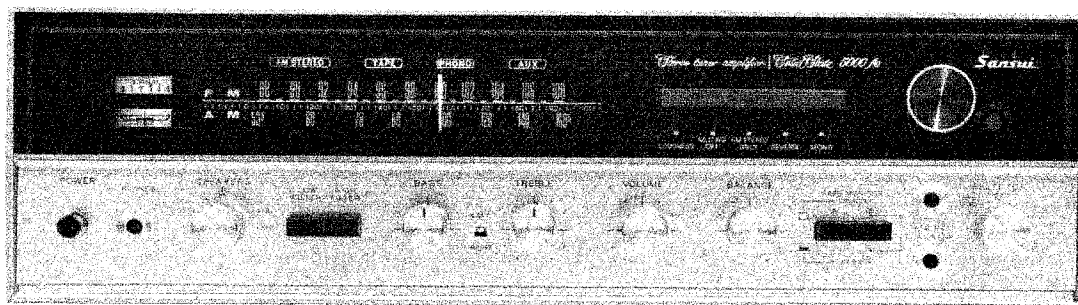


SERVICE MANUAL

AM/FM STEREO TUNER AMPLIFIER

SANSUI 5000A



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.

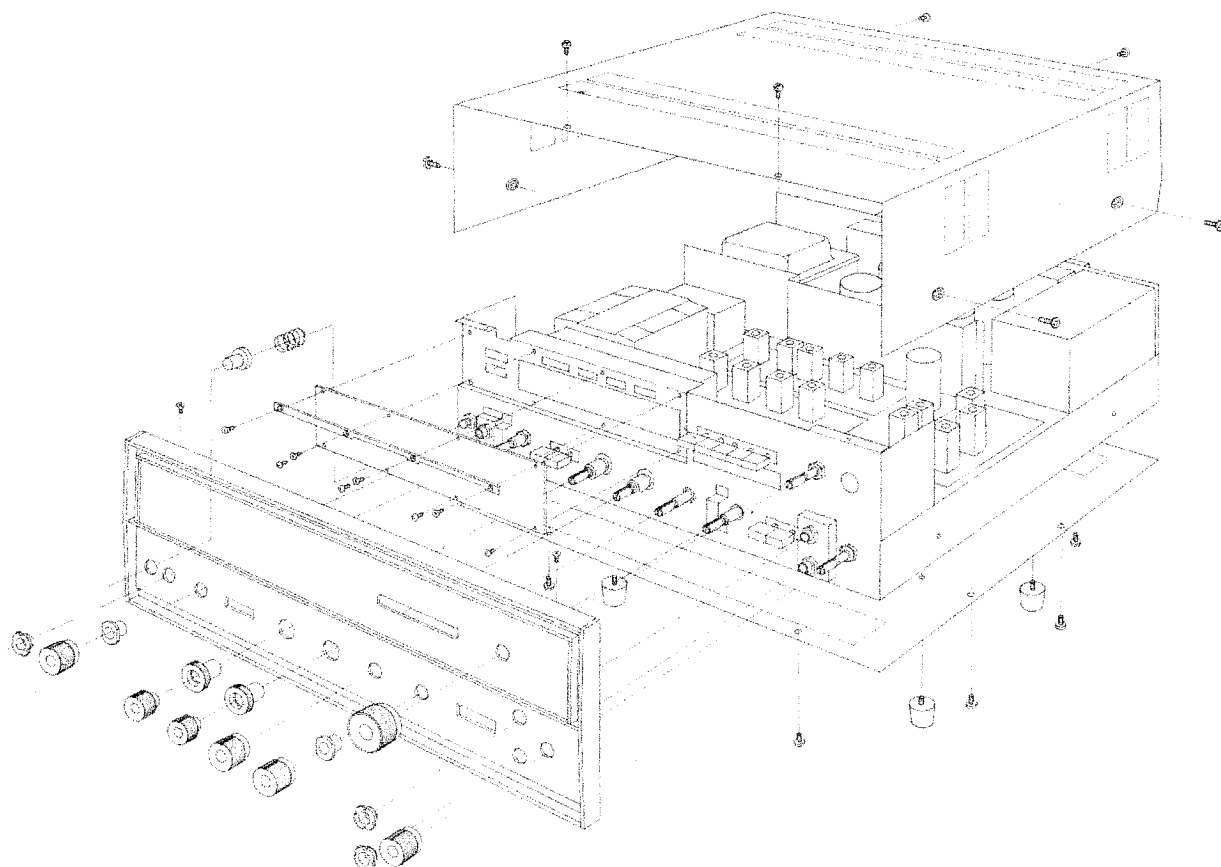
The following are some other common causes of malfunction and what to do about them.

PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
AM, FM or MPX reception	A. Constant or intermittent noise heard at times or in a certain area	* Discharge or oscillation caused by electrical appliances, such as fluorescent lamp, TV set, D.C. motor rectifier or oscillator * Natural phenomena, such as atmospheric static or thunderbolts * Insufficient antenna input due to ferr oconcrete wall or long distance from the station * Wave interference from other electrical appliances	* Attach a noise limiter to the electrical appliance causing the noise, or attach it to the amplifiers power source * Install an outdoor antenna and ground the amplifier to raise the signal-to-noise ratio * Reverse the power cord plug-receptacle connections * If the noise occurs at a certain frequency, attach a wave trap to the ANT. input * Keep the set at a proper distance from other electrical appliances
	B. The needle of the signal and tune meter does not move sharply	* Receiver is located in a weak signal area	* Place the set to Receive maximum signal strength
	C. The zero point of the meter diverges much	* Regional difference in field intensity	* The unit is not at fault
AM reception	A. Noise heard at a particular time of a day, in a certain area or over part of dial	* Due to the nature of AM broadcasts	* Install the antenna for maximum antenna efficiency. See "ANTENNA" in the operating instructions * In some cases, the noise can be eliminated by grounding the amplifier or reversing the power cord plug-receptacle connections
	B. High-frequency noise	* Adjacent-channel interference or beat interference * TV set too close to audio system	* 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 * Keep the TV set at a proper distance from the audio system
FM reception	A. Noisy	* Poor noise limiter effect or too low SN ratio due to insufficient antenna input	* Install the antenna (attached) for maximum signal strength * 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 * An excessively long antenna may cause noise
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			

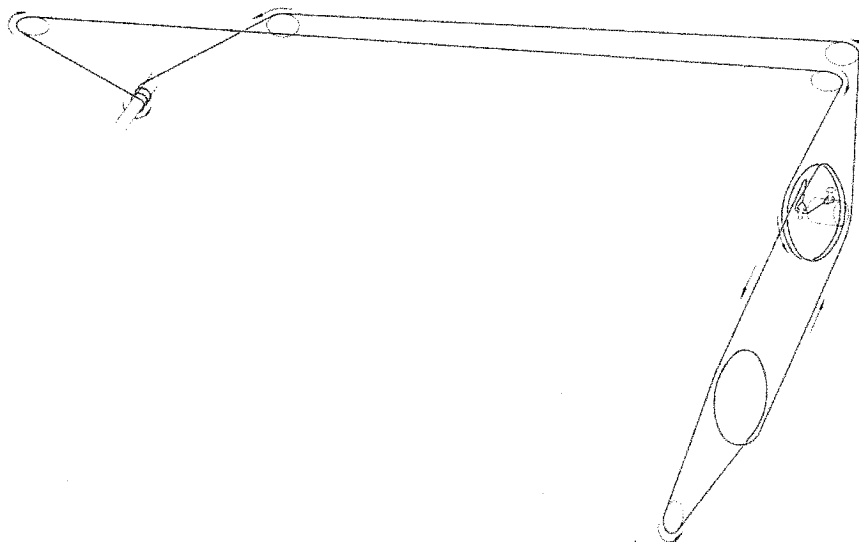
PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
FM reception (cont'd)	B. Noise heard like "Scratch noise" heard	* Ignition noise caused by starting of an automobile engine	* Install the antenna and its lead-in wire in proper distance from the road or raise the antenna input as described above
	C. Tuning noise 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 ₄₀₁
	D. The stereo indicator blinks on and off even though stereo station is not received	* Interference	* The indicator is not at fault, adjust VR ₄₀₁
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

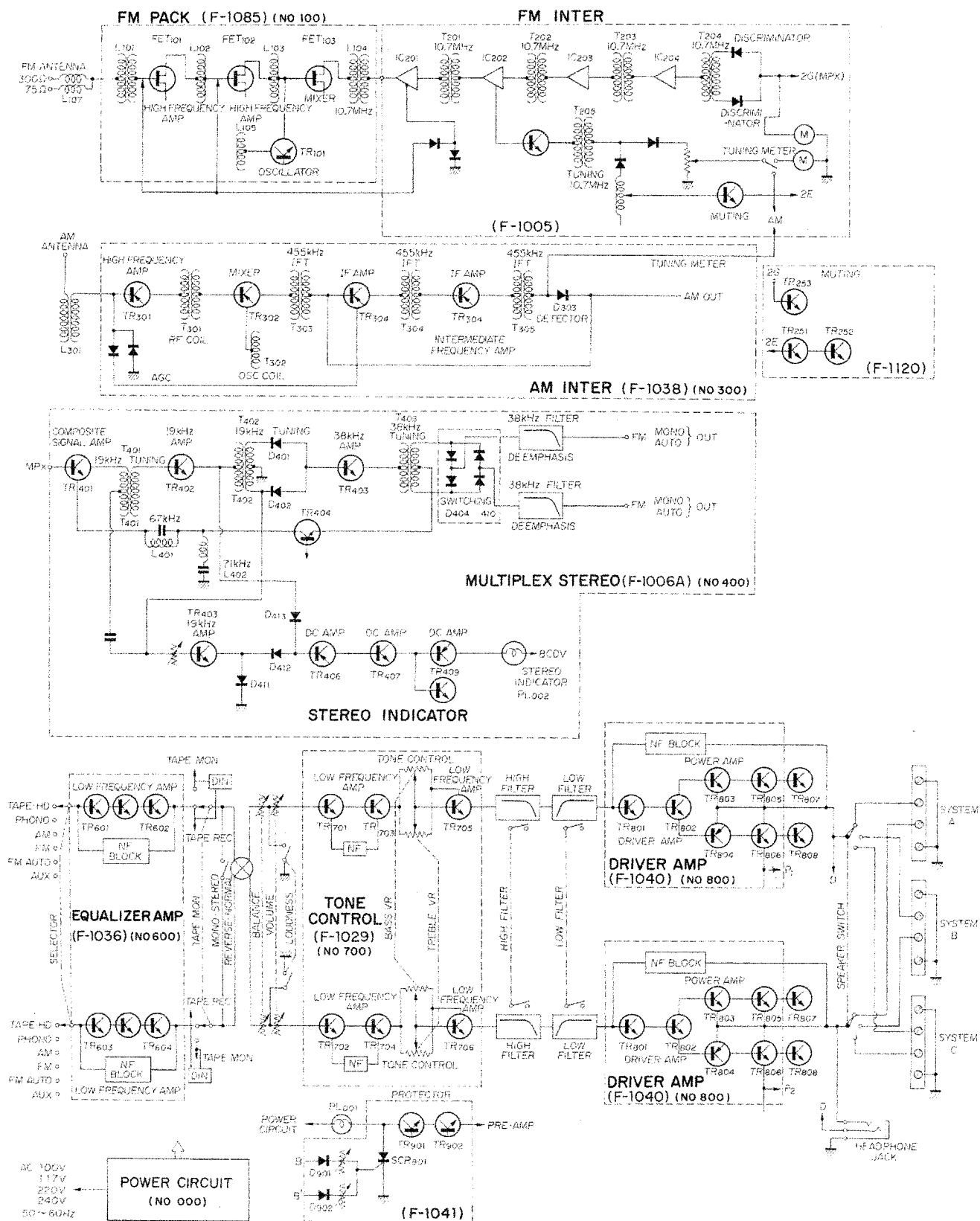
REMOVING THE FRONT PANEL, BONNET AND BOTTOM PLATE



DIAL MECHANISM



BLOCK DIAGRAM



CUSTOM MOUNTING

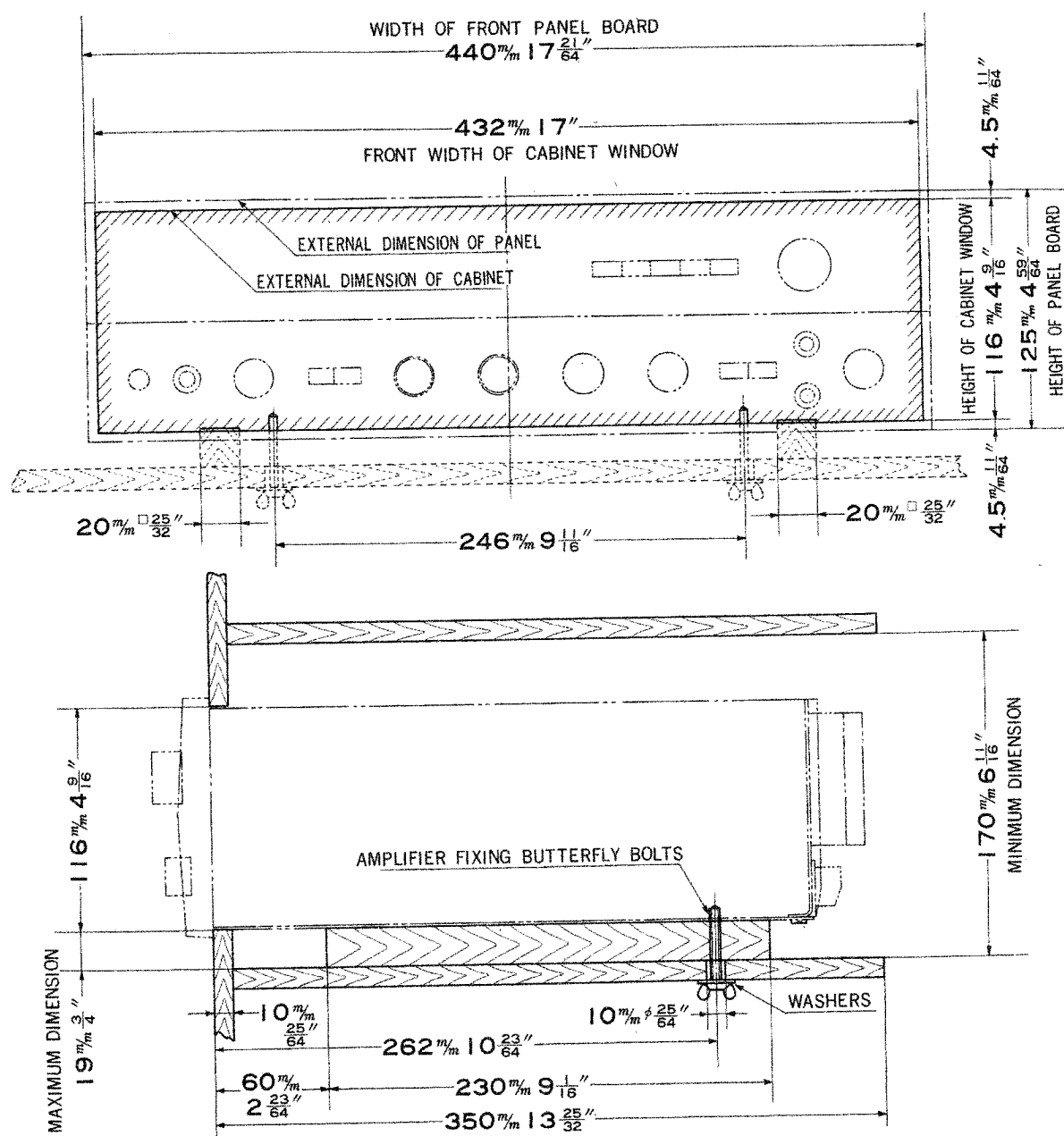
This diagram shows the size and dimensions required for mounting the 5000A into a custommade cabinet. Note that ample space is provided for complete air circulation above and below the tuner.

