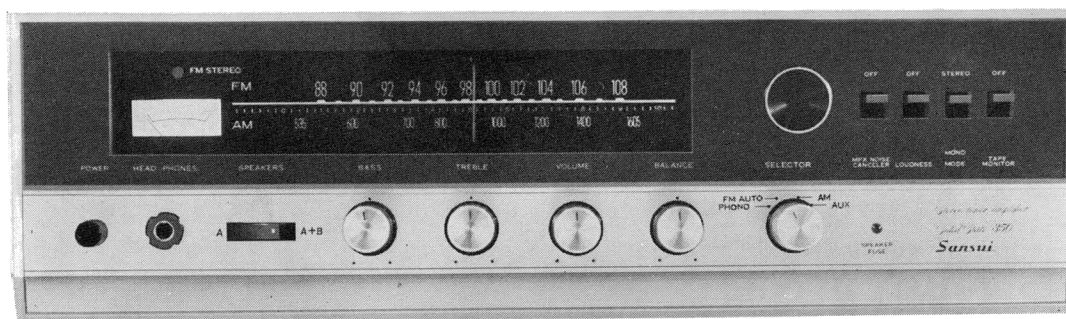


SERVICE MANUAL

AM/FM STEREO TUNER AMPLIFIER

SANSUI 350



Sansui®

SANSUI ELECTRIC COMPANY LIMITED

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GENERAL SECTION

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 component, be sure to read the manufacturer's in-

structions.

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

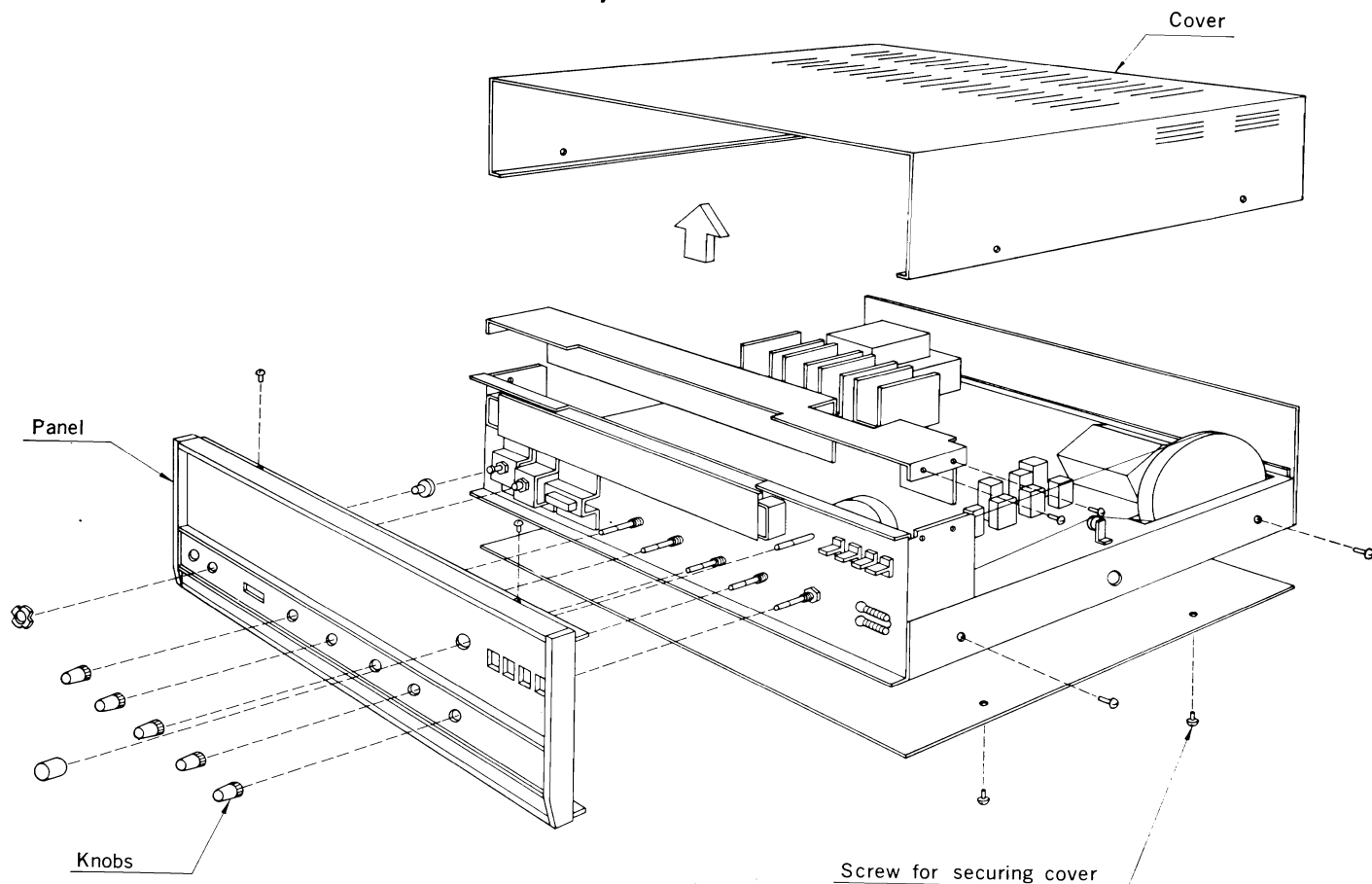
Following are some other common causes of malfunction and what to do about them:

PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
AM, FM or MPX reception	A. Constant or intermittent noise heard at certain times or in a certain area.	* Discharge or oscillation caused by electrical appliances, such as fluorescent lamps, TV sets, D.C. motors, rectifier and oscillator * Natural phenomena, such as atmospheric static, and thunderstorms. * Insufficient antenna input due to reinforced concrete walls or long distance from the station * Wave interference from other electrical appliances	* Attach a noise limiter to the electrical appliance that causes the noise, or attach it to the power source of the amplifier. * 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. * Place the set away from other electrical appliances.
	B. Needle of the tuning meter does not move sharply.	* Needle movement is not necessarily related to the sensitivity of the amplifier.	* Tune the set for maximum signal strength.
	C. Zero point of the meter moves greatly.	* Regional difference in field intensity.	* The unit is not at fault.
AM reception	A. Noise heard at a particular time of day, in a certain area or over part of the dial.	* Natural AM reception phenomenon.	* Install an 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 is too close to the audio system.	* Although such noise cannot be eliminated by the amplifier, it is advisable to turn the TREBLE control from midpoint to left. * Place the TV set away from the audio system.
FM reception	A. Noisy	* Poor noise limiter effect or too low S/N ratio due to insufficient antenna input.	* Adjust the antenna provided for maximum signal strength. * If this is not 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 the conditions of the transmitting stations power and antenna efficiency. As a result, you may receive one station quite well while having difficulty receiving another station.		

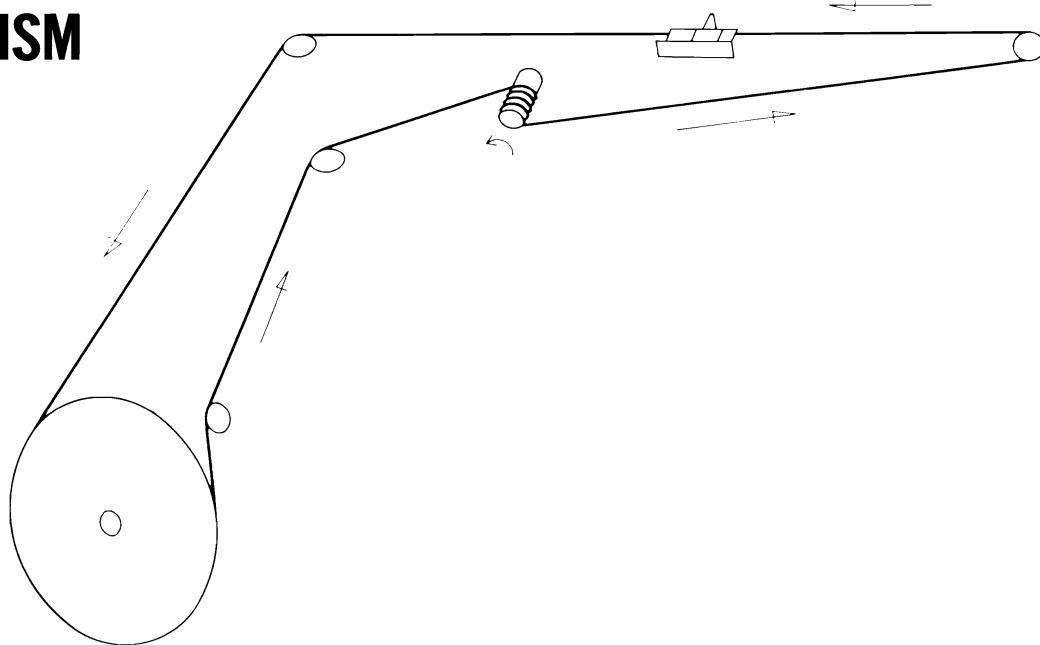
PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
FM reception (Cont'd)	B. "Scratch-like" noise is heard.	* Ignition noise caused by the starting of an automobile.	* Install the antenna and its lead-in wire away from the road or raise the antenna input as previously described.
	C. Tuning noise between stations.	* This noise results from the nature of FM reception. As the station signal becomes weak, the noise limiter effect is decreased. The amplification of the limiter, in turn, is enlarged and a noise is generated.	* Increase the volume.
FM-MPX reception	A. Noise heard during FM-MPX reception while not heard during FM mono reception.	* The service area of the FM-MPX broadcast is only half that of the FM mono broadcast.	* Install the antenna for maximum antenna input. * Turn the TREBLE control from midpoint to left.
	B. Clearness of channel separation is decreased during reception.	* Excess heat	* Make sure that air can flow underneath the amplifier.
	C. The stereo indicator goes on and off.	* Interference	* The indicator is not at fault. * Readjust VR ₄₀₁ .
	D. The stereo indicator goes on and off even though a stereo station is not received.	* Interference	* The indicator is not at fault. * Readjust VR ₄₀₁ .
Record playing or tape playback	A. Hum or howling	* Record player placed directly on the speaker box. * Use of unshielded wire. * Loose terminal contact. * Shielded wire too close to line cord, fluorescent lamp or other electrical appliances. * Nearby amateur radio station or TV transmission antenna.	* Put a cushion between the player and the speaker box or separate them. * The connecting shield wire should be as short as possible. * Turn the BASS control from midpoint to left. * Consult the nearest Radio Regulatory Bureau.
	B. Surface noise	* Worn or old record * Worn pick-up needle * Dusty needle * Improper needle pressure	* Recondition the playback head of the tape recorder or the pick-up of the record player. * Turn the TREBLE control properly from midpoint to left.
Overall stereo programs	The BALANCE control is not at midpoint when equal sound comes from left and right channels.	* It is important to adjust the control for equal sound from both channels. It should not always be set to midpoint.	* Set the MODE switch to the MONO position and then set the BALANCE control to the position where equal sound comes from both channels.

