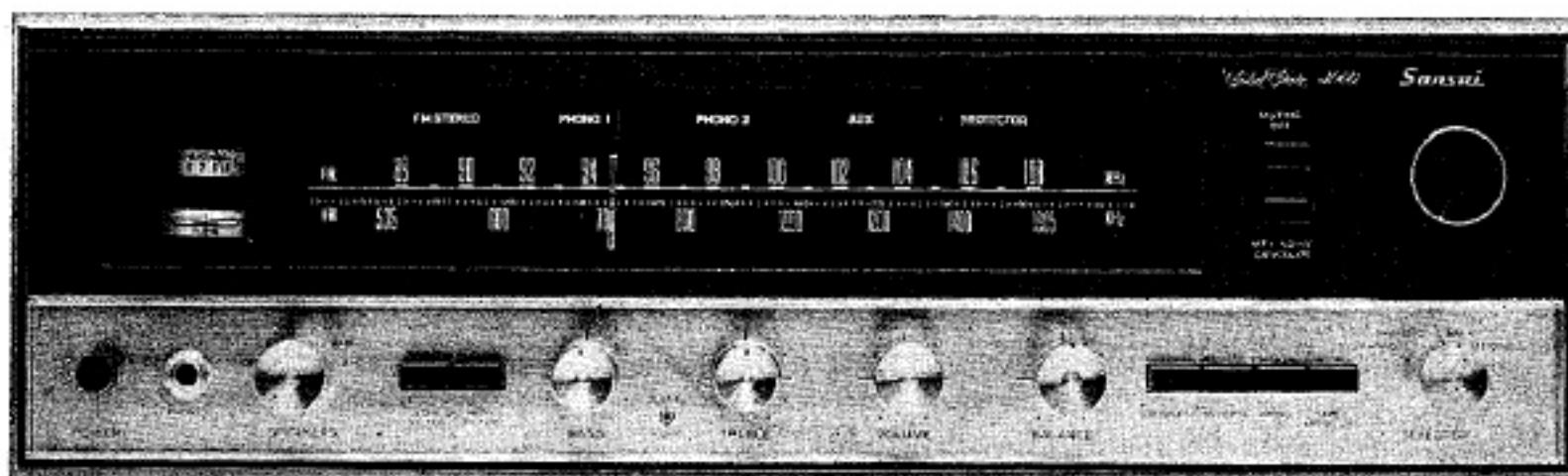


# SERVICE MANUAL

AM/FM STEREO TUNER AMPLIFIER

**SANSUI 4000**



sansui

SANSUI ELECTRIC COMPANY LIMITED

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# GENERAL TROUBLESHOOTING CHART

If the amplifier is otherwise operating satisfactorily, the more common causes of trouble may generally be attributed to the following:

1. Incorrect connections or loose terminal contacts. Check the speakers, record player, tape recorder, antenna and line cord.
2. Improper operation. Before operating any audio com-

ponent, be sure to read the manufacturer's instructions.

3. Improper location of audio components. The proper positioning of components, such as speakers and turntable, is vital to stereo.
4. Defective audio components.

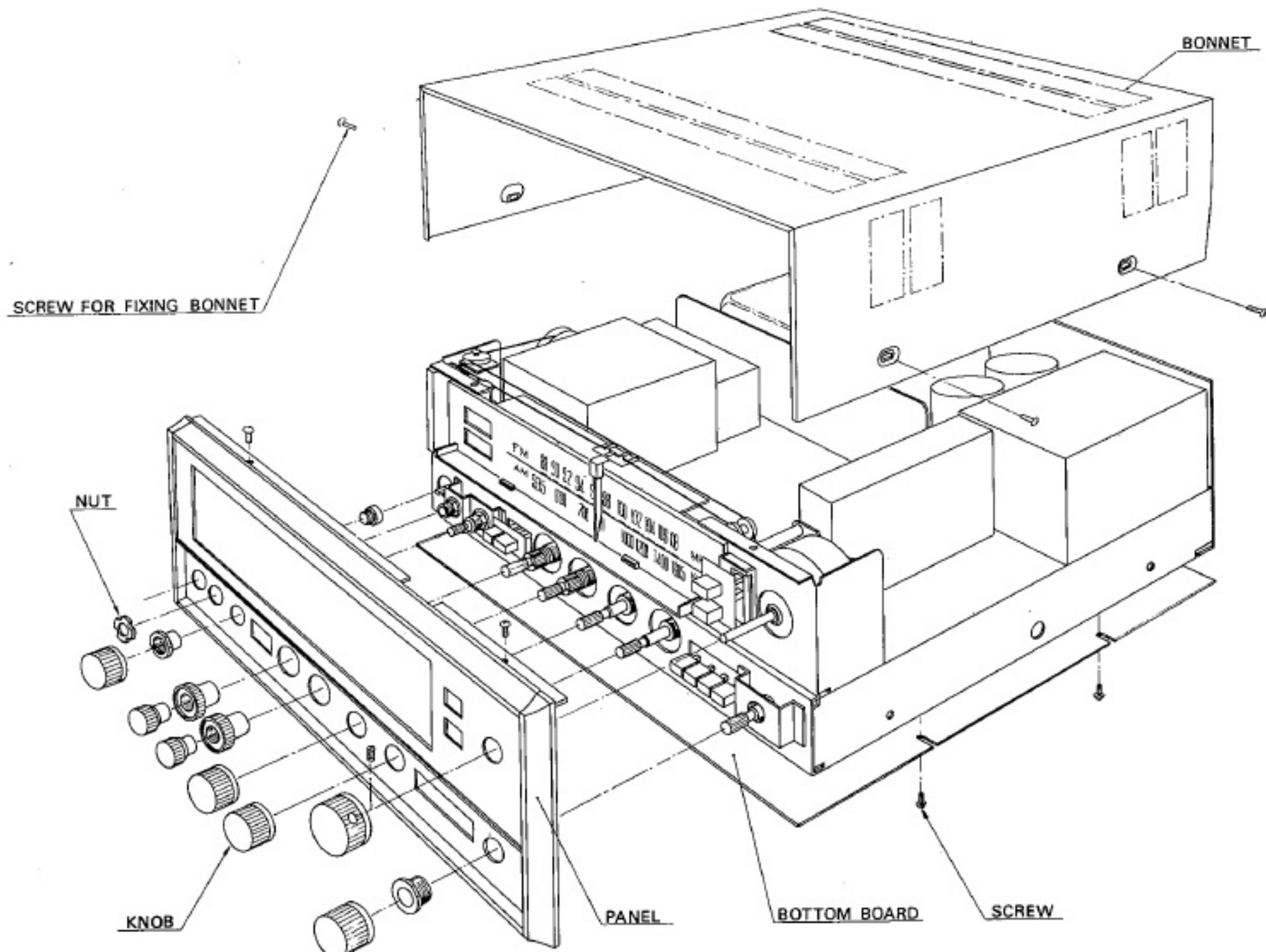
The following are some other common causes of malfunction and what to do about them.

<b>PROGRAM</b>	<b>SYMPTOM</b>	<b>PROBABLE CAUSE</b>	<b>WHAT TO DO</b>
AM, FM or MPX reception	A. Constant or intermittent noise heard at times or in a certain area	<ul style="list-style-type: none"> <li>* Discharge or oscillation caused by electrical appliances, such as fluorescent lamp, TV set, D.C. motor rectifier or oscillator</li> <li>* Natural phenomena, such as atmospherics, static or thunderbolts</li> <li>* Insufficient antenna input due to ferroconcrete wall or long distance from the station</li> <li>* Wave interference from other electrical appliances</li> </ul>	<ul style="list-style-type: none"> <li>* Attach a noise limiter to the electrical appliance causing the noise, or attach it to the amplifiers power source</li> <li>* Install an outdoor antenna and ground the amplifier to raise the signal-to-noise ratio</li> <li>* Reverse the power cord plug-receptacle connections</li> <li>* If the noise occurs at a certain frequency, attach a wave trap to the ANT. input</li> <li>* Keep the set at a proper distance from other electrical appliances</li> </ul>
	B. The needle of the signal and tune meter does not move sharply	<ul style="list-style-type: none"> <li>* Receiver is located in a weak signal area</li> </ul>	<ul style="list-style-type: none"> <li>* Place the set to receive maximum signal strength</li> </ul>
	C. The zero point of the meter diverges much	<ul style="list-style-type: none"> <li>* Regional difference in field intensity</li> </ul>	<ul style="list-style-type: none"> <li>* The unit is not at fault</li> </ul>
AM reception	A. Noise heard at a particular time of a day, in a certain area or over part of dial	<ul style="list-style-type: none"> <li>* Due to the nature of AM broadcasts</li> </ul>	<ul style="list-style-type: none"> <li>* Install the antenna for maximum antenna efficiency. See "ANTENNA" in the operating instructions</li> <li>* In some cases, the noise can be eliminated by grounding the amplifier or reversing the power cord plug-receptacle connections</li> </ul>
	B. High-frequency noise	<ul style="list-style-type: none"> <li>* Adjacent-channel interference or beat interference</li> <li>* TV set too close to audio system</li> </ul>	<ul style="list-style-type: none"> <li>* Although such noise cannot be eliminated by the amplifier, it is advisable to adjust the TREBLE control from midpoint to left and switch on the HIGH FILTER</li> <li>* Keep the TV set at a proper distance from the audio system</li> </ul>
FM reception	A. Noisy	<ul style="list-style-type: none"> <li>* Poor noise limiter effect or too low S/N ratio due to insufficient antenna input</li> </ul> <p>Note: FM reception is affected considerably by transmission conditions of stations: power and antenna efficiency. As a result, you may receive one station quite well while receiving another station poorly</p>	<ul style="list-style-type: none"> <li>* Install the antenna (supplied) for maximum signal strength</li> <li>* If this does not prove effective, use an outdoor antenna designed exclusively for FM. When you use a TV antenna for both TV and FM with a divider, make sure TV reception is not affected</li> <li>* An excessively long antenna may cause noise</li> </ul>

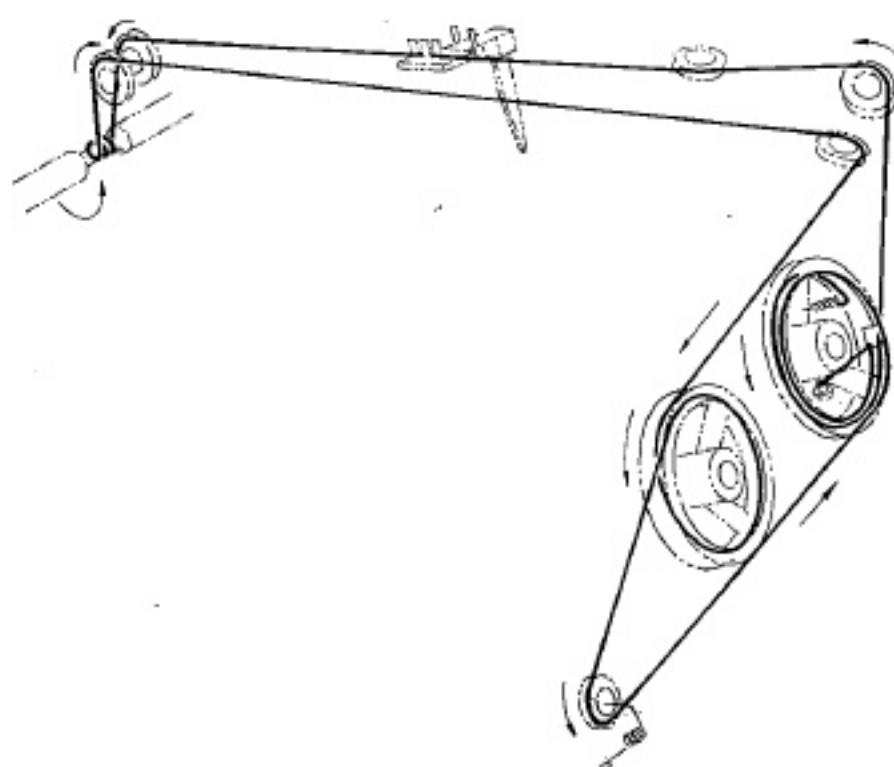
<b>PROGRAM</b>	<b>SYMPTOM</b>	<b>PROBABLE CAUSE</b>	<b>WHAT TO DO</b>
FM reception (cont'd)	B. A series of pops is heard	* Ignition noise caused by an automobile engine	* Install the antenna and its lead-in wire in proper distance from the road or raise the antenna input as described above
	C. Tuning noise between stations	* This results from the nature of the FM reception. As the station signal becomes weak, the noise limiter effect is decreased, and the amplification of the limiter, in turn, is enlarged, generating a noise	* Turn the MUTING switch on. It reduces the sensitivity, and therefore it should be used sparingly
FM-MPX reception	A. Noise heard during FM-MPX reception while not heard during FM mono reception	* Weaker signal because the service area of the FM-MPX broadcast is only half that of the FM mono broadcast	* Install the antenna for maximum antenna input * Switch on the high filter and/or turn the TREBLE control from midpoint, left
	B. Clearness of channel separation is decreased during reception	* Excess heat	* Circulation of air is important to the amplifier. Be sure that air is flowing under the amplifier
	C. The stereo indicator blinks on and off	* Interference	* The indicator is not at fault. Adjust VR <sub>401</sub>
	D. The stereo indicator blinks on and off even though stereo station is not received	* Interference	* The indicator is not at fault. Adjust VR <sub>401</sub>
Record playing or tape playback	A. Hum or howling	* Record player placed directly on speaker * Wire other than shielded wire used * Loose terminal contact * Shielded wire too close to line cord, fluorescent lamp or other electrical appliances * Nearby amateur radio station or TV transmission antenna	* Place a cushion between the player and the speaker box or place them away from each other * The connecting shielded wire should be as short as possible * Switch on the LOW FILTER and adjust the BASS control from midpoint, left * Consult the nearest Radio Regulatory Bureau
	B. Surface noise	* Worn or old record * Worn needle * Needle dusty * Improper needle pressure	* Recondition the playback head of the tape recorder or the needle the record player * Adjust the TREBLE control from midpoint, left * HIGH FILTER on
All stereo programs	BALANCE control is not at midpoint when equal sound comes from left and right channels	* It is important to adjust for equal sound from both channels. It should not always be set to the midpoint	* Set the MONO switch to MONO and then set the BALANCE control to a position where equal sound comes from both channels