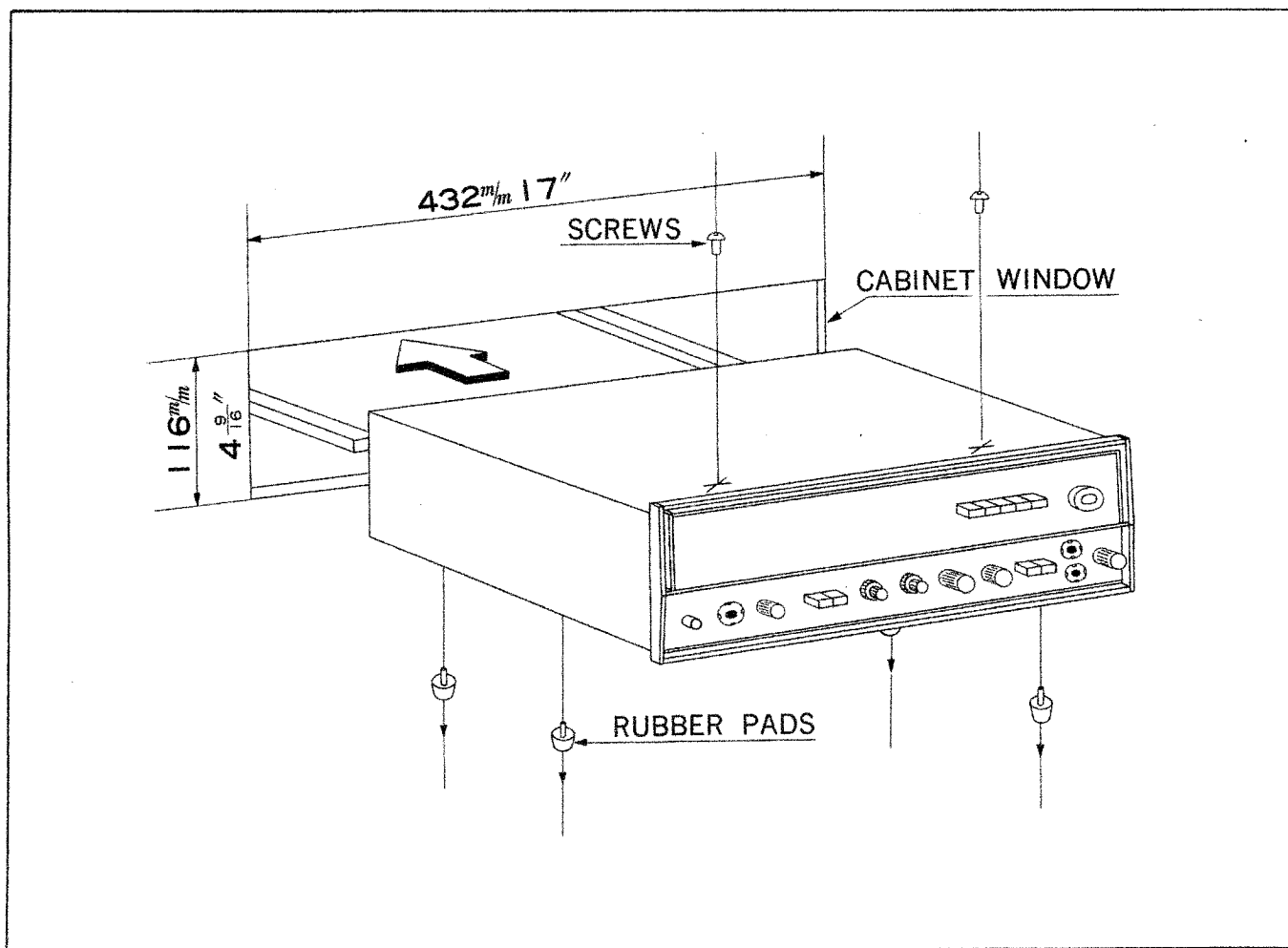
1. Be sure the cabinet window measures $17'' \times 4 \frac{9}{16}''$ as indicated in the diagram.
2. Place two boards on the floor of the cabinet as illustrated. Boards should measure $\frac{25}{32}'' \times \frac{25}{32}'' \times 9 \frac{1}{16}''$.

3. Drill two holes in the bottom of the cabinet at points corresponding to holes in the bottom of the tuner.

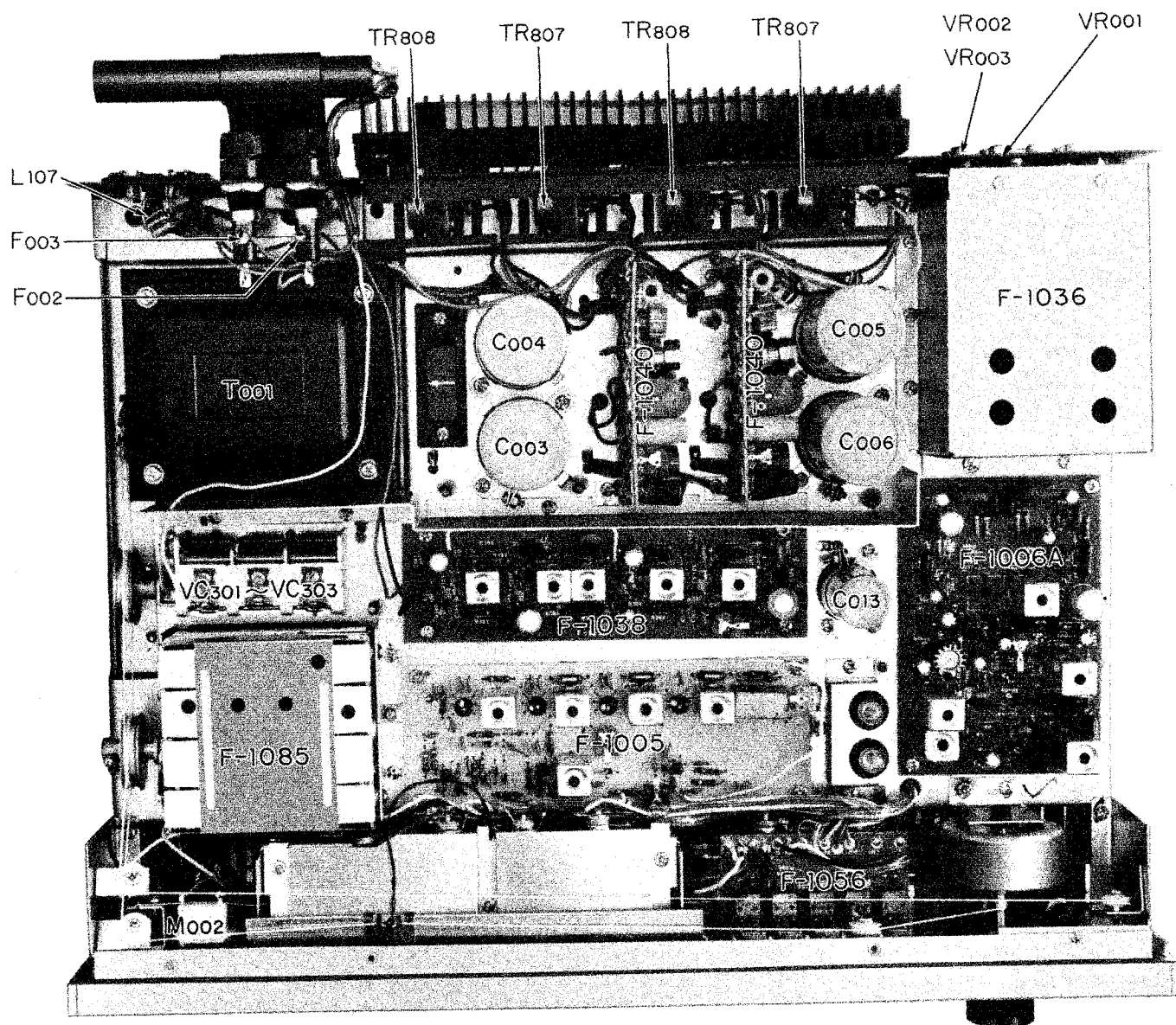
4. Remove the four rubber feet from the 5000A. (Retain for future use.)

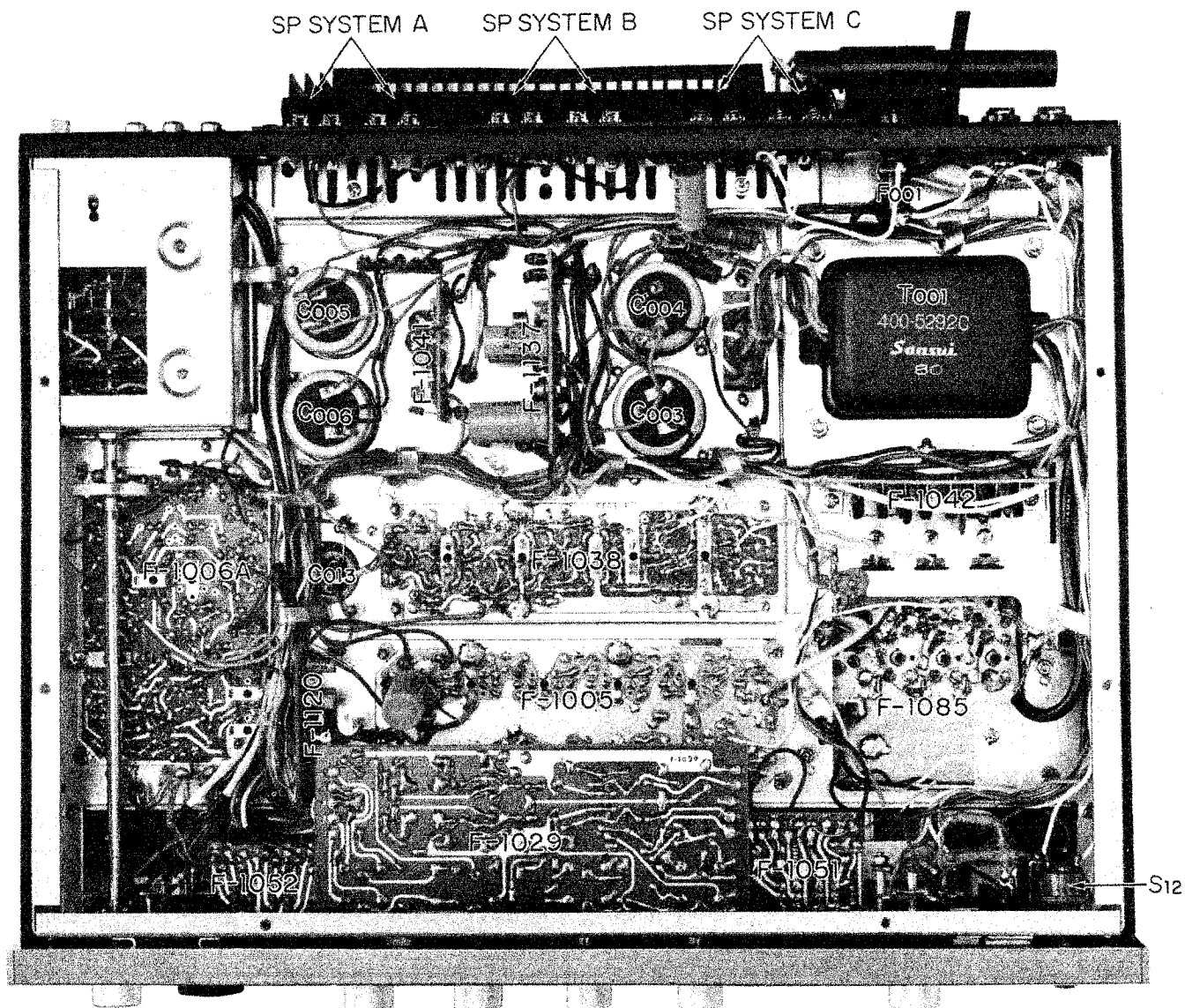
5. Insert the 5000A into the cabinet through the window until the edges of its front panel are flush with the cabinet, and secure both tuner and cabinet with washers and butterfly bolts provided.





