65 watts per channel at 8 ohms
<b>Total Harmonic Distortion</b>	0.1 % at rated output power
<b>Damping Factor</b>	50 at 8 ohms
<b>Input Sensitivity, Impedance and</b>	Phono: 2.5 mV (0.5 µV) & 75 Ω
<b>Signal to Noise Ratio</b>	Aux: 180 mV (90 µV) & 95 Ω
<b>(IHF Short-Circuited A- Network)</b>	Tape-Max: 180 mV (90 µV) & 95 Ω
<b>Recording Output Level</b>	180 mV (IPL)
<b>Frequency Response</b>	20 mV (50 µV)
<b>S.E.A. Center Frequency</b>	15 Hz to 45 kHz ± 0 dB
<b>S.E.A. Control Range</b>	1 dB
<b>Loudness Control Range</b>	40 Hz, 250 Hz, 1 kHz, 5 kHz & 15 kHz
<b>(Volume Control at -40 dB position)</b>	+ 12 dB
	10 dB at 50 Hz, 4 dB at 10 kHz
<b>FM Tune Section</b>	
<b>Usable Sensitivity</b>	10.8 dBm (1.9 µV)
<b>Total Harmonic Distortion at 1 kHz and</b>	0.2 % (Mono) at 100 Hz to 1 kHz
<b>100 % Modulation</b>	0.2 % (Mono) at 5 kHz
<b>Signal to Noise Ratio (IHF Weighted)</b>	0.4 % (Stereo) at 100 Hz to 1 kHz
<b>50 dB Quieting Sensitivity</b>	0.2 % (Stereo) at 5 kHz
<b>Selectivity</b>	MONO 78 dB, STEREO 65 dB
<b>Capture Ratio</b>	MONO 16.1 dB (15 µV), STEREO 37.3 dB (40 µV)
<b>Image Rejection</b>	60 dB IHF Alternated
<b>IF Rejection</b>	1.2 dB
<b>Stereo Separation</b>	60 dB
<b>Muting Threshold</b>	95 dB
	45 dB at 1 kHz
	30 dB at 50 Hz to 10 kHz
	19.2 dB (15 µV)
<b>AM Tune Section</b>	
<b>Usable Sensitivity</b>	30 µV, 300 µV/m
<b>Image Rejection</b>	45 dB
<b>Selectivity</b>	30 dB
<b>IF Rejection</b>	50 dB
<b>Signal to Noise Ratio</b>	55 dB
<b>Power Supply Section</b>	
<b>Power Source</b>	AC 120 V, 50/60 Hz
<b>Power Consumption</b>	145 W

## 2. Removal of Top Cover and Bottom Plate

### Procedure and Part Numbers

1. Remove 4 screws (Item No. 4) through the both sides of the cover and two screws (Item No. 2) from the back of the top cover.
2. Remove the top cover.
3. Remove 4 screws (Item No. 3) from bottom plate (Item No. 6) and remove the bottom plate from the chassis.



### 3. Main Parts Location and Part Numbers

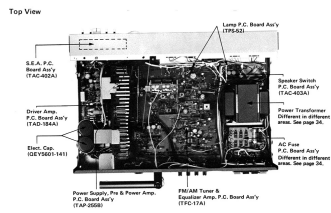


Fig. 4

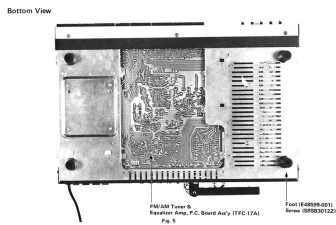
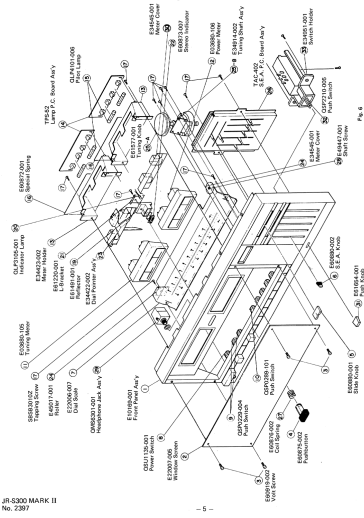


Fig. 5

#### 4. Exploded View and Part Numbers

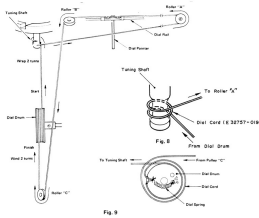
##### 4-(1) Front Panel



JR 5300 MARK II  
No. 2387



## 5. Dial Stringing Procedure



### Removing heat sink and power supply P.C. Board ass'y

Top View

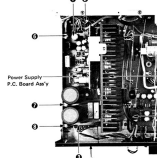


Fig. 10

Bottom View

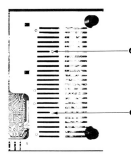


Fig. 11

Remove plug and screws according to steps below:  
 Step 1: 3 plugs (Item No. 3, No. 2 & No. 1)  
 Step 2: 2 screws (Item No. 4 & No. 5)  
 Step 3: 5 screws (Item No. 6, through No. 10)  
 Step 4: 1 screw (Item No. 11)



- (1) Remove heat sink and power supply P.C. Board ass'y, see Fig. 10 & 11.
- (2) Remove dial pointer and old dial cord.
- (3) Tie end of new dial cord to one end of dial spring, connect other end of dial spring of bottom right eye inside dial drum, see Fig. 8.
- (4) Rotate the tuning capacitor dial drum to its maximum clockwise.
- (5) Run the dial cord through the eye in the rim of the dial drum.
- (6) Pull dial cord taut and wrap 2 turns counterclockwise around tuning shaft. Refer to Fig. 8.
- (7) Guide the dial cord under and around roller "A", around rollers "B" and "C". Keep the dial cord taut during this procedure.
- (8) Guide the dial cord over the dial drum and wind 2 turns counterclockwise. See Fig. 9.
- (9) Turn the tuning shaft 1/2 and under the ribs on the rear of the dial pointer (see Detail) and place the pointer on the top of the dial panel (see Fig. 10).
- (10) Place the dial cord over and under the ribs on the rear of the dial pointer (see Detail) and place the pointer on the top of the dial panel (see Fig. 10).
- (11) Turn the tuning shaft clockwise. Slide the dial pointer to zero (0) calibration marker on the tagging scale while holding tuning shaft fully clockwise. Cement the dial pointer to dial cord to prevent slippage. Allow cement to dry thoroughly.
- (12) Reinstall the heat sink and power supply P.C. Board ass'y. Reconnect all plugs (removed previously) to their respective sockets.
- (13) Check dial calibration. Refer to FM/AM alignment.
- (14) Replace top cover.

## 6. FM/AM Tuner Alignment Procedures

Alignment locations for FM/AM Tuner sections

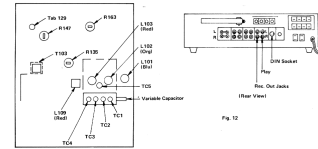
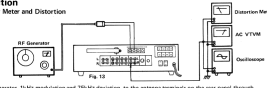


FIG. 11 (Continued) 1000B Receiver  
Tuner PZ Section (Part 2)

### 6-11 FM Section

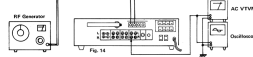
Discriminator, Center Meter and Distortion



1. Connect an RF generator, 10kHz modulation and 75kHz deviation, to the antenna terminals on the rear panel through a dummy antenna.
2. Connect an oscilloscope, distortion meter and VTVM to the Rec. Out Jacks on the rear panel.
3. Tune to a frequency where there is no broadcasting.
4. Adjust the bottom core of T103 so that the center meter indicates "0" (zero).
5. Set the dial pointer to 88MHz.
6. Set the dial pointer to 88MHz.
7. Adjust the top core of T103 so that the distortion is maximized at a value less than 0.4%.

