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 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.

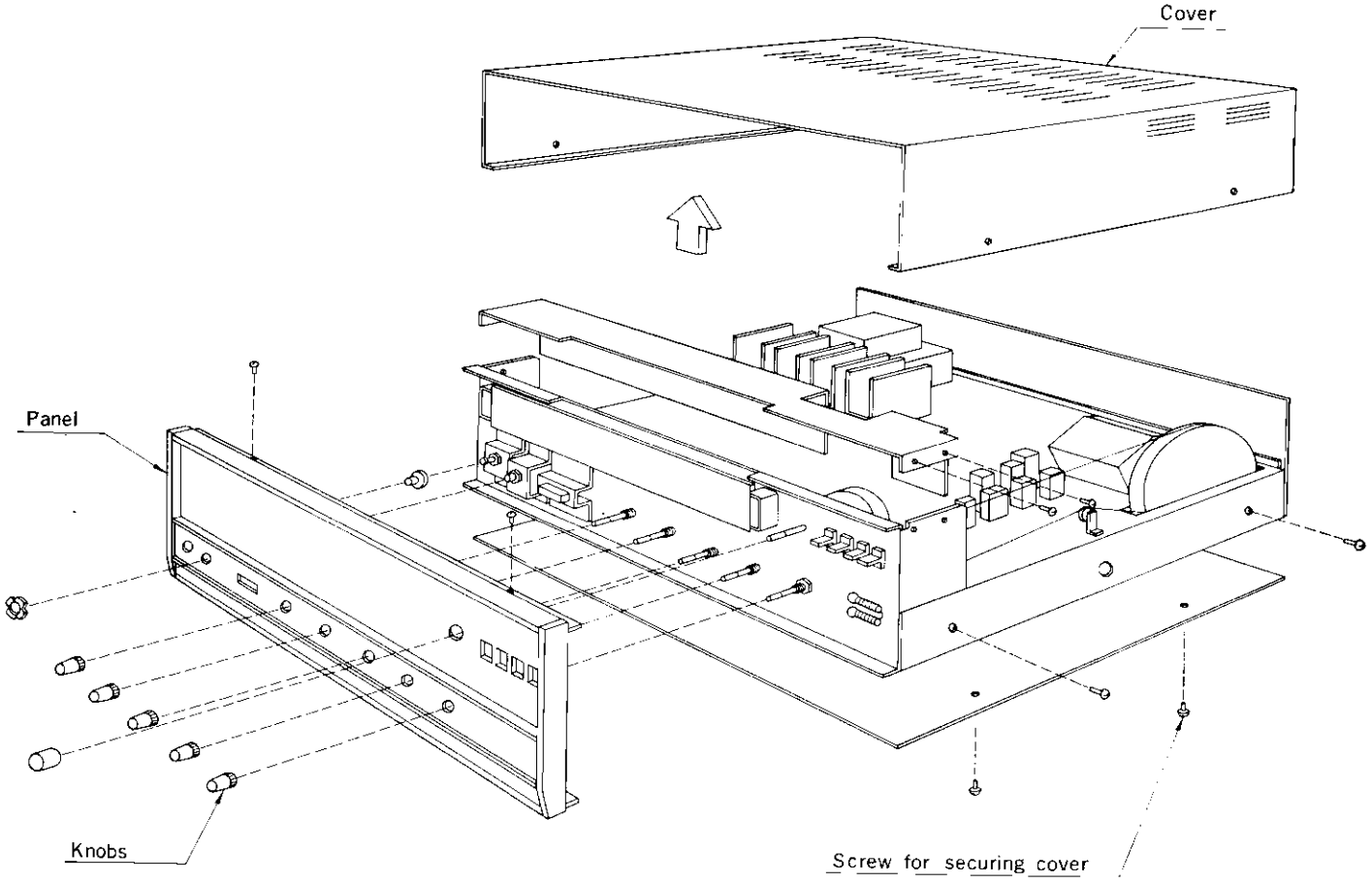
Following are some other common causes of malfunction and what to do about them:

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, attah 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.	* Although such noise cannot be eliminated by the amplifier, it is advisable to turn the TREBLE control from midpoint to left.
		* TV set is too close to the audio system.	* 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. 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.	* 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.