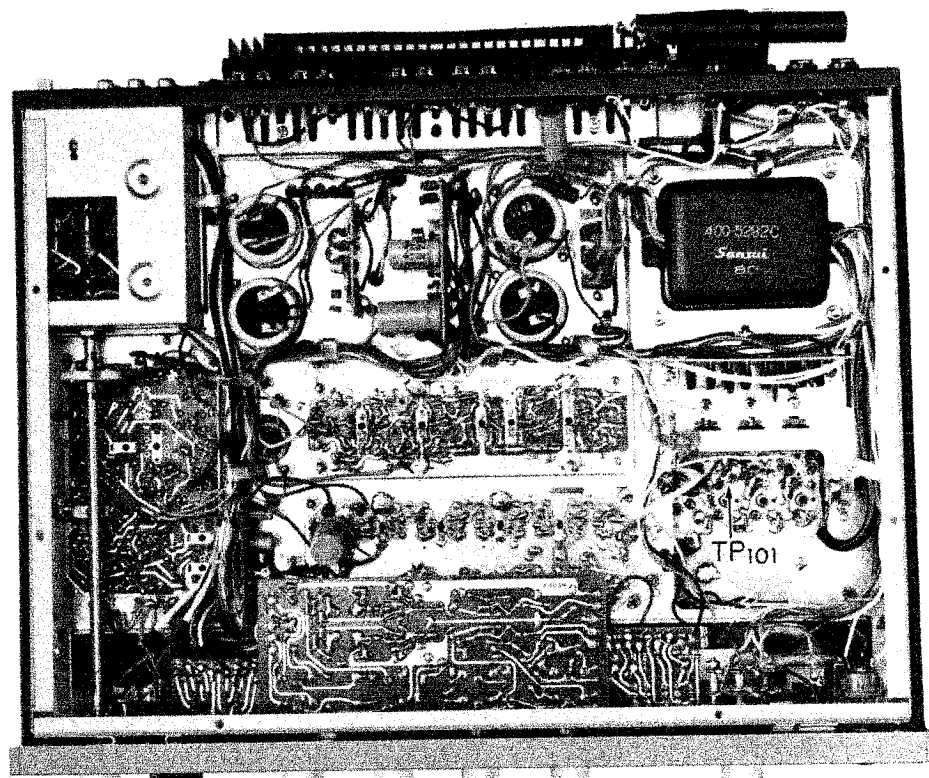
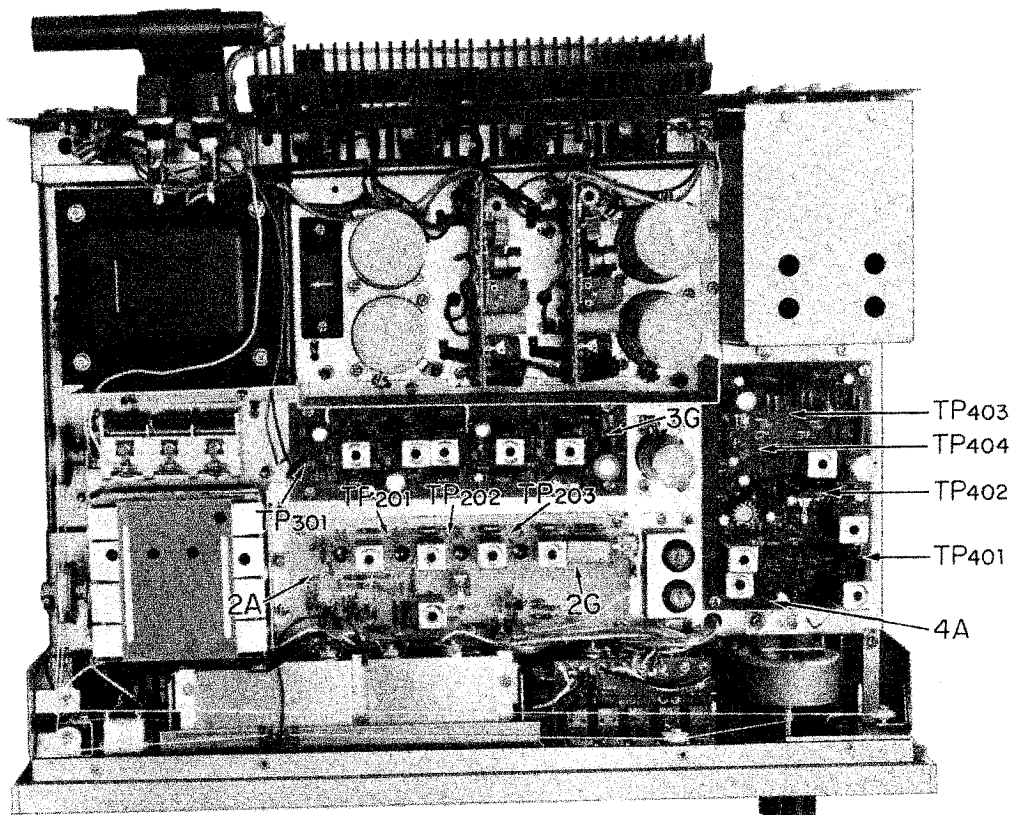
PARTS LAYOUT





ALIGNMENT

TEST POINTS

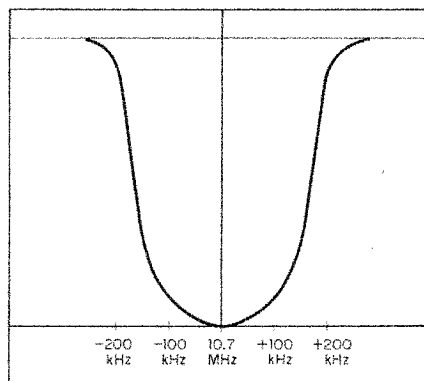


FM ALIGNMENT PROCEDURE

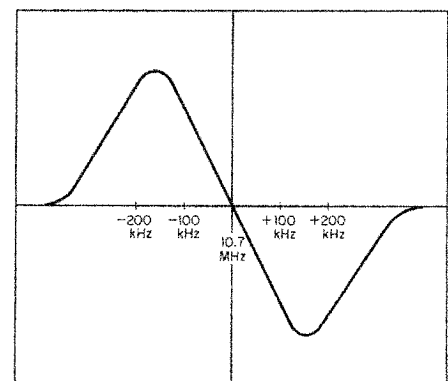
NOTE: To align, set the signal generator level to minimum.
Turn tuning gang fully.
Center carrier wave.
Set pointer at reference mark.

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF Trans-former	10.7 MHz ± 200 kHz	Sweep signal is sent to TP ₁₀₁ via the 10pF ceramic condenser	Oscilloscope is connected to TP ₂₀₁ , 202 and 203 via the 10pF ceramic condenser with probe		Top and bottom sides of T ₂₀₂ , 203	Best I.F.T. wave form
2.	Discrimi-nator	10.7 MHz ± 200 kHz	Sweep signal is sent to TP ₁₀₁ via the 10pF ceramic condenser	Oscilloscope is connected to 2G		FM. Discriminator is transformer T ₂₀₄ 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 ₁₀₄	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 ₁₀₅	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 ₁₀₁ , L ₁₀₂ and L ₁₀₃	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 ₁₀₁ , TC ₁₀₂ , TC ₁₀₃ and, TC ₁₀₄	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

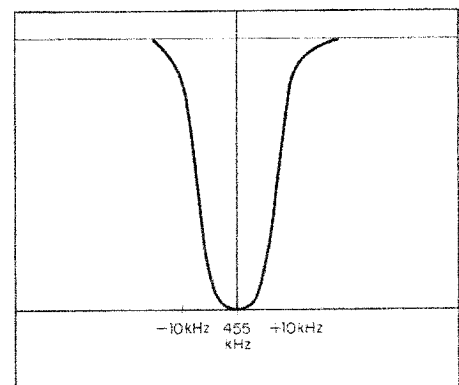
STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	ADJUST	ADJUST FOR
1.	67 kHz Trap	67 kHz Audio Signal	Connect to TP _{4A}	V.T.V.M. at TP ₄₀₄	L ₄₀₁	Minimum
2.	71 kHz Trap	71 kHz Audio Signal	Connect to TP _{4A}	V.T.V.M. at TP ₄₀₄	L ₄₀₂	Minimum
3.	19 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at TP ₄₀₁	T ₄₀₁	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 TP ₄₀₂	T ₄₀₂	Maximum
5.	36 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at TP ₄₀₃	T ₄₀₃	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 ₄₀₂ within 1/4 turn and Separation VR(VR ₀₀₁)	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 L 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 L ₃₀₁	Maximum
7.	RF amp.	AM-generation 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-generation 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.						

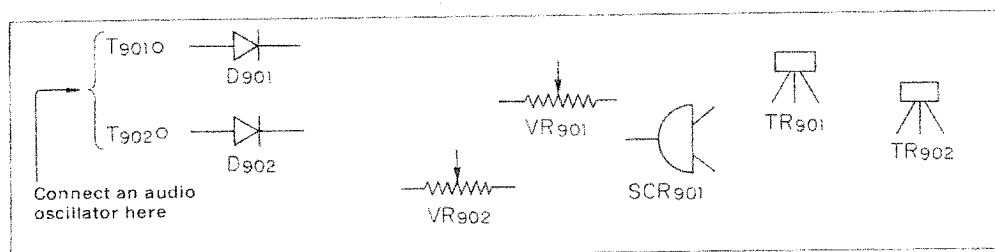
AM IF WAVE FORM



ALIGNMENT

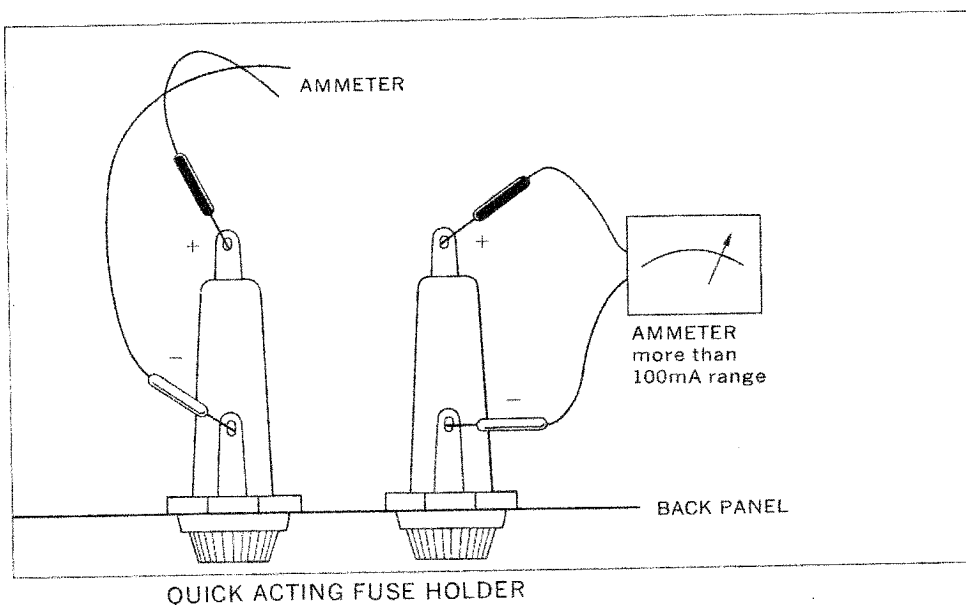
TO ADJUST THE PROTECTOR CIRCUIT (F-1041)

1. Remove wiring from T₉₀₁ and T₉₀₂.
2. Send a 6-volt RMS signal (1 kHz) to T₉₀₁ and adjust VR₉₀₁ to make the protector lamp glow.
3. Send a 6-volt RMS signal (1 kHz) to T₉₀₂ and adjust VR₉₀₂ to make the protector lamp glow.
4. Attach wiring to T₉₀₁ and T₉₀₂ in its original place.



TO ADJUST THE BIAS CURRENT IN THE OUTPUT STAGE

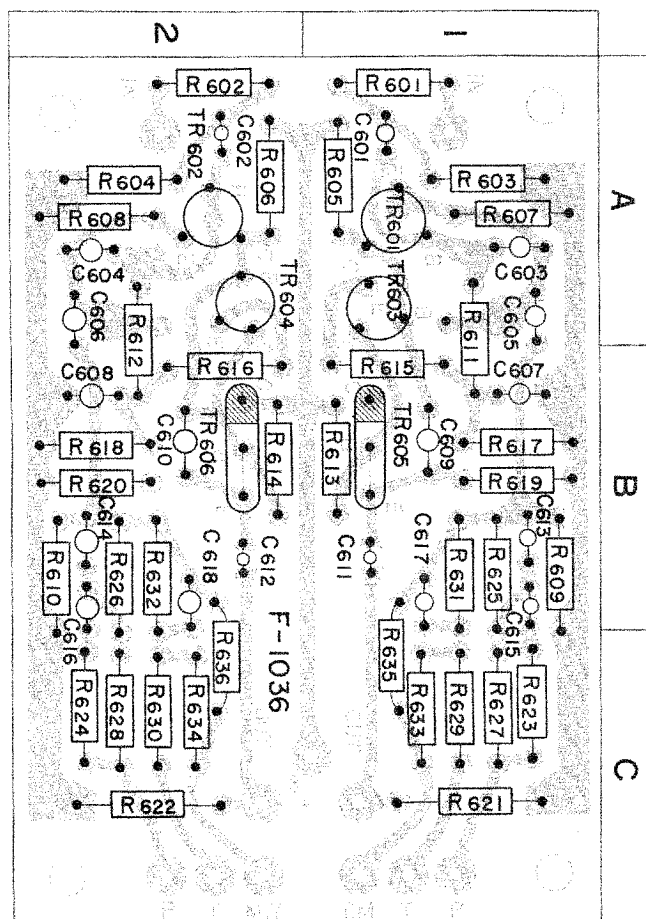
1. Set the MAIN VOL. control to the MINIMUM position.
2. Connect a resistor (approx. 10 ohms and 1 watt) to each of the SPEAKER output terminals.
3. Remove quick-acting fuse from its holder.
4. Connect an ammeter (about 100 milliamperes) to CHANNEL R as illustrated.
5. Adjust the VR₈₀₂ on F-1040 sheet so that the ammeter indicates 23 milliamperes.
6. Remove the ammeter and secure the fuse in place.
7. Adjust CHANNEL L as above.



PRINTED CIRCUIT SHEETS AND PARTS LIST

X: Parts No. Y: Parts Name Z: Co-ordinates in Printed Circuit Sheets

F-1036 <EQUALIZER AMP.>

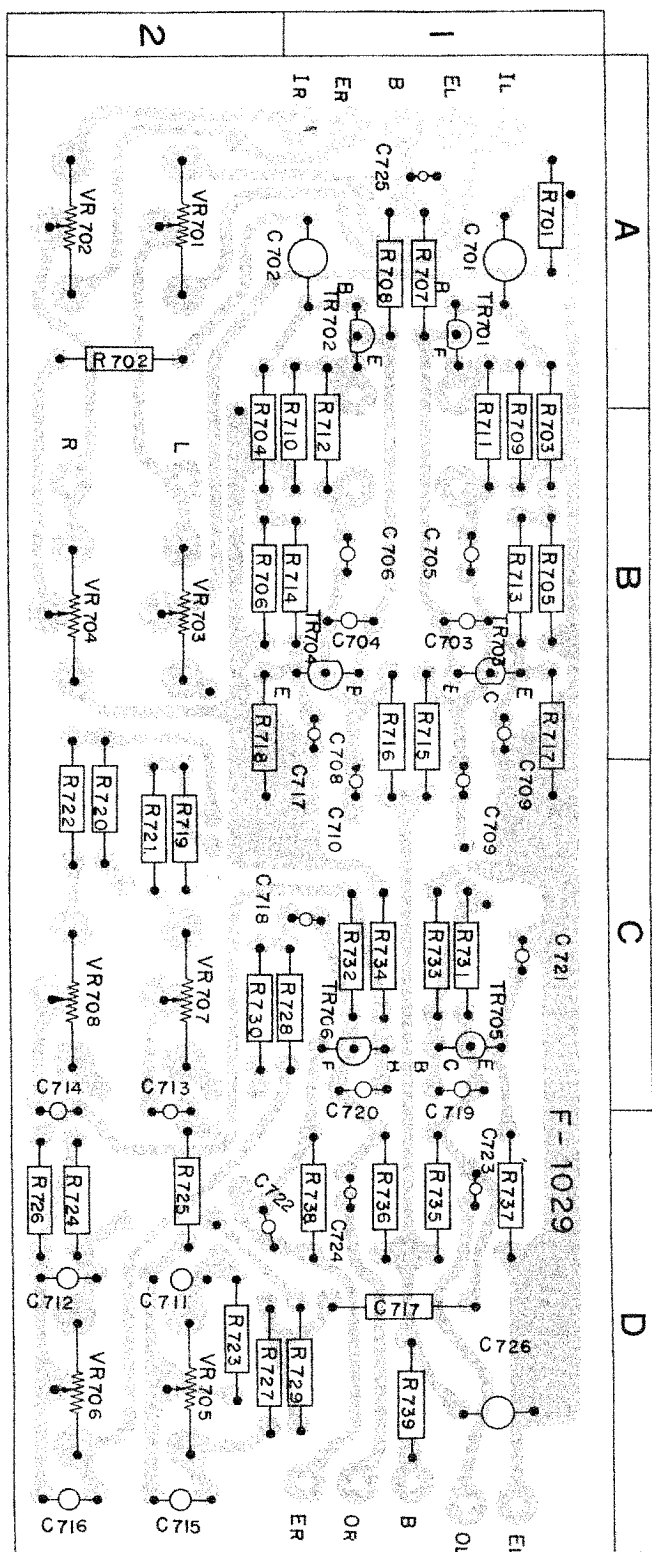


X	Y	Z
R601	1 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 A
R602	1 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 A
R603	680 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 A
R604	680 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 A