DISASSEMBLE PROCEDURE/DIAL MECHANISM

REMOVING THE FRONT PANEL, BONNET AND BOTTOM PLATE



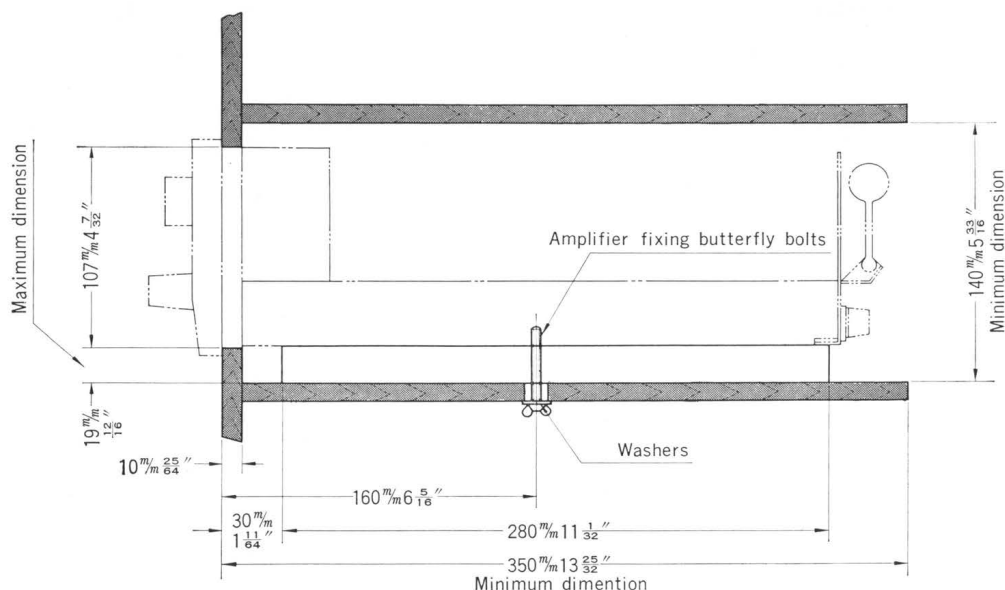
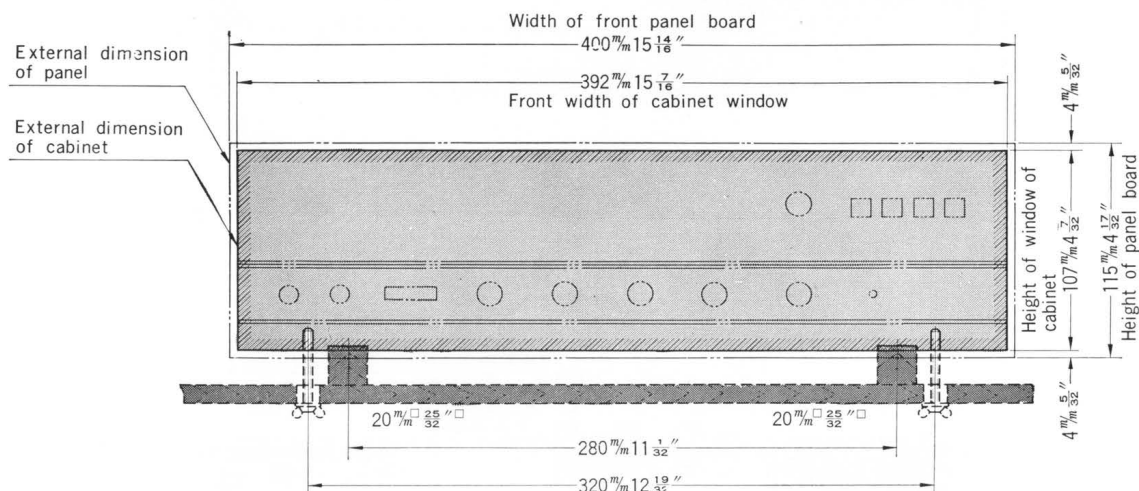
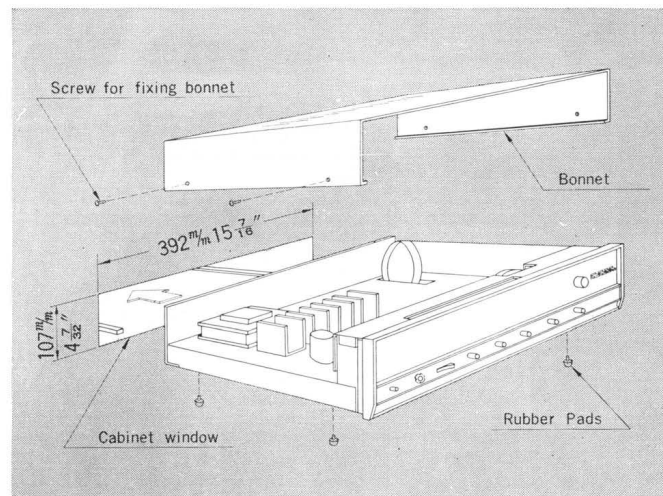
DIAL MECHANISM



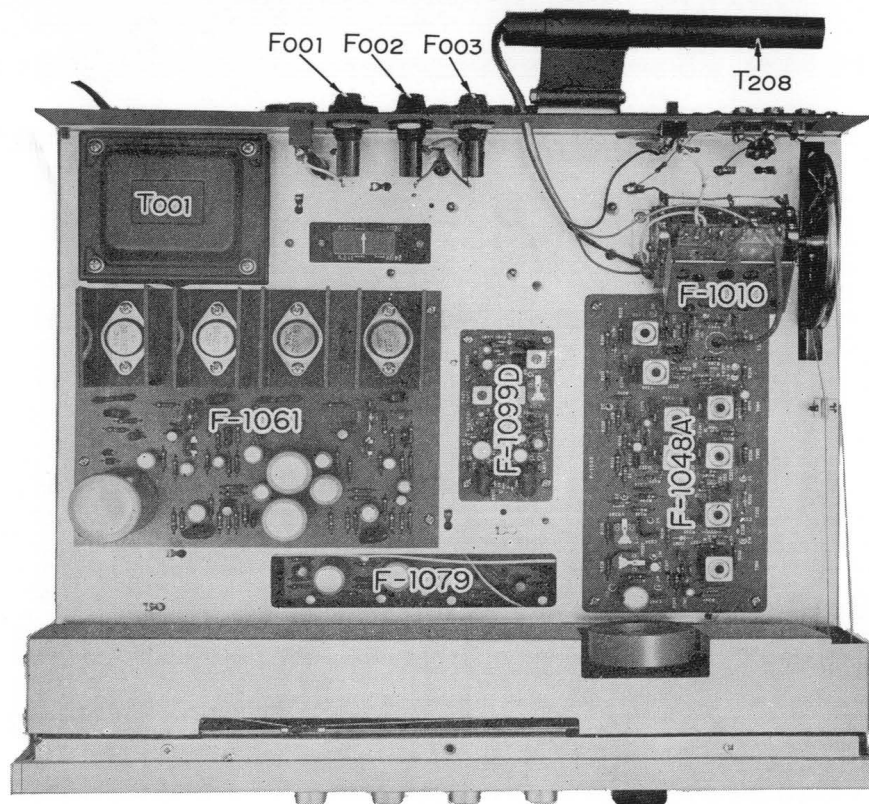
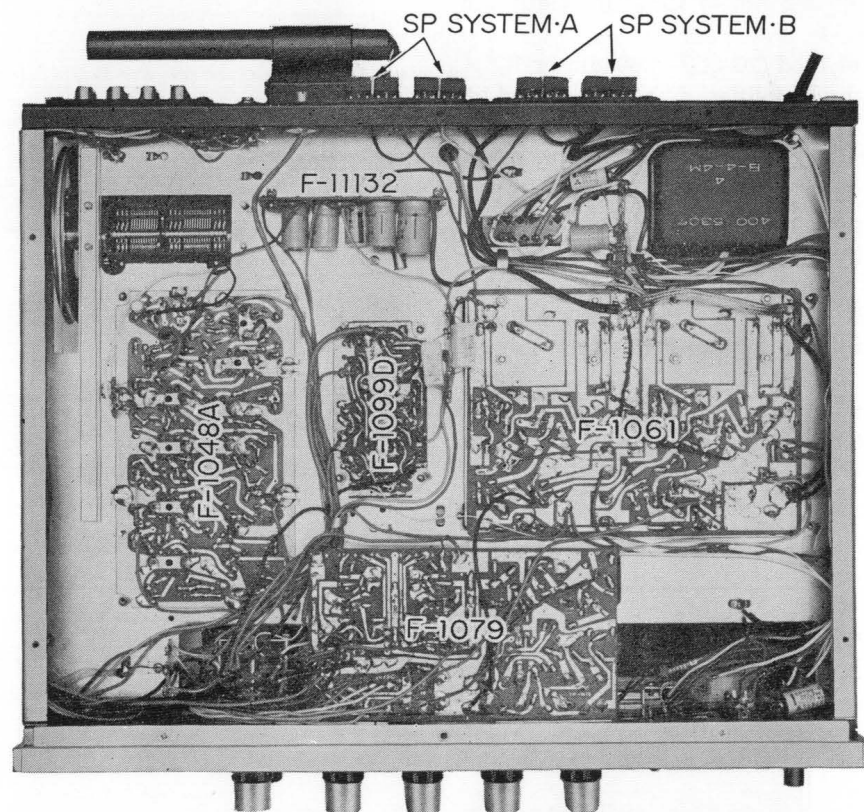
MOUNTING TEMPLATE

1. Make a cabinet window of 392 mm or $15\frac{7}{16}$ " in width and 107 mm or $4\frac{7}{32}$ " in height.
2. Place two square pieces of food ($20 \times 20 \times 280$ mm or $\frac{25}{32} \times \frac{25}{32} \times 11\frac{1}{32}$ ") for supporting the amplifier in bottom board of the cabinet.
3. Cut two holes for attachment bolts in the bottom board of the cabinet.
4. Remove the four rubber pads from the amplifier.
5. Place the amplifier in position through the cabinet window.
6. Make sure the amplifier is in position, then put the washers in butterfly bolts (supplied) and fix the amplifier to the cabinet with butterfly bolts.