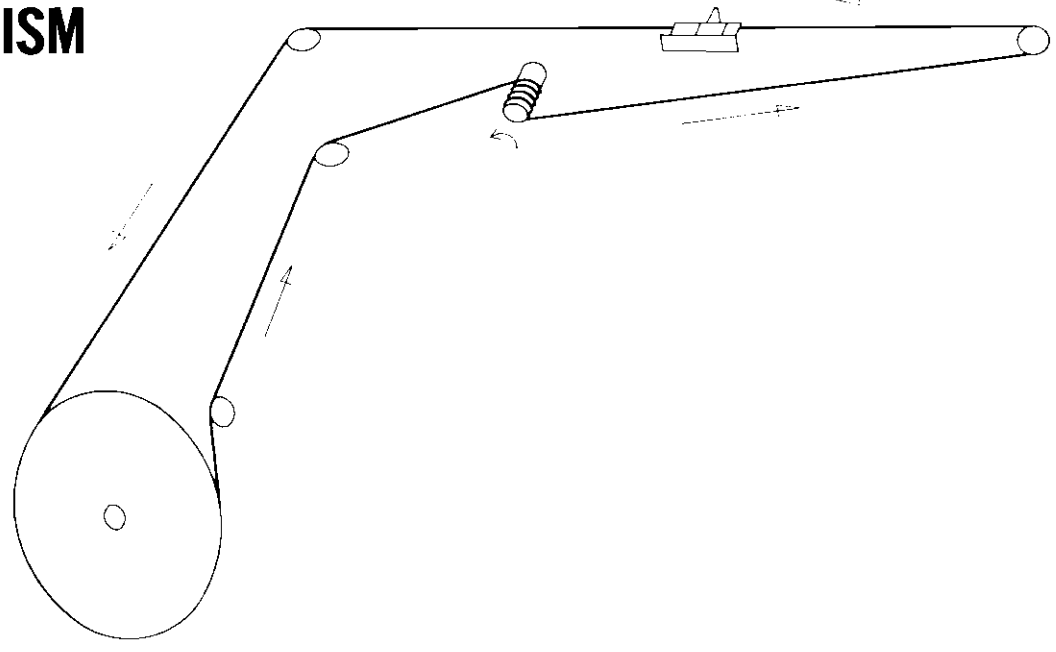
PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
FM reception (Cont'd)	B. "Scratch-like" noise is heard.	* Ignition noise caused by the starting of an automobile.	* Install the antenna and its lead-in wire away from the road or raise the antenna input as previously described.
	C. Tuning noise between stations.	* 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