X	Y	Z
R605	220 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 A
R606	220 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 A
R607	1 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 A
R608	1 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 A
R609	470 Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R610	470 Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R611	270 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 A, B
R612	270 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 A, B
R613	33 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R614	33 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R615	680 Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R616	680 Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R617	2.2 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R618	2.2 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R619	3.9 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R620	3.9 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R621	39 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R622	39 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R623	820 Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R624	820 Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R625	220 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R626	220 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R627	18 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R628	18 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R629	10 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R630	10 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R631	680 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R632	680 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R633	4.7 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R634	4.7 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R635	4.7 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R636	4.7 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
C601	1.5 μ F 10 VDCW. Ta.	1 A
C602	1.5 μ F 10 VDCW. Ta.	1 A
C603	150 pF $\pm 10\%$ 50 VDCW. CER.	1 A
C604	150 pF $\pm 10\%$ 50 VDCW. CER.	1 A
C605	220 μ F 6.3 VDCW. ELECT.	1 A
C606	220 μ F 6.3 VDCW. ELECT.	1 A
C607	10 μ F 10 VDCW. ELECT.	1 B
C608	10 μ F 10 VDCW. ELECT.	1 B
C609	30 pF $\pm 10\%$ 50 VDCW.	1 B
C610	30 pF $\pm 10\%$ 50 VDCW.	1 B
C611	10 μ F 25 VDCW. ELECT.	1 B
C612	10 μ F 25 VDCW. ELECT.	1 B
C613	0.015 μ F $\pm 10\%$ 50 VDCW. My.	1 B
C614	0.004 pF $\pm 10\%$ 50 VDCW. My.	1 B
C615	0.004 pF $\pm 10\%$ 50 VDCW. My.	1 B
C616	0.005 pF $\pm 10\%$ 50 VDCW. My.	1 B
C617	0.0047 pF $\pm 10\%$ 50 VDCW. My.	1 B
C618	0.0047 pF $\pm 10\%$ 50 VDCW. My.	1 B
TR601	2SC458LG Si N-P-N	1 A
TR602	2SC458LG Si N-P-N	2 A
TR603	2SC281 or (2SC631) Si N-P-N	1 A
TR604	2SC281 or (2SC631) Si N-P-N	2 A
TR605	2SC281 or (2SC631) Si N-P-N	1 B
TR606	2SC281 or (2SC631) Si N-P-N	2 B

PRINTED CIRCUIT SHEETS AND PARTS LIST

F-1029 <TONE CONTROL>

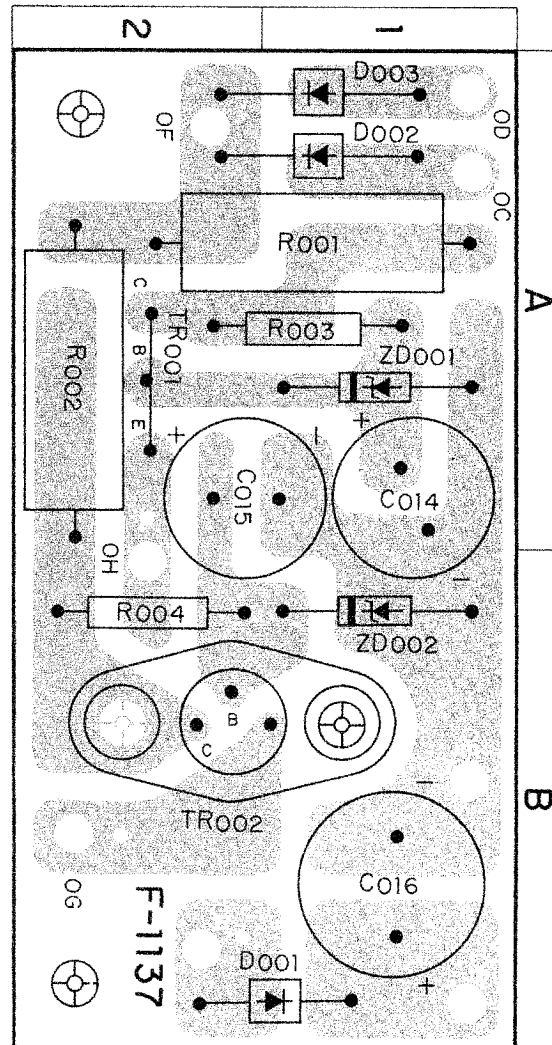


X	Y				Z
R701	1 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 A
R702	1 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 A
R703	47 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 A, B
R704	47 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 A, B
R705	68 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 B
R706	68 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 B
R707	100 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 A
R708	100 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 A
R709	1 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 A, B
R710	1 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 A, B
R711	8.2 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 A, B
R712	8.2 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 A, B
R713	120 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 B
R714	120 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 B
R715	15 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 B
R716	15 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 B, C
R717	2.7 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 B, C
R718	2.7 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 B, C
R719	10 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 C
R720	10 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 C
R721	6.8 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 C
R722	6.8 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 C
R723	150 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 D
R724	150 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 D
R725	22 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 D
R726	22 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 D
R727	10 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	12 C
R728	10 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 D
R729	6.8 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 C
R730	6.8 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 D
R731	470 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 C
R732	470 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 C
R733	150 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 C
R734	150 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 C
R735	5.6 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 D
R736	5.6 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 D
R737	560 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 D
R738	560 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 D
R739	100 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 D
C701	0.2 μ F	50 VDCW.	My.		1 A
C702	0.2 μ F	50 VDCW.	My.		1 A
C703	20 pF	50 VDCW.	CER.		1 B
C704	20 pF	50 VDCW.	CER.		1 B
C705	30 μ F	15 VDCW.	ELECT.		1 B
C706	30 μ F	15 VDCW.	ELECT.		1 B
C707	30 μ F	15 VDCW.	ELECT.		1 B
C708	30 μ F	15 VDCW.	ELECT.		1 B, C
C709	3 μ F	25 VDCW.	ELECT.		1 B
C710	3 μ F	25 VDCW.	ELECT.		1 B, C
C711	0.04 μ F	50 VDCW.	My.		2 D
C712	0.04 μ F	50 VDCW.	My.		2 D
C713	0.0015 μ F	50 VDCW.	My.		2 C
C714	0.0015 μ F	50 VDCW.	My.		2 C
C715	0.04 μ F	50 VDCW.	My.		2 D
C716	0.04 μ F	50 VDCW.	My.		2 D

X: Parts No.
Y: Parts Name
Z: Co-ordinates in Printed Circuit Sheets

X	Y			Z
C717	3 μ F	25 VDCW.	ELECT.	1C
C718	3 μ F	25 VDCW.	ELECT.	1D
C719	80 pF	50 VDCW.	CER.	1C
C720	80 pF	50 VDCW.	CER.	1C
C721	30 μ F	15 VDCW.	ELECT.	2D
C722	30 μ F	15 VDCW.	ELECT.	1C
C723	1 μ F	50 VDCW.	ELECT.	1D
C724	1 μ F	50 VDCW.	ELECT.	1D
C725	0.47 μ F	25 VDCW.	ELECT.	1A
C726	200 pF	25 VDCW.	ELECT.	1D
VR701	250 k(M)	Balance Control (101021)		2A
VR702	250 k(N)			2A
VR703	250 k(B)	Main Control (101020)		2B
VR704	250 k(B)			2B
VR705	100 k(B)	Bass Control (102004)		2D
VR706	100 k(B)			2D
VR707	100 k(B)	Treble Control (102004)		2C
VR708	100 k(B)			2C
TR701	2SC693F	Si N-P-N		1A
TR702	2SC693F	Si N-P-N		1A
TR703	2SC536E	Si N-P-N		1B
TR704	2SC536E	Si N-P-N		1B
TR705	2SC871D	Si N-P-N		1C
TR706	2SC871D	Si N-P-N		1C

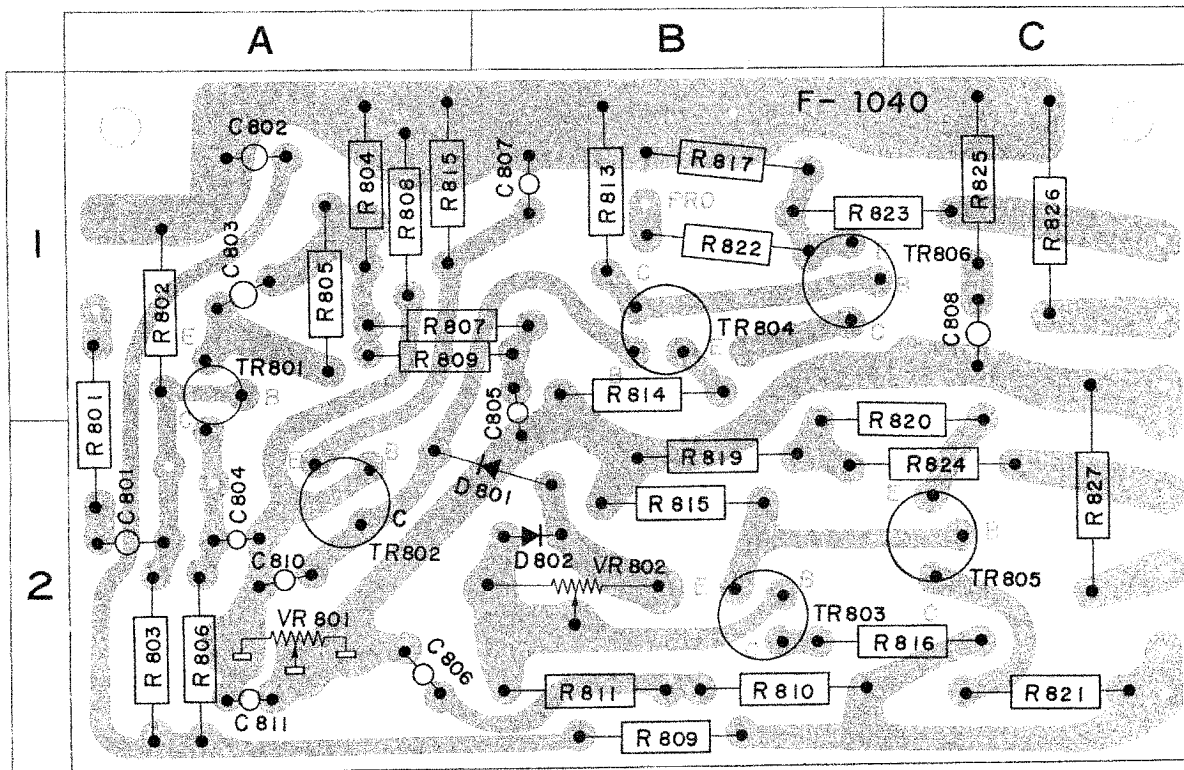
F-1137 ◀ RIPPLE FILTER ▶



X	Y			Z
R001	68 Ω	3 W	$\pm 10\%$ WW Fixed	
R002	180 Ω	3 W	$\pm 10\%$ WW Fixed	
R003	3.9 k Ω	$\frac{1}{2}$ W	$\pm 10\%$ WW Solid Fixed	
R004	1.5 k Ω	$\frac{1}{2}$ W	$\pm 10\%$ WW Solid Fixed	
C014	100 μ F	50 VDCW.	ELECT.	
C015	330 μ F	16 VDCW.	ELECT.	
C016	1000 μ F	10 VDCW.	ELECT.	
TR001	2SD72	TR		030812-1
TR002	2SD223	TR		030823-0~2
D001	SW-05-02	D		031017
D002	SW-05-02	D		031017
D003	SW-05-02	D		031017
ZD001	ZB1-27			031074
ZD002	ZB1-13			031073

PRINTED CIRCUIT SHEETS AND PARTS LIST

F-1040 <DRIVER AMP.>

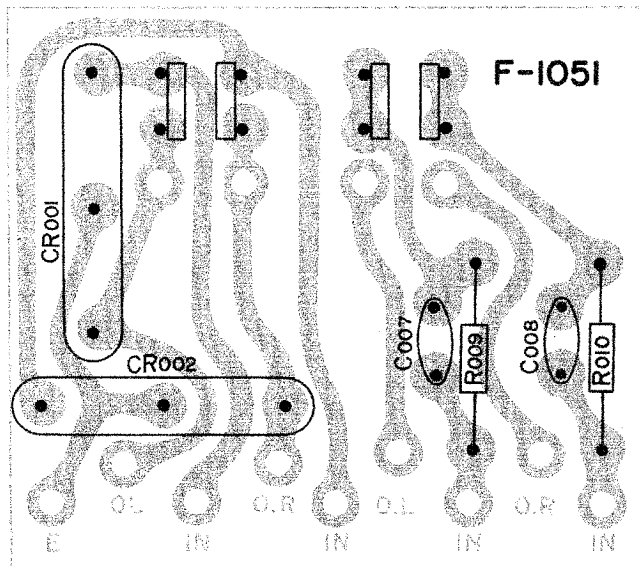


X	Y				Z
R801	2.2k Ω	1/4W	$\pm 10\%$	COMP. Fixed	1, 2 A
R802	220k Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 A
R803	560k Ω	1/4W	$\pm 10\%$	COMP. Fixed	2 A
R804	220 Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 A
R805	2.2k Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 A
R806	2.7k Ω	1/4W	$\pm 10\%$	COMP. Fixed	2 A
R807	6.8k Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 A, B
R808	10k Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 A
R809	47k Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 A, B
R810	1k Ω	1/4W	$\pm 10\%$	COMP. Fixed	
R811	3.3k Ω	1/4W	$\pm 10\%$	COMP. Fixed	
R812	220 Ω	1/4W	$\pm 10\%$	COMP. Fixed	
R813	120 Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 B
R814	120 Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 B
R815	120 Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 A
R816	33 Ω	1/4W	$\pm 10\%$	COMP. Fixed	
R817	100 Ω	1/4W	$\pm 10\%$	COMP. Fixed	
R818	3.3 Ω	1/4W	$\pm 10\%$	COMP. Fixed	
R819	100 Ω	1/4W	$\pm 10\%$	COMP. Fixed	
R820	4.7 Ω	1/4W	$\pm 10\%$	COMP. Fixed	
R821	3.3 Ω	1/4W	$\pm 10\%$	COMP. Fixed	
R822	1k Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 B
R823	3.3 Ω	1/4W	$\pm 10\%$	COMP. Fixed	1 B, C
R824	3.3 Ω	1/4W	$\pm 10\%$	COMP. Fixed	
R825	22 Ω	1/4W	$\pm 10\%$	COMP. Fixed	