#### Tracking and Sensitivity

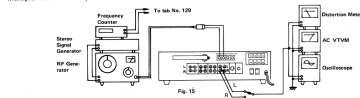
Procedures for adjustment, if required. The tracking and sensitivity has been adjusted properly and completely at the factory. If any special reason occurred, take the following procedures very carefully:



1. Connect an RF generator to the antenna terminals on the rear panel through a dummy antenna.
2. Set the RF generator to 88MHz, a modulation of 10kHz and deviation of 75kHz. It provides an input of 20µV.
3. Connect a VTVM and an oscilloscope to the Rec. Out Jacks on the rear panel.
4. Set the dial pointer to 88MHz.
5. Adjust three coils L100, L102 and L101 in the tuning gang to maximize the output.

- High Frequency**
- Set the RF generator to 100MHz, a modulation of 10Hz and a deviation of 75MHz, to provide an input of 20V.
  - Set the dial pointer to 100MHz.
  - Adjust the PRT trimmers TC2, TC3 and TC1 in the tuning gang to maximize the output.
  - Repeat these high and low frequency adjustments alternately until maximum sensitivity is obtained.
- Muting Level (Check 100) (See Fig. 14)**
- Note:** No adjustment is necessary. However, if the check up is required, take the following steps.
- Connect a VTVM and an oscilloscope to the Rec. Out Jacks.
  - Set the RF generator to 100MHz, a modulation of 10Hz and a deviation of 75MHz, to provide an input of 10V.
  - Turn R120 clockwise and remember the point which establishes the muting level operating.
  - Turn R120 counterclockwise slightly so that the output level drops by 1dB.
  - Adjust the output of the RF generator to 20dB from 10V of Step 2 and check that the muting is still operating.

**Multiplex and Stereo Separation**



- Multiplex**
- Set a stereo signal generator as follows: Modulation frequency 1,000Hz, Deviation pilot 7.5kHz, Main and Sub. 67.5kHz. Connect its output to an RF generator.
  - Connect the RF generator to the antenna terminals through a dummy antenna.
  - Connect a VTVM, an oscilloscope and a distortion meter to the Rec. Out Jacks.
  - Set the RF generator to 98MHz and an output of 10V.
  - Set the dial pointer to 98MHz.
  - Connect a frequency counter to Tab No. 129.
  - Switch on the pilot signal of the stereo modulator.
  - Adjust R147 so that the frequency counter indicates 198Hz (±0.01kHz).
- Stereo Separation**
- Switch the selector of the stereo modulator to left channel modulation.
  - Adjust R165 so that the output of the right channel is maximized.
  - Switch the selector of the modulator to right channel modulation.
  - Adjust R165 so that the output of the left channel is maximized.
  - Set R162 to average, if the separation of right and left are different.
- Note:** Keep the muting pushbutton out during this adjustment procedure of stereo separation.

**6-(2) AM Section**

- Tracking and Sensitivity**
- Low Frequency**
- Connect an RF generator to the antenna terminals on the rear panel, set this to 600kHz with 30% modulation at 400Hz.
  - Connect an AC VTVM and an oscilloscope to Rec. Out Jacks on the rear panel.
  - Set the dial pointer to 600kHz.
  - Adjust Osc. transformer L109 and the ferrite bar antenna to maximize the output signal.
- High Frequency**
- Set the RF generator to 1,400kHz with 30% modulation at 400Hz.
  - Set the dial pointer to 1,400kHz.
  - Adjust the trimmers TC4 and TC2 in the AM tuning gang so that the output signal is maximized.
  - Repeat these high and low frequency adjustments alternately until maximum sensitivity is obtained.

## 7. Power Amplifier Adjustment Procedures

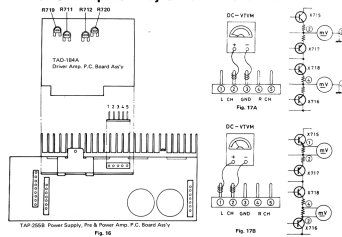


Fig. 16  
Fig. 17A  
Fig. 17B

For light channel adjustment  
Precision: Allow set to warm up at least 5 minutes before connecting DC VTVM.

### 7-(1) Center Voltage

1. Turn volume control to minimum.
2. Connect ground lead of DC VTVM to pin 3 (pin 3) and connect probe of DC VTVM to pin 2 (pin 4). Refer to Fig. 17A.
3. Adjust R711 (R712). Meter should read 0.10.051 volt. Refer to Fig. 16.

### 7-(2) Idling Current

4. Connect ground lead of DC VTVM to pin 2 (pin 4) and connect probe of DC VTVM to pin 1 (pin 5). Refer to Fig. 17B.
5. Adjust pot R718 (R720) for DC-VTVM reading of 10mV. Refer to Fig. 16.

#### Special Precaution

Do not replace the power transistors used for Model JR-6300 instead of Model JR-6300 Mark II.

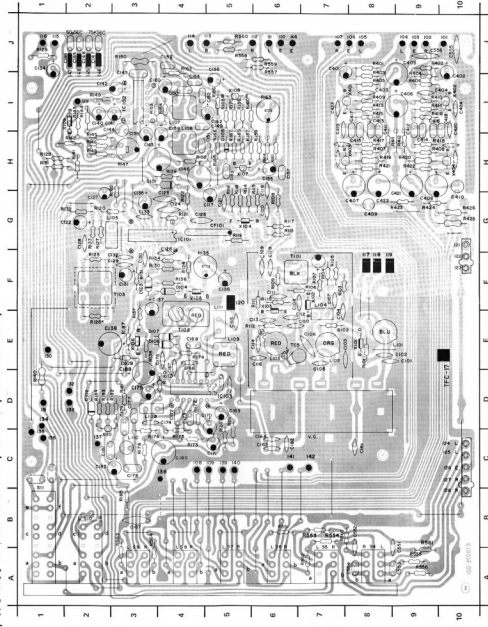
Power Transistor's Compatibility

JR-6300 Mark II	Compatibility	JR-6300
25052V (B or C)	NO	25052 (B or C)
25852V (B or C)	NO	25852 (B or C)

The ratings and characteristics are different between two models.