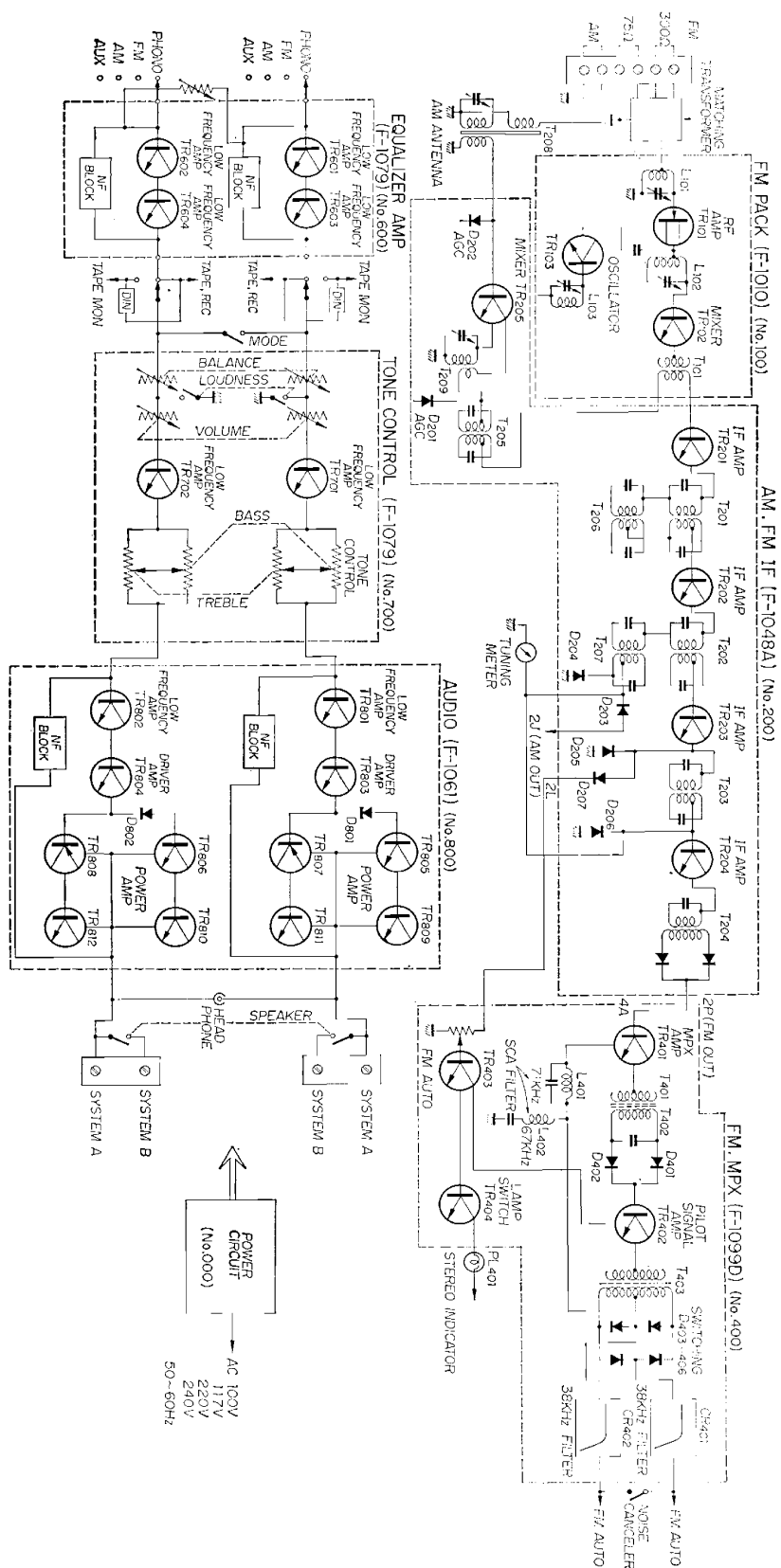
NOTE: When the amplifier is built into the cabinet, the four rubber pads are not used. Retain them for future use.



PARTS LAYOUT

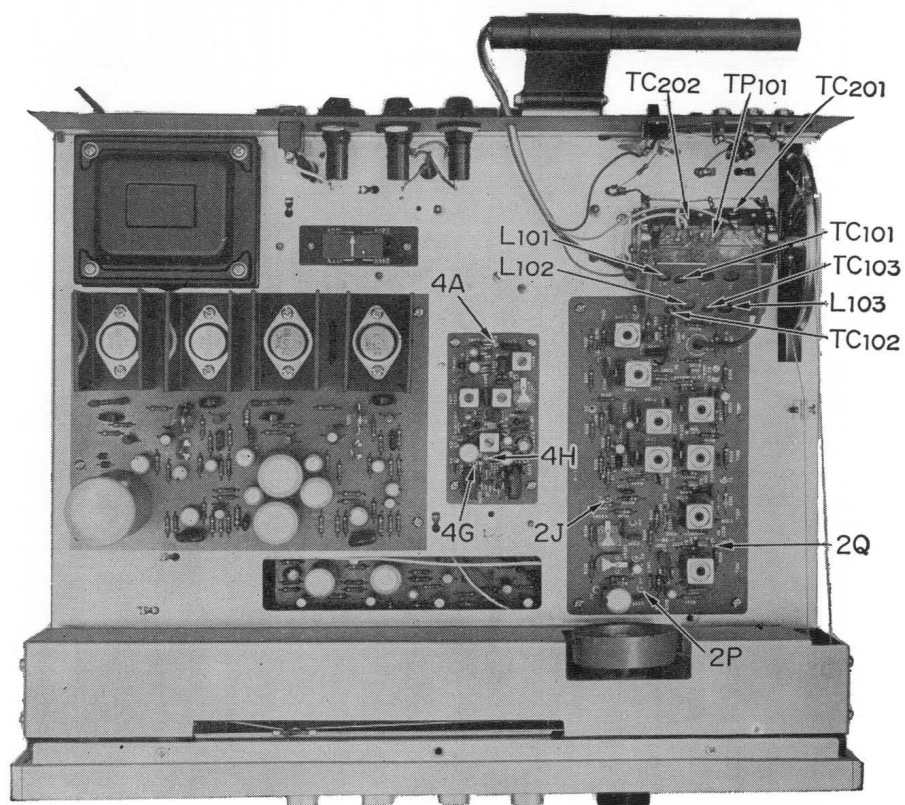
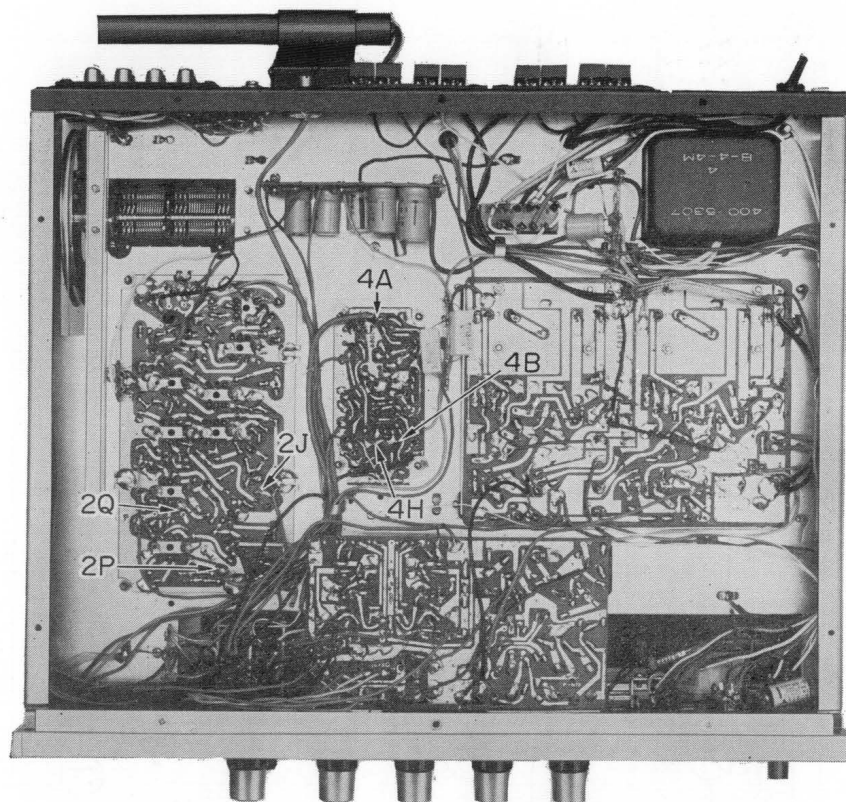


BLOCK DIAGRAM



ALIGNMENT

TEST POINT

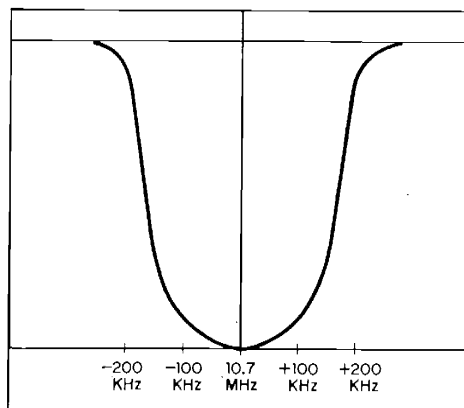


FM ALIGNMENT PROCEDURE

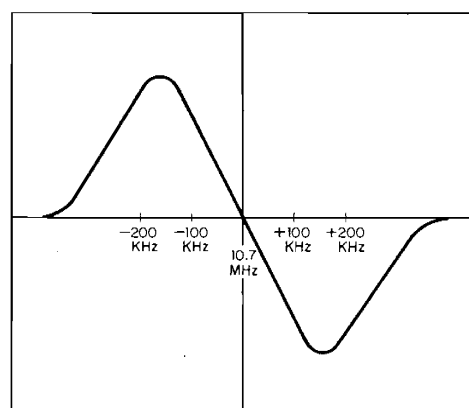
NOTE: To align, set the FM signal generator level to minimum turn tuning gang fully, center carrier wave, and set pointer to reference mark.