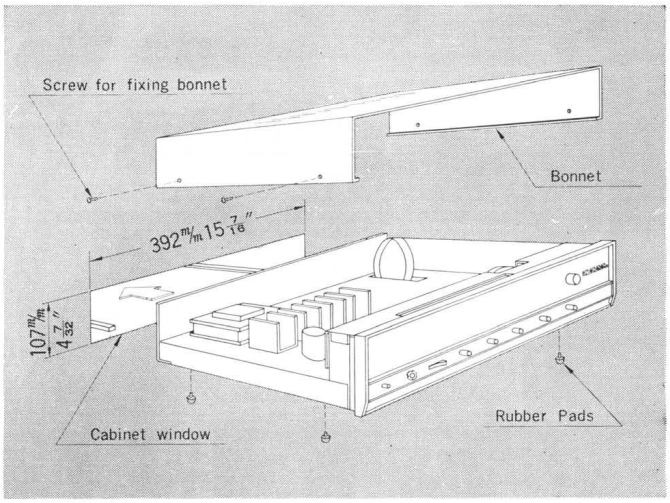
DIAL MECHANISM

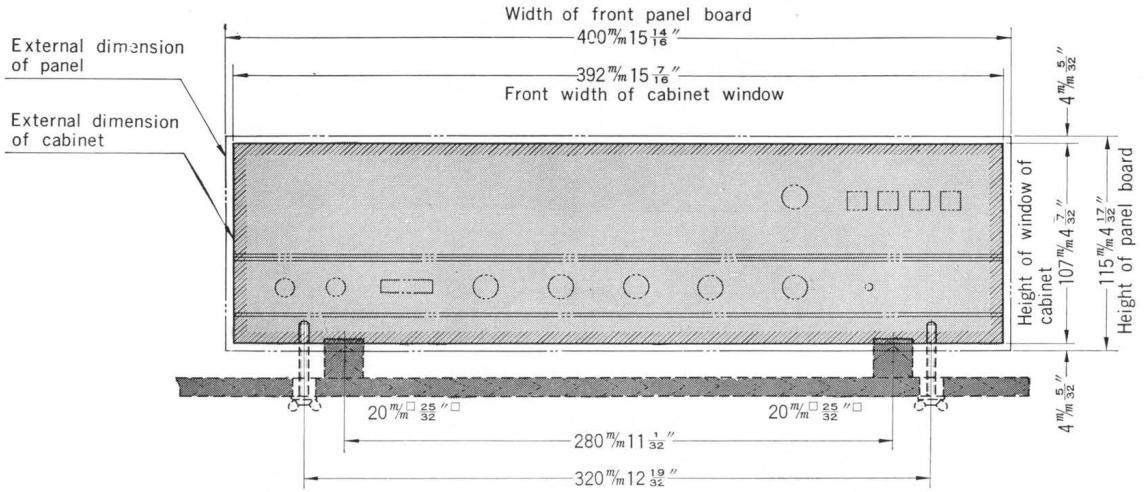


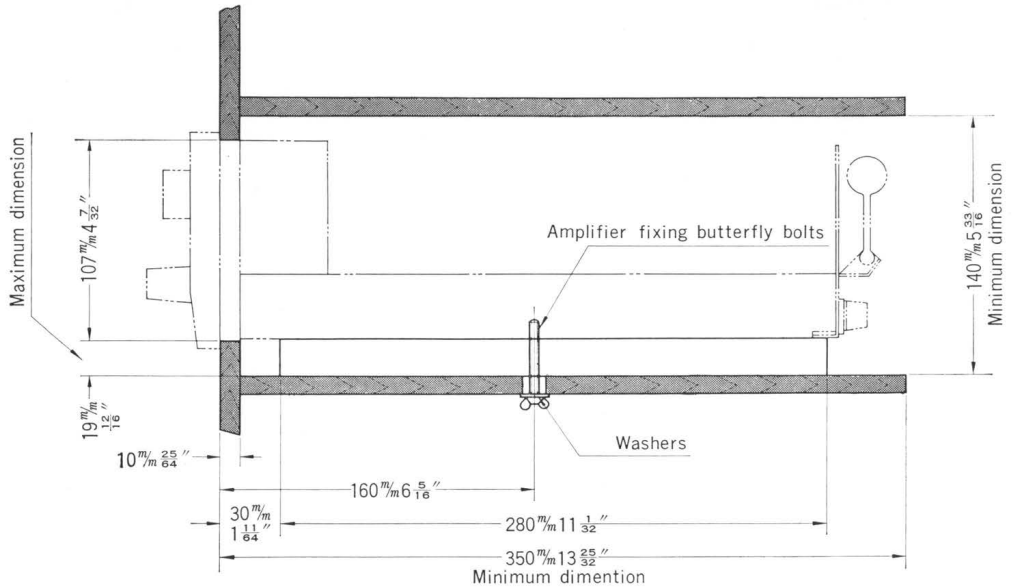
MOUNTING TEMPLATE

1. Make a cabinet window of 392 mm or 15 7/16″ in width and 107 mm or 4 7/32″ in height.
2. Place two square pieces of food (20 × 20 × 280 mm or 25/32″ × 25/32″ × 11 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 is 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.