# DISASSEMBLY PROCEDURE

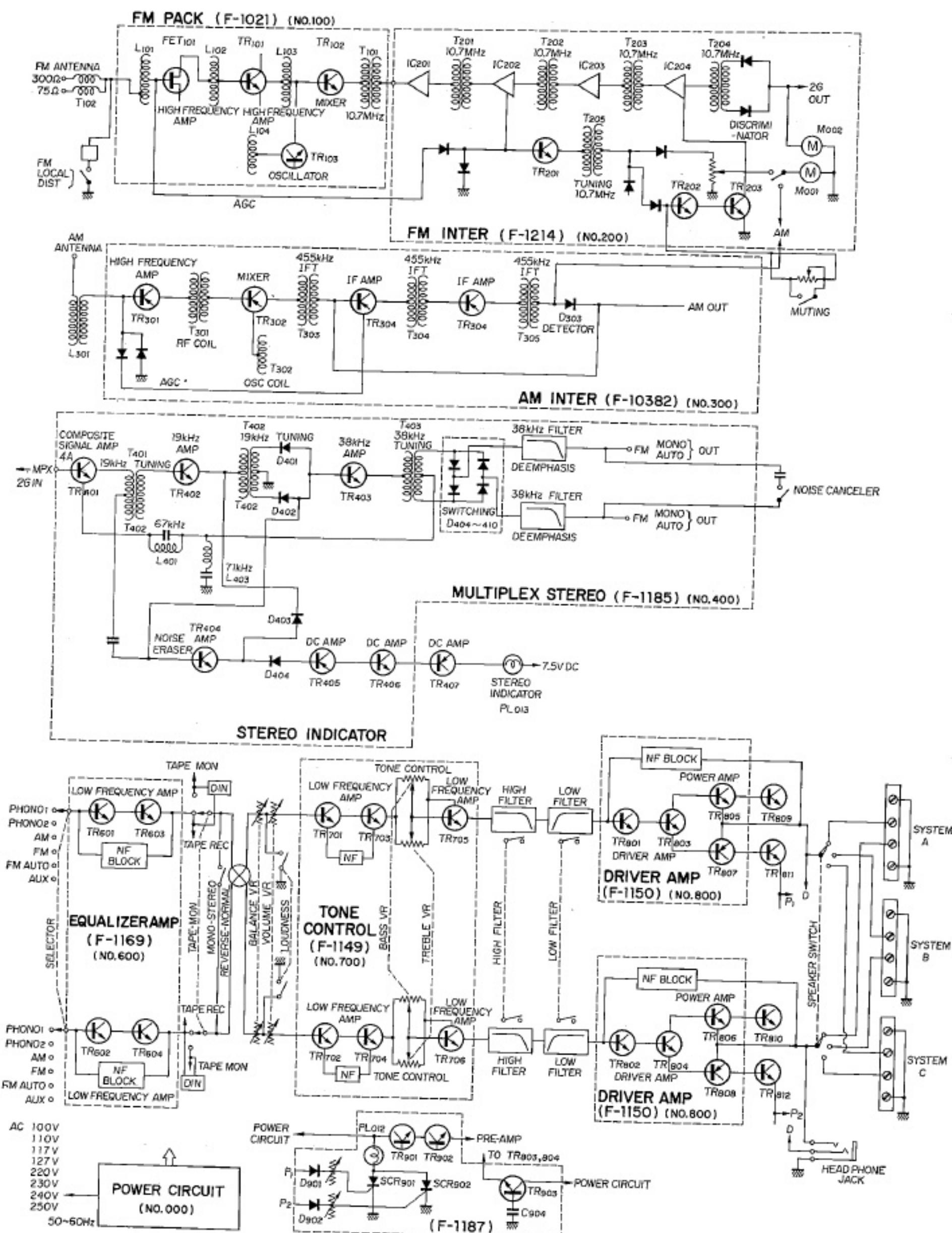
## REMOVING THE FRONT PANEL, BONNET AND BOTTOM BOARD



## DIAL MECHANISM

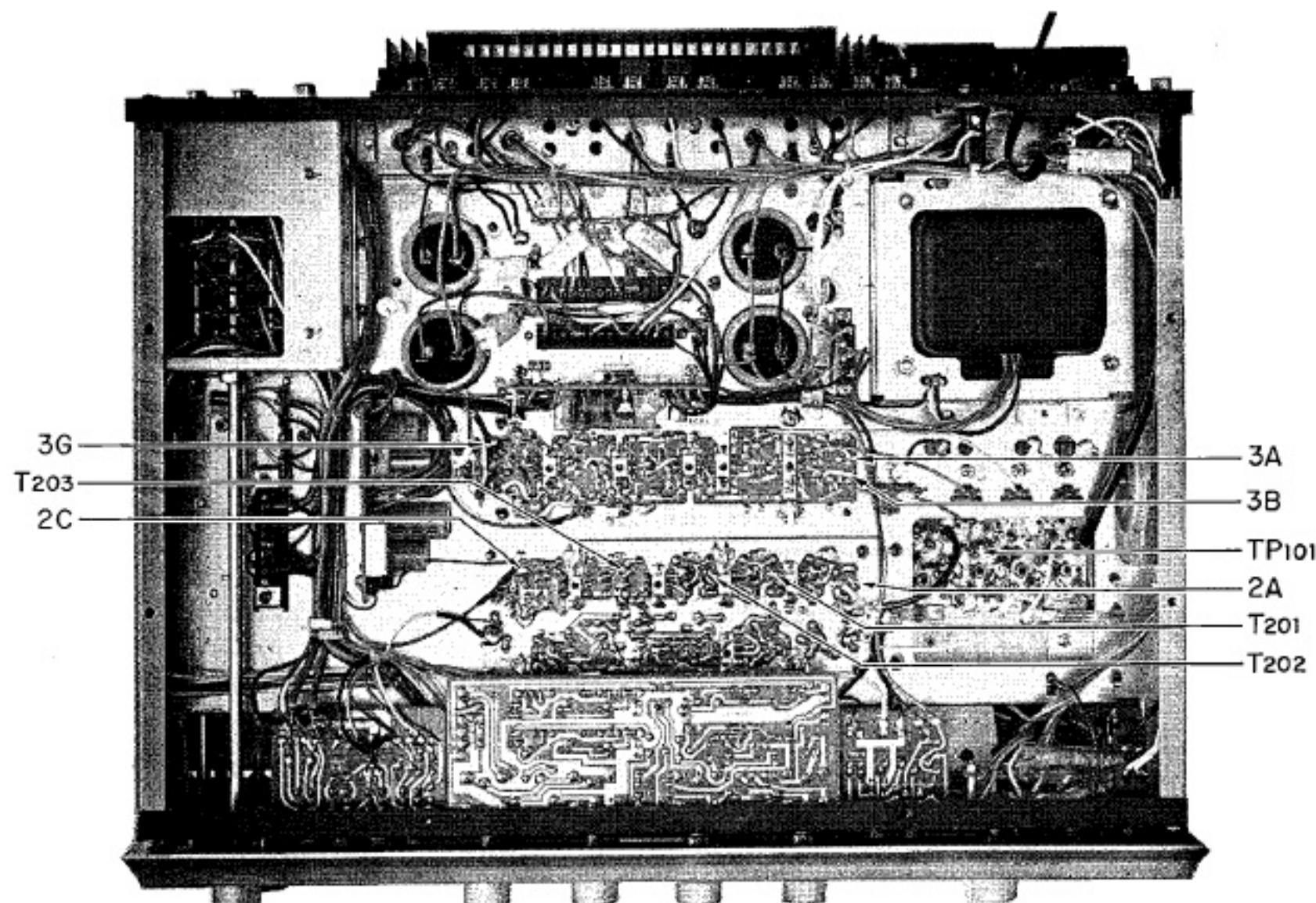
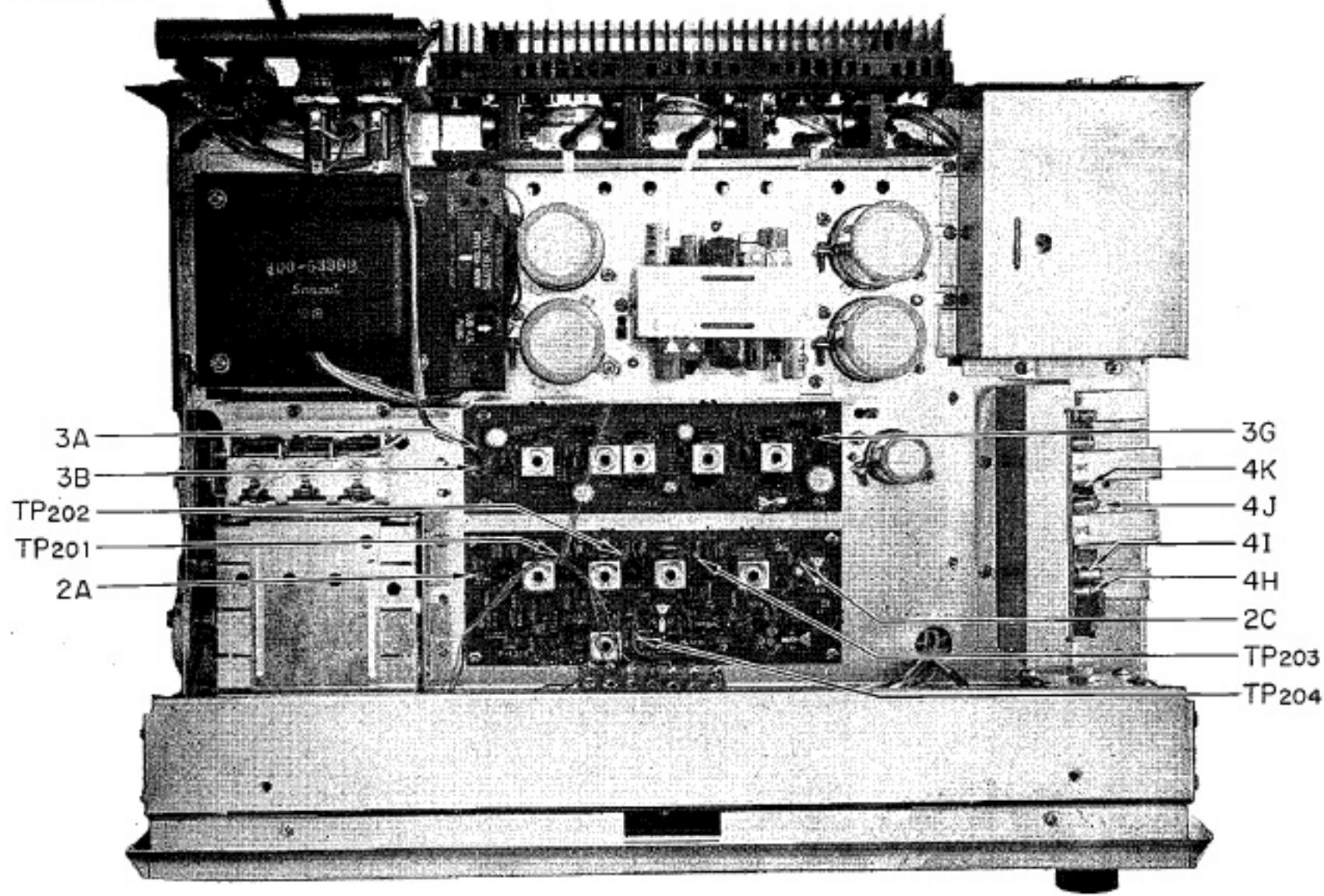


# BLOCK DIAGRAM



# ALIGNMENT

## TEST POINT

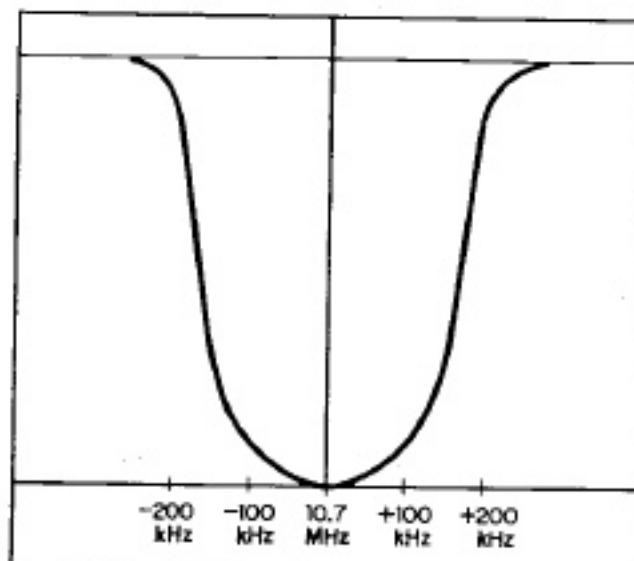


# FM ALIGNMENT PROCEDURE

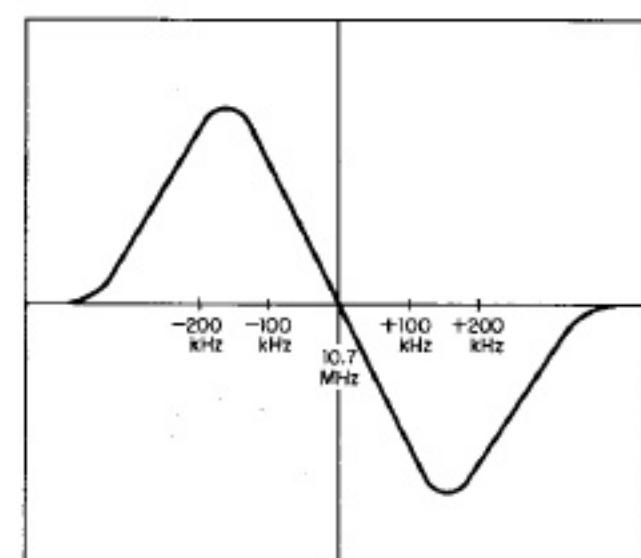
NOTE: To align, set the signal generator level to minimum.  
 Turn tuning gang fully.  
 Center carrier wave.  
 Set pointer at reference mark.

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF Transformer	10.7 MHz ±200 kHz	Sweep signal is sent to TP <sub>101</sub> via the 10pF ceramic condenser	Oscilloscope is connected to TP <sub>201, 202</sub> and 203 via the 10pF ceramic condenser with probe		Top and bottom sides of T <sub>202, 203</sub>	Best I.F.T. wave form
2.	Discriminator	10.7 MHz ±200 kHz	Sweep signal is sent to TP <sub>101</sub> via the 10pF ceramic condenser	Oscilloscope is connected to 2C		FM. Discriminator transformer T <sub>204</sub> top and bottom sides	S curve
3.	O.S.C	90 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	90 MHz	O.S.C. coil L <sub>104</sub>	Maximum
4.	O.S.C	106 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	106 MHz	O.S.C. trimmer TC <sub>105</sub>	Maximum
5.	Reiterate 3 and 4.						
6.	High-frequency Amp. Circuit	90 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	90 MHz	Antenna coil L <sub>101, 102</sub> and L <sub>103</sub>	Maximum
7.	High-frequency Amp. Circuit	106 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	106 MHz	Trimmer TC <sub>101, 103</sub> and TC <sub>104</sub>	Maximum
8.	Reiterate 6 and 7.						