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 0.02pF ceramic capacitor	Oscilloscope is connected to TR ₂₀₄ emitter, and then TR ₂₀₄ collector to ground via the 0.05 μ F ceramic capacitor		Primary and secondary sides of T ₁₀₁ , T ₂₀₁ , T ₂₀₂ and T ₂₀₃	Best I.F.T. wave form
2.	Discrimin- ator	10.7 MHz ± 200 kHz	Sweep signal is sent to 2Q via the 0.05 μ F ceramic capacitor	Oscilloscope is connected to 2P via the 0.05 μ F capacitor		FM Discriminator transformer T ₂₀₄ primary and secondary	S curve
3.	O.S.C.	88 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	88 MHz	O.S.C. coil L ₁₀₃	Maximum
4.	O.S.C.	108 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	108 MHz	O.S.C. trimmer TC ₁₀₃	Maximum
5.	Repeat 3&4						
6.	RF Amp Circuit	90 MHz 400 Hz 100% Modulation	To antenna terminnls	Oscilloscope and V.T.V.M. at output load	90 MHz	Antenna coil L ₁₀₁ , L ₁₀₂	Maximum
7.	RF Amp. Circuit	106 MHz 400 Hz 100% Modulation	To antenna terminnls	Oscilloscope and V.T.V.M. at output load	106 MHz	Trimmer TC ₁₀₁ , TC ₁₀₂	Maximum
8.	Repeat 6&7						

FM IF CHARACTERISTIC



FM DISCRIMINATOR CHARACTERISTIC



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

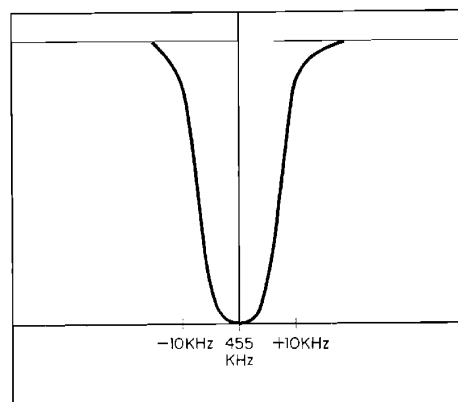
STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	ADJUST	ADJUST FOR
1.	67 kHz Trap	67 kHz Audio Signal	Connect to TP _{4A}	V.T.V.M. at TP ₄	T ₄₀₄	Minimum
2.	19 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4I	T ₄₀₁ , T ₄₀₂	Maximum
3.	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 4G	T ₄₀₃	Maximum
4.	38 kHz Transformer 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 ₄₀₃ within ¼ turn and Separation VR (VR ₆₀₁)	Channel-R Minimum

AM ALIGNMENT PROCEDURE

NOTE: To align, set the AM 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. is connected to 2I		Primary and secondary sides from the 1st I.F.T. (T ₂₀₅) to the 3rd I.F.T. (T ₂₀₇)	Best I.F.T. wave form
2.	O.S.C.	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	O.S.C. Coil T ₂₀₉	Maximum
3.	O.S.C	AM-generator 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400 kHz	O.S.C. Trimmer cap TC ₂₀₂	Maximum
4.	Repeat 2 and 3						
5.	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 coil L ₂₀₈	Maximum
6.	Antenna circuit	AM-generator 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400 kHz	Antenna circuit Trimmer TC ₂₀₁	Maximum
7.	Repeat 5 and 6						

AM IF CHARACTERISTIC



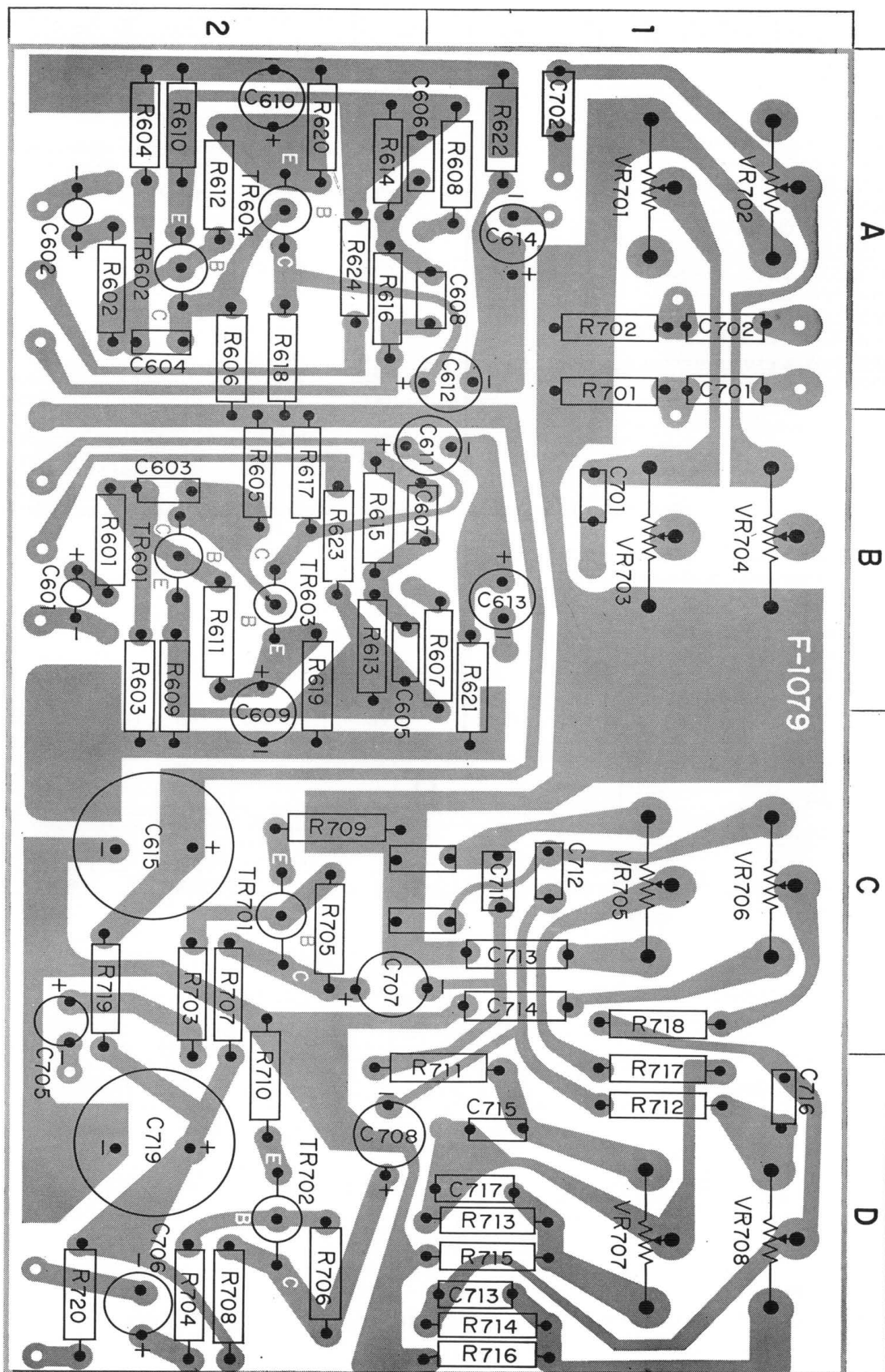
PRINTED CIRCUIT SHEETS AND PARTS LIST

EQUALIZER PRE-AMP UNIT <F-1079>

X	Y	Z
R601	1k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 B
R602	1k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 A
R603	220k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 B
R604	220k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 A
R605	180k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 B
R606	180k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 A
R607	270 Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 B
R608	270 Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 A
R609	680 Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 B
R610	680 Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 A
R611	330k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 B
R612	330k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 A
R613	820k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 B
R614	820k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 A
R615	39k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 B
R616	39k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 A
R617	12k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 B
R618	12k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 A
R619	2.2k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 B
R620	2.2k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 A
R621	1M Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 B
R622	1M Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 A
R623	3.3k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 B
R624	3.3k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 A
R701	15k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 B
R702	15k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 A
R703	1k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 C
R704	1k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 D
R705	1M Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 C
R706	1M Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 D
R707	15k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 C
R708	15k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 D
R709	680 Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 C
R710	680 Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 D
R711	18k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 D
R712	18k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 D
R713	22k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 D
R714	22k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 D
R715	3.3k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 D
R716	3.3k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 D
R717	12k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 D
R718	12k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1 C
R719	2.2k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 C
R720	5.6k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2 D
C601	1.5 μ F 3 WV Tantalum Capacitor	2 B
C602	1.5 μ F 3 WV Tantalum Capacitor	2 A
C603	4.7 pF $\pm$ 10% 50WV Ceramic Capacitor	2 B
C604	4.7 pF $\pm$ 10% 50WV Ceramic Capacitor	2 A
C605	0.0047 μ F $\pm$ 10% 50WV Mylar Capacitor	2 B
C606	0.0047 μ F $\pm$ 10% 50WV Mylar Capacitor	2 A
C607	0.0018 μ F $\pm$ 10% 50WV Mylar Capacitor	2 B
C608	0.0018 μ F $\pm$ 10% 50WV Mylar Capacitor	2 A
C609	33 μ F 6.3WV Electrolytic Capacitor	2 B
C610	33 μ F 6.3WV Electrolytic Capacitor	2 A
C611	3.3 μ F 25WV Electrolytic Capacitor	1 B
C612	3.3 μ F 25WV Electrolytic Capacitor	1 B