**8. Printed Circuit Board Assy Locations and Parts List**

8-(1) TFC-17A FM/AM Tuner & Equalizer Amp. P.C-Board Assy



Item No.	Part Number	Rating	Description	Maker
X101	25456D	1055, 14mA, 3V, 3.5dB (F=1000Hz)	FE Transistor	Hitschi
X102	25C32N (B, C)	100mw	700MHz	--
X103	25C1302 (B, C)	200mw	200MHz	--
X104	25C461 (C)	200mw	230MHz	--
X105	25C462 (C)	200mw	--	--
X106	25C468 (C)	300mw	--	--
X107	25C1728AV (F)	300mw	200MHz	--
X108	25C1728AV (F)	300mw	200MHz	--
X109	25C460 (C)	300mw	230MHz	--
X110	25C1728AV (F)	300mw	200MHz	--
X401	25A872AV (E)	--	--	--
X402	25A872AV (E)	--	--	--
X403	25C1728AV (F)	--	--	--
X404	25C1728AV (F)	--	--	--

Item No.	Part Number	Rating	Description	Maker
IC101	HA1137W	500mw	Integrated Circuit FM IF DET	Hitschi
IC102	HA1158W	400mw	MPX	--
IC103	HA1151	500mw	AM IF DET	--

Item No.	Part Number	Rating	Description	Maker
D101	152473	--	Silicon	Topo Denge
D102	152473	--	--	--
D103	152473	--	--	--
D104	152473	--	--	--
D105	152473	--	--	--
D107	152473	--	--	--
D108	152473	--	--	--

Item No.	Part Number	Rating	Description	Maker
L101	E03471024	--	RF Coil	--
L102	E0347735	--	--	--
L103	E03477028	--	--	--
L104	E03522242KV	2.2uH	Choke Coil	--
L105	E03522220K	2.2uH	FM Det. Coil	--
L106	E03407005	--	MPX Coil	--
L107	E03401006	--	--	--
L108	E03522281KV	30uH	Choke Coil	--
L109	E03079709	--	AM OSC Coil	--
L111	E03522282KV	2.2uH	Choke Coil	--
T101	E03078709	--	I.F. Transformer	--
T102	E03613402	--	AM I.F. Transformer	--
T103	E03134400	--	FM Det. Transformer	--

Capacitors

Item No.	Part Number	Rating	Description
C101	QCS11HJ-180	18pF	50V Ceramic
C102	QCS11HJ-101	100pF	"
C104	OCF11HP-103U	0.01µF	"
C105	QCS11HJ-180	18pF	"
C106	QCS11HJ-100	10pF	"
C107	QCS11HJ-101	100pF	"
C108	OCF11HP-103U	0.01µF	"
C109	OCF11HP-103U	"	"
C110	QCS11HJ-4R0	4pF	"
C111	OCF11HJ-103U	0.01µF	"
C112	OCT05CH-100	10pF	"
C113	OCT05CH-220	22pF	"
C114	OCT05CH-7R0	7pF	"
C116	OCT05SH-220	22pF	50V
C117	OEW41CA-106	10µF	16V Electrolytic
C118	OCF11HP-223A	0.022µF	50V Ceramic
C119	OCF11HP-223	0.022	"
C120	QCS11HJ-470	47pF	"
C121	OCF11HP-223A	0.022µF	"
C122	OEW41AA-476	47µF	10V
C123	OC20107-473	0.047µF	25V
C124	OC20107-473	"	"
C125	OC20107-473	"	"
C126	OCF11HP-223A	0.022µF	50V
C127	OEW41HA-105	1µF	Electrolytic
C128	OCF11HP-223A	0.022µF	Ceramic
C129	OCF11HP-223A	"	"
C130	OCF11HP-223A	"	"
C131	OEW41CA-106	10µF	16V Electrolytic
C132	OCF11HP-223A	0.022µF	50V Ceramic
C133	QCS11HJ-330	33pF	"
C134	OEW41EA-475	4.7µF	25V Electrolytic
C135	OEW41EA-475	4.7µF	25V
C136	OEW41HA-474	0.47µF	50V
C137	OEW41HA-105	1µF	"
C138	OEW41CA-227	220µF	16V
C139	OEW41EA-475	4.7µF	25V
C140	OE841EM-106	10µF	25V L.L.C. Electrolytic
C141	OE841HM-224	0.22µF	50V
C142	OE841HM-105	1µF	"
C143	OEW41CA-107	100µF	16V Electrolytic
C144	OF5A2B-471	470pF	50V Polystyrene
C145	OFM41HK-473	0.047µF	Mylar
C146	OEW41CA-476	47µF	16V Electrolytic
C147	OFM41HJ-153	0.015µF	Mylar
C148	OFM41HJ-153	"	"
C149	OFM41HK-182	1800pF	"
C150	OFM41HK-182	"	"
C151	OFM41HK-102	1000pF	"
C152	OFM41HK-102	"	"
C153	OFM41HK-472	4700pF	"
C154	OFM41HK-472	"	"

Capacitors				
Item No.	Part Number	Rating		Description
C155	DEB41HM 224	0.22µF	50V	L.L.C. Electrolytic
C156	DEB41HM 224	--	--	--
C157	OFM41HK 662	5600µF	--	Mylar
C158	OFM41HK 662	--	--	--
C159	DEW41HA 474	0.47µF	50V	Electrolytic
C160	DEW41HA 474	--	--	--
C161	OC511HJ 180	1µF	50V	Ceramic
C162	OC511HJ 150	15µF	--	--
C163	OC511HJ 201	20µF	--	--
C164	OC511HJ 150	15µF	--	--
C165	OCF11HP 223A	0.022µF	--	--
C166	OCF11HP 223A	--	--	--
C167	OCF11HP 223A	--	--	--
C168	OFM41HK 103	0.01µF	--	Mylar
C169	OCB41AA 476	47µF	10V	Electrolytic
C170	DEW41HA 106	1µF	50V	--
C171	DEW41CA 106	10µF	16V	--
C172	OFM41HK 223	0.022µF	50V	Mylar
C173	OFM41HK 102	1000µF	--	--
C174	OC511HJ 201	20µF	--	Ceramic
C175	DEW41CA 106	10µF	16V	Electrolytic
C176	OCF11HP 223A	0.022µF	50V	Ceramic
C177	OFM41HK 382	3900µF	--	Mylar
C180	DEW41CA 477	47µF	16V	Electrolytic
C181	OFM41HK 183	0.18µF	20V	Mylar
C182	DEW41CA 106	10µF	16V	Electrolytic
C183	DEW41HA 106	1µF	50V	--
C185	OFM41HJ 562	5600µF	50V	Mylar
C186	OFM41HJ 562	--	--	--
C187	OCF11HP 473	0.047µF	--	Ceramic
C188	NCT4021701	15µF	50V	--
C190	DEW41CA 476	47µF	16V	Electrolytic
C401	DEB41EM 226	2.2µF	25V	L.L.C. Electrolytic
C402	DEB41EM 226	--	--	--
C403	OC511HJ 471	47µF	50V	Ceramic
C404	OC511HJ 471	22µF	--	Electrolytic
C406	DEW41A 227	--	6.3V	--
C406	DEW41A 227	--	--	--
C407	DEW41A 227	--	--	--
C408	DEW41A 227	--	--	--
C409	DEZ046 106	1µF	50V	--
C410	DEZ046 106	--	--	--
C411	OFM41HK 123	0.012µF	50V	Mylar
C412	OFM41HK 123	--	--	--
C413	OFM41HK 272	2700µF	--	--
C414	OFM41HK 272	--	--	--
C415	OFM41HK 272	--	--	--
C416	OFM41HK 272	--	--	--
C417	OFM41HK 182	1500µF	--	--
C418	OFM41HK 182	--	--	--
C419	OC511HJ 181	180µF	--	Ceramic
C420	OC511HJ 181	--	--	--