FM IF WAVE FORM



FM DISCRIMINATOR WAVE FORM



# ALIGNMENT

## FM MULTIPLEX ALIGNMENT PROCEDURE

1. Do not attempt to align the Multiplex Circuit unless the following equipment is available:
  - a. Multiplex Stereo Generator b. Oscilloscope c. AC. V.T.V.M. d. Audio Oscillator e. FM Signal Generator

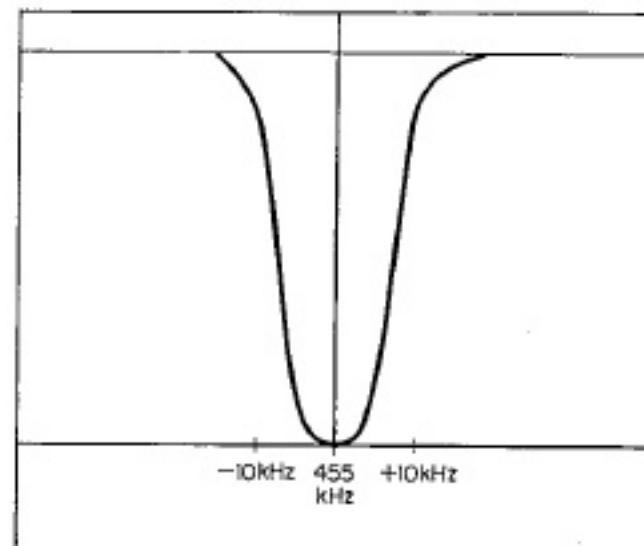
STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	ADJUST	ADJUST FOR
1.	67 kHz Trap	67 kHz Audio Signal	Connect to TP <sub>4A</sub> or 2C	V.T.V.M. at 4 <sub>I</sub>	L <sub>402</sub>	Minimum
2.	71 kHz Trap	71 kHz Audio Signal	Connect to TP <sub>4A</sub> or 2C	V.T.V.M. at 4 <sub>I</sub>	L <sub>403</sub>	Minimum
3.	19 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4 <sub>K</sub>	T <sub>401</sub>	Maximum
4.	19 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4 <sub>J</sub>	T <sub>402</sub>	Maximum
5.	38 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4 <sub>H</sub>	T <sub>403</sub>	Maximum
6.	38 kHz Transformer and Separation VR	FM Signal Gen. Modulated 30% by STEREO Signal Gen. channel-L	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at output load channel-R	T <sub>402</sub> or T <sub>403</sub> within $\frac{1}{4}$ turn and Separation VR(VR <sub>601</sub> )	Channel-R Minimum

# AM ALIGNMENT PROCEDURE

NOTE: To align, set the signal generator level to minimum.

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	I.F. Transformer	455 kHz ±30 kHz Sweep-generator	Antenna terminals	Oscilloscope and V.T.V.M. at 3G		top and bottom sides from the 1st I.F.T. ( $T_{302}$ ) to the 3rd I.F.T. ( $T_{304}$ )	Best I.F.T. wave form
2.	O.S.C.	AM-generator 535 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	535 kHz	O.S.C. Coil $T_{302}$	Maximum
3.	O.S.C.	AM-generator 1600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1600 kHz	O.S.C. Trimmer $TC_{303}$	Maximum
4.	Reiterate 2 and 3						
5.	RF amp.	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	RF transformer $T_{301}$	Maximum
6.	Antenna circuit	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	Ferrite bar Antenna $T_{306}$	Maximum
7.	RF amp.	AM-generator or 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400 kHz	RF Trimmer $TC_{302}$	Maximum
8.	Antenna circuit	AM-generator or 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400 kHz	Antenna circuit Trimmer $TC_{301}$	Maximum
9.	Reiterate 5. 6. 7. 8.						

## AM IF WAVE FORM

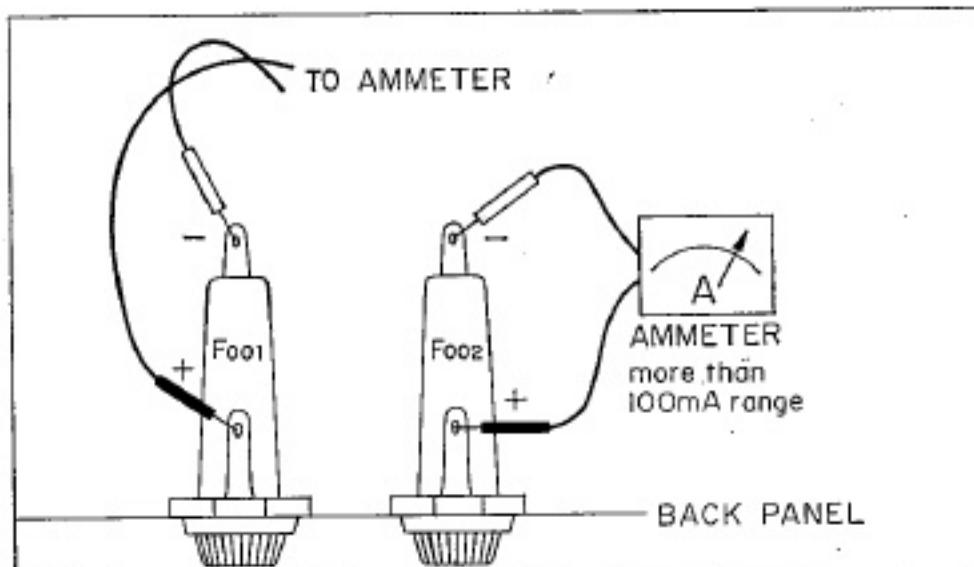


# ALIGNMENT

## 1. CURRENT ADJUSTMENT

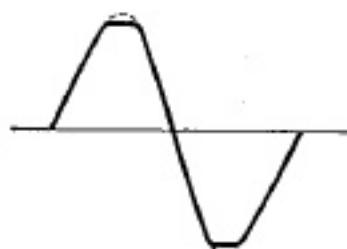
STEP	SETTING OF AMMETERS (TESTER)	WHAT TO DO	NOTE
1.		Remove F <sub>001</sub> and F <sub>002</sub>	
2.		Set VR <sub>803</sub> and VR <sub>804</sub> to minimum.	Use an ammeter having 100 or 50mA range.
3.		Set VR <sub>701</sub> and VR <sub>702</sub> to minimum	
4.		Push the POWER switch ON	Be sure to switch on 1st and then connect the ammeter.
5.	100mA range.	Connect the ammeter to F <sub>001</sub> as illustrated in Fig. 1	
6.		Turn VR <sub>803</sub> clockwise and adjust current to 15mA to 10mA at room temperature of 25°C or less or to 20 to 15mA at 25°C or more.	
7.	100mA range.	Push the POWER switch OFF and attach F <sub>001</sub> in place.	
8.		Push the POWER switch ON and connect the ammeter to F <sub>002</sub> as illustrated in Fig. 1	
9.		Turn VR <sub>804</sub> clockwise and adjust current to 5 to 10mA at 25°C or less or to 20 to 15mA at 25°C or more.	
10.		Attach F <sub>002</sub> in place	

**IMPORTANT:** Adjust the current first, the output second, and the protector last.



(Fig. 1) QUICK-ACTING FUSE HOLDER

## 2. OUTPUT ADJUSTMENT

STEP	PROCEDURE	NOTE
1.	Adjust the volume control to minimum.	
2.	Set an oscillator to 1,000 Hz and connect it to the LEFT AUX input.	The oscillator used should have the oscillation frequency of 20 to 20,000Hz and the output voltage of more than 200mV.
3.	Set the SELECTOR switch to AUX.	Set other controls and switches as follows:  BALANCE to CENTER TAPE MON. to OFF MODE to STEREO TONE to CENTER Others to OFF
4.	Connect a 8- or 16-ohm load resistor having capacitor of more than 50 watts to the LEFTSPEAKER output.	
5.	Connect an oscilloscope to the SPEAKER terminal.	
6.	Push the POWER switch on and increase the volume little by little. Check the output at the terminal by means of the oscilloscope.	
7.	Adjust VR <sub>901</sub> so that the fronts of sine wave are clipped simultaneously.	
8.	Adjust the right channel as above. In Step 7, adjust VR <sub>902</sub> .	

## 3. PROTECTOR ADJUSTMENT

STEP	WHAT TO DO	NOTE
1.	Set VR <sub>901</sub> and VR <sub>902</sub> to minimum.	Oscillator should have the same oscillation frequency and output voltage as in OUTPUT ADJUSTMENT.
2.	Set VR <sub>703</sub> and VR <sub>704</sub> to minimum.	
3.	Set VR <sub>701</sub> and VR <sub>702</sub> to minimum. (Operate left channel only.)	
4.	Set SELECTOR to PHONO 1, BASS to maximum, TREBLE to maximum, FILTER to OFF and MONO to OFF.	It is advisable to observe wave form by connecting oscilloscope to load in parallel.
	Set VR <sub>703</sub> and VR <sub>704</sub> to position at which they form hands at 3 o'clock.	Set the Oscillator 1,000Hz.
5.	Set SELECTOR to AUX and adjust input signal for clipping of wave form.	
6.	Turn VR <sub>901</sub> clockwise and set it to midposition. Turn SELECTOR to each position and check to see if PROTECTOR (L <sub>912</sub> ) is lit.	In AM and FM positions, noise is observed.
7.	Turn VR <sub>901</sub> clockwise little by little and determine position at which PROTECTOR is lit. Turn VR <sub>901</sub> counter-clockwise about 10° from given position.	Make sure PROTECT is not lit by turning SELECTOR again.
8.	Set VR <sub>701</sub> and VR <sub>702</sub> to maximum feed AUX signal to right channel and reiterate Steps 4 to 7.	

Caution: As soon as PROTECTOR is lit, turn POWER switch off and, after 5~10 seconds, turn it back on.