X: Parts No Y: Parts Name Z: Position of Parts
(Co-ordinate number and letter in printed circuit)

X	Y	Z
C613	3.3 μ F 25WV Electrolytic Capacitor	1 B
C614	3.3 μ F 25WV Electrolytic Capacitor	1 A
C615	330 μ F 25WV Mylar Capacitor	2 C
C701	0.022 μ F $\pm$ 10% 50WV Mylar Capacitor	1 B
C702	0.022 μ F $\pm$ 10% 50WV Mylar Capacitor	1 A
C703	180 pF $\pm$ 10% 60WV Ceramic Capacitor	1 B
C704	180 pF $\pm$ 10% 50WV Ceramic Capacitor	1 A
C705	1 μ F 50WV Electrolytic Capacitor	2 C
C706	1 μ F 50WV Electrolytic Capacitor	2 D
C707	3.3 μ F 25WV Electrolytic Capacitor	2 C
C708	3.3 μ F 26WV Electrolytic Capacitor	2 D
C711	0.1 μ F $\pm$ 10% 50WV Mylar Capacitor	1 C
C712	0.1 μ F $\pm$ 10% 50WV Mylar Capacitor	1 C
C713	0.0068 μ F $\pm$ 10% 50WV Mylar Capacitor	1 C
C714	0.0068 μ F $\pm$ 10% 50WV Mylar Capacitor	1 C
C715	0.01 μ F $\pm$ 10% 50WV Mylar Capacitor	1 D
C716	0.01 μ F $\pm$ 10% 50WV Mylar Capacitor	1 D
C717	0.1 μ F $\pm$ 10% 50WV Mylar Capacitor	1 D
C718	0.1 μ F $\pm$ 10% 50WV Mylar Capacitor	1 D
C719	220 μ F 35WV Electrolytic Capacitor	2 D
TR601	2SC-650 (B, C, D) (030510-1, 2, 3)	2 B
TR602	2SC-650 (B, C, D) (030510-1, 2, 3)	2 A
TR603	2SC-281 (B) (030512-1)	2 B
TR604	2SC-281 (B) (030512-1)	2 A
TR605	2SC-281 (C) (030512-2)	2 C
TR606	2SC-281 (C) (030512-2)	2 D
VR701	150k Ω (BH) $\times$ 2 (101032)	1 A
VR702		1 A
VR703	250k Ω (B) $\times$ 2 (101033)	1 B
VR704		1 B
VR705	100k Ω (A) $\times$ 2 (101031)	1 C
VR706		1 C
VR707	100k Ω (A) $\times$ 2 (101031)	1 D
VR708		1 D



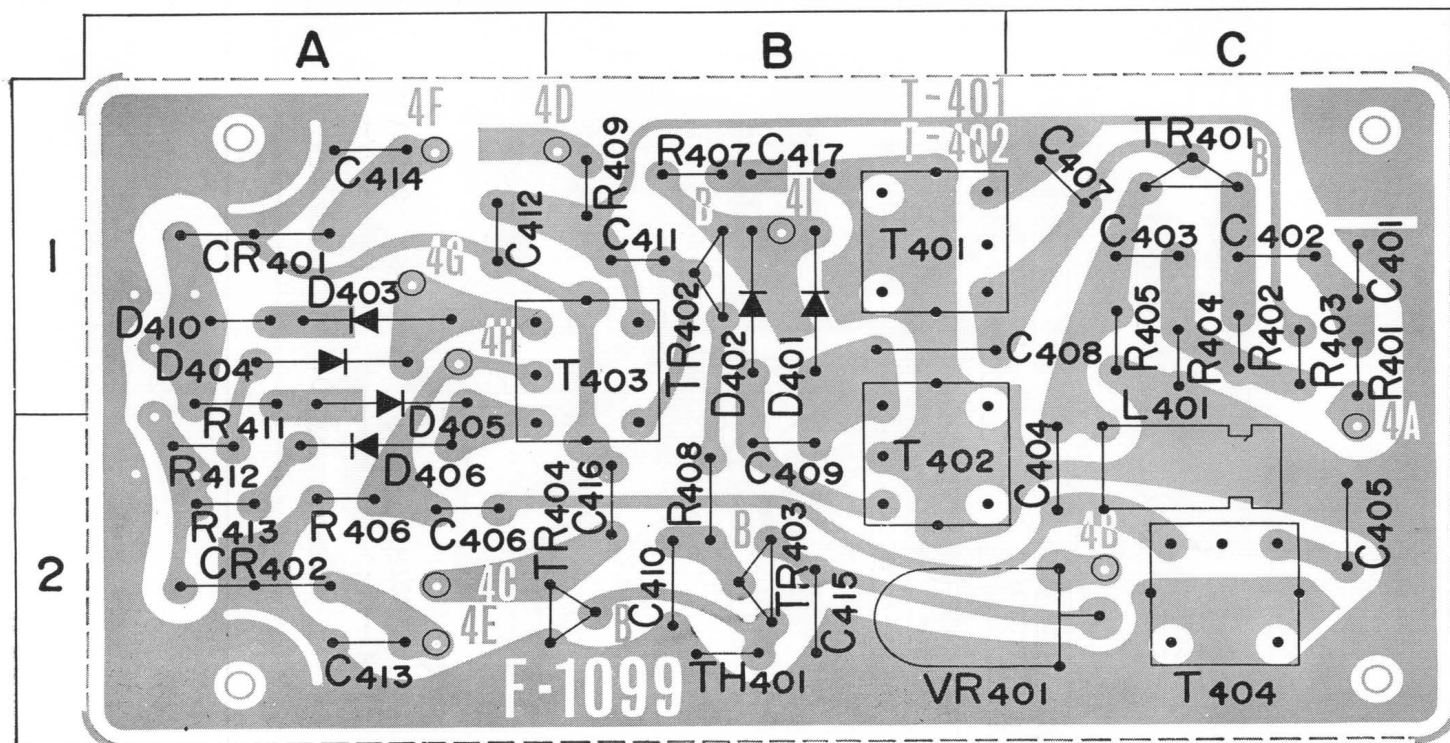
PRINTED CIRCUIT SHEETS AND PARTS LIST

FM MULTIPLEX & INDICATOR <F-1099>

X	Y	Z
R401	1k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1C
R402	22k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1C
R403	22k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1C
R404	8.2k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1C
R405	270 Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1C
R406	3.3k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2A
R407	18k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1B
R408	1.2k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2B
R409	47 Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1B
R410	22k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	1A
R411	22k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2A
R412	22k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2A
R413	22k Ω $\pm$ 10% $\frac{1}{4}$ W Carbon Resistor	2A
TH401	31D27 Thermistor (032003)	2A
C401	100pF $\pm$ 20% 50 WV Ceramic Capacitor	1C
C402	10 μ F 10 WV Electrolytic Capacitor (RB Type)	1C
C403	33 μ F 6.3 WV Electrolytic Capacitor (RB Type)	1C
C404	0.001 μ F $\pm$ 5% 50 WV Mica Capacitor	2C
C405	270pF $\pm$ 10% 50 WV Mica Capacitor	2C
C406	47 μ F 6.3 WV Electrolytic Capacitor (RB Type)	2A
C407	3300PF $\pm$ 5% 50 WV Styrol Capacitor	1C
C408	330pF $\pm$ 10% 50 WV Mica Capacitor	1B
C409	3300pF $\pm$ 5% 50 WV Styrol Capacitor	2B
C400	0.04 μ F $\pm$ 10% 50 WV Mylar Capacitor	2B
C411	1500pF $\pm$ 5% 50 WV Styrol Capacitor	1B

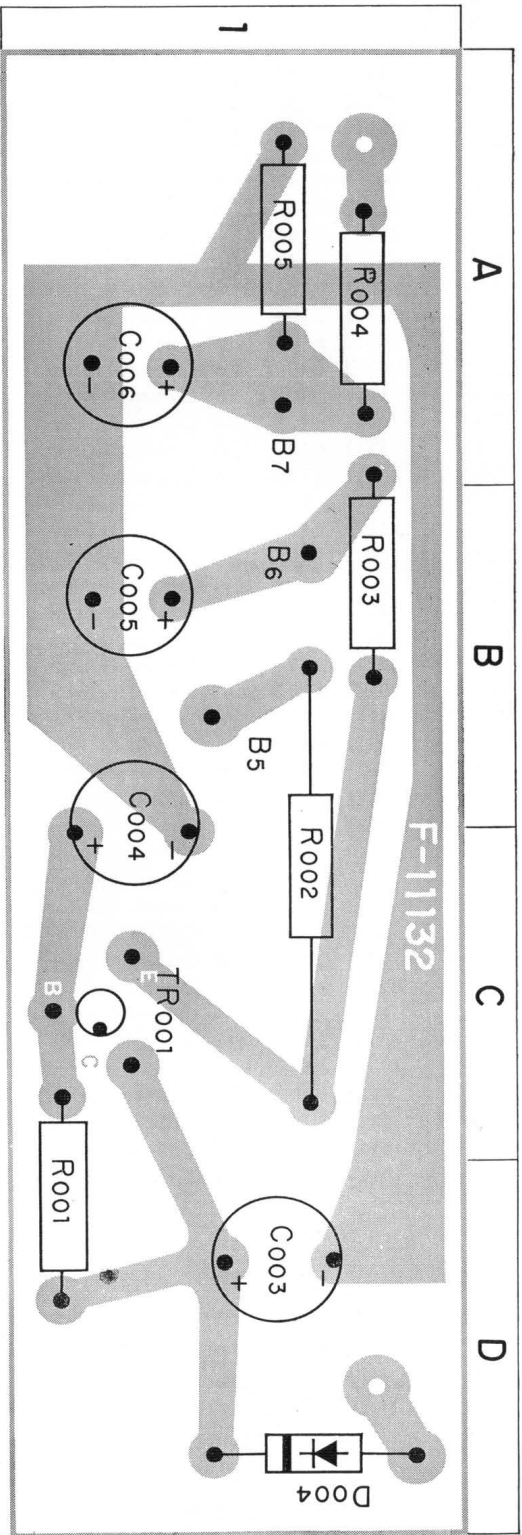
X: Parts No Y: Parts Name Z: Position of Parts
(Co-ordinate number and letter in printed circuit)