Capacitors				
Item No.	Part Number	Rating		Description
C421	CEW41VA-107	100µF	35V	Electrolytic
C422	CEW41VA-107	--	50V	Ceramic
C423	OCS11HJ-220	22pF	--	--
C424	OCS11HJ-220	--	--	--
C551	OCS11HJ-271	270pF	--	--
C552	OCS11HJ-271	--	--	--
C553	OFM41HK-273	0.027µF	--	Mylar
C554	OFM41HK-273	--	--	--
C555	OCF11HP-473	0.047µF	50V	Ceramic
C556	OCF11HP-473	--	--	--
CF 101	E03628-001			Ceramic Filter
TCS	QAT2001-005			Trimmer

Resistors				
Item No.	Part Number	Rating		Description
R101	ORD181J-105	100Ω	1/8W	Carbon
R102	ORD181J-470	47Ω	--	--
R103	ORD181J-101	100Ω	--	--
R104	ORD181J-223	22kΩ	--	--
R105	ORD181J-472	4.7kΩ	--	--
R106	ORD181J-102	1kΩ	--	--
R107	ORD181J-101	100Ω	--	--
R108	ORD181J-470	47Ω	--	--
R109	ORD181J-561	560Ω	--	--
R110	ORD181J-103	10kΩ	--	--
R111	ORD181J-103	--	--	--
R112	ORD181J-222	2.2kΩ	--	--
R114	ORD181J-332	3.3kΩ	--	--
R115	ORD181J-821	820Ω	--	--
R116	ORD181J-102	1kΩ	--	--
R117	ORD181J-101	100Ω	--	--
R118	ORD181J-331	330Ω	--	--
R119	ORD181J-271	270Ω	--	--
R120	ORD181J-271	--	--	--
R121	ORD181J-331	330Ω	--	--
R122	ORD181J-474	470kΩ	--	--
R124	ORD181J-104	100kΩ	--	--
R125	ORD181J-562	5.6kΩ	--	--
R126	ORD181J-432	4.3kΩ	--	--
R127	ORD181J-752	7.5kΩ	--	--
R128	ORD181J-223	2.2kΩ	--	--
R129	ORD181J-473	47kΩ	--	--
R131	ORD181J-100	10Ω	--	--
R132	ORD181J-332	3.3kΩ	--	--
R133	ORD181J-103	10kΩ	--	--
R134	ORD181J-103	--	--	--
R135	QVPM400-473	47kΩ		Variable

Item No.	Part Number	Rating		Description
R135	ORD181J129	12K(1)	1.0W	Carbon
R137	ORD181J104	100K(1)	--	--
R138	ORD181J203	20K(2)	--	--
R139	ORD181J100	10(1)	--	--
R140	ORD181J100	10K(2)	1.0W	--
R141	ORD181J103	10K(2)	--	1.0W
R142	ORD181J202	3.9K(1)	--	--
R143	ORD181J202	--	--	--
R144	ORD181J102	1K(1)	--	--
R145	ORD181J204	200K(1)	--	--
R146	ORD181J103	10K(2)	--	--
R147	OVPAK08-473	4.7K(1)	--	Variable
R148	ORD181J153	15K(1)	1.0W	Carbon
R149	ORD181J106	10K(1)	--	--
R150	ORD181J181	180K(1)	1.2W	Unifilmatic Carbon
R151	ORD181J101	100(1)	1.0W	Carbon
R152	ORD181J470	47(1)	--	--
R153	ORD181J202	3.9K(1)	--	--
R154	ORD181J202	2.2K(1)	--	--
R155	ORD181J202	--	--	--
R156	ORD181J202	2.2K(1)	--	--
R157	ORD181J472	4.7K(1)	--	--
R158	ORD181J471	470(1)	--	--
R159	ORD181J201	200(1)	--	--
R160	ORD181J201	--	--	--
R161	ORD181J104	100K(1)	--	--
R162	ORD181J104	--	--	--
R163	OVPAK08-473	47K(1)	--	Variable
R164	ORD181J202	8.2K(1)	1.0W	Carbon
R165	ORD181J129	12K(1)	--	--
R166	ORD181J203	20K(1)	--	--
R167	ORD181J184	180K(1)	--	--
R168	ORD181J184	--	--	--
R169	ORD181J203	20K(1)	--	--
R170	ORD181J203	--	--	--
R171	ORD181J201	200(1)	--	--
R172	ORD181J103	10K(1)	--	--
R173	ORD181J103	--	--	--
R174	ORD181J472	4.7K(1)	--	--
R175	ORD181J201	200(1)	--	--
R176	ORD181J473	47K(1)	--	--
R178	ORD181J271	270(1)	--	--
R180	ORD181J101	100(1)	--	--
R181	ORD181J603	60K(1)	--	--
R182	ORD181J203	20K(1)	--	--
R183	ORD181J202	8.2K(1)	--	--
R184	ORD181J222	2.2K(1)	--	--
R185	ORD181J184	180K(1)	--	--
R186	ORD181J562	5.6K(1)	--	--
R187	ORD181J184	180K(1)	--	--
R401	ORD181J222	2.2K(1)	--	--
R402	ORD181J222	--	--	--

**Resistors**

Item No.	Part Number	Rating	Description
R403	ORD181J-104	100kΩ	1/BW Carbon
R404	ORD181J-104	"	"
R405	ORD181J-104	"	"
R406	ORD181J-104	"	"
R407	ORD181J-683	68kΩ	"
R408	ORD181J-683	"	"
R409	ORD181J-333	330Ω	"
R410	ORD181J-333	"	"
R411	ORD181J-334	330kΩ	"
R412	ORD181J-334	"	"
R413	ORD181J-224	220kΩ	"
R414	ORD181J-224	"	"
R415	ORD181J-333	33kΩ	"
R416	ORD181J-333	"	"
R417	ORD181J-183	18kΩ	"
R418	ORD181J-183	"	"
R419	ORD126J-682	6.8kΩ	1/2W Unflamable Carbon
R420	ORD126J-682	"	"
R421	ORD181J-102	1kΩ	1/BW Carbon
R422	ORD181J-102	"	"
R423	ORD181J-104	100kΩ	"
R424	ORD181J-104	"	"
R425	ORD126J-101	100Ω	1/2W Unflamable Carbon
R426	ORD126J-101	"	"
R551	ORD181J-332	3.3kΩ	1/BW Carbon
R552	ORD181J-332	"	"
R553	ORD181J-332	"	"
R554	ORD181J-332	"	"
R555	ORD181J-153	15kΩ	"
R556	ORD181J-153	"	"
R557	ORD181J-334	330kΩ	"
R558	ORD181J-334	"	"
R559	ORD181J-104	100kΩ	"
R560	ORD181J-104	"	"
R561	ORD181J-564	560kΩ	"
R562	ORD181J-564	"	"
R563	ORD181J-471	470Ω	"
R564	ORD181J-471	"	"

**Others**

Item No.	Part Number	Rating	Description
E3385-004			Shield Cover (Front End)
GSN289-101			Push Switch

**8-(2) TPS-52 Lamp P.C.Board Ass'y**



Fig. 18

**Resistors**

Item No.	Part Number	Rating	Description
R510	CR0216J680	68Ω	1W D.M.F.
R511	CR0216J681	680Ω	1/2W Uniforme Carton

**Other**

Item No.	Part Number	Rating	Description
	E4524J001		Corner Clip

**8-(3) TPS-53A AC Fuse P.C.Board Ass'y**

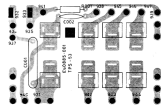


Fig. 19

Different assemblies are used in units intended for different areas. Make sure of where the unit was sold. Refer to page 34.