X	Y				Z
R826	0.3 Ω	1 W	$\pm 10\%$	WW.	
R827	0.3 Ω	1 W		COMP. Fixed	2 C
VR801	500k Ω (B)	(103050)			2 A
VR802	500 Ω (B)	(103051)			2 B
C801	0.5 μ F	50 VDCW.	My.		2 A
C802	100 μ F	35 VDCW.	ELECT.		1 A
C803	220 μ F	15 VDCW.	ELECT.		1 A
C804	1 μ F	50 VDCW.	To.		2 A
C805	10 μ F	50 VDCW.	ELECT.		1 B
C806	33 μ F	50 VDCW.	ELECT.		2 A
C807	47 μ F	15 VDCW.	ELECT.		1 B
C808	0.05 μ F	50 VDCW.	CER.		1 C
C809	100 pF	50 VDCW.	CER.		1 A, B
C810	100 pF	50 VDCW.	CER.		2 A
TR801	2SC458LG(C)		Si N-P-N		1 A
TR802	2SC756		Si N-P-N		2 A
TR803	2SC485		Si N-P-N		2 B
TR804	2SA485		Si N-P-N		1 B
TR805	2SC756		Si N-P-N		2 C
TR806	2SC756		Si N-P-N		1 B, C
D801	LV-2		Si Varister (034002)		2 A, B
D802	LV-2		Si Varister (034002)		2 B

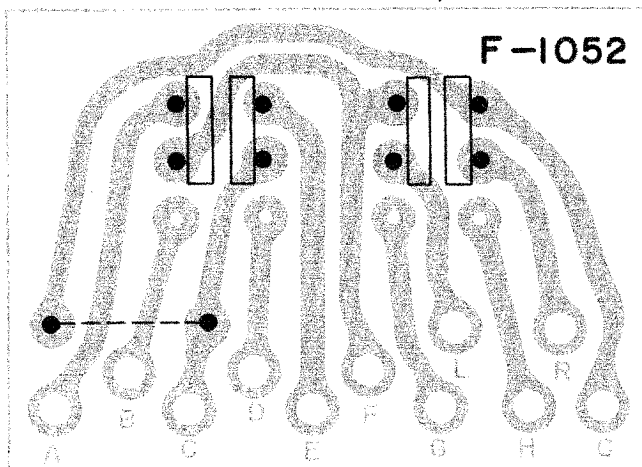
X: Parts No.
Y: Parts Name
Z: Co-ordinates in Printed Circuit Sheets

F-1051 < HIGH-LOW FILTER >

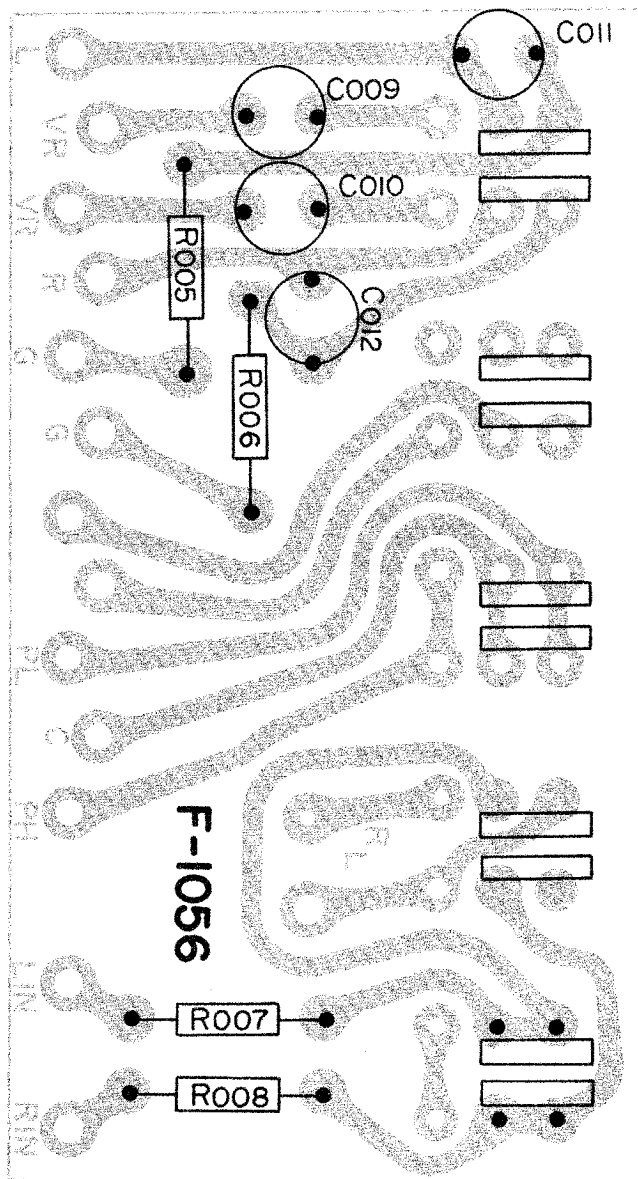


X	Y				Z
R009	470k Ω	1/4W	$\pm 10\%$	PREC. Fixed	
R010	470k Ω	1/4W	$\pm 10\%$	PREC. Fixed	
C007	0.0068 μ F	50 VDCW.	My.		
C008	0.0068 μ F	50 VDCW.	My.		
CR001		Low Filter	CER.		
CR002		Low Filter	CER.		

< TAPE MONITOR SW >



F-1056 < ACCESSORY CIRCUIT >



X	Y				Z
R005	33k Ω	1/4W	$\pm 10\%$	PREC. Fixed	
R006	33k Ω	1/4W	$\pm 10\%$	PREC. Fixed	
R007	8.2k Ω	1/4W	$\pm 10\%$	PREC. Fixed	
R008	8.2k Ω	1/4W	$\pm 10\%$	PREC. Fixed	
C009	0.022 μ F	50 VDCW.	My.		
C010	0.022 μ F	50 VDCW.	My.		
C011	150 pF	50 VDCW.	Mc.		
C012	150 pF	50 VDCW.	Mc.		

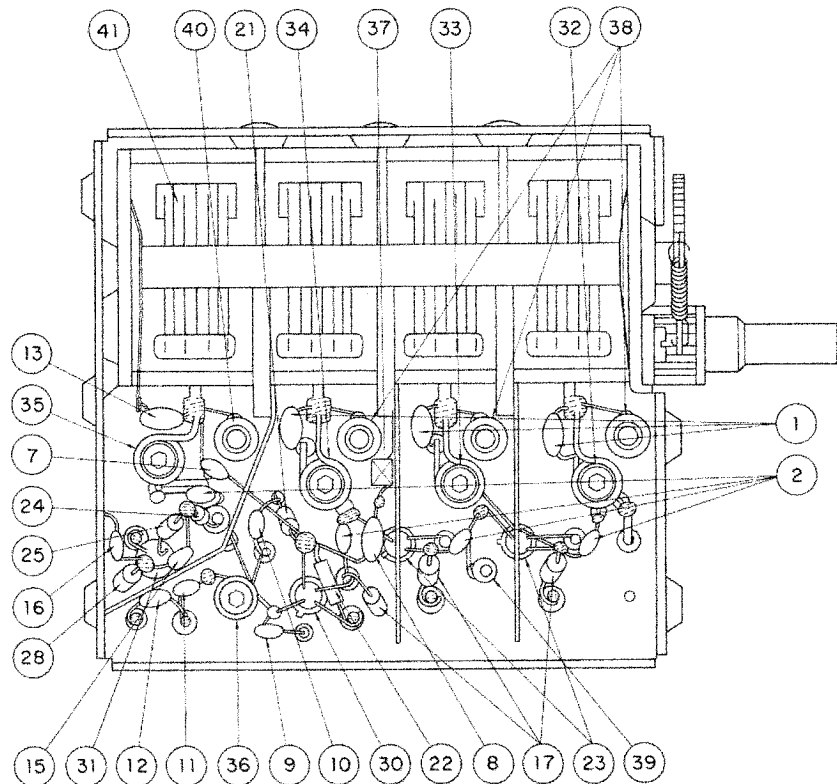
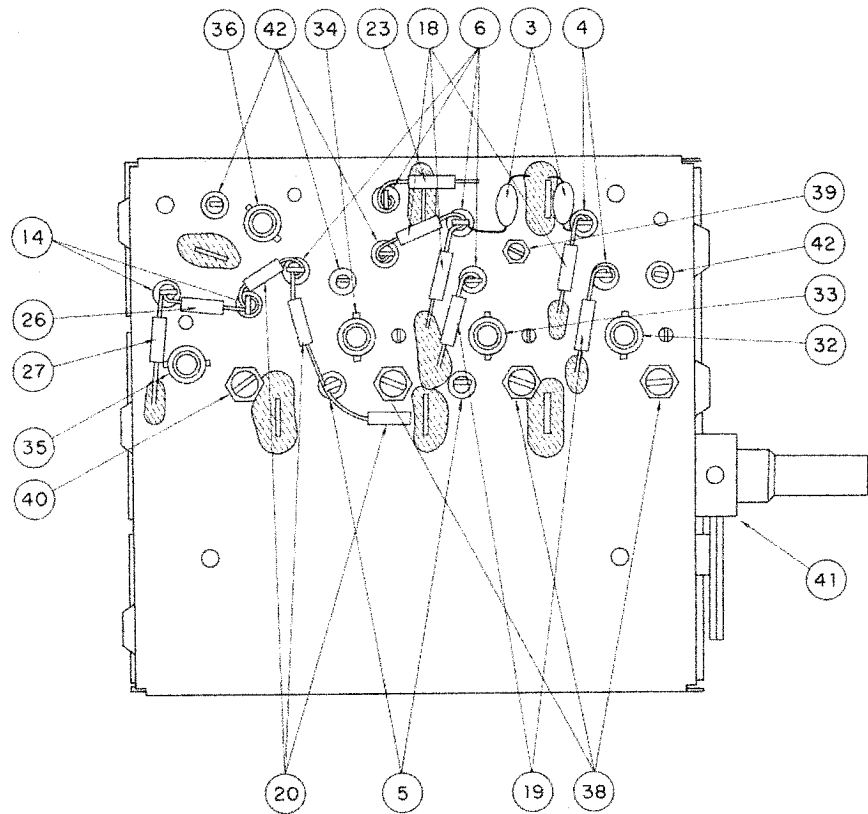
PRINTED CIRCUIT SHEETS AND PARTS LIST

F-1085

X	Y	Z
C101	15 pF $\pm 5\%$ NPO 50 VDCW. CER.	①
C102	1000 pF $\pm 100\%$ NPO 50 VDCW. CER.	②
C103	1000 pF $\pm 100\%$ NPO 50 VDCW. CER.	④
C104	0.02 μ F $\pm 100\%$ NPO 50 VDCW. CER.	③
C105	1000 pF $\pm 100\%$ NPO 50 VDCW. CER.	④
C106	2000 pF $\pm 100\%$ NPO 50 VDCW. CER.	⑤
C107	1000 pF $\pm 100\%$ NPO 50 VDCW. CER.	②
C108	15 pF $\pm 5\%$ NPO 50 VDCW. CER.	①
C109	1000 pF $\pm 100\%$ NPO 50 VDCW. CER.	⑥
C110	0.02 μ F $\pm 100\%$ NPO 50 VDCW. CER.	③
C111	1000 pF $\pm 100\%$ NPO 50 VDCW. CER.	⑥
C112	2000 pF $\pm 100\%$ NPO 50 VDCW. CER.	⑤
C113	1000 pF $\pm 100\%$ NPO 50 VDCW. CER.	②
C114	15 pF $\pm 5\%$ NPO 50 VDCW. CER.	①
C115	1 pF $\pm 5\%$ 50 VDCW GIMMICK.	⑦
C116	470 pF $\pm 20\%$ 50 VDCW. CER.	⑧
C117	1000 pF $\pm 100\%$ 50 VDCW. CER.	⑥
C118	120 pF $\pm 10\%$ 50 VDCW. CER.	⑨
C119	0.02 μ F $\pm 100\%$ 50 VDCW. CER.	⑩
C120	180 pF $\pm 10\%$ 50 VDCW. CER.	⑪
C121	330 pF $\pm 10\%$ 50 VDCW. CER.	⑫
C122	1000 pF $\pm 100\%$ 50 VDCW. CER.	⑥
C123	17 pF $\pm 10\%$ N80 50 VDCW. CER.	⑬
C124	1000 pF $\pm 100\%$ 50 VDCW. CER.	②
C125	100 pF $\pm 100\%$ 50 VDCW. CER.	⑭
C126	8.2 pF $\pm 5\%$ NPO 50 VDCW. CER.	⑮
C127	100 pF $\pm 100\%$ 50 VDCW. CER.	⑭
C128	22 pF $\pm 5\%$ NPO 50 VDCW. CER.	⑯
R101	220 k Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	⑰
R102	470 k Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	⑱
R103	100 Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	⑲
R104	220 k Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	⑰
R105	470 k Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	⑱
R106	100 Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	⑲
R107	120 Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	⑳
R108	470 k Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	⑱
R109	220 k Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	⑰
R110	100 k Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	㉑
R111	15 k Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	㉒
R112	270 Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	㉓
R113	120 Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	㉔
R114	3.9 k Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	㉕
R115	120 Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	㉖
R116	6.8 k Ω $\pm 5\%$ $\frac{1}{4}$ W SOLID.	㉗
R117	2.2 k Ω $\pm 5\%$ $\frac{1}{4}$ W SOLID.	㉘
R118	1.5 k Ω $\pm 10\%$ $\frac{1}{4}$ W SOLID.	㉙
FET101	40468 MOS FET (037001)	㉚
FET102	40468 MOS FET (037001)	㉛