X	Y	Z
C412	100 μ F 16 WV Electrolytic Capacitor (RB Type)	1A
C413	0.0012 μ F $\pm$ 10% 50 WV Mylar Capacitor	2A
C414	0.0012 μ F $\pm$ 10% 50 WV Mylar Capacitor	1A
C415	0.02 μ F $\pm$ 100% 25 WV Ceramic Capacitor	2B
C416	10 μ F 10 WV Electrolytic Capacitor (RB Type)	2B
CR401	FP38A (080008)	1A
CR400	FP38A (080008)	2A
TR401	2SC537(G) (030544-2)	1C
TR402	2SC537(G) (030544-2)	1B
TR403	2SC537(G) (030544-2)	2B
TR404	2SD178T (030818-3)	2B
D401	IN34A (031040)	1B
D402	IN34A (031040)	1B
D403	IN34A (031040)	1A
D404	IN34A (031040)	1A
D405	IN34A (031040)	1A
D406	IN34A (031040)	2A
T401	19kC Tune (424030)	1B
T402	19kC Tune (424030)	2B
T403	38kC Tune (424031)	1A
T404	67kC Tune (424030)	2C
L401	71kC Tune (490003)	2C
VR401	Indicator Adjust 100k Ω (B) (103034)	2B



POWER UNIT <F-11132>

X	Y		Z
R001	10k Ω	$\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 D
R002	390 Ω	$\pm 10\%$ 2 W Carbon Resistor	1 C
R003	1.8k Ω	$\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 B
R004	220 Ω	$\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 A
R005	1.2k Ω	$\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 A
C003	100 μ F	50 WV Electrolytic Capacitor	1 D
C004	100 μ F	50 WV Electrolytic Capacitor	1 C
C005	220 μ F	16 WV Electrolytic Capacitor	1 B
C006	220 μ F	16 WV Electrolytic Capacitor	1 A
D004	10D-1 Diode	(031034)	1 D
TR001	2SC-281 Transistor	(030512-1, 2)	1 C



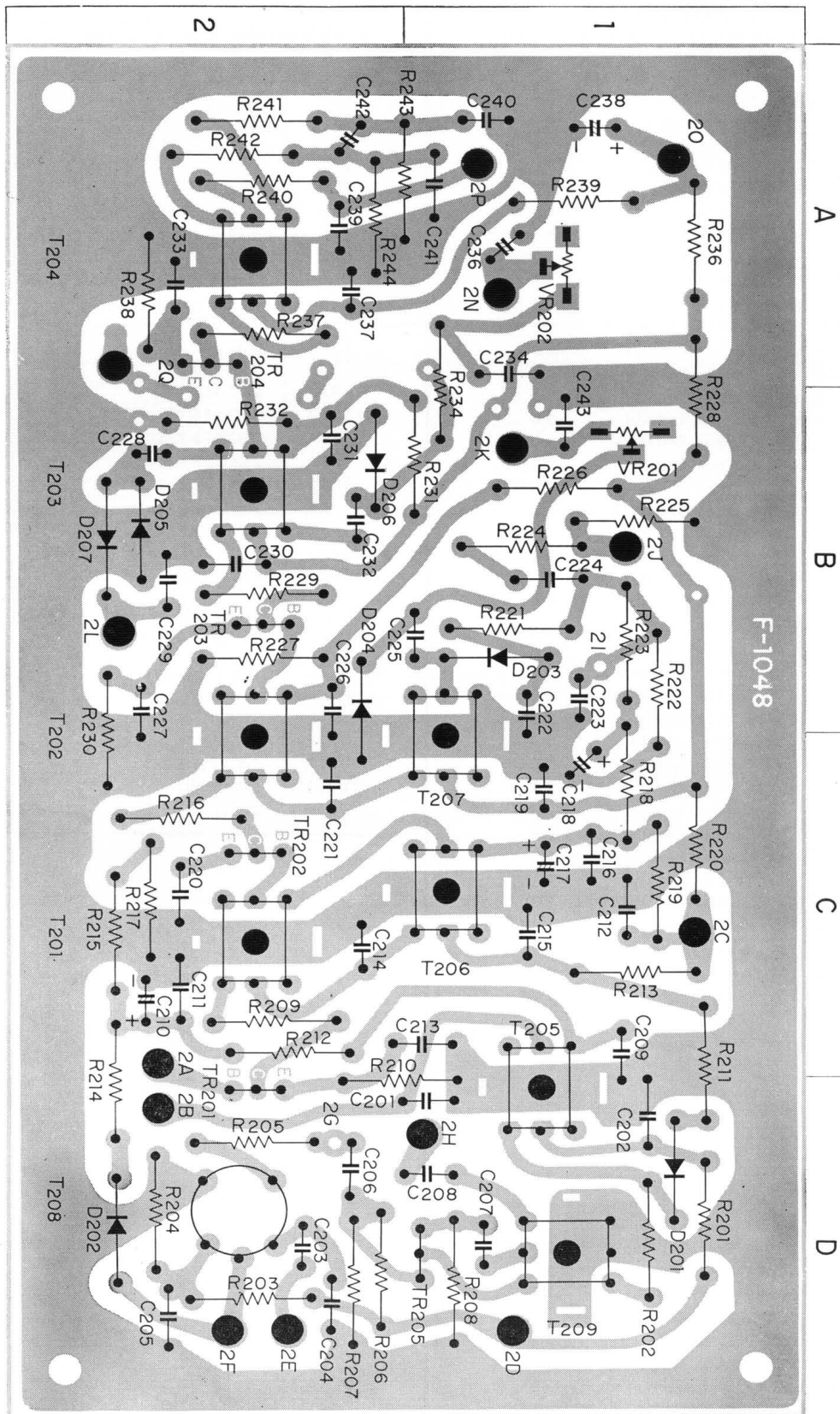
PRINTED CIRCUIT SHEETS AND PARTS LIST

AM-FM TUNER UNIT <F-1048A>

X	Y	Z
R201	1.8k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 D
R202	100 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 D
R203	6.8k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 D
R204	1k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R205	100 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 D
R206	68k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 D
R207	10k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 D
R208	1.2k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 D
R209	680 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 C
R210	560 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 D
R211	100 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 C
R212	1.5k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 C
R213	1k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 C
R214	100 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 C
R215	1.5k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 C
R216	680 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 C
R217	560 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 C
R218	3.3k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 C
R219	82k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 C
R220	22 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 C
R221	1k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 B
R222	22k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 B
R223	22k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 B
R224	10k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 B
R225	56k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 B
R226	12k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 B
R227	10k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 B
R228	22 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 B
R229	820 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 B
R230	1.2k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 B
R231	12k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 B
R232	6.8k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 B
R234	3.3k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 A
R236	22 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 A
R237	820 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 A
R238	1k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 A
R239	470 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 A
R240	100 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 A
R241	1k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 A
R242	1k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 A
R243	10k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	1 A
R244	10k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 A
C201	0.001 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 D
C202	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	1 D
C205	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 D
C206	0.02 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 D
C207	0.01 μ F $\pm 10\%$ 50WV Mylar capacitor	1 D
C208	350pF $\pm 10\%$ 50WV Mica capacitor	1 D
C210	1 μ F 50WV Electrolytic Capacitor	1 C
C211	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 C
C212	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	1 C
C213	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	1 C
C214	330pF $\pm 10\%$ 50WV Ceramic Capacitor	2 C

X: Parts No Y: Parts Name Z: Position of Parts
(Co-ordinate number and letter in printed circuit)

X	Y	Z
C215	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	1 C
C216	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	1 C
C217	4.7 μ F 16WV Electrolytic Capacitor	1 C
C218	1 μ F 50WV Electrolytic Capacitor	1 C
C219	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	1 C
C220	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 C
C221	330pF $\pm 10\%$ 50WV Ceramic Capacitor	2 C
C222	0.022 μ F $\pm 10\%$ 50WV Mylar Capacitor	1 B
C223	0.047 μ F $\pm 10\%$ 50WV Mylar Capacitor	1 B
C224	0.022 μ F $\pm 10\%$ 50WV Mylar Capacitor	1 B
C225	0.0022 μ F $\pm 10\%$ 50WV Mylar Capacitor	1 B
C226	0.02 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 B
C227	0.02 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 B
C228	4.7pF $\pm 10\%$ 50WV Ceramic Capacitor	2 B
C229	0.02 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 B
C230	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 B
C231	0.02 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 B
C232	3.3pF $\pm 10\%$ 50WV Ceramic Capacitor	2 B
C233	0.02 μ F $\pm 100\%$ 50WV Electrolytic Capacitor	2 A
C234	0.02 μ F $\pm 100\%$ 50WV Ceramic Capacitor	1 A
C237	0.02 μ F $\pm 100\%$ 50WV Ceramic Capacitor	2 A
C238	220 μ F 16WV Ceramic Capacitor	1 A
C239	100pF $\pm 10\%$ 50WV Ceramic Capacitor	1 A
C240	220pF $\pm 10\%$ 50WV Ceramic Capacitor	1 A
C241	220pF $\pm 10\%$ 50WV Ceramic Capacitor	1 A
C242	4.7 μ F $\pm 10\%$ 16WV Electrolytic Capacitor	2 A
C243	0.04 μ F $\pm 100\%$ 50WV Ceramic Capacitor	1 B
TR201	2SC-460 (C) (030535-1)	2 D
TR202	2SC-460 (C) (030535-1)	2 C
TR203	2SC-460 (B) (030535)	2 B
TR204	2SC-460 (B) (030535)	2 A
TR205	2SC-460 (C) (030535-1)	1 D
D201	IN-34A Diode (031040)	1 D
D202	IN-34A Diode (031040)	2 D
D203	IN-34A Diode (031040)	1 B
D204	IN-34A Diode (031040)	2 B
D205	IN-60 Diode (031033)	2 B
D206	IN-60 Diode (031033)	2 B
D207	IN-60 Diode (031033)	2 B
T201	FM 10.7MHz IFT (423531)	2 C
T202	FM 10.7MHz IFT (423528)	2 B
T203	FM 10.7MHz IFT (423528)	2 B
T204	FM Detector Transformer (423518)	2 A
T205	AM 455kHz IFT (423021)	1 D
T206	AM 455kHz IFT (423020)	2 C
T207	AM 455kHz IFT (423022)	2 C
T209	AM OSC Coil (422007)	1 D
VR201	20k Ω (B) (103046)	1 B
VR202	20k Ω (B) (103046)	1 A