**Capacitors**

Item No.	Part Number	Rating	Description
CO01	See page 34	0.01μF	Metallized Mylar Capacitor
CO02	CC29008-101	100μF	500V Ceramic Capacitor

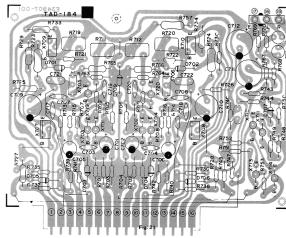
**Resistor**

Item No.	Part Number	Rating	Description
R501	See page 34	2.7KΩ	1/2W Composition Resistor

**Others**

Item No.	Part Number	Rating	Description
	See page 34		Fuse Current Clip
	See page 34		Fuse (To be ordered separately)

8-(4) TAD-184A Driver Amp.P.C.Board Ass'y



Transistors

Item No.	Part Number	Rating		Description	Maker
		Pc	f		
X701	2SA822AV(E)	300mW	200MHz	Siicon	Hitachi
X702	2SA822AV(E)	-	-	-	-
X703	2SA822AV(E)	-	-	-	-
X704	2SA822AV(E)	-	-	-	-
X705	2SC1848B-VJ	1W	120MHz	-	Fuji/mu
X706	2SC1848B-VJ	-	-	-	-
X707	2SD811L-M	20W	60MHz	-	NEC
X708	2SD811L-M	-	-	-	-
X709	2SD811L-M	-	-	-	-
X710	2SD811L-M	-	-	-	-
X711	2SC1778AV(F)	300mW	200MHz	-	Hitachi
X712	2SC1778AV(F)	-	-	-	-
X713	2SC1778AV(F)	-	-	-	-
X714	2SC1778AV(F)	-	-	-	-
X715	2SC1778AV(F)	-	-	-	-
X720	2SC1778AV(F)	-	-	-	-

**Diodes**

Item No.	Part Number	Rating	Description	Maker
D101	1N4148		Silicon Varactor	Sanyo
D102	1N4001			
D103	1N2473		Silicon	Topix Design
D104	1N2473			
D105	1N2473			
D106	1N2473			
D107	1N2473			
D109	WZ-130		Zener	JRC

**Capacitors**

Item No.	Part Number	Rating	Description
C101	OEWA1AA-474	0.47 $\mu$ F	Electrolytic
C102	OEWA1AA-474		
C103	OCST1HJ281	300pF	Ceramic
C104	OCST1HJ281		
C105	OEWA1AA-107	100 $\mu$ F	Electrolytic
C106	OEWA1AA-107		
C107	OCST1HJ300	10pF	Ceramic
C108	OCST1HJ300		
C109	OEWA1AA-476	47 $\mu$ F	Electrolytic
C110	OEWA1AA-476		
C111	OEWA1AA-477	470pF	
C112	OEWA1AA-477		
C117	OCST1HJ220	22pF	Ceramic
C118	OCST1HJ220		
C119	OCST1HJ470	47pF	500V
C120	OCST1HJ470		
C210	OCST1HJ470		
C211	CFM41HK-333	0.033 $\mu$ F	Mylar
C212	CFM41HK-333		
C223	OE2W04B-105	1 $\mu$ F	Non Polar Electrolytic
C224	OE2W04B-105		

Resistor			
Item No.	Part Number	Rating	Description
R101	ORD 14 J 152	1.5kΩ	1/4W Carbon
R102	ORD 14 J 152	-	-
R103	ORD 14 J 563	56kΩ	-
R104	ORD 14 J 563	-	-
R105	ORIG 291 102	1kΩ	1/2W Uniflammable O.M.F.
R106	ORD 14 J 152	-	-
R107	ORD 14 J 152	1.5kΩ	1/4W Carbon
R108	ORD 14 J 152	-	-
R109	ORD 14 J 332	3.3kΩ	-
R110	ORD 14 J 332	-	-
R111	OVPA08 472	4.7kΩ	Variable
R112	OVPA08 472	-	-
R113	ORD 14 J 563	56kΩ	1/4W Carbon
R114	ORD 14 J 563	-	-
R115	ORD 14 J 332	3.3kΩ	-
R116	ORD 14 J 332	-	-
R119	OVPA08 221	220Ω	Variable
R120	OVPA08 221	-	-
R121	ORD 14 J 121	120Ω	1/4W Carbon
R122	ORD 14 J 121	-	-
R123	ORD163-3025	3.9kΩ	Uniflammable O.M.F.
R124	ORD163-3025	-	-
R125	ORIG 120 272	10kΩ	-
R126	ORIG 120 272	2.7kΩ	1/2W -
R127	ORIG 120 272	10kΩ	-
R128	ORIG 120 272	10kΩ	Uniflammable M.F.
R129	ORIG 120 272	-	-
R130	ORIG 120 272	200Ω	-
R131	ORIG 120 272	-	-
R132	ORIG 120 272	10kΩ	Uniflammable O.M.F.
R133	ORIG 120 272	-	-
R134	ORIG 120 272	10kΩ	-
R135	ORIG 120 272	-	-
R136	ORIG 120 272	2.7kΩ	1/4W Carbon
R137	ORIG 120 272	-	-
R138	ORD 14 J 332	3.3kΩ	-
R139	ORD 14 J 332	-	-
R140	ORD 14 J 332	47kΩ	-
R141	ORD 14 J 473	-	-
R142	ORD 14 J 473	4.7kΩ	-
R143	ORD 14 J 473	-	-
R144	ORD 14 J 473	10kΩ	1/8W -
R145	ORD 14 J 473	-	-
R146	ORD 14 J 473	5.8kΩ	1/4W -
R147	ORD 14 J 473	2.7kΩ	-
R148	ORD 14 J 473	15kΩ	1/8W -
R149	ORD 14 J 473	1.5kΩ	-
R150	ORD 14 J 473	3.9kΩ	-
R151	ORD 14 J 473	1kΩ	1/4W -
R152	ORD 14 J 473	4.7kΩ	1/2W Uniflammable O.M.F.
R153	ORD 14 J 473	47kΩ	1/8W Carbon
R154	ORD 14 J 473	3.9kΩ	1/4W Uniflammable O.M.F.
R155	ORD 14 J 473	1.8kΩ	1/4W Carbon
R156	ORD 14 J 473	10kΩ	1/2W Uniflammable M.F.
R157	ORD 14 J 473	4.7kΩ	1/8W Carbon
R158	ORD 14 J 473	-	-
R159	ORD 14 J 473	-	-
R160	ORD 14 J 473	68kΩ	-
R161	ORD 14 J 473	-	-
<b>Other</b>			
Item No.	Part Number	Rating	Description
	ED028-3-10	-	3 pin Plug

8-(5) TAP-2558 Power Supply, Pre & Power Amp.P.C.Board Ass'y

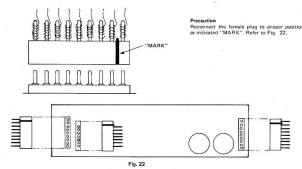


Fig. 22

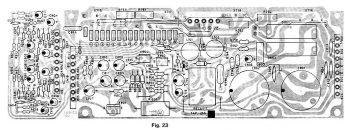


Fig. 23

Transistors						
Item No.	Part Number	Rating	f <sub>t</sub>	Description	Maker	
X801	2SA472A(V)E	300mW	200MHz	Silicon Transistor	Hitachi	
X802	2SA472A(V)E	"	"		"	
X803	2SC1778A(V)P	"	"		"	
X804	2SC1778A(V)P	"	"		"	
X715	2SD282V(B)_C	100W	3MHz	"	"	
X716	2SD282V(B)_C	"	"	"	"	
X717	2SB812V(B)_C	"	"	"	"	
X718	2SB812V(B)_C	"	"	"	"	
X719	2SC1778A(V)P	300mW	200MHz	"	"	
X720	2SC1778A(V)P	400mW	150MHz	"	"	
X801	2SD330V(D)_E1	20W	8MHz	Sanyo	"	
X802	2SD330V(D)_E1	"	"		"	
X803	2SD330V(D)_E1	"	"		"	