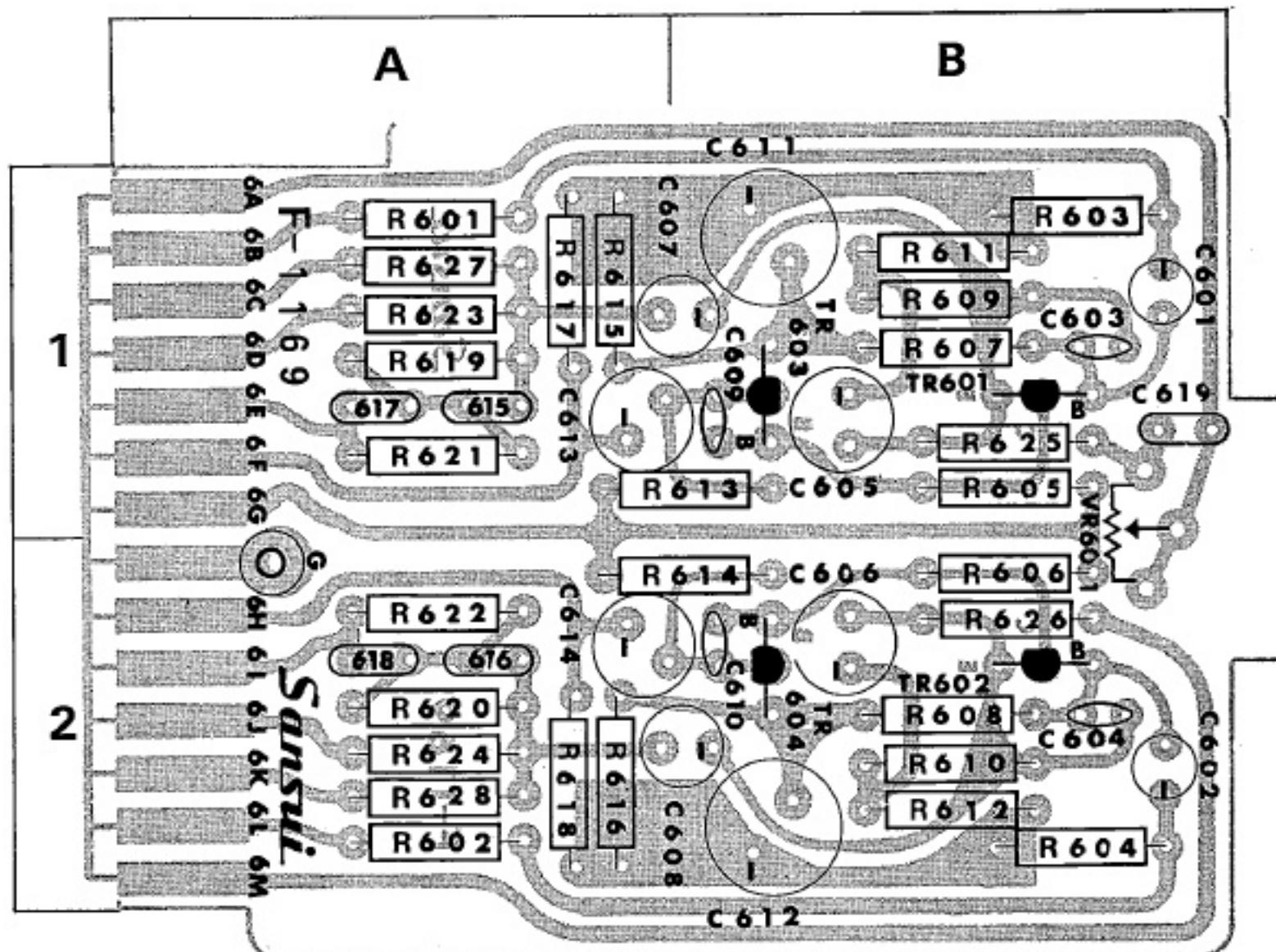
# PRINTED CIRCUIT SHEETS AND PARTS LIST

X: Parts No Y: Parts Name Z: Position of Parts

## F-1169 <EQUALIZER AMP. BLOCK>

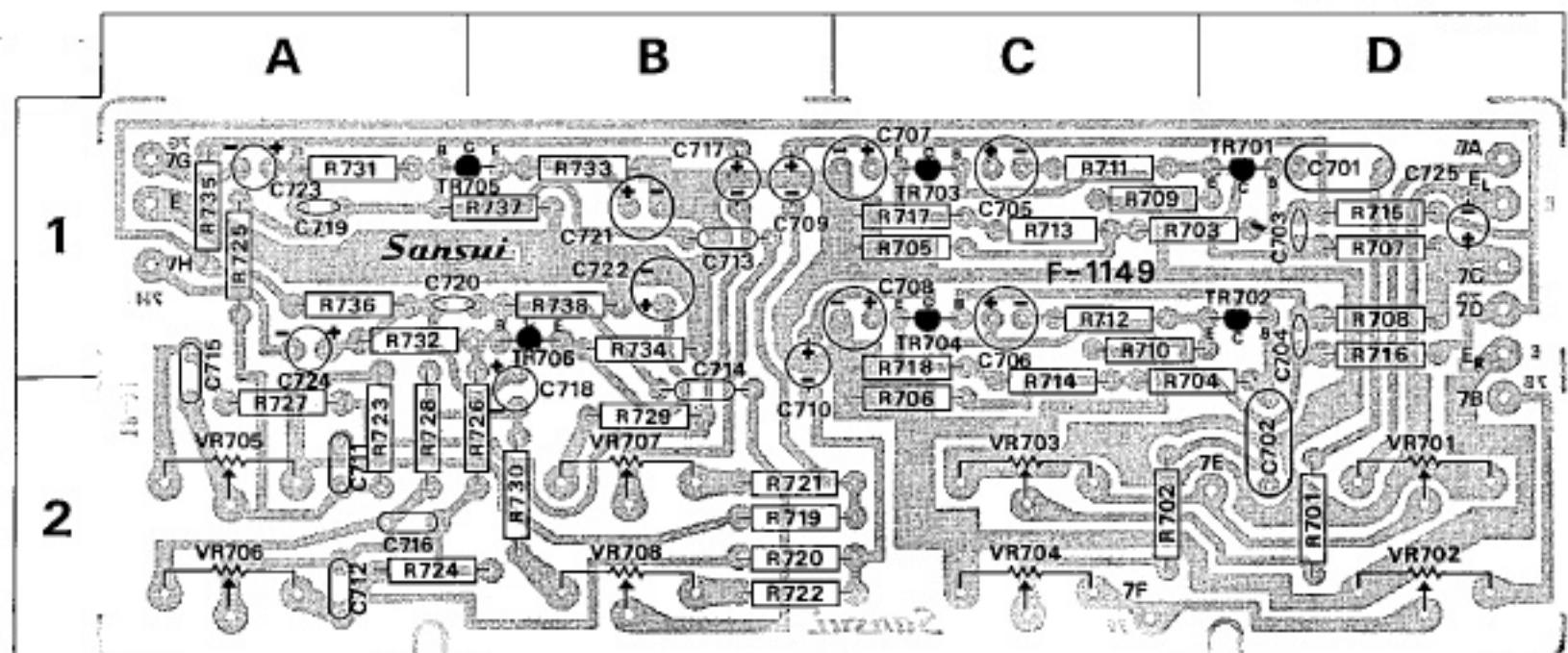
X	Y	Z
R601	1kΩ ±10% 1/4W Carbon Resistor	1A
R602	1kΩ ±10% 1/4W Carbon Resistor	2A
R603	680kΩ ±10% 1/4W Carbon Resistor	1B
R604	680kΩ ±10% 1/4W Carbon Resistor	2B
R605	220kΩ ±10% 1/4W Carbon Resistor	1B
R606	220kΩ ±10% 1/4W Carbon Resistor	2B
R607	270kΩ ±10% 1/4W Carbon Resistor	1B
R608	270kΩ ±10% 1/4W Carbon Resistor	2B
R609	2.2kΩ ±10% 1/4W Carbon Resistor	1B
R610	2.2kΩ ±10% 1/4W Carbon Resistor	2B
R611	390Ω ±10% 1/4W Carbon Resistor	1B
R612	390Ω ±10% 1/4W Carbon Resistor	2B
R613	6.8kΩ ±10% 1/4W Carbon Resistor	1A, 1B
R614	6.8kΩ ±10% 1/4W Carbon Resistor	2A, 2B
R615	470Ω ±10% 1/4W Carbon Resistor	1A
R616	470Ω ±10% 1/4W Carbon Resistor	2A
R617	82kΩ ±10% 1/4W Carbon Resistor	1A
R618	82kΩ ±10% 1/4W Carbon Resistor	2A
R619	330kΩ ±10% 1/4W Carbon Resistor	1A
R620	330kΩ ±10% 1/4W Carbon Resistor	2A
R621	22kΩ ±10% 1/4W Carbon Resistor	1A
R622	22kΩ ±10% 1/4W Carbon Resistor	2A
R623	4.7kΩ ±10% 1/4W Carbon Resistor	1A
R624	4.7kΩ ±10% 1/4W Carbon Resistor	2A
R625	220Ω ±10% 1/4W Carbon Resistor	1B
R626	220Ω ±10% 1/4W Carbon Resistor	2B

X	Y	Z
C601	1.5μF	15 WV Tantalume Capacitor
C602	1.5μF	15 WV Tantalume Capacitor
C603	150pF ±10% 50 WV Ceramic Capacitor	1B
C604	150pF ±10% 50 WV Ceramic Capacitor	2B
C605	47μF	10 WV Electrolytic Capacitor
C606	47μF	10 WV Electrolytic Capacitor
C607	10μF	25 WV Electrolytic Capacitor
C608	10μF	25 WV Electrolytic Capacitor
C609	150pF ±10% 50 WV Ceramic Capacitor	1B
C610	150pF ±10% 50 WV Ceramic Capacitor	2B
C611	100μF	6.3 WV Electrolytic Capacitor
C612	100μF	6.3 WV Electrolytic Capacitor
C613	10μF	50 WV Electrolytic Capacitor
C614	10μF	50 WV Electrolytic Capacitor
C615	0.012μF ±10% 50 WV Mylar Capacitor	1A
C616	0.012μF ±10% 50 WV Mylar Capacitor	2A
C617	0.003μF ±10% 50 WV Mylar Capacitor	1A
C618	0.003μF ±10% 50 WV Mylar Capacitor	2A
C619	0.0022μF ±10% 50 WV Mylar Capacitor	1B
VR601	V10k7-1-3 3kΩ B Separation Adjustor (103054)	1B, 2B
TR601	2SC871 F	1B
TR602	2SC871 F	2B
TR603	2SC871 F (E)	(030547 2, -1)
TR604	2SC871 F (E)	(030547 2, -1)



## F-1149 < TONE CONTROL BLOCK >

X	Y	Z	X	Y	Z
R701	1kΩ ±10% ½W Carbon Resistor	2D	C702	0.22μF ±10% 50 WV Mylar Capacitor	2B
R702	1kΩ ±10% ½W Carbon Resistor	2C, 2D	C703	22pF ±10% 50 WV Ceramic Capacitor	1A
R703	47kΩ ±10% ½W Carbon Resistor	1D	C704	22pF ±10% 50 WV Ceramic Capacitor	1A, 1B
R704	47kΩ ±10% ½W Carbon Resistor	2D	C705	33μF 16 WV Electrolytic Capacitor	1B
R705	68kΩ ±10% ½W Carbon Resistor	1C	C706	33μF 16 WV Electrolytic Capacitor	1B
R706	68kΩ ±10% ½W Carbon Resistor	2C	C707	33μF 10 WV Electrolytic Capacitor	1A
R707	100kΩ ±10% ½W Carbon Resistor	1D	C708	33μF 10 WV Electrolytic Capacitor	1A
R708	100kΩ ±10% ½W Carbon Resistor	2D	C709	1μF 50 WV Electrolytic Capacitor	1D
R709	1kΩ ±10% ½W Carbon Resistor	1C, 1D	C710	1μF 50 WV Electrolytic Capacitor	1D
R710	1kΩ ±10% ½W Carbon Resistor	1C, 1D	C711	0.04μF ±10% 50 WV Mylar Capacitor	2D
R711	12kΩ ±10% ½W Carbon Resistor	1C	C712	0.04μF ±10% 50 WV Mylar Capacitor	2D
R712	12kΩ ±10% ½W Carbon Resistor	1C	C713	0.0015μF ±10% 50 WV Mylar Capacitor	2C
R713	330kΩ ±10% ½W Carbon Resistor	1C	C714	0.0015μF ±10% 50 WV Mylar Capacitor	2B
R714	330kΩ ±10% ½W Carbon Resistor	2C	C715	0.04μF ±10% 50 WV Mylar Capacitor	2B
R715	6.8kΩ ±10% ½W Carbon Resistor	1D	C716	0.04μF ±10% 50 WV Mylar Capacitor	2B
R716	6.8kΩ ±10% ½W Carbon Resistor	1D	C717	3.3μF 25 WV Electrolytic Capacitor	2A
R717	2.7kΩ ±10% ½W Carbon Resistor	1C	C718	3.3μF 25 WV Electrolytic Capacitor	2A
R718	2.7kΩ ±10% ½W Carbon Resistor	1C, 2C	C719	68pF ±10% 50 WV Ceramic Capacitor	1D
R719	10kΩ ±10% ½W Carbon Resistor	2B, 2C	C720	68pF ±10% 50 WV Ceramic Capacitor	1D
R720	10kΩ ±10% ½W Carbon Resistor	2B, 2C	C721	33μF 10 WV Electrolytic Capacitor	1D
R721	6.8kΩ ±10% ½W Carbon Resistor	2B, 2C	C722	33μF 10 WV Electrolytic Capacitor	1C
R722	6.8kΩ ±10% ½W Carbon Resistor	2B, 2C	C723	1μF 50 WV Electrolytic Capacitor	1C
R723	150kΩ ±10% ½W Carbon Resistor	2A	C724	1μF 50 WV Electrolytic Capacitor	1A, 1B
R724	150kΩ ±10% ½W Carbon Resistor	2A	C725	0.1μF 25 WV Aluminum Solid Capacitor	1B
R725	22kΩ ±10% ½W Carbon Resistor	1A			2D
R726	22kΩ ±10% ½W Carbon Resistor	2B	VR701	250kΩ M, N	1D
R727	10kΩ ±10% ½W Carbon Resistor	2A	VR702	250kΩ M, N	1D
R728	10kΩ ±10% ½W Carbon Resistor	2A	VR703	250kΩ B	1C
R729	6.8kΩ ±10% ½W Carbon Resistor	2B	VR704	250kΩ B	1C
R730	6.8kΩ ±10% ½W Carbon Resistor	2B	VR705	100kΩ B	1C
R731	470kΩ ±10% ½W Carbon Resistor	1A	VR706	100kΩ B	1C
R732	470kΩ ±10% ½W Carbon Resistor	1A	VR707	100kΩ B	1B, 1C
R733	560Ω ±10% ½W Carbon Resistor	1B	VR708	100kΩ B	1B, 1C
R734	560Ω ±10% ½W Carbon Resistor	1B			2A
R735	5.6kΩ ±10% ½W Carbon Resistor	1A	TR701	2SC 871 F	2A
R736	5.6kΩ ±10% ½W Carbon Resistor	1A	TR702	2SC 871 F	2A
R737	150kΩ ±10% ½W Carbon Resistor	1B	TR703	2SC 872 E	2A
R738	150kΩ ±10% ½W Carbon Resistor	1B	TR704	2SC 871 E	2A
C701	0.22μF ±10% 50 WV Mylar Capacitor	1D	TR705	2SC 871 E	2A
			TR706	2SC 871 E	2A
					1A

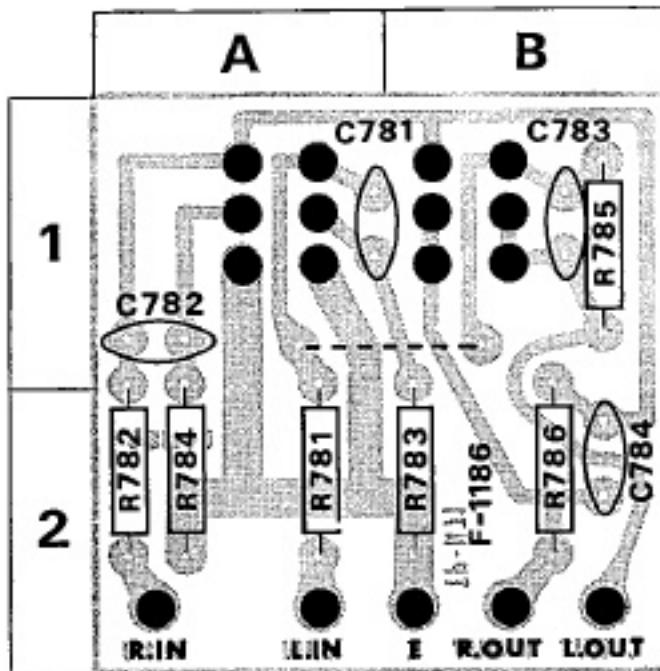


# PRINTED CIRCUIT SHEETS AND PARTS LIST

X: Parts No Y: Parts Name Z: Position of Parts

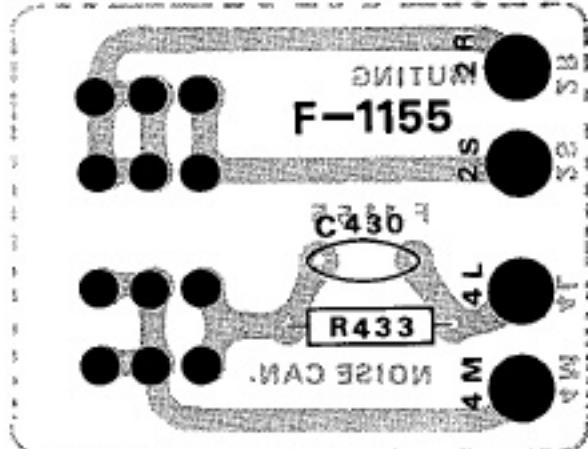
## F-1186 <HIGH-LOW FILTER BLOCK>

X	Y	Z
R781	2.2kΩ ±10% 1/4W Carbon Resistor	2A
R782	2.2kΩ ±10% 1/4W Carbon Resistor	2A
R783	100kΩ ±10% 1/4W Carbon Resistor	2B
R784	100kΩ ±10% 1/4W Carbon Resistor	2A
R785	560kΩ ±10% 1/4W Carbon Resistor	1B
R786	560kΩ ±10% 1/4W Carbon Resistor	2B
C781	0.02μF ±10% 50 WV Mylar Capacitor	1A, 1B
C782	0.02μF ±10% 50 WV Mylar Capacitor	1A
C783	0.0047μF ±10% 50 WV Mylar Capacitor	1B
C784	0.0047μF ±10% 50 WV Mylar Capacitor	2B
S8, S9		(113007)