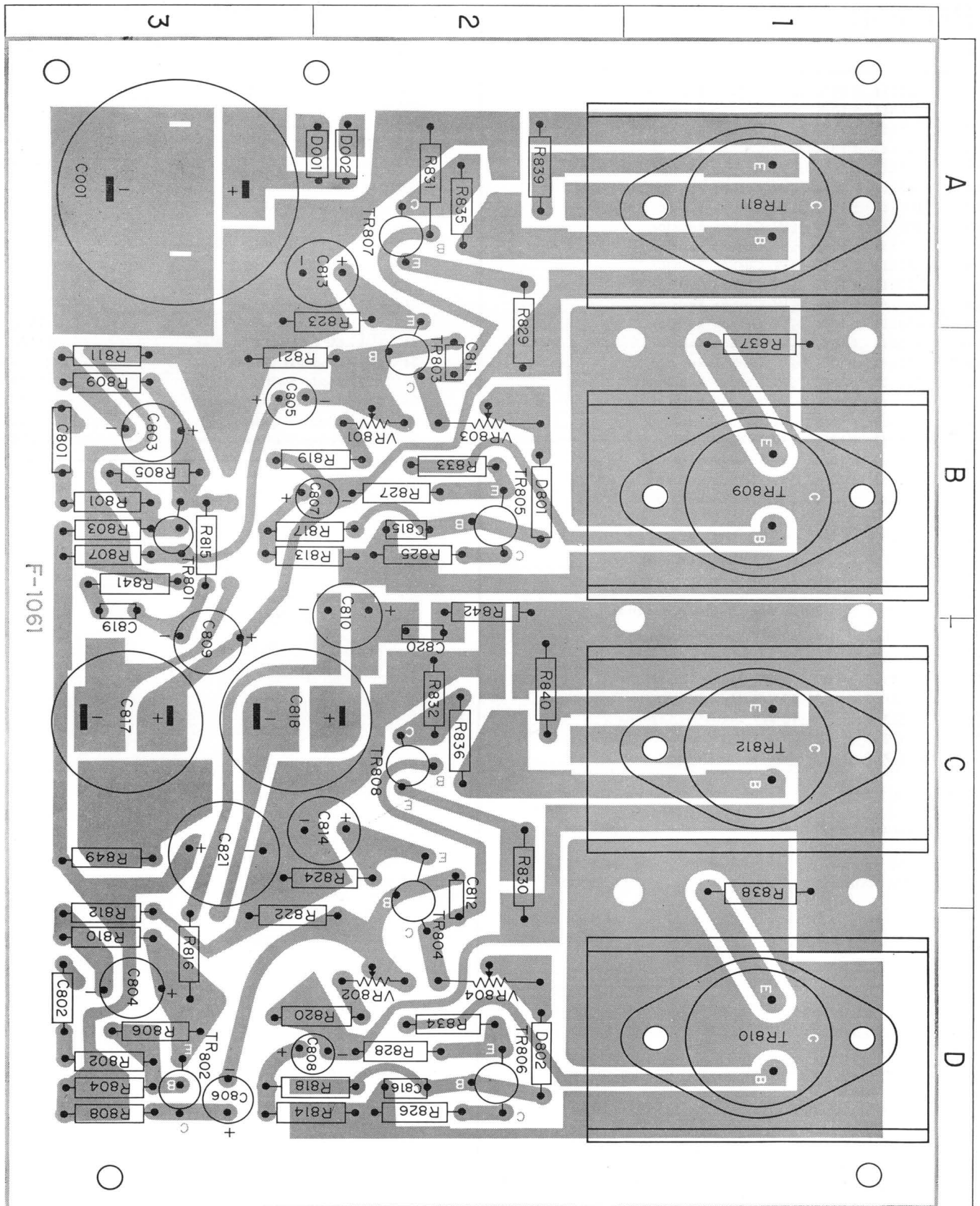
PRINTED CIRCUIT SHEETS AND PARTS LIST

MAIN AMP UNIT <F-1061>

X	Y	Z
R801	4.7 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R802	4.7 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R803	680 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R804	680 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R805	100 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R806	100 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R807	2.2 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R808	2.2 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R809	2.7 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R810	2.7 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R811	470 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R812	470 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R813	1 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R814	1 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R815	27 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R816	27 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R817	3.3 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R818	3.3 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R819	100 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R820	100 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R821	27 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 B
R822	27 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 D
R823	330 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 A
R824	330 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 C
R825	47 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 B
R826	47 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 D
R827	270 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 B
R828	270 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 D
R829	47 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 A
R830	47 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 C
R831	270 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 A
R832	270 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 C
R833	10 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 B
R834	10 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 D
R835	10 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 A
R836	10 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	2 C
R837	0.5 Ω $\pm 20\%$ 3 W Wire-Wound	1 B
R838	0.5 Ω $\pm 20\%$ 3 W Wire-Wound	1 C
R839	0.5 Ω $\pm 20\%$ 3 W Wire-Wound	2 A
R840	0.5 Ω $\pm 20\%$ 3 W Wire-Wound	2 C
R841	6.8 Ω $\pm 10\%$ $\frac{1}{2}$ W Solid Resistor	3 B
R842	6.8 Ω $\pm 10\%$ $\frac{1}{2}$ W Solid Resistor	2 B
R849	3.9 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor	3 C
C801	0.22 μ F $\pm 10\%$ 50 WV Mylar Capacitor	3 B
C802	0.22 μ F $\pm 10\%$ 50 WV Mylar Capacitor	3 D
C803	100 μ F 6.3 WV Electrolytic Capacitor	3 B
C804	100 μ F 6.3 WV Electrolytic Capacitor	3 D
C805	1 μ F 50 WV Electrolytic Capacitor	3 B
C806	1 μ F 50 WV Electrolytic Capacitor	3 D
C807	4.7 μ F 50 WV Electrolytic Capacitor	2 B
C808	4.7 μ F 50 WV Electrolytic Capacitor	2 D
C809	1 μ F 50 WV Electrolytic Capacitor	3 C
C810	1 μ F 50 WV Electrolytic Capacitor	2 B
C811	100 pF $\pm 10\%$ 50 WV Mica Capacitor	2 B
C812	100 pF $\pm 10\%$ 50 WV Mica Capacitor	2 C
C813	100 μ F 6.3 WV Electrolytic Capacitor	2 A

X: Parts No Y: Parts Name Z: Position of Parts
(Co-ordinate number and letter in printed circuit)

X	Y	Z
C814	100 μ F 6.3 WV Electrolytic Capacitor	2 C
C815	150 pF $\pm 10\%$ 50 WV Mica Capacitor	2 B
C816	150 pF $\pm 10\%$ 50 WV Mica Capacitor	2 D
C817	1000 μ F 35 WV Electrolytic Capacitor	3 C
C818	1000 μ F 35 WV Electrolytic Capacitor	3 C
C819	0.047 μ F $\pm 10\%$ 50 WV Mylar Capacitor	3 C
C820	0.047 μ F $\pm 10\%$ 50 WV Mylar Capacitor	2 B
C821	220 μ F 50 WV Electrolytic Capacitor	3 C
C001	1500 μ F 63 WV Electrolytic Capacitor	3 A
TR801	2SC-649 (A, B) (030509,-1)	3 B
TR802	2SC-649 (A, B) (030509,-1)	3 D
TR803	2SC-968 (030556)	2 B
TR804	2SC-968 (030556)	2 C
TR805	2SC-815(K, L, M) (030543,-1,-2)	2 B
TR806	2SC-815(K, L, M) (030543,-1,-2)	2 D
TR807	2SA-539(K, L, M) (030011,-1,-2)	2 A
TR808	2SA-539(K, L, M) (030011,-1,-2)	2 C
TR809	2SD-180(K, L, M) (2SD247) (030806-1, 2, 3)	1 B
TR810	2SD-180(K, L, M) (2SD247) (030806-1, 2, 3)	1 D
TR811	2SD-180(K, L, M) (2SD247) (030806-1, 2, 3)	1 A
TR812	2SD-180(K, L, M) (2SD247) (030806-1, 2, 3)	1 C
D801	SV-02 Varistor (031049)	2 B
D802	SV-02 Varistor (031049)	2 D
D001	10D-1 Diode (031034)	2 A
D002	10D-1 Diode (031034)	2 A
VR801	200 k Ω (B) (103045)	2 B
VR802	200 k Ω (B) (103045)	2 D
VR803	200 Ω (B) (103012)	2 B
VR804	200 Ω (B) (103012)	2 D