Diodes				
Item No.	Part Number	Rating	Description	Maker
DY89	10A13		Diode	Toshiba
D801	5S-3		Silicon Diode	Sanken
D801	5S-36		"	"
D803	ES4802-02C		"	Kyudo Denki JRC
D804	10Z-130		20mA Diode 13V	"
D805	WZ-280		"	28V
D806	WZ-290		"	"

Coils			
Item No.	Part Number	Rating	Description
L761	E06059-217	2.7uH	Choke Coil
L762	E06059-217		"

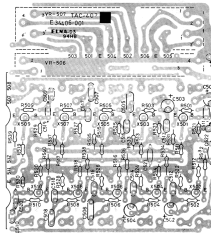
Capacitors				
Item No.	Part Number	Rating	Description	
C801	CE841EM-225	2.2uF	25V	L.I.C. Electrolytic
C802	CE841EM-225		"	"
C803	OS11HU-391	390uF	50V	Ceramic
C804	OS11HU-391		"	"
C805	GEW1AA-476	47uF	10V	Electrolytic
C806	GEW1AA-476		"	"
C807	OS11HU-180	180uF	50V	Ceramic
C808	OS11HU-180		"	"
C809	GEW1AA-476	47uF	10V	Electrolytic
C810	GEW1AA-476		"	"
C811	GE2006-475	4.7uF	50V	N.P. Electrolytic
C812	GE2006-475		"	"
C813	GEW1AA-476	47uF	10V	"
C814	GEW1AA-476		"	"
C815	OS11HU-391	39uF	50V	Ceramic
C816	OS11HU-390		"	"
C817	OS11HU-181	180uF	"	"
C818	OS11HU-181		"	"
C713	DFM1MK-473	0.047uF	"	Mylar
C714	DFM1MK-473		"	"
C715	GEW1GA-106	10uF	16V	Electrolytic
C716	GEW6JA-227	220uF	6.3V	"
C801	GEY1601-141	1000uF	60V	"
C802	GEY1601-141		"	"
C804	OCF12HP-103	0.01uF	500V	Ceramic
C805	OCF12HP-103		"	"
C806	DEW1HA-106	10uF	50V	Electrolytic

Capacitors				
Item No.	Part Number	Rating		Description
C807	CEW416A-227	220pF		
C808	CEW416A-476	47uF	35V	Electrolytic
C809	CEW416A-676	--	50V	--
C810	CEW416A-107	100pF	--	--
C811	CEW416A-107	--	25V	--
C812	OCF11HP-103	0.01uF	500V	--
C813	OCF11HP-103	--	--	Ceramic
C814	QF442AK-224	0.22uF	100V	Mylar
C815	OCF11HP-103	0.01uF	50V	Ceramic
C816	OCF11HP-103	--	--	--

Resistors				
Item No.	Part Number	Rating		Description
R801	OR141J-102	1kΩ	1/4W	Carbon
R802	OR141J-102	--	--	--
R803	OR141J-104	100kΩ	--	--
R804	OR141J-104	--	--	--
R805	OR141J-104	100kΩ	--	--
R806	OR141J-104	--	--	--
R807	OR141J-682	6.8kΩ	--	--
R808	OR141J-682	--	--	--
R809	OR141J-103	10kΩ	--	--
R810	OR141J-103	--	--	--
R811	OR141J-222	2.2kΩ	--	--
R812	OR141J-222	--	--	--
R813	OR141J-182	1.8kΩ	--	--
R814	OR141J-182	--	--	--
R815	OR141J-562	5.6kΩ	--	--
R816	OR141J-562	--	--	--
R817	OR141J-562	--	--	--
R818	OR141J-562	--	--	--
R754	OR141J-560	56Ω	--	--
R755	OR141J-204	200kΩ	--	--
R756	OR141J-204	200kΩ	2W	Unflamable O.M.F.
R757	OR141J-100	100Ω	1W	Metal Film
R758	OR141J-100	--	--	--
R759	OR141J-100	0.22Ω	5W	Metal Plate
R760	OR141J-100	--	--	--
R761	OR141J-100	--	--	--
R762	OR141J-100	--	--	--
R763	OR141J-100	--	--	--
R764	OR141J-100	4.7Ω	1/2W	Unflamable Carbon
R801	OR141J-103	100Ω	3W	Carbon
R802	OR141J-202	2.0kΩ	1/2W	Unflamable Carbon
R803	OR141J-121	120Ω	--	Unflamable O.M.F.
R804	OR141J-472	4.7kΩ	--	Unflamable Carbon
R805	OR141J-121	120Ω	--	Unflamable O.M.F.
R806	OR141J-472	4.7kΩ	--	Unflamable Carbon
R807	OR141J-181	180Ω	--	Unflamable O.M.F.
R808	OR141J-101	100Ω	--	--

Others			
Item No.	Part Number	Rating	Description
	E3206-001		Heat Sink
	E3443-001		Heat Sink Holder
	E3442-002		Transistor Socket
	E3057-002		T. Screw
	8835-0002		Relay
RV701	E81122A-311	24V	Power Sink For XBD1
	E80171-001		G.T. Pin For XBD1
	A49479-2		

8-(6) TAC-402A S.E.A. (Sound Effect Amp.) P.C.Board Ass'y



JN-5200 MARK II  
No. 2287

Fig. 24

Transistors

Item No.	Part Number	Rating		Description	Maker
		P	F		
X301	2SC1735AV(F)	200mW	250MHz	Silicon Transistor	Hitachi
X302	2SC1735AV(F)	--	--	--	--
X303	2SC1735AV(F)	--	--	--	--
X304	2SC1735AV(F)	--	--	--	--
X305	2SC1735AV(F)	--	--	--	--
X306	2SC1735AV(F)	--	--	--	--
X307	2SC1735AV(F)	--	--	--	--
X308	2SC1735AV(F)	--	--	--	--
X310	2SC1735AV(F)	--	--	--	--

Capacitors

Item No.	Part Number	Rating		Description
		P	F	
C501	DE841EW-275	4.7 $\mu$ F	25V	L.L.C. Electrolytic
C502	DE841EW-275	--	--	--
C503	DE841HW-474	0.47 $\mu$ F	50V	--
C504	DE841HW-474	--	--	--
C505	DFM41HC-124	0.12 $\mu$ F	--	Mylar
C506	DFM41HC-124	--	--	--
C507	DFM41HC-273	0.027 $\mu$ F	--	--
C508	DFM41HC-273	--	--	--
C509	DFM41HC-562	560 $\mu$ F	--	--
C510	DFM41HC-562	--	--	--
C511	DFM41HC-223	0.022 $\mu$ F	--	--
C512	DFM41HC-223	--	--	--
C513	DFM41HC-822	820 $\mu$ F	--	--
C514	DFM41HC-822	--	--	--
C515	DFM41HC-332	330 $\mu$ F	--	--
C516	DFM41HC-332	--	--	--
C517	DFM41HC-102	100 $\mu$ F	--	--
C518	DFM41HC-102	--	--	--
C519	DCS11HJ-681	68 $\mu$ F	--	Ceramic
C520	DCS11HJ-681	--	--	--
C521	DCF11HF-473	0.47 $\mu$ F	--	--
C522	DCF11HF-473	--	--	--