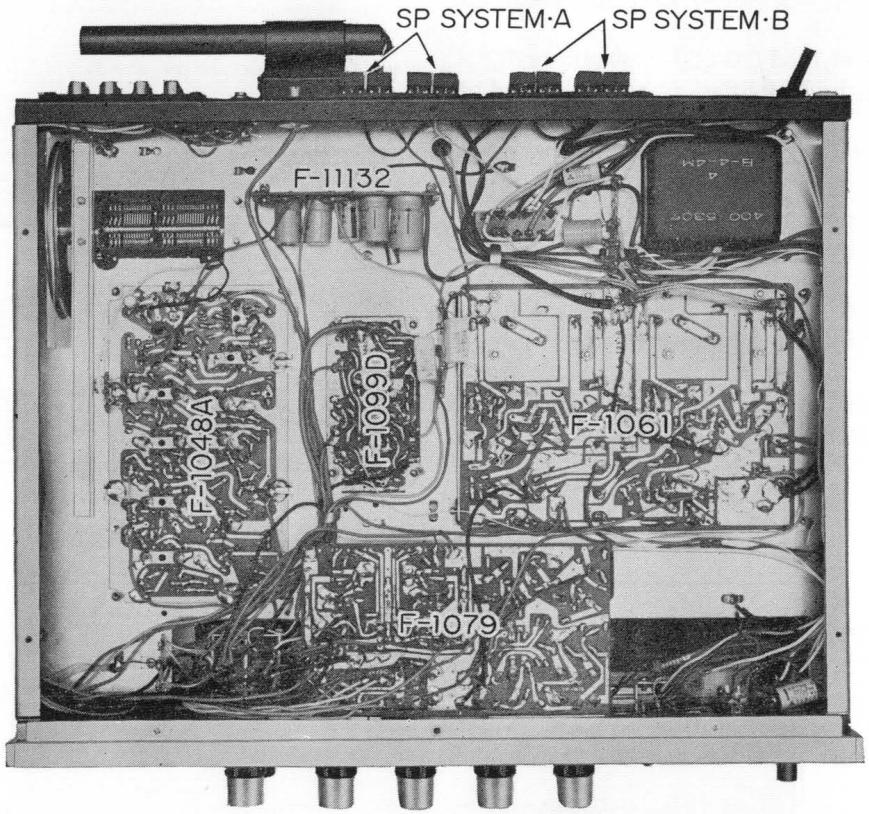
NOTE: When the amplifier is built into the cabinet, the four rubber pads are not used. Retain them for future use.