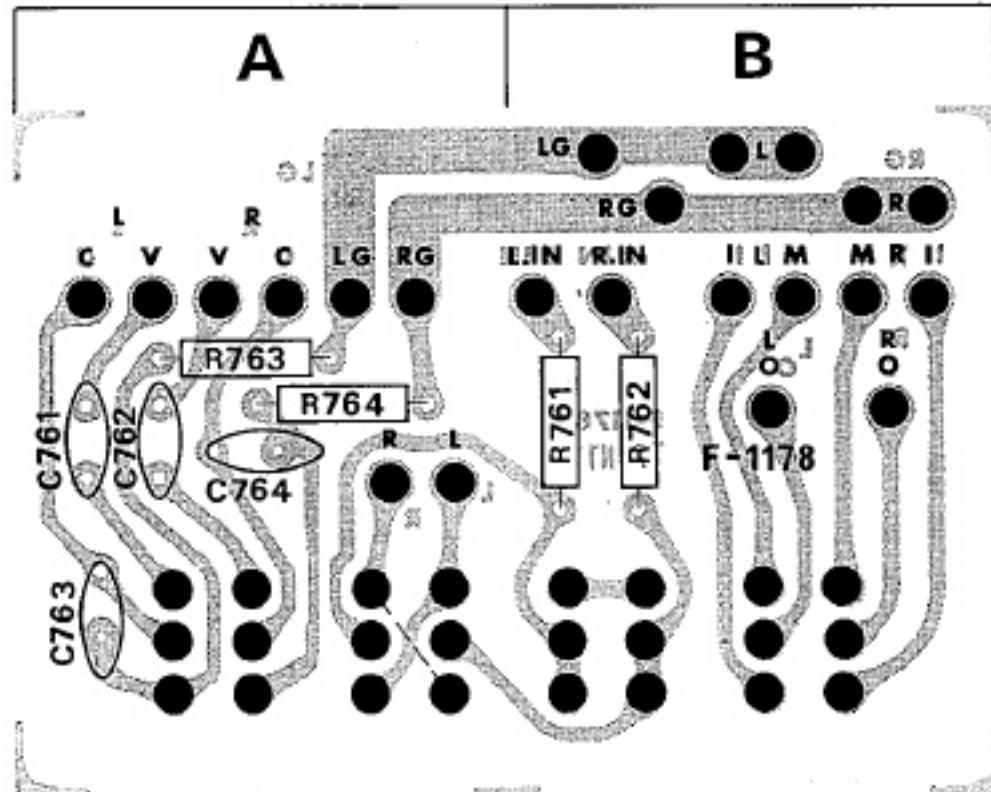
## F-1155 < MUTING BLOCK >

X	Y	Z
R433	3.3MΩ ±10% 1/4W Solid Resistor	
C430	330pF ± 5 % 50 WV Styrol Capacitor	
S11, S12		(113013-1)



## F-1178 < ACCESSORIES BLOCK >

X	Y	Z
R761	12kΩ ±10% 1/4W Carbon Resistor	B
R762	12kΩ ±10% 1/4W Carbon Resistor	B
R763	33kΩ ±10% 1/4W Carbon Resistor	A
R764	33kΩ ±10% 1/4W Carbon Resistor	A
C761	150pF ±10% 50 WV Mica Capacitor	A
C762	150pF ±10% 50 WV Mica Capacitor	A
C763	0.01μF ±10% 50 WV Mylar Capacitor	A
C764	0.01μF ±10% 50 WV Mylar Capacitor	A
S3,4,5,6		(113014)

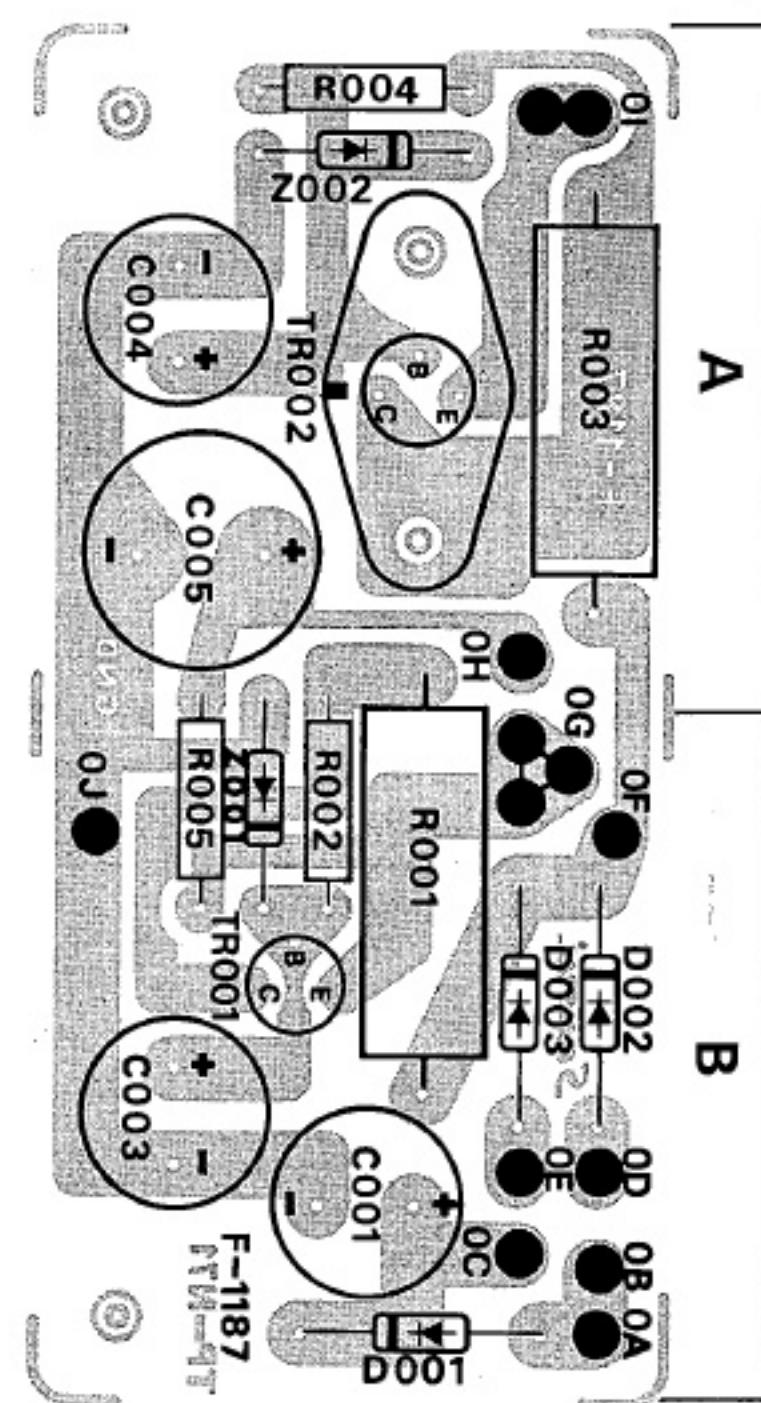
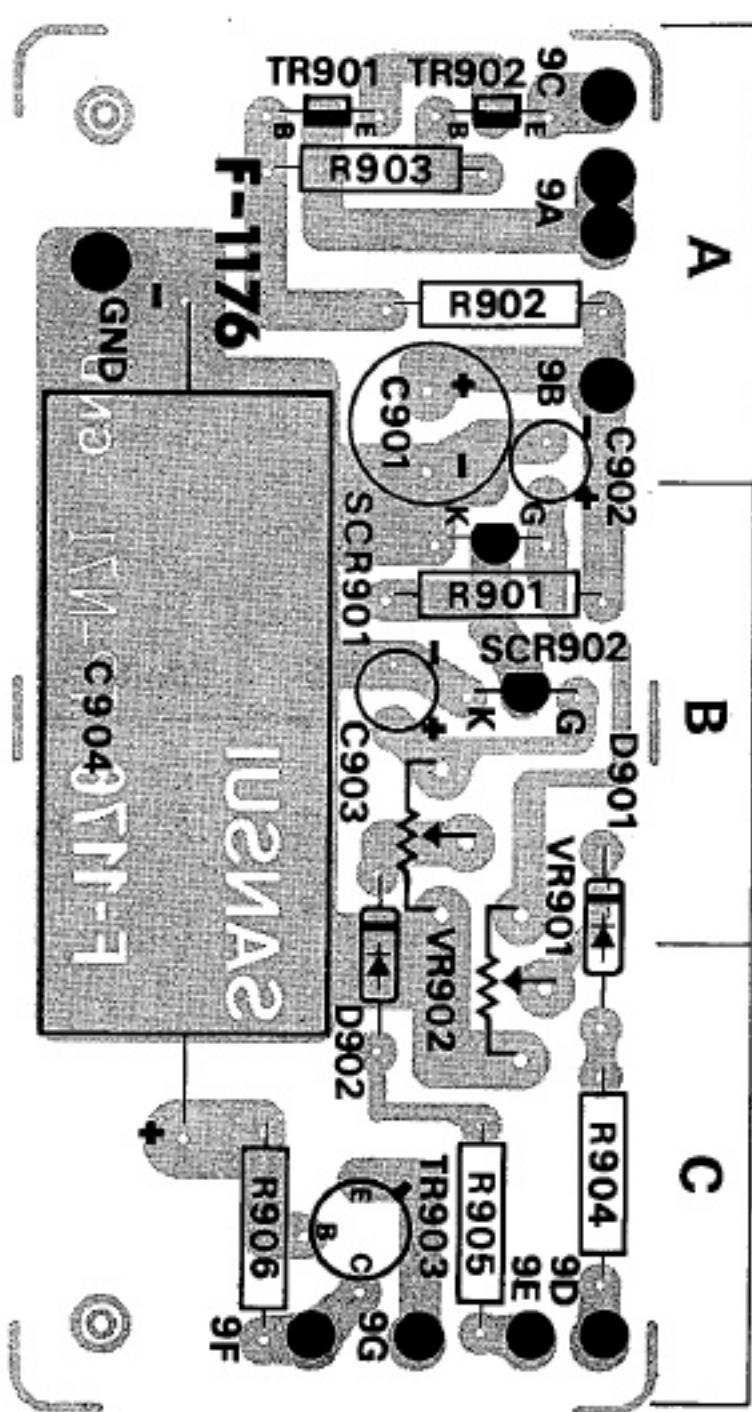


F-1176 <PROTECTOR BLOCK>

X	Y	Z
R901	6.8Ω ±10% ½W Solid Resistor	B
R902	10Ω ±10% ¼W Carbon Resistor	A
R903	10Ω ±10% ¼W Carbon Resistor	A
R904	2.2kΩ ±10% ¼W Carbon Resistor	C
R905	2.2kΩ ±10% ¼W Carbon Resistor	C
R906	6.8kΩ ±10% ¼W Carbon Resistor	C
VR901	V101 KR-1kΩ B (103053)	C
VR902	V101 KR-1kΩ B (103053)	B
C901	33μF 50 WV Electrolytic Capacitor	A
C902	0.1μF 25 WV Aluminum Solid Capacitor	A, B
C903	0.1μF 25 WV Aluminum Solid Capacitor	B
C904	100μF 100 WV Electrolytic Capacitor	A, B, C
TR901	2SC458 (B) (030511-1)	A
TR902	2SC458 (B) (030511-1)	A
TR903	2SC627 (030558-1)	C
SCR901	2SF656 (035002)	B
SCR902	2SF656 (035002)	B

F-1187 <RIPPLE FILTER BLOCK>

X	Y	Z
R001	68Ω ±10% 3 W Wire-Wound Resistor	B
R002	3.9kΩ ±10% ¼W Carbon Resistor	B
R003	180Ω ±10% 3 W Wire-Wound Resistor	A
R004	1.5kΩ ±10% ¼W Carbon Resistor	A
R005	680Ω ±10% ¼W Carbon Resistor	B
C001	330μF 10 WV Electrolytic Capacitor	B
C003	220μF 25 WV Electrolytic Capacitor	B
C004	330μF 16 WV Electrolytic Capacitor	A
C005	470μF 25 WV Electrolytic Capacitor	A
D001	10D-1 (031034)	B
D002	10D-1 (031034)	B
D003	10D-1 (031034)	B
Z001	ZB1-25 (031071)	B
Z002	ZB1-14 (031069-1)	A
TR001	2SC971 (030553-1)	B
TR002	2SD205 (030813-1, -2)	A