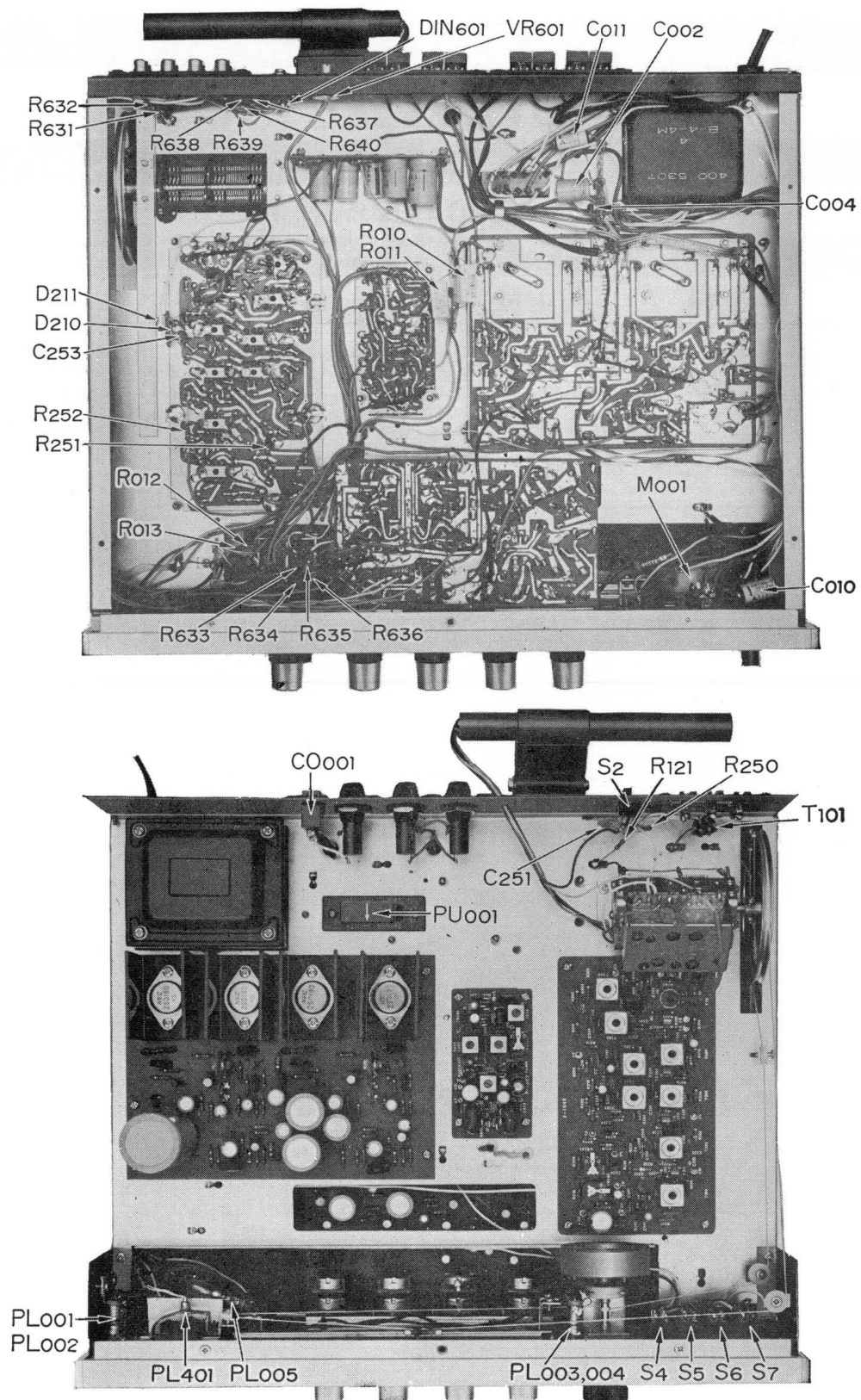
OTHER PARTS CHART AND LIST

OTHER PARTS LIST

X	Y
R120	820 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R121	68 Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R251	1 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R252	47 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R631	56 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R632	56 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R633	100 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R634	100 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R635	33 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R636	33 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R637	100 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R638	100 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R639	470 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R640	470 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R641	12 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R642	12 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R851	390 Ω $\pm 10\%$ $\frac{1}{2}$ W Solid Resistor
R852	390 Ω $\pm 10\%$ $\frac{1}{2}$ W Solid Resistor
R010	180 Ω $\pm 10\%$ 3 W Wire-Wound
R011	180 Ω $\pm 10\%$ 3 W Wire-Wound
R012	1 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
R013	1 k Ω $\pm 10\%$ $\frac{1}{4}$ W Carbon Resistor
C120	0.02 μ F $\frac{+100\%}{-0\%}$ 50 WV Ceramic Capacitor
C121	0.02 μ F $\frac{+100\%}{-0\%}$ 50 WV Ceramic Capacitor
C251	0.02 μ F $\frac{+100\%}{-0\%}$ 50 WV Ceramic Capacitor
C252	4.7 pF $\frac{+100\%}{-0\%}$ 50 WV Ceramic Capacitor
C253	0.001 μ F $\frac{+100\%}{-0\%}$ 50 WV Ceramic Capacitor
C254	10 μ F 10 WV Electrolytic Capacitor
C255	0.0033 μ F $\pm 10\%$ 50 WV Mylar Capacitor
C423	0.001 μ F $\pm 10\%$ 50 WV Mylar Capacitor
C002	220 μ F 10 WV Electrolytic Capacitor
C010	0.022 μ F $\pm 10\%$ 600WV Oil Capacitor
C011	0.0047 μ F $\pm 10\%$ 600WV Oil Capacitor
VR601	2 k Ω (B) (100506)
PT001	Power Transformer (400041)
T101	FM Antenna (429002)
T208	AM Antenna (429002)
L201	RF Choke 3.5 μ H (429001-1)
L202	RF Choke 3.5 μ H (429001-1)
PL001	6.3V 0.25A (040008)
PL002	6.3V 0.25A (040008)
PL003	6.3V 0.25A (040008)
PL004	6.3V 0.25A (040008)
PL005	6.3V 0.25A (040008)
PL006	25V 90mA (040007)
PL007	25V 90mA (040007)
PL401	6.3V 30mA (040011)
F001	2A (043003)
F002	1.5A AGB (043010)
F003	1.5A AGB (043010)

X: Parts No Y: Parts Name

X	Y
M001	100 μ A Tuning Meter (090015)
PU001	(241008, 241009)
CO001	AC Consent (245001-1)
D210	1N-60 Diode (031033)
D211	1N-60 Diode (031033)
D004	10D-1 Diode (031034)
DIN601	Tape Recorder Connector (243004)
J001	Headphone Jack (243006)
S1a~f	Selector Switch (110316)
S2	Antenna Switch (111004)
S4	MPX Noise Canseler (117006)
S5	Loudness Switch (117006)
S6	Mode Switch (117006)
S7	Tape Monitor Switch (117006)
S8	Speaker Switch (112002)
S001	Power Switch (113009)





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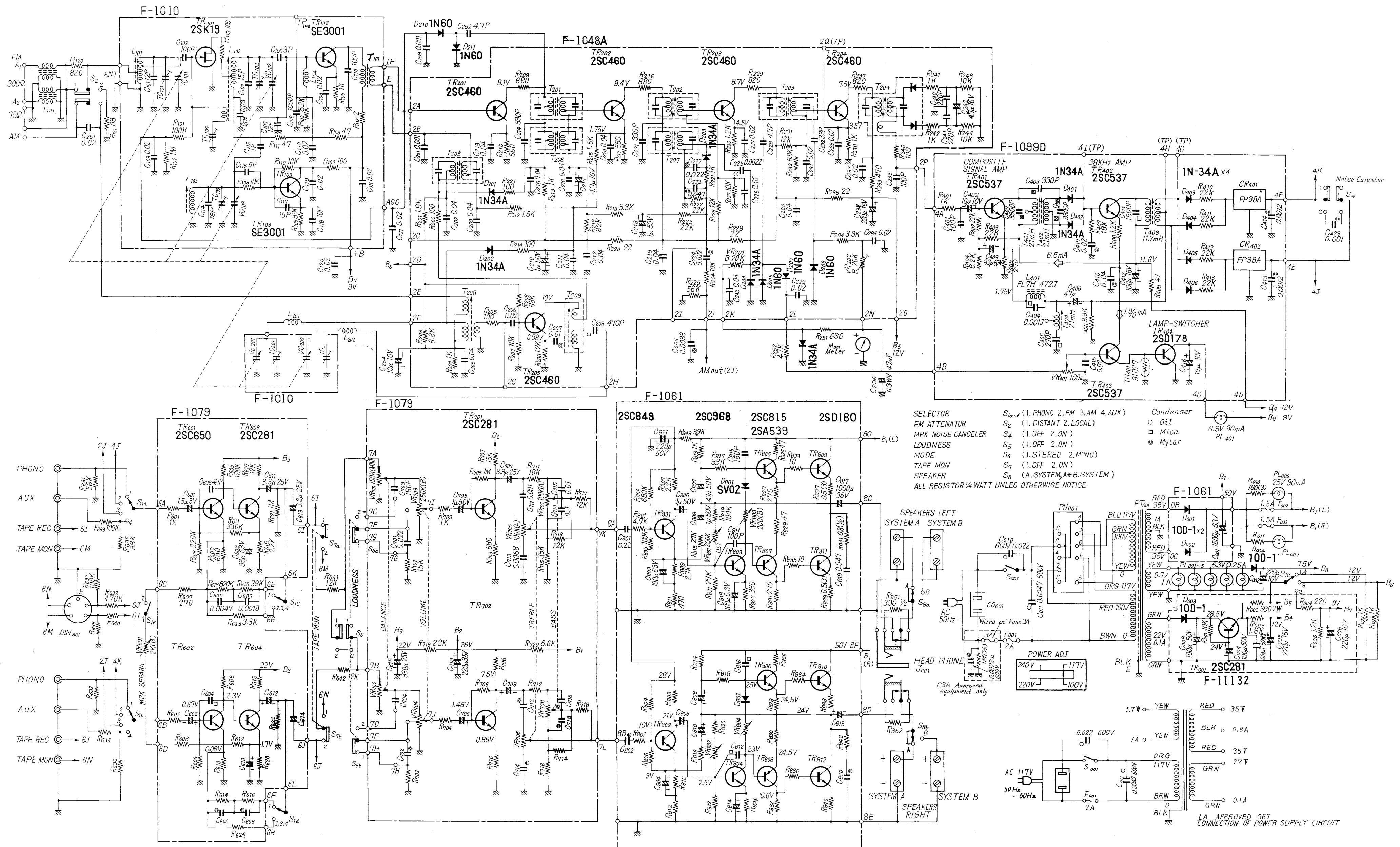
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SANSUI 350 SCHEMATIC DIAGRAM



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