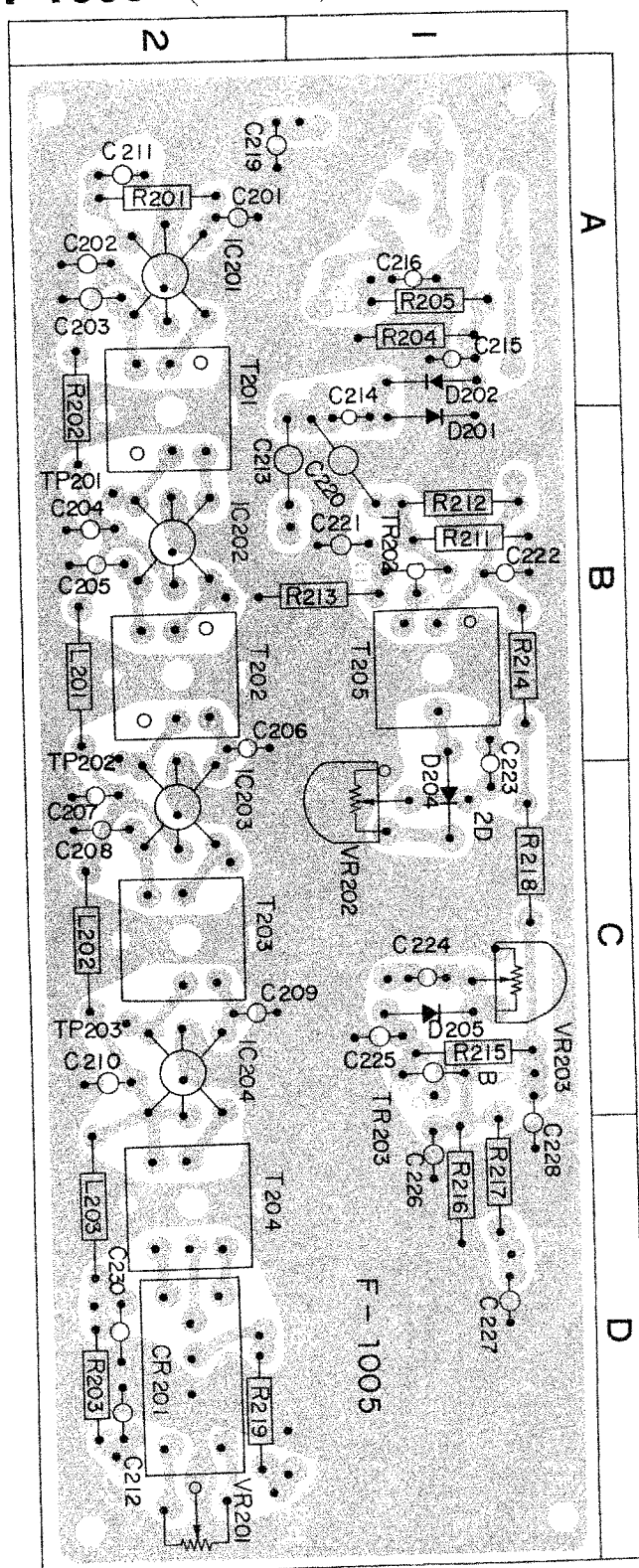
X	Y	Z
FET103	40604 MOS FET (037002)	㉜
TR101	SE 3001 (030541)	㉝
L101	FM ANT COIL	㉞
L102	FM INTERSTAGE COIL	㉟
L103	FM INTERSTAGE COIL	㊱
L104	FM OSC COIL	㊲
L105	FM IF TRANSF	㊳
L106	RF CHOKE COIL	㊴
TC101	2~6pF TRIM (123004)	㊵
TC102	2~6pF TRIM (123004)	㊶
TC103	0.5~3pF TRIM (123002)	㊷
TC104	2~6pF TRIM (123004)	㊸
TC105	2~5pF TRIM (123003)	㊹
VC101~104	4 SEC GANG	㊺

X: Parts No.
Y: Parts Name
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PRINTED CIRCUIT SHEETS AND PARTS LIST

F-1005 <FM IF>

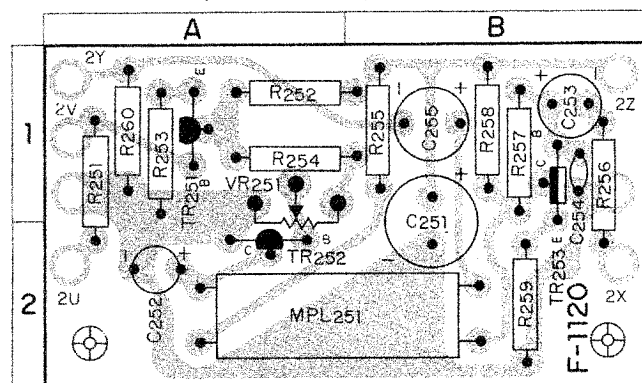


X	Y				Z
R201	1.2k Ω	1/4W	$\pm 10\%$	PREC. Fixed	2A
R202	22 Ω	1/4W	$\pm 10\%$	PREC. Fixed	2A, B
R203	56 Ω	1/4W	$\pm 10\%$	PREC. Fixed	2D
R204	100k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1A
R205	47k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1A
R211	10k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1B
R212	22k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1B
R213	1k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1, 2B
R214	22k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1B
R215	220k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1C
R216	2.2k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1D
R217	1k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1D
R218	22 Ω	1/4W	$\pm 10\%$	PREC. Fixed	1C
R219	22k Ω	1/4W	$\pm 10\%$	PREC. Fixed	2D
CR201	(080016)				2D
C201	0.02 μ F	50 VDCW.	CER.		2A
C202	0.02 μ F	50 VDCW.	CER.		2A
C203	0.02 μ F	50 VDCW.	CER.		2A
C204	0.02 μ F	50 VDCW.	CER.		3B
C205	0.02 μ F	50 VDCW.	CER.		3B
C206	0.02 μ F	50 VDCW.	CER.		3B
C207	0.02 μ F	50 VDCW.	CER.		3C
C208	0.02 μ F	50 VDCW.	CER.		2C
C209	0.02 μ F	50 VDCW.	CER.		2C
C210	0.02 μ F	50 VDCW.	CER.		2C
C211	0.02 μ F	50 VDCW.	CER.		2A
C212	0.05 μ F	50 VDCW.	CER.		2D
C213	7 pF	50 VDCW.	CER.		1, 2B
C214	100 pF	50 VDCW.	CER.		1A, B
C215	100 pF	50 VDCW.	CER.		1A
C216	0.02 μ F	50 VDCW.	CER.		1A
C221	0.02 μ F	50 VDCW.	CER.		1B
C222	0.02 μ F	50 VDCW.	CER.		1B
C223	1000 pF	50 VDCW.	CER.		1B, C
C224	2 pF	50 VDCW.	CER.		1C
C225	0.02 μ F	50 VDCW.	CER.		1C
C226	0.02 μ F	50 VDCW.	CER.		1D
C227	0.02 μ F	50 VDCW.	CER.		1D
C228	0.05 μ F	50 VDCW.	CER.		1C, D
C230	0.05 μ F	50 VDCW.	CER.		2D
TR202	2SC380(O) or (2SC829) Si N-P-N				1B
TR203	2SC536(G) or (2SC828T) Si N-P-N				1C
IC201	PA-7703 (036001)				2A
IC202	PA-7703 (036001)				2B
IC203	PA-7703 (036001)				2C
IC204	PA-7703 (036001)				2C
T201	FM IF 10.7MHz (423519)				2A, B
T202	FM IF 10.7MHz (423519)				2B
T203	FM IF 10.7MHz (423520)				2C
T204	FM IF 10.7MHz (423518)				2D
T205	10.7MHz Tuning trap (423521)				1B

X: Parts No.
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X	Y	Z
D201	IN60 (031033)	1 B
D202	IN60 (031033)	1 A
D204	IN60 (031033)	1 C
D205	IN60 (031033)	1 C
VR201	10 k Ω (B) (103019)	2 D
VR202	50 k Ω (B) (103020)	1 C
VR203	250 k Ω (B) (103036)	1 C
L201	3.5 μ H (429001)	2 B
L202	3.5 μ H (429001)	2 C
L203	3.5 μ H (429001)	2 D

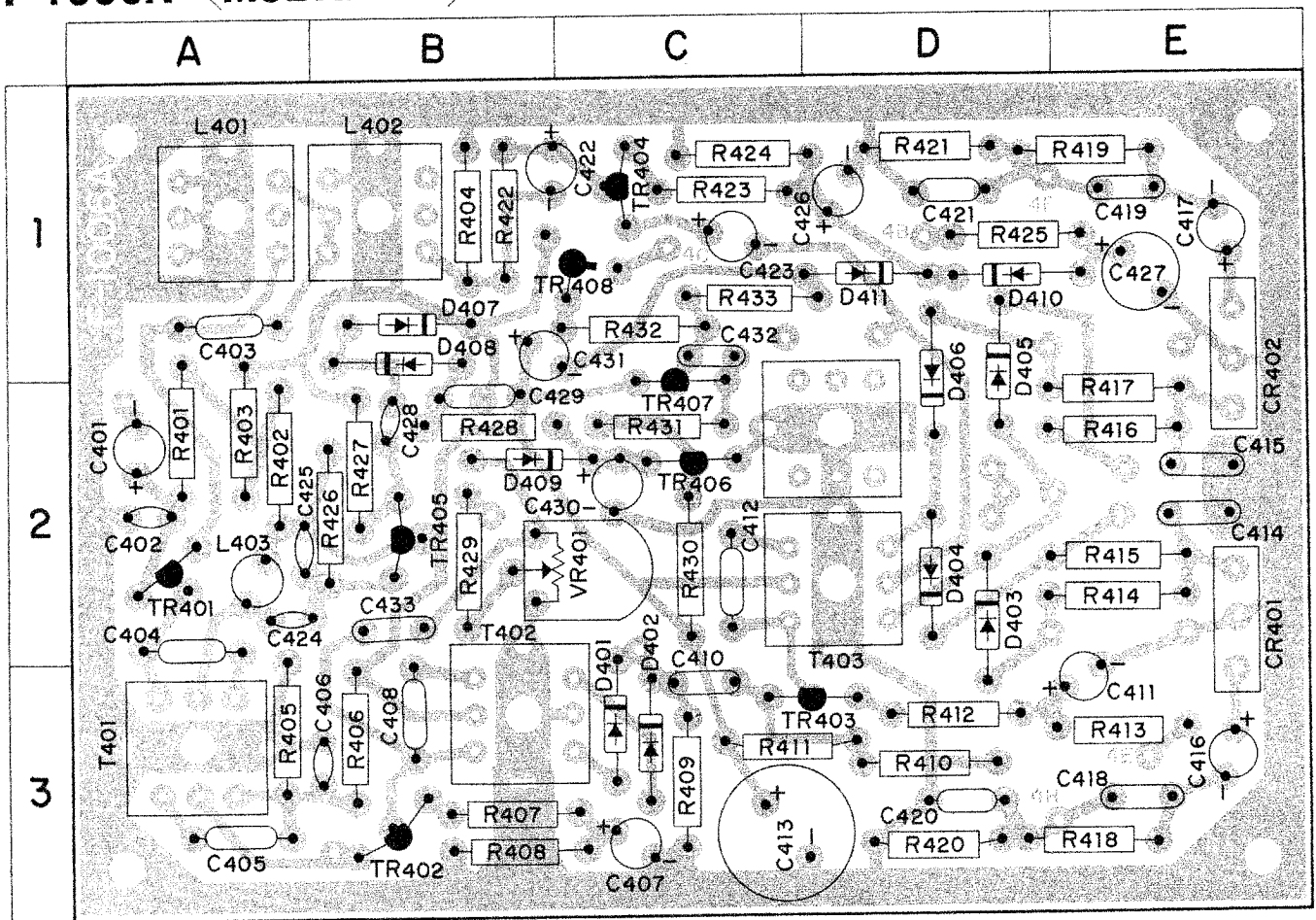
F-1120 < MUTING >



X	Y	Z
R251	2.2 k Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed	1 A
R252	4.7 k Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed	1 A
R253	680 Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed	1 A
R254	5.6 k Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed	1 A
R255	270 Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed	1 B
R256	1 k Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed	1 B
R257	220 k Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed	1 B
R258	4.7 k Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed	1 B
R259	1 k Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed	2 B
R260	4.7 Ω $\frac{1}{4}$ W $\pm 10\%$ Carbon Fixed	1 A
C251	47 μ F 16 VDCW. ELECT.	2 B
C252	1 μ F 50 VDCW. ELECT.	1 A
C253	3.3 μ F 25 VDCW. ELECT.	1 B
C254	100 μ F $\pm 20\%$ 50 VDCW. CER.	1 B
C255	10 μ F 25 VDCW. ELECT.	1 B
MPL251	Cds	2 B
TR251	2SC828T TR (030527)	1 A
TR252	2SC828T TR (030527)	2 A
TR253	2SC458LB TR (030511-1)	2 B
VR251	5 k Ω (B) Semi-Variable (103037)	1 A

PRINTED CIRCUIT SHEETS AND PARTS LIST

F-1006A < MULTIPLEX >



X: Parts No.

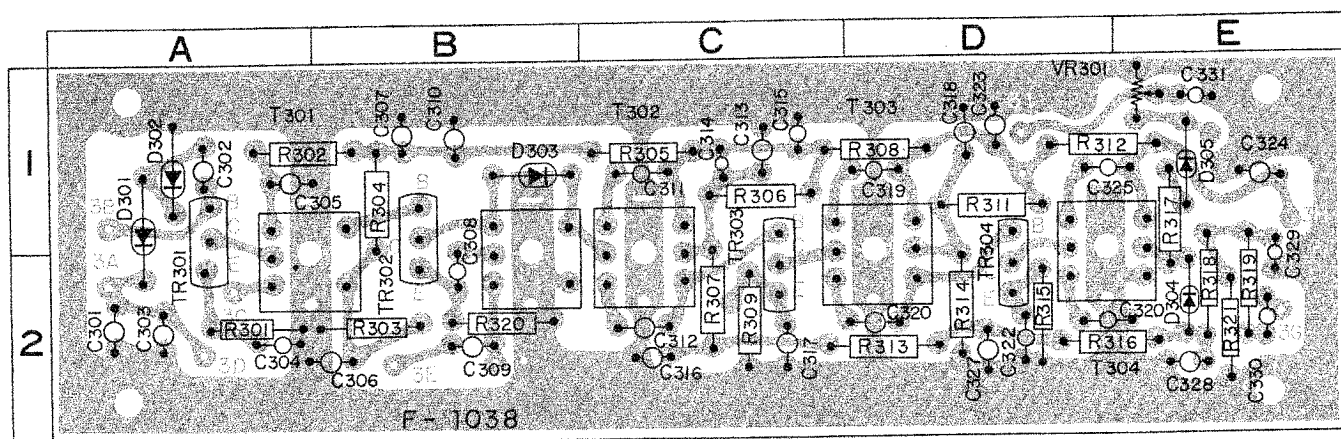
Y: Parts Name

Z: Co-ordinates in Printed Circuit Sheets

X	Y	Z
R401	47 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 A
R402	120 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 A
R403	100 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 A
R404	2.2 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R405	27 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 A
R406	330 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 B
R407	330 Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 B
R408	1.2 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 B
R409	10 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 C
R410	27 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 D
R411	270 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 C, D
R412	680 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 D
R413	1.2 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 E
R414	22 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 E
R415	22 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 E
R416	22 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 E
R417	22 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 E
R418	100 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 E
R419	100 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 E
R420	47 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	3 D
R421	47 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 D
R422	39 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 B
R423	22 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R424	100 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R425	15 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 D
R426	820 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 B
R427	10 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 B
R428	220 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 B
R429	180 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 B
R430	10 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 C
R431	22 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 C
R432	5.6 k Ω $\frac{1}{2}$ W $\pm 10\%$ PREC. Fixed	1 C
R433	10 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	1 C
R434	150 k Ω $\frac{1}{4}$ W $\pm 10\%$ PREC. Fixed	2 C, D
VR401	200K Ω (B) (103035)	2 B, C
C401	10 μ F 25 VDCW. ELECT.	2 A
C402	42 pF 50 VDCW. CER.	2 A
C403	2800 pF 50 VDCW. Mc.	1 A
C404	6800 pF 50 VDCW. Mc.	2 A
C405	6800 pF 50 VDCW. Mc.	3 A
C406	0.05 μ F 50 VDCW. My.	3 A, B
C407	1 μ F 50 VDCW. ELECT.	3 C
C408	6800 pF 25 VDCW. Mc.	3 B
C410	0.05 μ F 50 VDCW. My.	3 C
C411	1 μ F 50 VDCW. ELECT.	3 E
C412	1700 pF 50 VDCW. Mc.	2 C
C413	220 μ F 25 VDCW. ELECT.	3 C
C414	220 pF 50 VDCW. Mc.	2 E
C415	220 pF 25 VDCW. Mc.	2 E
C416	0.047 μ F 50 VDCW. ELECT.	3 E
C417	0.047 μ F 50 VDCW. ELECT.	1 E
C418	390 pF 50 VDCW. Mc.	3 E
C419	390 pF 50 VDCW. Mc.	1 E
C420	1800 pF 50 VDCW. Mc.	3 D
C421	1800 pF 50 VDCW. Mc.	1 D