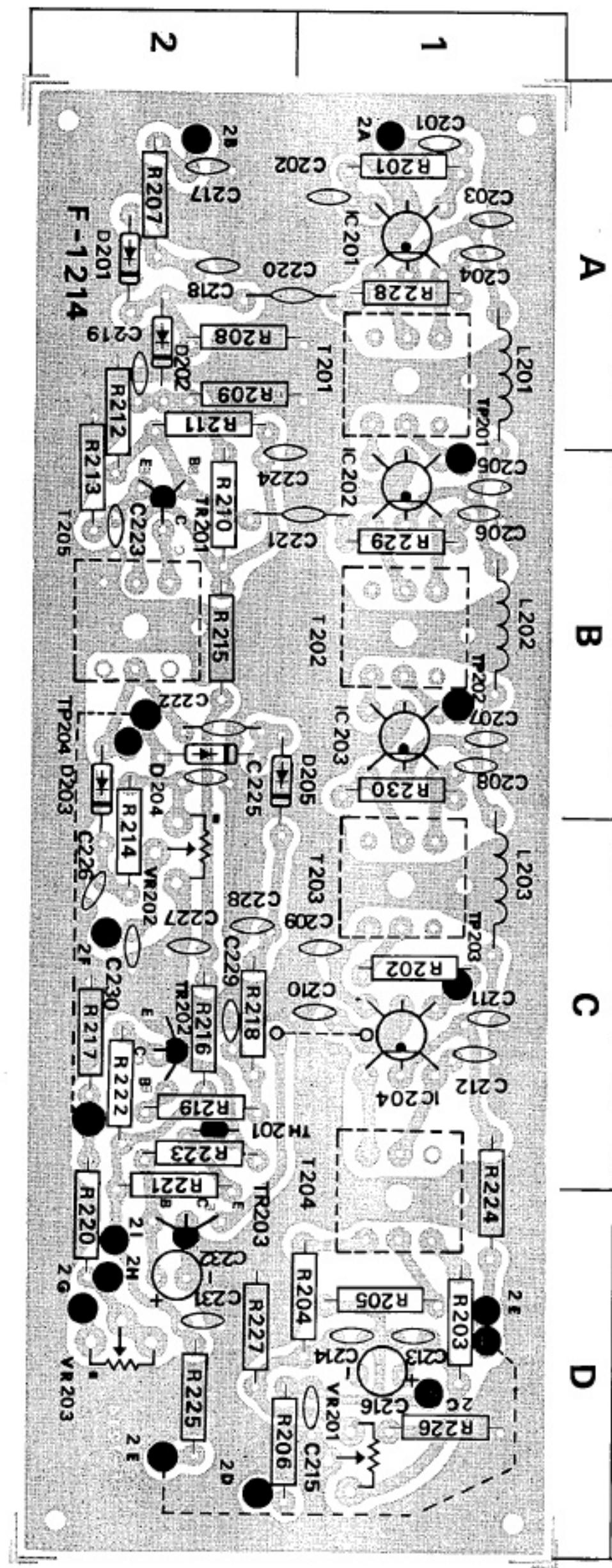
# PRINTED CIRCUIT SHEETS AND PARTS LIST

X: Parts No Y: Parts Name Z: Position of Parts

## F-1214 <FM IF BLOCK>

X	Y	Z
R201	1.5kΩ ±10% 1/4W Carbon Resistor	1A
R202	68Ω ±10% 1/4W Carbon Resistor	1C
R203	1kΩ ±10% 1/4W Carbon Resistor	1D
R204	1kΩ ±10% 1/4W Carbon Resistor	1D
R205	56Ω ±10% 1/4W Carbon Resistor	1D
R206	22kΩ ±10% 1/4W Carbon Resistor	2D
R207	100kΩ ±10% 1/4W Carbon Resistor	2A
R208	220kΩ ±10% 1/4W Carbon Resistor	2A
R209	680Ω ±10% 1/4W Carbon Resistor	2A
R210	68kΩ ±10% 1/4W Carbon Resistor	2B
R211	22kΩ ±10% 1/4W Carbon Resistor	2A
R212	10kΩ ±10% 1/4W Carbon Resistor	2A
R213	1kΩ ±10% 1/4W Carbon Resistor	2B
R214	2.2kΩ ±10% 1/4W Carbon Resistor	2C
R215	22Ω ±10% 1/4W Carbon Resistor	2B
R216	22Ω ±10% 1/4W Carbon Resistor	2C
R217	10kΩ ±10% 1/4W Carbon Resistor	2C
R218	1kΩ ±10% 1/4W Carbon Resistor	2C
R219	68kΩ ±10% 1/4W Carbon Resistor	2C
R220	100kΩ ±10% 1/4W Carbon Resistor	2D
R222	18kΩ ±10% 1/4W Carbon Resistor	2D
R223	2.7kΩ ±10% 1/4W Carbon Resistor	2C
R224	56Ω ±10% 1/4W Carbon Resistor	2C
R225	820Ω ±10% 1/4W Carbon Resistor	2D
R228	15kΩ ±10% 1/4W Carbon Resistor	1A
R229	15kΩ ±10% 1/4W Carbon Resistor	1B
R230	15kΩ ±10% 1/4W Carbon Resistor	2B
C201	0.01μF +80% -20% 25 WV Ceramic Capacitor	1A
C202	0.02μF +80% -20% 25 WV Ceramic Capacitor	1A
C203	0.02μF +80% -20% 25 WV Ceramic Capacitor	1A
C204	0.02μF +80% -20% 25 WV Ceramic Capacitor	1A
C205	0.02μF +80% -20% 25 WV Ceramic Capacitor	1B
C206	0.02μF +80% -20% 25 WV Ceramic Capacitor	1B
C207	0.02μF +80% -20% 25 WV Ceramic Capacitor	1B
C208	0.02μF +80% -20% 25 WV Ceramic Capacitor	1B
C209	0.02μF +80% -20% 25 WV Ceramic Capacitor	1C
C210	0.02μF +80% -20% 25 WV Ceramic Capacitor	1C
C211	0.02μF +80% -20% 25 WV Ceramic Capacitor	1C
C212	0.02μF +80% -20% 25 WV Ceramic Capacitor	1C
C213	220pF ±10% 50 WV Ceramic Capacitor	1D
C214	220pF ±10% 50 WV Ceramic Capacitor	1D
C215	47pF ±10% 50 WV Ceramic Capacitor	1D
C216	10μF 10 WV Electrolytic Capacitor	1D
C217	0.05μF +80% -20% 25 WV Ceramic Capacitor	2A
C218	0.02μF +80% -20% 25 WV Ceramic Capacitor	2A
C219	0.02μF +80% -20% 25 WV Ceramic Capacitor	2A
C220	3.3pF ±10% 50 WV Ceramic Capacitor	2A
C221	3.3pF ±10% 50 WV Ceramic Capacitor	2A
C222	6.8pF ±10% 50 WV Ceramic Capacitor	2B
C223	0.02μF +80% -20% 25 WV Ceramic Capacitor	2B
C224	0.02μF +80% -20% 25 WV Ceramic Capacitor	2B

X	Y	Z
C225	0.02μF +80% -20% 25 WV Ceramic Capacitor	2B
C226	0.02μF +80% -20% 25 WV Ceramic Capacitor	2C
C227	0.02μF +80% -20% 25 WV Ceramic Capacitor	2C
C228	330pF ±10% 25 WV Ceramic Capacitor	2C
C229	330pF ±10% 25 WV Ceramic Capacitor	2C
C230	0.05μF +80% -20% 25 WV Ceramic Capacitor	2C
C231	0.02μF +80% -20% 25 WV Ceramic Capacitor	2D
C232	1μF 50 WV Electrolytic Capacitor	2D
VR201	V101KR-1-20KB Turing Meter Adjustor (103046)	1D
VR202	V101KR-1-50KB Signal Meter Adjustor (103020)	2C
VR203	V101KR-1-100KB Muting Adjustor (103034)	2D
T201	FMIIFT 10.7MHz (423537)	1A
T202	FMIIFT 10.7MHz (423548)	1B
T203	FMIIFT 10.7MHz (423549)	1C
T204	FM Detector 10.7MHz (423518)	1D
T205	FM Meter Transformer 10.7MHz (423529)	2B
L201	3.3MH Choke Coil (429001-1)	1A
L202	3.3MH Choke Coil (429001-1)	1B
L203	3.3MH Choke Coil (429001-1)	1C
IC201	PA-7703E (036001)	1A
IC202	PA-7703E (036001)	1B
IC203	PA-7703E (036001)	1B
IC204	PA-7703E (036001)	1C
TR201	2SC 380 (O) (030533)	2B
TR202	2SC 828 (T) (030527-4)	2C
TR203	2SA 564 (P) or (Q) (030008,-1)	2D
D201	IN60 (031033)	2A
D202	IN60 (031033)	2A
D203	IN60 (031033)	2B
D204	IN60 (031033)	2B
D205	IN60 (031033)	2B



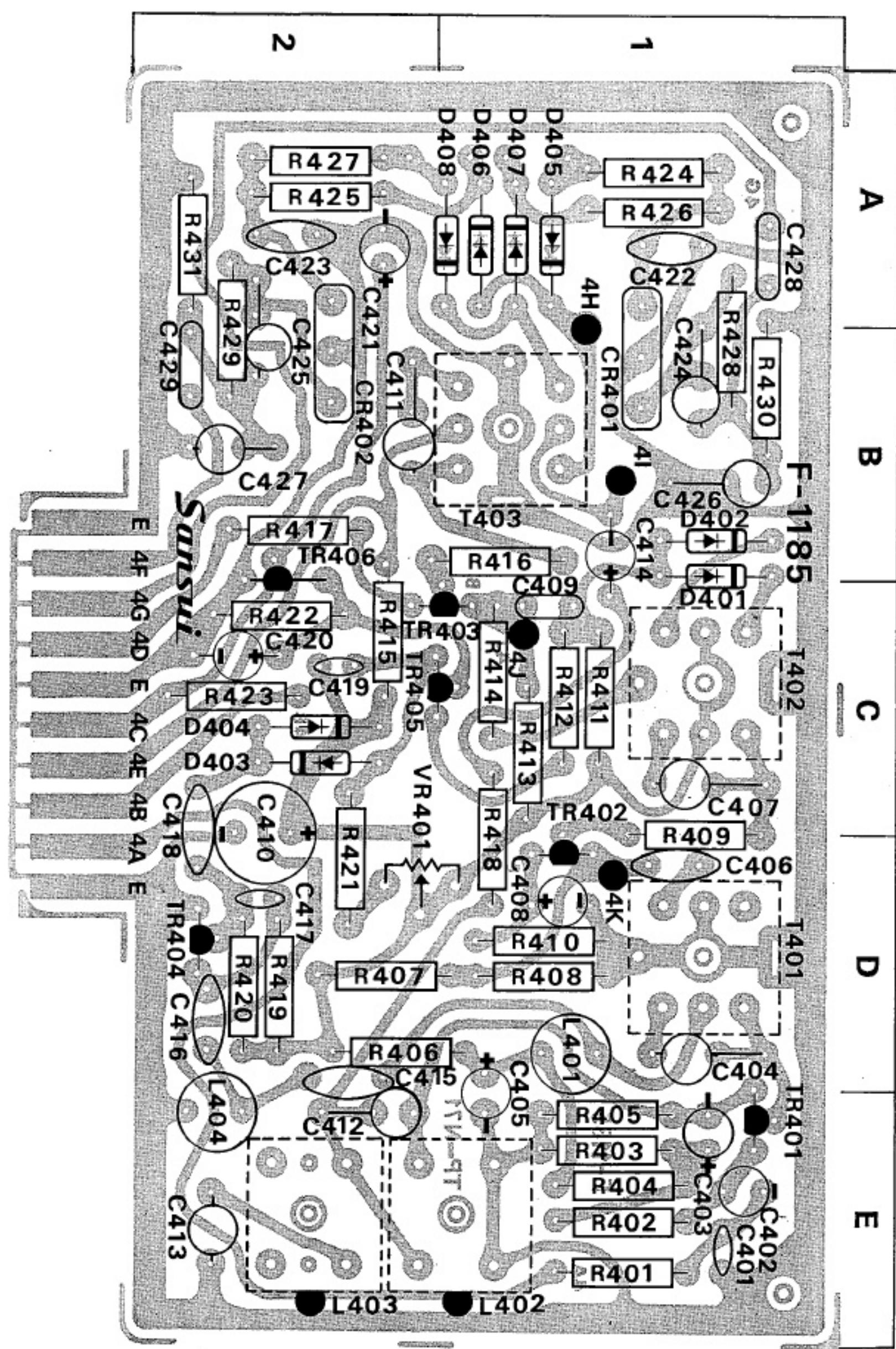
# PRINTED CIRCUIT SHEETS AND PARTS LIST

X: Parts No Y: Parts Name Z: Position of Parts

## F-1185 <MULTIPLEX BLOCK>

X	Y	Z
R401	1kΩ ±10% ½W Carbon Resistor	1 E
R402	100kΩ ±10% ½W Carbon Resistor	1 E
R403	22kΩ ±10% ½W Carbon Resistor	1 E
R404	100kΩ ±10% ½W Carbon Resistor	1 E
R405	680Ω ±10% ½W Carbon Resistor	1 E
R406	100Ω ±10% ½W Carbon Resistor	2 D
R407	47kΩ ±10% ½W Carbon Resistor	2 D
R408	22kΩ ±10% ½W Carbon Resistor	1 D
R409	1kΩ ±10% ½W Carbon Resistor	1C, 1 D
R410	2.2kΩ ±10% ½W Carbon Resistor	1 D
R411	10kΩ ±10% ½W Carbon Resistor	1 C
R412	10kΩ ±10% ½W Carbon Resistor	1 C
R413	100kΩ ±10% ½W Carbon Resistor	1 C
R414	18kΩ ±10% ½W Carbon Resistor	1 C
R415	47Ω ±10% ½W Carbon Resistor	2 C
R416	470Ω ±10% ½W Carbon Resistor	1 B, 2 B
R417	5.6kΩ ±10% ½W Carbon Resistor	2 B
R418	2.2kΩ ±10% ½W Carbon Resistor	1 C, 1 D
R419	1.2MΩ ±10% ½W Solid Resistor	2 D
R420	4.7kΩ ±10% ½W Carbon Resistor	2 D
R421	3.3kΩ ±10% ½W Carbon Resistor	2 D
R422	1.8kΩ ±10% ½W Carbon Resistor	2 C
R423	4.7kΩ ±10% ½W Carbon Resistor	2 C
R424	22kΩ ±10% ½W Carbon Resistor	1 A
R425	22kΩ ±10% ½W Carbon Resistor	2 A
R426	22kΩ ±10% ½W Carbon Resistor	1 A
R427	22kΩ ±10% ½W Carbon Resistor	2 A
R428	82kΩ ±10% ½W Carbon Resistor	1 A
R429	82kΩ ±10% ½W Carbon Resistor	2 A
R430	220kΩ ±10% ½W Carbon Resistor	1 B
R431	220kΩ ±10% ½W Carbon Resistor	2 A
C401	100pF ±10% 50 WV Ceramic Capacitor	1 E
C402	1μF 50 WV Electrolytic Capacitor	1 E
C403	33μF 6.3 WV Electrolytic Capacitor	1 E
C404	5000pF ±5% 50 WV Styrol Capacitor	1 D
C405	10μF 25 WV Electrolytic Capacitor	1 E, 2 E
C406	0.02μF ±10% 50 WV Mylar Capacitor	1 D
C407	6800pF ±5% 50 WV Styrol Capacitor	1 C
C408	1μF 50 WV Electrolytic Capacitor	1 D
C409	0.02μF ±10% 50 WV Mylar Capacitor	1 C
C410	47μF 25 WV Electrolytic Capacitor	2 C, 2 D
C411	1700pF ±5% 50 WV Styrol Capacitor	2 B
C412	1500pF ±5% 50 WV Styrol Capacitor	2 E
C413	220pF ±5% 50 WV Styrol Capacitor	2 E
C414	10μF 25 WV Electrolytic Capacitor	1 B
C415	330pF ±10% 50 WV Ceramic Capacitor	2 D, 2 E
C416	330pF ±10% 50 WV Ceramic Capacitor	2 D
C417	47pF ±10% 50 WV Ceramic Capacitor	2 D
C418	0.02μF $\frac{+80\%}{-20\%}$ 25 WV Ceramic Capacitor	2 C, 2 D
C419	0.02μF $\frac{+80\%}{-20\%}$ 25 WV Ceramic Capacitor	2 C
C420	3.3μF 25 WV Electrolytic Capacitor	2 C
C421	10μF 10 WV Electrolytic Capacitor	2 A
C422	220pF ±10% 50 WV Ceramic Capacitor	1 A
C423	220pF ±10% 50 WV Ceramic Capacitor	2 A
C424	560pF ±5% 50 WV Styrol Capacitor	1 B