Resistors				
Item No.	Part Number	Rating	1/8W	Description
R501	GRD181J122	1.2kΩ	1/8W	Carbon
R502	GRD181J122	"	"	"
R503	GRD181J122	"	"	"
R504	GRD181J122	"	"	"
R505	GRD181J122	"	"	"
R506	GRD181J122	"	"	"
R507	GRD181J122	"	"	"
R508	GRD181J122	"	"	"
R509	GRD181J122	"	"	"
R510	GRD181J122	"	"	"
R511	GRD181J391	390Ω	"	"
R512	GRD181J391	"	"	"
R513	GRD181J391	"	"	"
R514	GRD181J391	"	"	"
R515	GRD181J391	"	"	"
R516	GRD181J391	"	"	"
R517	GRD181J391	"	"	"
R518	GRD181J391	"	"	"
R519	GRD181J391	"	"	"
R520	GRD181J391	"	"	"
R521	GRD181J134	130kΩ	"	"
R522	GRD181J134	"	"	"
R523	GRD181J013	91kΩ	"	"
R524	GRD181J013	"	"	"
R525	GRD181J513	51kΩ	"	"
R526	GRD181J513	"	"	"
R527	GRD181J333	33kΩ	"	"
R528	GRD181J333	"	"	"
R529	GRD181J243	24kΩ	"	"
R530	GRD181J543	"	"	"
R531	GRD141J682	6.8kΩ	1/4W	"
R532	GRD141J682	"	"	"
R533	GRD141J682	"	"	"
R534	GRD141J682	"	"	"
R535	GRD141J682	"	"	"
R536	GRD141J682	"	"	"
R537	GRD141J682	"	"	"
R538	GRD141J682	"	"	"
R539	GRD141J682	"	"	"
R540	GRD141J682	"	"	"
VR501	OV25010D02	250kΩ(W)		Slide Volume (S.E.A.)
VR502	OV25010D02	"		"
VR503	OV25010D02	"		"
VR504	OV25010D02	"		"
VR505	OV25010D02	"		"
VR506	OV19C2W-6FS	250kΩ(W)		(Balance)
VR507	OV19C2W-6GSE	150kΩ		(Volume)

8-(7) TAC-403A Speaker Switch P.C.Board Ass'y

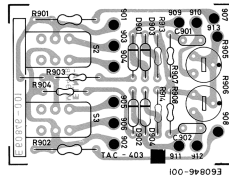


Fig. 21

Diodes

Item No.	Part Number	Rating	Description	Material
D901	1E2473F			Trans. Diode
D902	1E2473F		Diode	-
D903	1E2473F		-	-
D904	1E2473F		-	-

Capacitors

Item No.	Part Number	Rating	Description
C901	CFM41HJ222	220pF	50V Mylar
C902	CFM41HJ222	-	-

Resistors

Item No.	Part Number	Rating	Description
R901	GRG2HJ221	220Ω	1/8W 0.1% F
R902	GRG5HJ221	-	-
R903	GRD14J562	5.6kΩ	1/4W Carbon
R904	GRD14J562	-	-
R905	GRF40B222	2.2kΩ	1/2W 5% B
R906	GRF40B222	-	-
R907	GRD14J621	620Ω	1/4W Carbon
R908	GRD14J621	-	-

Other

Item No.	Part Number	Rating	Description
S2_23	SPK229-004		Push-Switch

## 9. Packing Materials

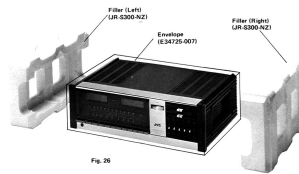


Fig. 26

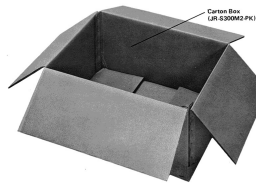


Fig. 27

## 10. Accessories List

Part Number	Description	Qty
See page 34	Instruction Book	1
See page 34	Warranty Card	1
E64207-002	Envelope for Instruction Book and Warranty Card	1
BT20024	"Do It Better" (for U.S.A. only)	1
BT20023	Service Procedures (for U.S.A. only)	1
EO614-002	F.M. Antenna (for U.K., Australia and Europe only)	1
OMF60R14R0	4.0 A Fuse (for 120 V, used in Military Market only)	1
OMF60R12R3	2.3 A Fuse (for 220 V, used in Military Market only)	1
E64216-002	Caution Tag (with Power Cord, for Military Market only)	1
E64206-001	Envelope for Fuses (for Military Market only)	1
E7955-L	Fuse Label (for Military Market only)	1

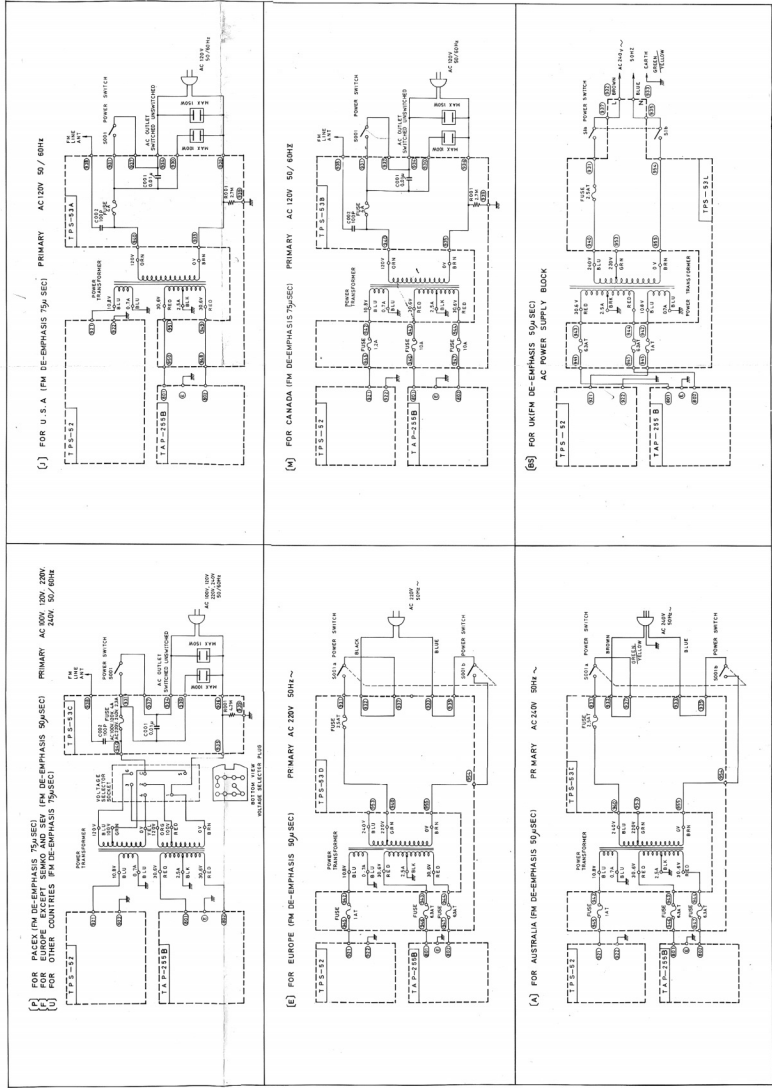
**12. Parts List with Specified Numbers for Designated Areas.**