X	Y	Z
C422	10 μ F 25 VDCW. ELECT.	1 B, C
C423	10 μ F 25 VDCW. ELECT.	1 C
C424	0.005 μ F 50 VDCW. My.	2 A
C425	100 PF 50 VDCW. CER.	2 A
C426	3.3 μ F 25 VDCW. ELECT.	1 D
C427	33 μ F 25 VDCW. ELECT.	1 E
C428	0.05 μ F 50 VDCW. My.	2 B
C429	0.005 μ F 50 VDCW. My.	2 B
C430	1 μ F 50 VDCW. ELECT.	2 C
C431	3.3 μ F 25 VDCW. ELECT.	1 B
C432	0.03 μ F 50 VDCW. My.	1 C
C433	0.002 μ F 50 VDCW. My.	2 B
TR401	2SC536V ₁ E ₂ (030524-5)	2 A
TR402	2SC536V ₁ E ₂ (030524-5)	3 B
TR403	2SC536V ₁ E ₂ (030524-5)	3 C, D
TR404	2SC536V ₁ G ₂ (030524-9)	1 C
TR405	2SC536V ₁ F ₂ (030524-7)	2 B
TR406	2SC373 (030504)	2 C
TR407	2SA564A (036008)	1, 2 C
TR408	2SC708 (030548~1,-2)	1 B, C
D401	IN34A (031040)	3 C
D402	IN34A (031040)	3 C
D403	IN34A (YL) (031040-1)	2 D
D404	IN34A (YL) (031040-1)	2 D
D405	IN34A (YL) (031040-1)	1, 2 D
D406	IN34A (YL) (031040-1)	1, 2 D
D407	IN34A (031040)	1 B
D408	IN34A (031040)	1 B
D409	IN34A (031040)	2 B
D410	IN34A (031040)	1 D
D411	IN34A (031040)	1 D
T401	19 kHz Tuning Trap (424021)	3 A
T402	19 kHz Tuning Trap (424022)	3 B
T403	38 kHz Tuning Trap (424022)	2 C, D
L401	67 kHz Filter (424038)	1 A
L402	71 kHz Filter (424025)	1 B
L403	19 kHz Filter (490003)	2 A
CR401	38 kHz Filter (080008)	1 E
CR402	38 kHz Filter (080008)	2 E

F-1038 **<AM IF>**

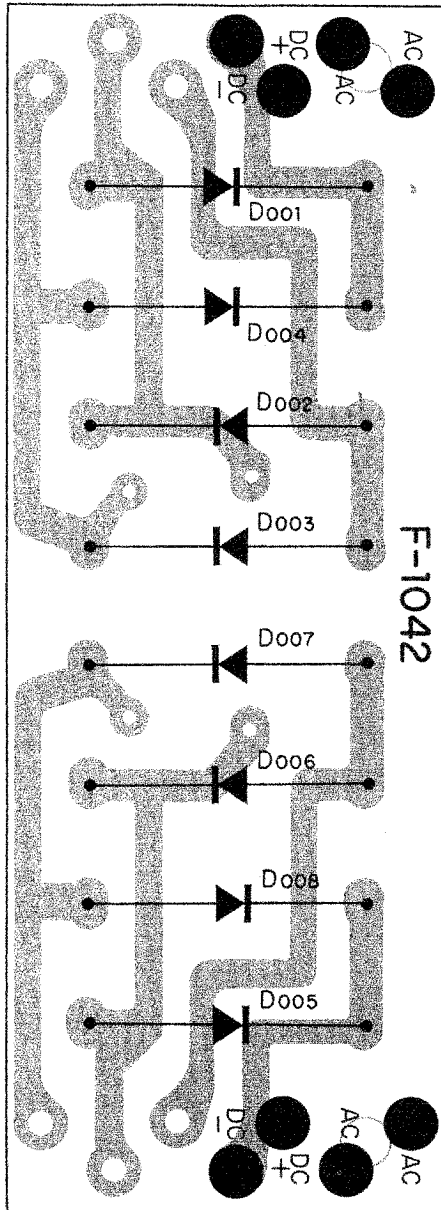


X	Y				Z
R301	1 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 A
R302	100 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 A, B
R303	3.9 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 B
R304	33 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 B
R305	100 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 C
R306	68 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 C
R307	22 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 C
R308	22 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 D
R309	1 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 C
R311	10 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 D
R312	22 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1 D, E
R313	100 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 D
R314	6.8 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 D
R315	470 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 D
R316	8.2 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 D, E
R317	1 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	1, 2 E
R318	1 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 E
R319	120 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 E
R320	1 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 B
R321	47 k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed	2 E
VR301	20 k Ω	(103019)			1 E
C301	0.04 μ F	50 VDCW.		CER.	2 A
C302	0.04 μ F	50 VDCW.		CER.	1 A
C303	100 μ F	6 VDCW.		ELECT.	2 A
C304	0.02 μ F	50 VDCW.		CER.	2 A
C305	0.04 μ F	50 VDCW.		CER.	1 A
C306	0.04 μ F	50 VDCW.		CER.	2 B
C307	100 μ F	15 VDCW.		ELECT.	1 B
C308	0.01 μ F	50 VDCW.		My.	1 B
C309	430 pF	50 VDCW.		Mc.	2 B
C310	0.02 μ F	50 VDCW.		CER.	1 B
C311	500 pF	50 VDCW.		Mc.	1 C
C312	500 pF	50 VDCW.		Mc.	2 C

X		Y		Z
C313	5 μ F	15 VDCW.	ELECT.	1 C
C314	0.02 μ F	50 VDCW.	CER.	1 C
C315	0.02 μ F	50 VDCW.	CER.	1 C
C316	0.04 μ F	50 VDCW.	CER.	2 C
C317	50 μ F	6 VDCW.	ELECT.	2 C
C318	0.02 μ F	50 VDCW.	CER.	1 D
C319	500 pF	50 VDCW.	Mc.	1 D
C320	500 pF	50 VDCW.	Mc.	2 D
C322	0.04 μ F	50 VDCW.	CER.	2 D
C323	0.02 μ F	50 VDCW.	CER.	1 D
C324	200 μ F	15 VDCW.	ELECT.	1 E
C325	500 pF	50 VDCW.	Mc.	1 D, E
C326	500 pF	50 VDCW.	Mc.	2 D, E
C327	0.02 μ F	50 VDCW.	CER.	2 D
C328	0.02 μ F	50 VDCW.	My.	2 E
C329	0.01 μ F	50 VDCW.	My.	2 E
C330	0.04 μ F	50 VDCW.	CER.	2 E
C331	10 μ F	6 VDCW.	ELECT.	1 E
D301	IN60			1 A
D302	IN60			1 A
D303	IN60			1 B
D304	IN60			2 E
D306	IN60			1 E
TR301	2SC460 or 2SC461(C)	Si N-P-N		1, 2 A
TR302	2SC460	Si N-P-N		1, 2 B
TR303	2SC460	Si N-P-N		1, 2 C
TR304	2SC460 or 2SC461(C)	Si N-P-N		1, 2 D
T301	AMRF (421005)			1, 2 A B
T302	AMOSC (422007)			1, 2 B
T303	AM IFT 455 kHz (423019)			1, 2 C
T304	AM IFT 455 kHz (423019)			1, 2 C D
T305	AM IFT 455 kHz (423018)			1, 2 D E

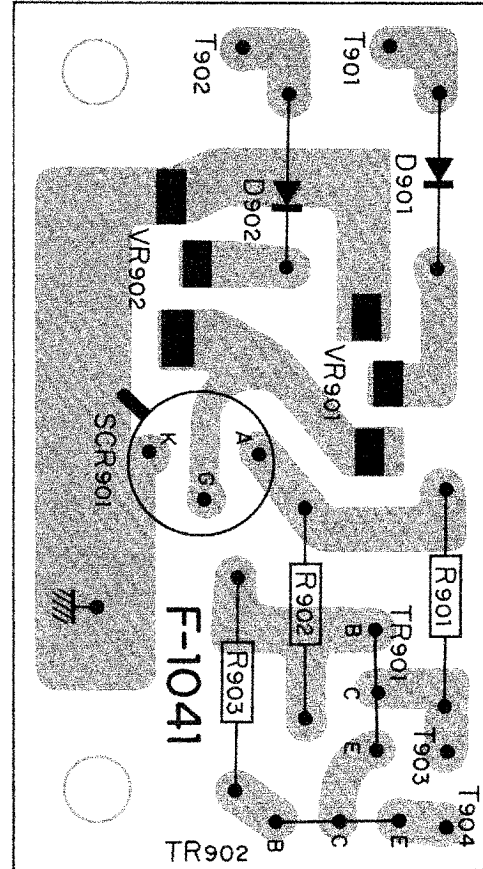
X: Parts No.
Y: Parts Name
Z: Co-ordinates in Printed Circuit Sheets

F-1042 <DIODES STACK>



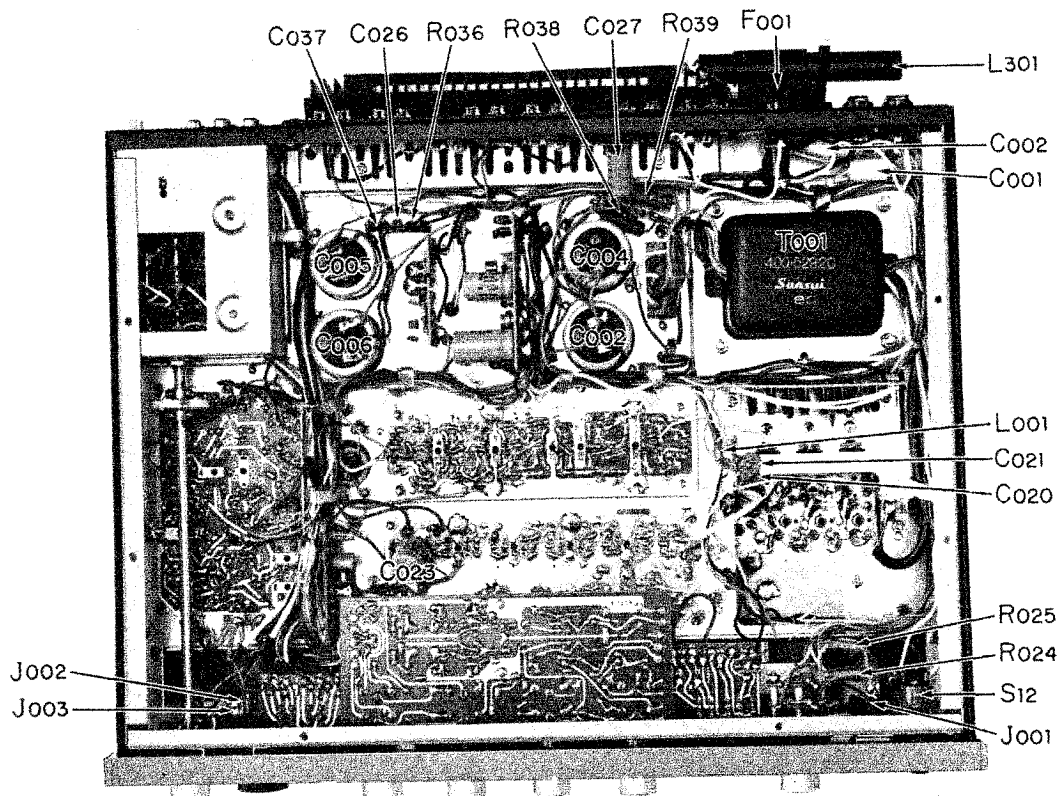
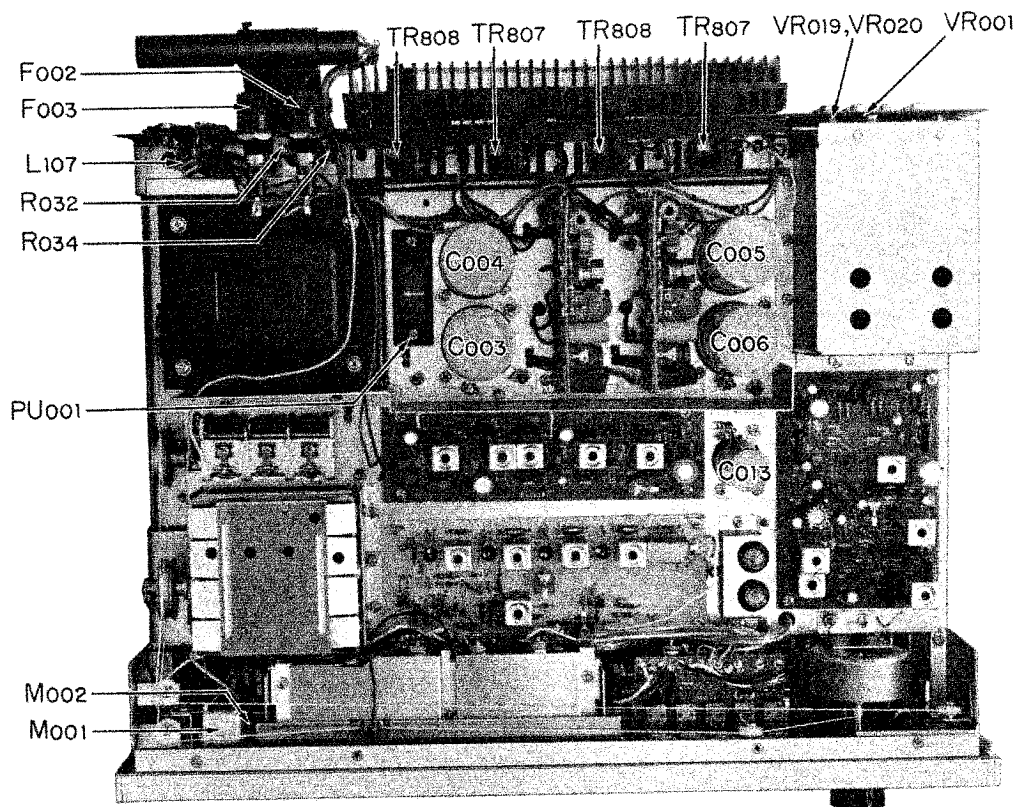
X	Y	Z
D001	SW-1-02 (031055)	
D002	SW-1-02 (031055)	
D003	SW-1-02 (031055)	
D004	SW-1-02 (031055)	
D005	SW-1-02 (031055)	
D006	SW-1-02 (031055)	
D007	SW-1-02 (031055)	
D008	SW-1-02 (031055)	