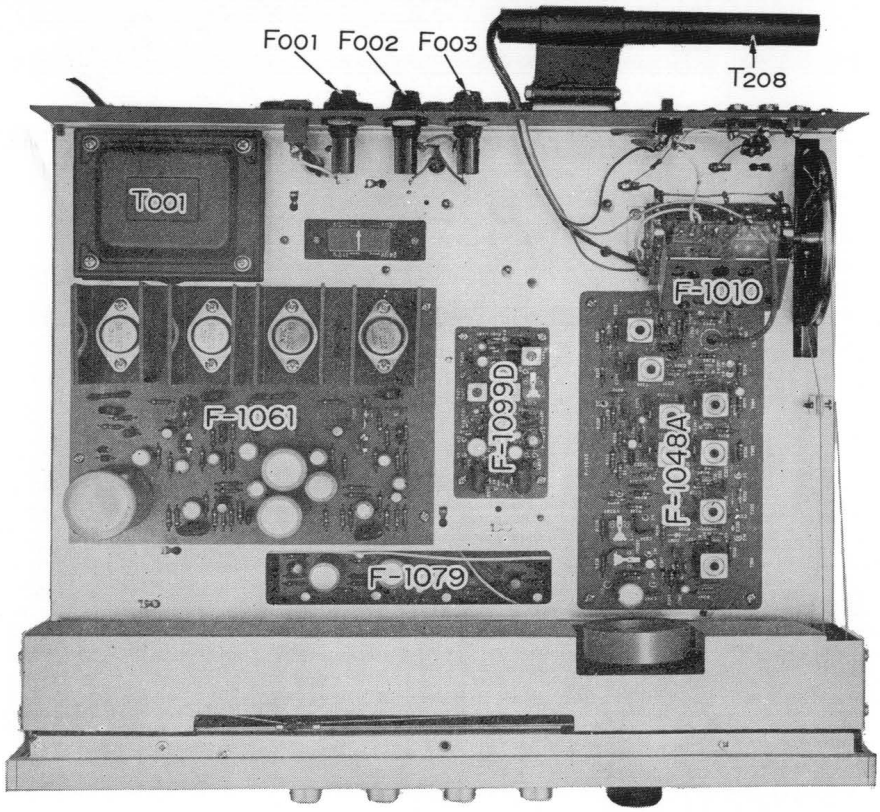




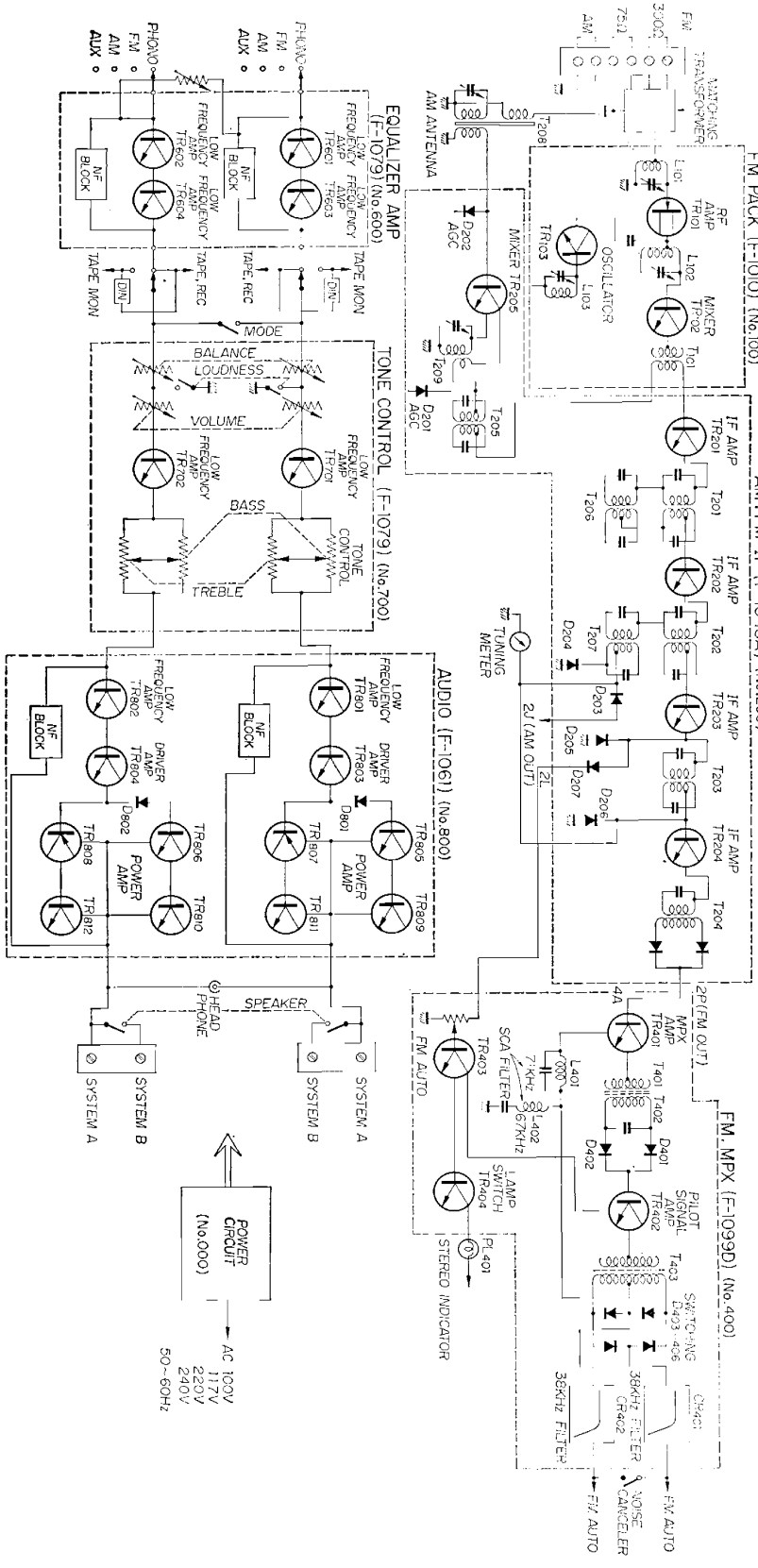


PARTS LAYOUT