X	Y	Z
C425	560pF ±5% 50 WV Styrol Capacitor	2 A, 2 B
C426	1000pF ±5% 50 WV Styrol Capacitor	1 B
C427	1000pF ±5% 50 WV Styrol Capacitor	2 B
C428	0.047μF ±10% 50 WV Mylar Capacitor	1 A
C429	0.047μF ±10% 50 WV Mylar Capacitor	2 A
CR401	FP-38A (080008)	1 B
CR402	FP-38A (080008)	2 B
VR401	V-101kr-I-10kΩ B (Stereo Inductor ADJ.) (103019)	2 D
T401	19kHz (424028)	1 D
T402	19kHz (424029)	1 C
T403	38kHz (424029)	1 B, 2 B
L401	4.7mH (490003)	1 D
L402	68kHz (424026)	1 D, 2 D
L403	71kHz (424027)	2 D
L404	4.7mH (490003)	2 E
TR401	2SC536 E1 (030524-4)	1 E
TR402	2SC536 E1 (030524-4)	1 D
TR403	2SC536 E1 (030524-4)	2 C
TR404	2SC536 E1 (030524-4)	2 D
TR405	2SA564(PQ) (030008, -1)	2 C
TR406	2SC536 E1 (030524-4)	2 B, 2 C
D401	IN34A (031040)	1 B
D402	IN34A (031040)	1 B, 1 C
D403	IN34A (031040)	2 C
D404	IN34A (031040)	2 C
D405	IN34A (031040-1)	1 A
D406	IN34A (031040-1)	1 A, 2 A
D407	IN34A (031040-1)	1 A
D408	IN34A (031040-1)	2 A



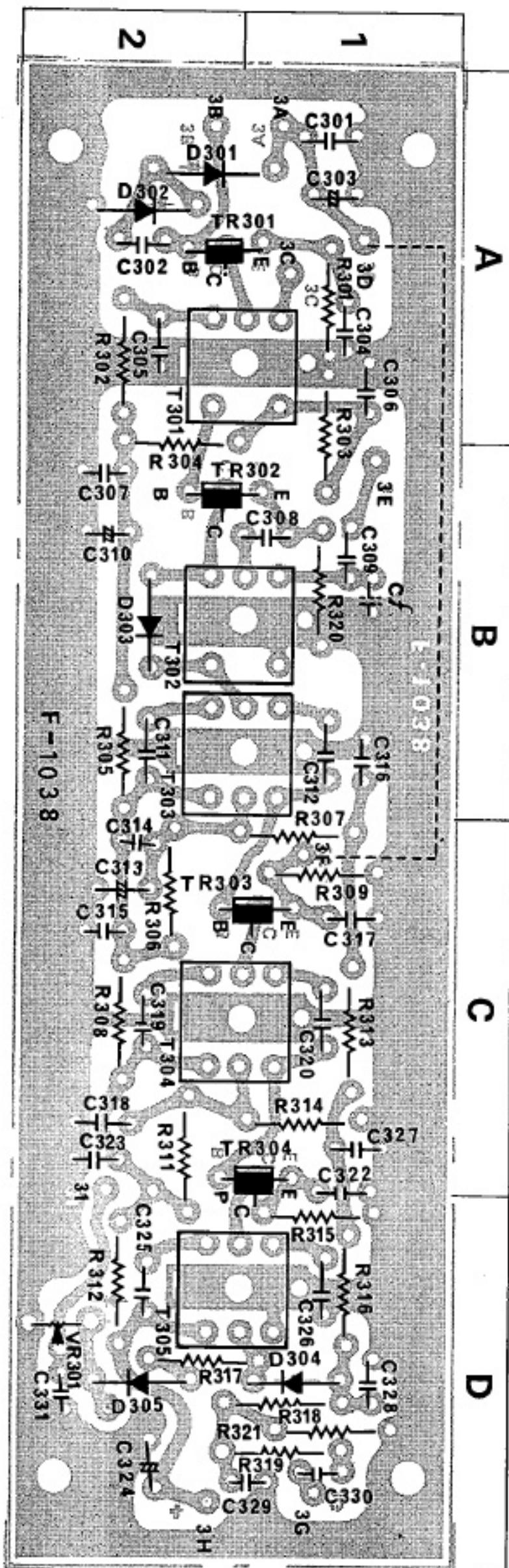
# PRINTED CIRCUIT SHEETS AND PARTS LIST

X: Parts No Y: Parts Name Z: Position of Parts

## F-10382 <AM IF BLOCK>

X	Y	Z
R301	1kΩ ±10% ½W Carbon Resistor	1A
R302	100Ω ±10% ½W Carbon Resistor	2A
R303	3.9kΩ ±10% ½W Carbon Resistor	1A
R304	33kΩ ±10% ½W Carbon Resistor	2B
R305	100Ω ±10% ½W Carbon Resistor	2B
R306	56kΩ ±10% ½W Carbon Resistor	2C
R307	22Ω ±10% ½W Carbon Resistor	1B
R308	22Ω ±10% ½W Carbon Resistor	2C
R309	1kΩ ±10% ½W Carbon Resistor	1C
R311	10kΩ ±10% ½W Carbon Resistor	2C
R312	22Ω ±10% ½W Carbon Resistor	2D
R313	100Ω ±10% ½W Carbon Resistor	1C
R314	6.8kΩ ±10% ½W Carbon Resistor	1C
R315	470Ω ±10% ½W Carbon Resistor	1C
R316	8.2kΩ ±10% ½W Carbon Resistor	1D
R317	1kΩ ±10% ½W Carbon Resistor	2D
R318	1kΩ ±10% ½W Carbon Resistor	1D
R319	120kΩ ±10% ½W Carbon Resistor	1D
R320	1kΩ ±10% ½W Carbon Resistor	1B
R321	4.7kΩ ±10% ½W Carbon Resistor	1D
C301	0.04μF +80% -20% 25 WV Ceramic Capacitor	1A
C302	0.04μF +80% -20% 25 WV Ceramic Capacitor	2A
C303	100μF 6.3 WV Electrolytic Capacitor	1A
C304	0.02μF +80% -20% 25 WV Ceramic Capacitor	1A
C305	0.04μF +80% -20% 25 WV Ceramic Capacitor	2A
C306	0.04μF +80% -20% 25 WV Ceramic Capacitor	1A
C307	0.02μF +80% -20% 25 WV Ceramic Capacitor	2B
C308	0.01μF ±10% 50 WV Mylar Capacitor	1B
C309	430pF ±5% 50 WV Mica Capacitor	1B
C310	100μF 16 WV Electrolytic Capacitor	2B
C311	500pF ±5% 50 WV Mica Capacitor	2B
C312	500pF ±5% 50 WV Mica Capacitor	2A
C313	4.7μF 16 WV Electrolytic Capacitor	2C
C314	0.02μF +80% -20% 25 WV Ceramic Capacitor	2B
C315	0.02μF +80% -20% 25 WV Ceramic Capacitor	2C
C316	0.04μF +80% -20% 25 WV Ceramic Capacitor	1B
C317	47μF 6.3 WV Electrolytic Capacitor	1C
C318	0.02μF +80% -20% 25 WV Ceramic Capacitor	2C
C319	500pF ±5% 50 WV Mica Capacitor	2C
C320	500pF ±5% 50 WV Mica Capacitor	1C
C322	0.04μF +80% -20% 25 WV Ceramic Capacitor	1C
C323	0.02μF +80% -20% 25 WV Ceramic Capacitor	2C
C324	220μF 16 WV Electrolytic Capacitor	2D
C325	500pF ±5% 50 WV Mica Capacitor	2D
C326	500pF ±5% 50 WV Mica Capacitor	1D
C327	0.02μF +80% -20% 25 WV Ceramic Capacitor	1C
C328	0.02μF ±10% 50 WV Mylar Capacitor	1D
C329	0.1μF ±10% 50 WV Mylar Capacitor	1D
C330	0.04μF +80% -20% 25 WV Ceramic Capacitor	1D
C331	0.04μF +80% -20% 25 WV Ceramic Capacitor	2D
C332	0.005μF +80% -20% 25 WV Ceramic Capacitor	

X	Y	Z
VR301	V101KR-1-10kΩ B Signal meter Adjustor (103019)	2D
T301	AM RF (421005)	1A, 2A
T302	AM OSC (422007)	1B, 2B
T303	AM IFT 455kHz (423019)	1B, 2B
T304	AM IFT 455kHz (423019)	1C, 2C
T305	AM IFT 455kHz (423018)	1D, 2D
TR301	2SC 460© (030535-1)	2A
TR302	2SC 460® (030535)	2B
TR303	2SC 460® (030535)	1C
TR304	2SC 460© (030535-1)	1C
D301	IN60 (031033)	2A
D302	IN60 (031033)	2A
D303	IN60 (031033)	2B
D304	IN60 (031033)	1D
D305	IN60 (031033)	2D



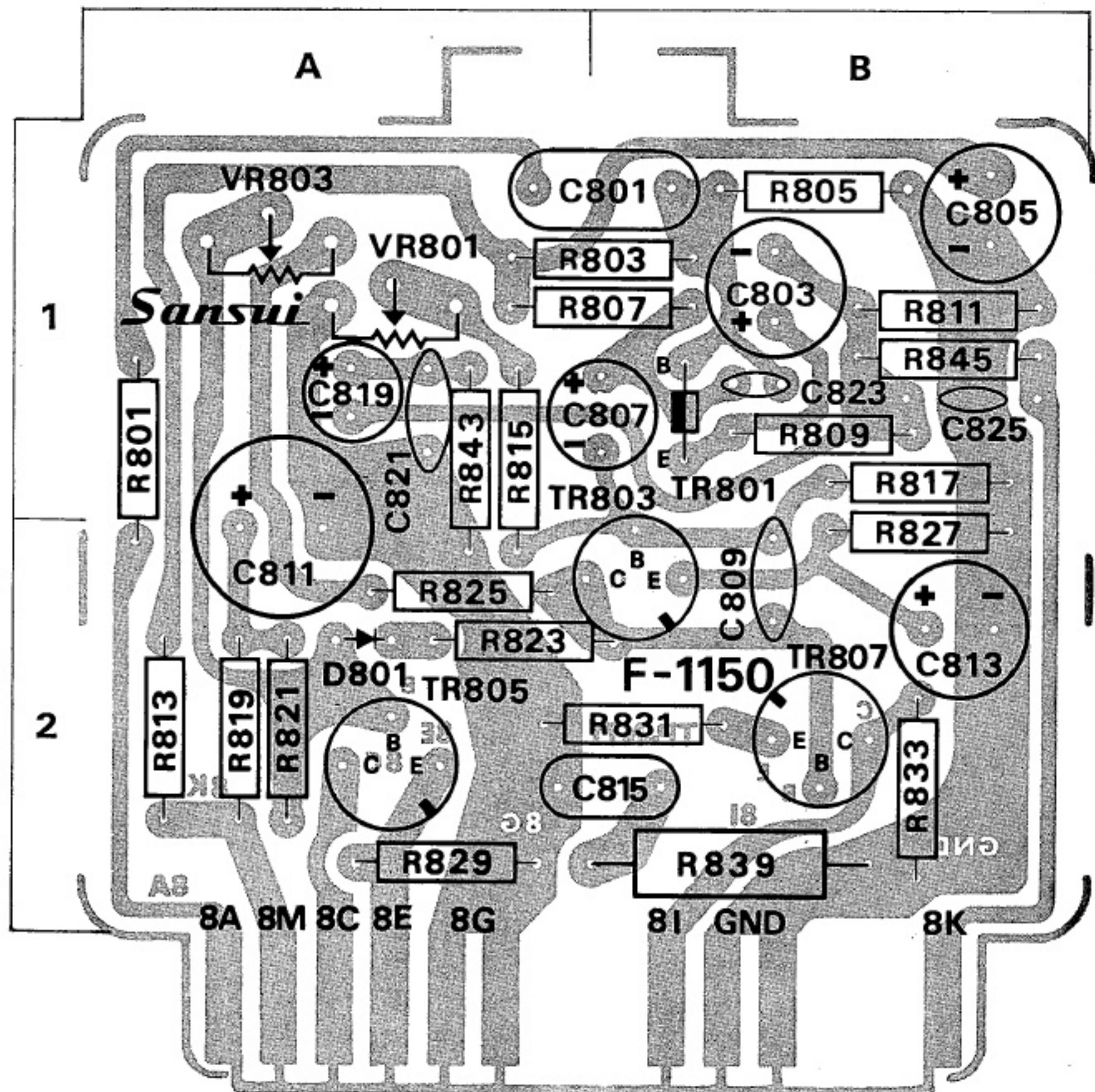
# PRINTED CIRCUIT SHEETS AND PARTS LIST

X: Parts No Y: Parts Name Z: Position of Parts

## F-1150 <DRIVER AMP. BLOCK>

X	Y	Z
R801	2.2kΩ ±10% ½W Carbon Resistor	1A
R802	2.2kΩ ±10% ½W Carbon Resistor	1A
R803	560kΩ ±10% ½W Carbon Resistor	1A, 1B
R804	560kΩ ±10% ½W Carbon Resistor	1A, 1B
R805	270kΩ ±10% ½W Carbon Resistor	1B
R806	270kΩ ±10% ½W Carbon Resistor	1B
R807	3.9kΩ ±10% ½W Carbon Resistor	1A, 1B
R808	3.9kΩ ±10% ½W Carbon Resistor	1A, 1B
R809	2.2kΩ ±10% ½W Carbon Resistor	1B
R810	2.2kΩ ±10% ½W Carbon Resistor	1B
R811	220Ω ±10% ½W Carbon Resistor	1B
R812	220Ω ±10% ½W Carbon Resistor	1B
R813	27kΩ ±10% ½W Carbon Resistor	2A
R814	27kΩ ±10% ½W Carbon Resistor	2A
R815	39kΩ ±10% ½W Carbon Resistor	1A
R816	39kΩ ±10% ½W Carbon Resistor	1A
R817	10kΩ ±10% ½W Carbon Resistor	1B
R818	10kΩ ±10% ½W Carbon Resistor	1B
R819	680Ω ±10% ½W Carbon Resistor	2A
R820	680Ω ±10% ½W Carbon Resistor	2A
R821	4.7kΩ ±10% ½W Carbon Resistor	2A
R822	4.7kΩ ±10% ½W Carbon Resistor	2A
R823	27Ω ±10% ½W Carbon Resistor	2A
R824	27Ω ±10% ½W Carbon Resistor	2A
R825	220Ω ±10% ½W Carbon Resistor	2A
R826	220Ω ±10% ½W Carbon Resistor	2A
R827	220Ω ±10% ½W Carbon Resistor	2B
R828	220Ω ±10% ½W Carbon Resistor	2B
R829	100Ω ±10% ½W Carbon Resistor	2A
R830	100Ω ±10% ½W Carbon Resistor	2A
R831	10Ω ±10% ½W Carbon Resistor	2B
R832	10Ω ±10% ½W Carbon Resistor	2B
R833	100Ω ±10% ½W Carbon Resistor	2B
R834	100Ω ±10% ½W Carbon Resistor	2B
R839	22Ω ±10% 1W Solid Resistor	2B
R840	22Ω ±10% 1W Solid Resistor	2B
R843	6.8kΩ ±10% ½W Carbon Resistor	1A
R844	6.8kΩ ±10% ½W Carbon Resistor	1A
R845	4.7kΩ ±10% ½W Carbon Resistor	1B
R846	4.7kΩ ±10% ½W Carbon Resistor	1B
C801	0.02μF ±10% 50 WV Mylar Capacitor	1A, 1B
C802	0.22μF ±10% 50 WV Mylar Capacitor	1A, 1B
C803	220μF 6.3 WV Electrolytic Capacitor	1B
C804	220μF 6.3 WV Electrolytic Capacitor	1B
C805	100μF 25 WV Electrolytic Capacitor	1B
C806	100μF 25 WV Electrolytic Capacitor	1A
C807	3.3μF 25 WV Aluminum Solid Capacitor	1A, 1B
C808	3.3μF 25 WV Aluminum Solid Capacitor	1A, 1B
C809	100pF ±10% 50 WV Ceramic Capacitor	2B
C810	100pF ±10% 50 WV Ceramic Capacitor	2B
C811	100μF 50 WV Electrolytic Capacitor	1A, 2A
C812	100μF 50 WV Electrolytic Capacitor	1A, 2A
C813	100μF 6.3 WV Electrolytic Capacitor	2B
C814	100μF 6.3 WV Electrolytic Capacitor	2B
C815	0.1μF ±10% 50 WV Mylar Capacitor	2A, 2B