F-1041 <PROTECTOR>



X	Y	Z
R901	2.2Ω 1/4W ±10% COMP. Fixed	
R902	10Ω 1/4W ±10% COMP. Fixed	
R903	10Ω 1/4W ±10% COMP. Fixed	
VR901	2kΩ (B) Semi-Variable	
VR902	2kΩ (B) Semi-Variable	
D901	IN60 (031033)	
D902	IN60 (031033)	
SCR901	2SF521 (035003)	
TR901	2SC458 L (B) (030542)	
TR902	2SC458 L (B) (030542)	

OTHER PARTS CHART AND PARTS LIST



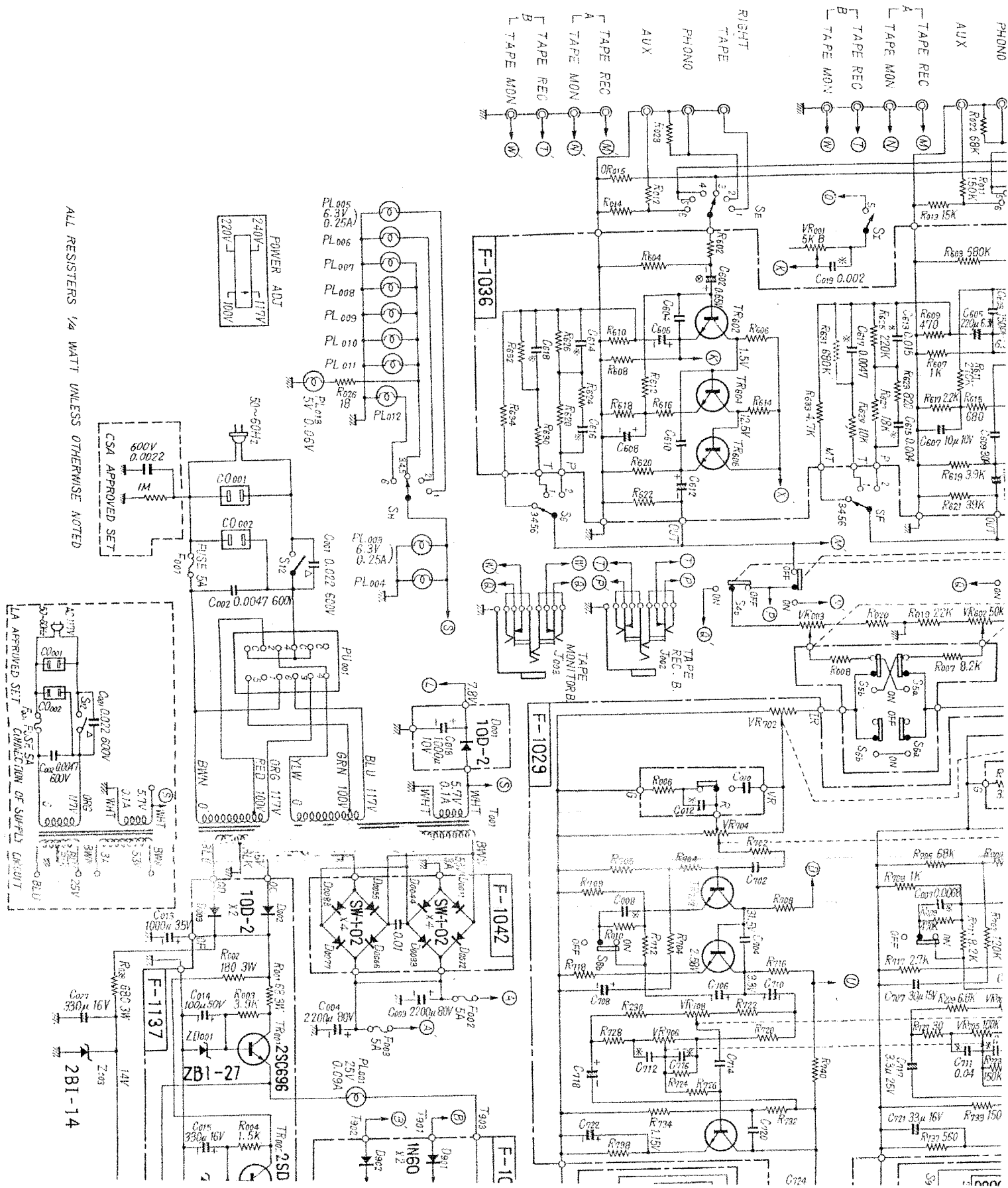
X: Parts No.
Y: Parts Name

X	Y			
R005	33k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R006	33k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R007	8.2k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R008	8.2k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R009	470k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R010	470k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R011	150k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R012	150k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R013	12k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R014	12k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R015	22k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R017	22k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R018	22k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R019	22k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R020	22k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R022	68k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R023	68k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R024	680 Ω	1 W	$\pm 10\%$	Carbon Fixed
R025	680 Ω	1 W	$\pm 10\%$	Carbon Fixed
R026	18 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R027	100k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R028	100k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R029	470k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R030	470k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R031	680 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R032	56 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R033	0.3 Ω	5 W	$\pm 10\%$	WW
R034	0.3 Ω	5 W	$\pm 10\%$	WW
R035	1k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R036	6.8k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R037	6.8k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R038	680 Ω	3 W	$\pm 10\%$	WW
R039	150 Ω	$\frac{1}{2}$ W	$\pm 10\%$	PREC. Fixed
R040	33k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R041	33k Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
R042	47 Ω	$\frac{1}{4}$ W	$\pm 10\%$	PREC. Fixed
C001	0.033 μ F	$\pm 20\%$	600 VDCW.	Oil
C002	0.0047 μ F	$\pm 20\%$	600 VDCW.	Oil
C003	2200 μ F	$\pm 100\%$	80 VDCW.	ELECT.
C004	2200 μ F	$\pm 100\%$	80 VDCW.	ELECT.
C005	2200 μ F	$\pm 100\%$	80 VDCW.	ELECT.
C006	2200 μ F	$\pm 100\%$	80 VDCW.	ELECT.
C007	0.0047 μ F	$\pm 10\%$	50 VDCW.	My.
C008	0.0047 μ F	$\pm 10\%$	50 VDCW.	My.
C009	150 pF	$\pm 10\%$	50 VDCW.	Mc.
C010	150 pF	$\pm 10\%$	50 VDCW.	Mc.
C011	0.02 μ F	$\pm 10\%$	50 VDCW.	My.
C012	0.02 μ F	$\pm 10\%$	50 VDCW.	My.
C013	1000 μ F	$\pm 100\%$	35 VDCW.	ELECT. (020528)
C019	0.002 μ F	$\pm 10\%$	50 VDCW.	ELECT.
C020	220 μ F	$\pm 100\%$	16 VDCW.	ELECT.
C021	0.04 μ F	$\pm 100\%$	50 VDCW.	CER.
C022	470 μ F	$\pm 100\%$	25 VDCW.	ELECT.
C023	470 μ F	$\pm 100\%$	15 VDCW.	ELECT.

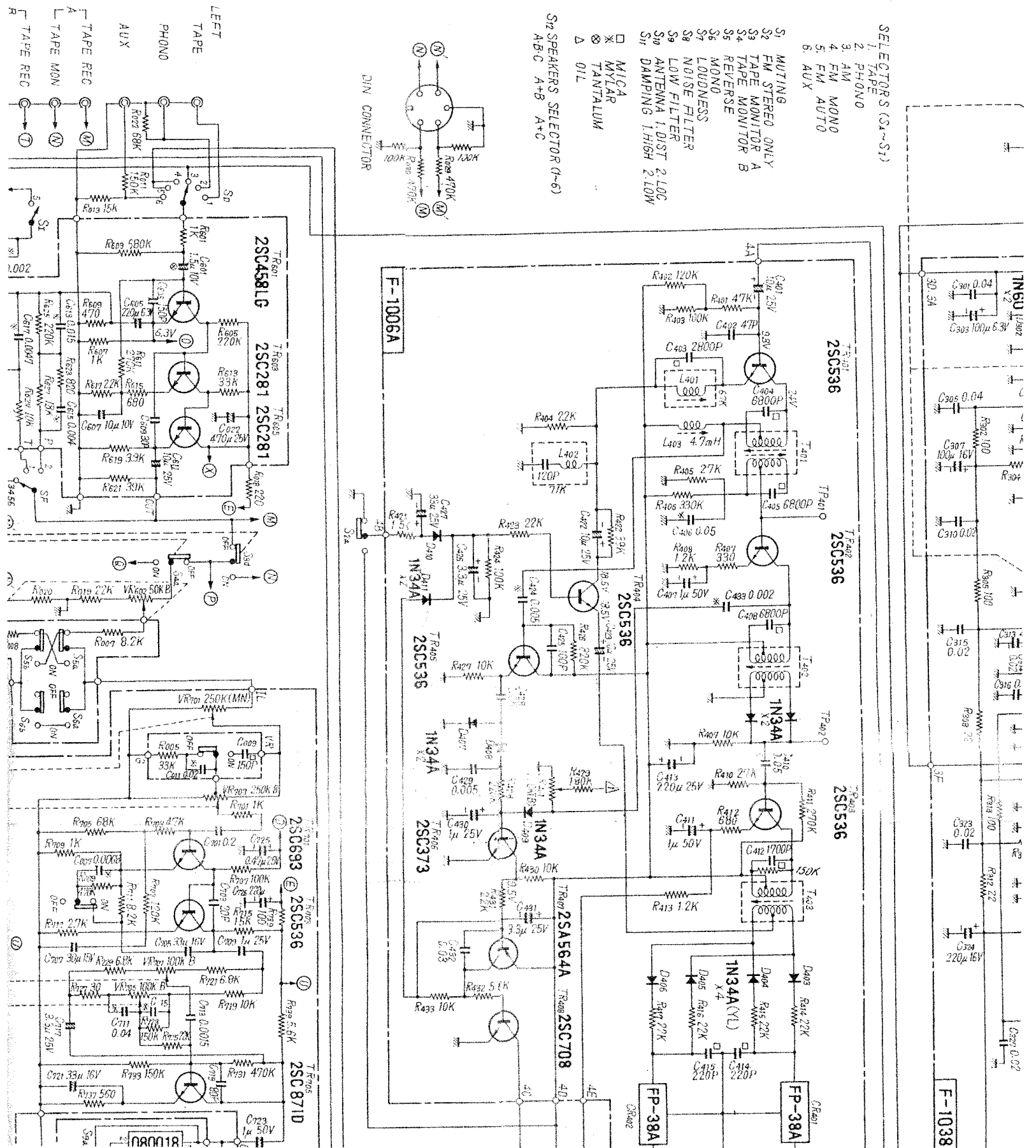
X	Y		
C024	1 μ F	$\pm 100\%$ — 0%	50 WV ELECT.
C025	70 pF	$\pm 100\%$ — 0%	50 WV CER.
C026	70 pF	$\pm 100\%$ — 0%	50 WV CER.
C027	330 μ F	$\pm 100\%$ — 0%	16 WV ELECT.
TR807,808	2SD118	Si N-P-N	
TR807,808	2SD118	Si N-P-N	
D004	IN60	Ge Diode	
D005	IN60	Ge Diode	
Z003	ZBI-14		
PL001	25V 90mA	Protector indicator	(040007)
PL002	8V 150mA	Stereo Indicator Lamp	(340005)
PL003	6.3V 250mA	Power Indicator Lamp	(040009)
PL004	6.3V 250mA	Power Indicator Lamp	(040009)
PL005	6.3V 250mA	Tape Indicator Lamp	(040009)
PL006	6.3V 250mA	Phono Indicator Lamp	(040009)
PL007	6.3V 250mA	Dial Indicator Lamp	(040009)
PL008	6.3V 250mA	Dial Indicator Lamp	(040009)
PL009	6.3V 250mA	Dial Indicator Lamp	(040009)
PL010	6.3V 250mA	Dial Indicator Lamp	(040009)
PL011	6.3V 250mA	Dial Indicator Lamp	(040009)
PL012	6.3V 250mA	Aux Indicator Lamp	(040009)
PL013	5V 60mA	Needle Indicator Lamp	(040010)
CO001	AC Outlet	(245002)	
CO002	AC Outlet	(245002)	
PU001	Line Voltage Controller	(241008, 241009)	
M001	100 μ A	Tune Meter	(090012)
M002	100 μ A	Signal Meter	(090011)
L301	AM Ferrite Bar Antenna	240 μ H	(420014)
T001	Power Transformer	(400025)	
F001	5A	Power Fuse	(043006)
F002	5A	Quick Acting Fuse	(043014)
F003	5A	Quick Acting Fuse	(043014)
S(1~10)	Selector	(110504)	
S1a	Muting		
S2a	FM Stereo Only		
S3(a~b)	Tape Monitor A	}(113007)	
S4(a~b)	Tape Monitor B		
S5(a~b)	Reverse		
S6(a~b)	Mono		
S7(a~b)	Loudness		
S8(a~b)	HIGH Filter	}(113007)	
S9(a~b)	Low Filter		
S10	FM Attenuator	(111004)	
S11	Damping Switch	(111009)	
S2a~b	Speaker Selector Switch	(110208)	
S12	Power Switch	(113009)	
J001	Head Phone Jack	(243007)	
J002	Tape Recording Jack B	(243006)	
J003	Tape Monitor Jack B	(243006)	
VR001	5k Ω (B)	Separation Adjust	(100501)
VR019	50k Ω (B)	Level Adjust	(101501)
VR020			

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SANSUI 5000



5000A SCHEMATIC DIAGRAM



SELF TOPS (34-57)