Item No.	Description	U.S.A.	CANADA	PACE & OTHER DESIGN	Europe	Assemble	U.K.
4	Fuse Transformer	E02071-03	E02071-03	E02071-03	E02071-03	E02071-03	E02071-03
5	Fuse Switch	Q8P110-023	Q8P110-023	Q8P110-023	Q8P110-023	Q8P110-023	Q8P110-023
6	Fuse Core	Q8P1100-244	Q8P1100-244	Q8P1100-244	Q8P110-244	E02066-002	Q8P1030-02305
7	Cable Bridge	Q8C2010-102	Q8C2010-102	Q8C2010-102	Q8C2010-102	Q8C2010-102	Q8P1030-02305
8	AC Outlet	Q8C0431-001	Q8C0431-001	Q8C0431-001	Q8C0431-001	Q8C0431-001	Q8P1030-02305
20	Fuse Primary	Q8P0110-000	Q8P0110-000	Q8P0110-000	Q8P110-000	Q8P110-000	Q8P110-000
	Secondary 1	—	Q8P0110-000	Q8P0110-000	Q8P110-000	Q8P110-000	Q8P110-000
	Secondary 2	—	Q8P0110-000	Q8P0110-000	Q8P110-000	Q8P110-000	Q8P110-000
20	AC Fuse F.C. Safety Assy. FFSDA	FFS30	FFS30	FFS30	FFS30	FFS30	FFS30
20	0001 Metalized Wire Capacitor	Q8P131M-103M	E02114-103M	Q8P131M-103M	—	—	—
20	0002 Ceramic Capacitor	Q8P131M-103M	E02114-103M	Q8P131M-103M	—	—	—
20	0003 Composition Resistor	Q8C121K-2136	Q8C121K-2136	Q8C121K-2136	—	—	—
20	Fuse (Connect) Clip	E4824-001	E4824-001	E4824-001	E4824-001	E4824-001	E4824-001
	Pin	—	—	—	—	—	—
	Solder	—	—	—	—	—	—
21	Instruction Book	E3000-000A	E3000-000A	E3000-000A	E3000-000A	E3000-000A	E3000-000A
21	Warning Card	E3000-000C	E3000-000C	E3000-000C	E3000-000C	E3000-000C	E3000-000C
21	Fuse Assembly	—	—	—	—	—	—
21	Fuse H.A.	—	—	—	—	—	—
21	Fuse L.A.	—	—	—	—	—	—



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**11. JR-S300MARK II Schematic Diagram**

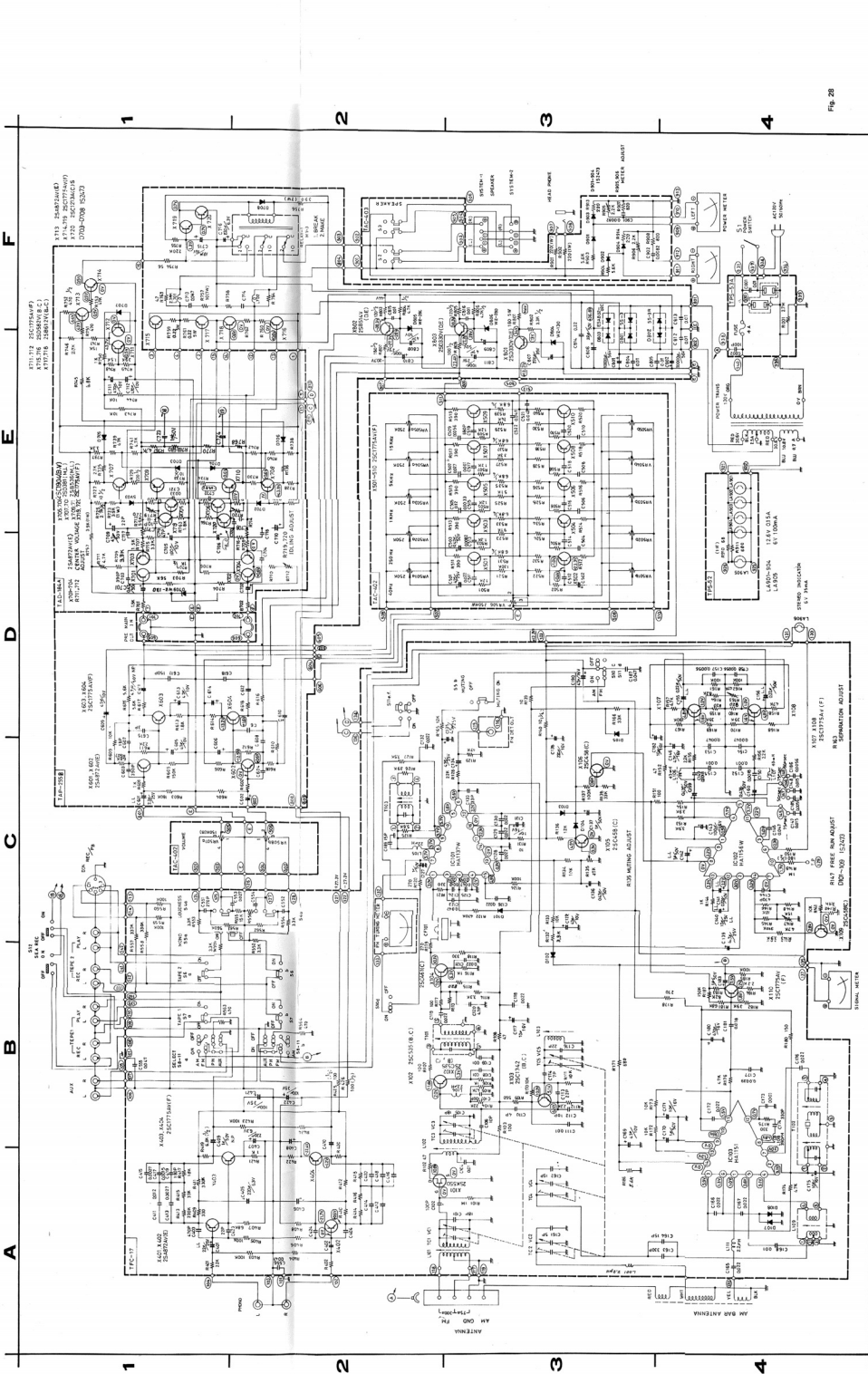


Fig. 28

P.C. Board Assy	Description	Page
TAC-127	Filter/Amplifier/Equalizer/Eliminator Amp. P.C. Board Assy	20
TAP-184A	Driver Amp. P.C. Board Assy	20
TAP-255B	Power Supply, Pre & Power Amp. P.C. Board Assy	21
TAC-402A	S.E.A. (Sound Effect Amp.) P.C. Board Assy	24
TAC-403A	Speaker Driver P.C. Board Assy	20

**A** Printed Circuit Board Assy Locations  
**B** Description  
**C** Page

JR-S300 MARK II  
 No. 2387