X	Y	Z
C816	0.1μF ±10% 50 WV Mylar Capacitor	1A, 2B
C819	10μF 50 WV Electrolytic Capacitor	1A
C820	10μF 50 WV Electrolytic Capacitor	1A
C821	100pF ±10% 50 WV Ceramic Capacitor	1A
C822	100pF ±10% 50 WV Ceramic Capacitor	1A
C823	33pF ±10% 50 WV Ceramic Capacitor	1B
C824	33pF ±10% 50 WV Ceramic Capacitor	1B
C825	100pF ±10% 50 WV Ceramic Capacitor	1B
C826	100pF ±10% 50 WV Ceramic Capacitor	1B
VR801	V-101 kR-100kΩ B AC Balance Adjustor (103038)	1A
VR802	V-101 kR-100kΩ B AC Balance Adjustor (103038)	1A
VR803	V-101 kR- 5kΩ B DC Bias Adjustor (103037)	1A
VR804	V-101 kR- 5kΩ B DC Bias Adjustor (103037)	1A
TR801	2SC 458 LG ① (030531-2)	1B
TR802	2SC 458 LG ① (030531-2)	1B
TR803	2SC 708 A ③ (030548-1)	2B
TR804	2SC 708 A ③ (030548-1)	2B
TR805	2SC 708 A ③ (030548-1)	2A
TR806	2SC 708 A ③ (030548-1)	2A
TR807	2SC 537 A ③ (030012-1)	2B
TR808	2SC 537 A ③ (030012-1)	2B
D801	STV-3 Varistor (034004)	2A
D802	STV-3 Varistor (034004)	2A



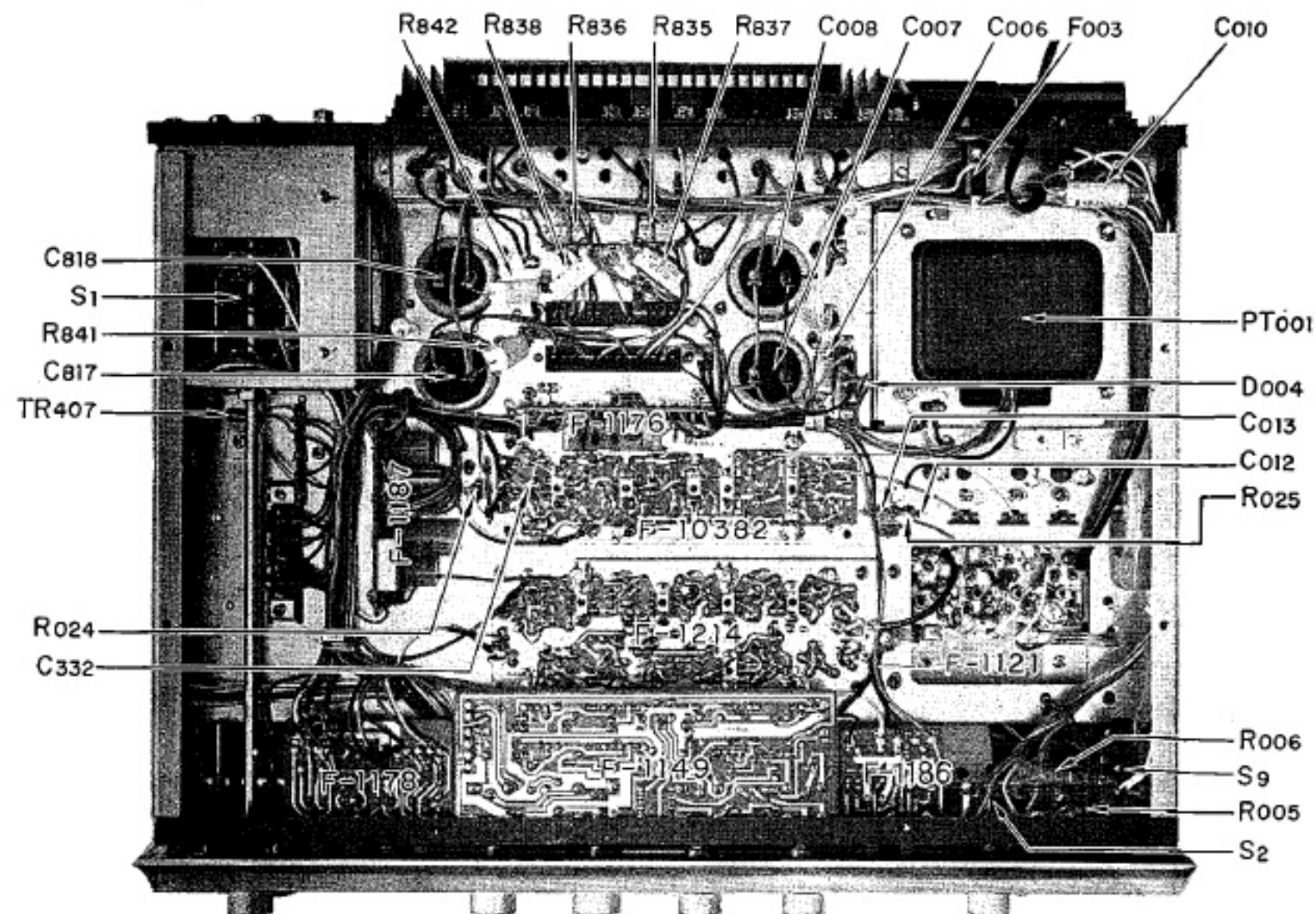
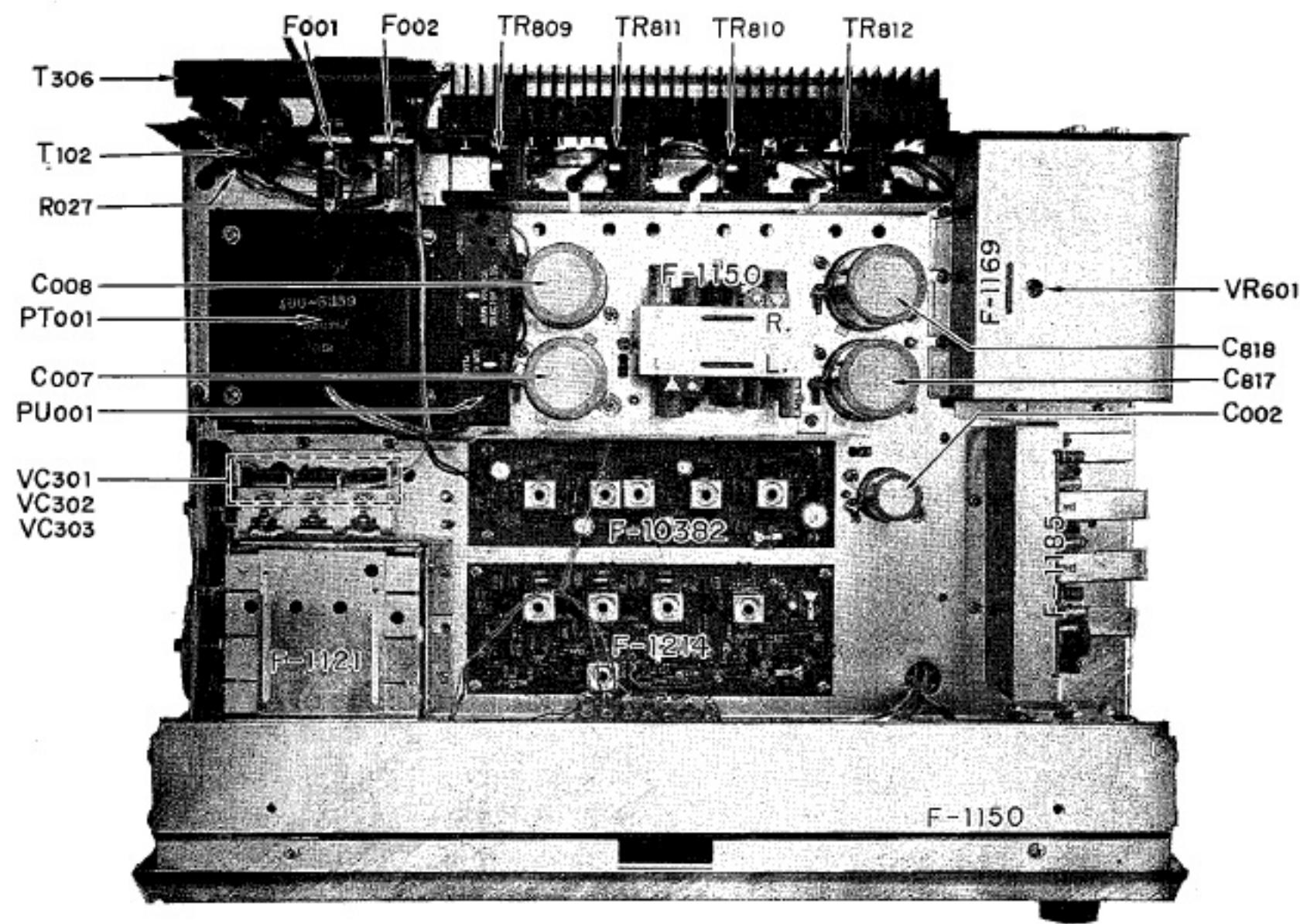
# OTHER PARTS CHART AND LIST

X: Parts No Y: Parts Name

## OTHER PARTS CHART AND LIST

X	Y
R006	560Ω ±10% 1W Metal film Resistor
R007	560Ω ±10% 1W Metal film Resistor
R008	68kΩ ±10% 1/4W Carbon Resistor
R009	68kΩ ±10% 1/4W Carbon Resistor
R010	180kΩ ±10% 1/4W Carbon Resistor
R011	180kΩ ±10% 1/4W Carbon Resistor
R012	100kΩ ±10% 1/4W Carbon Resistor
R013	100kΩ ±10% 1/4W Carbon Resistor
R014	180kΩ ±10% 1/4W Carbon Resistor
R015	180kΩ ±10% 1/4W Carbon Resistor
R016	100kΩ ±10% 1/4W Carbon Resistor
R017	100kΩ ±10% 1/4W Carbon Resistor
R018	10kΩ ±10% 1/4W Carbon Resistor
R019	10kΩ ±10% 1/4W Carbon Resistor
R020	6.8Ω ±10% 1/4W Carbon Resistor
R021	22kΩ ±10% 1/4W Carbon Resistor
R022	22kΩ ±10% 1/4W Carbon Resistor
R023	1.5kΩ ±10% 1/4W Carbon Resistor
R024	180Ω ±10% 1/4W Carbon Resistor
R025	10Ω ±10% 1/4W Carbon Resistor
R026	56Ω ±10% 1/4W Carbon Resistor
R027	680Ω ±10% 1/4W Carbon Resistor
R028	5.6kΩ ±10% 1/4W Carbon Resistor
C002	1000μF 35 WV Electrolytic Capacitor
C006	0.0047μF 600 WV Oil Capacitor
C007	2200μF 80 WV (020535)
C008	2200μF 80 WV (020535)
C009	0.033μF 600 WV Oil Capacitor
C010	0.033μF 600 WV Oil Capacitor
C011	0.0047μF 600 WV Oil Capacitor
C012	0.04μF +100% -0% 50 WV Ceramic Capacitor
C013	0.04μF +100% -0% 50 WV Ceramic Capacitor
C017	2200μF 80 WV (020535)
C018	2200μF 80 WV (020535)
VR001	50kΩ B Level Adjustor (101501)
VR002	1MΩ B Muting Adjustor (100508)
D004	5B2 Diode (031066)
S1(a~i)	Y-5-13-6 (110505)
S2(a, b)	Y-2-2-6
S10	SL13-8-10H6-2-2 (111004)
J001	Headphone Jack (243007)
J002	DIN Connector (243005)
TR407	2SB324 (030311)
TR009~012	2SD213 (030821, -1)
CO001~2	AC Outlet (245001)
PU001	Voltage Selector (241017)
M001	Signal Meter (090019)
M002	Tuning Meter (090012)

X	Y
PT001	400-5339 (400050)
PL001~2	7V 200mA (040015-0)
PL003~8	6.3V 250mA (040008)
PL009~010	5V 60mA (040010-1)
PL011	7V 200mA (040015-0)
PL012	25V 90mA (040007)
PL013	6V 100mA ( )
VC301~303	AM 3 Gang Variable Resistor (120002)
T306	ARS-45A (420014)
T102	75~300Ω High Frequency Transformer (429002-1)
S9	( )



**sansui**

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