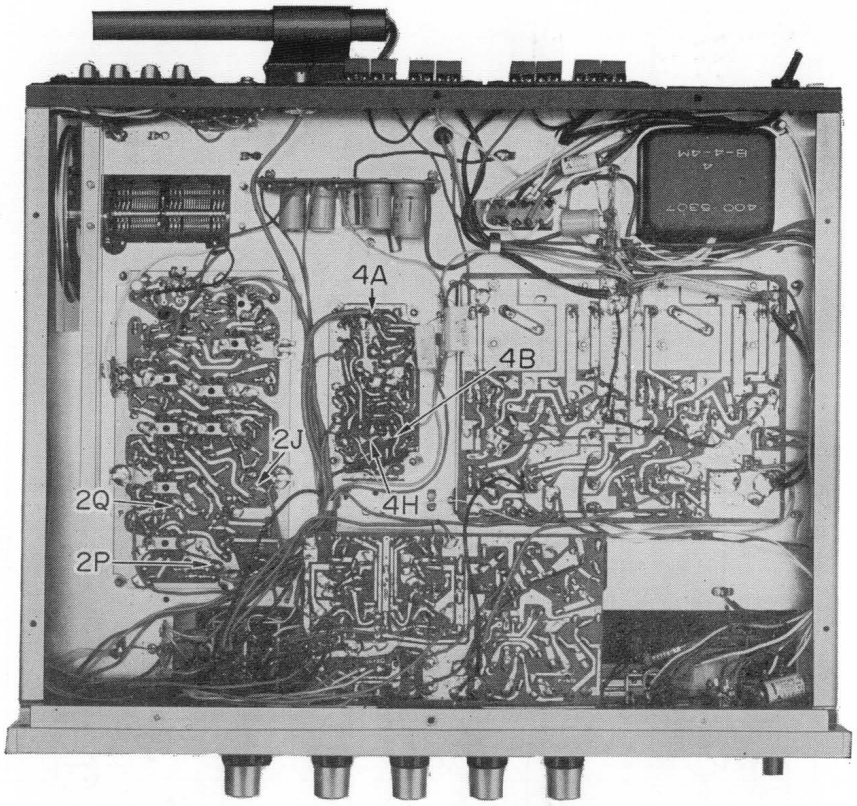


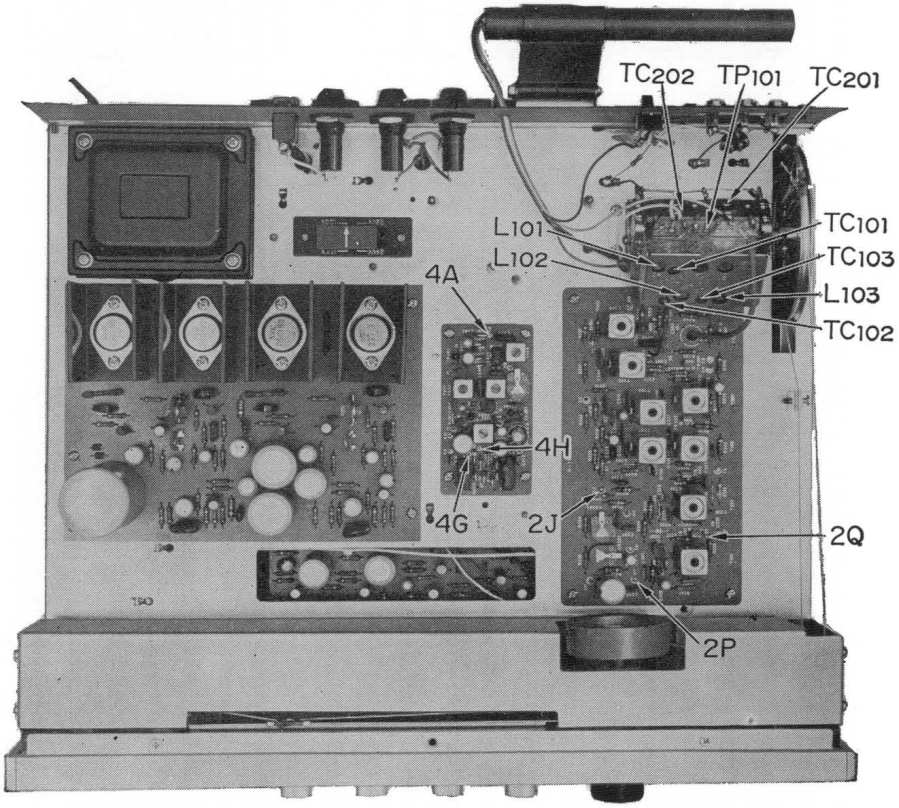
BLOCK DIAGRAM



ALIGNMENT

TEST POINT



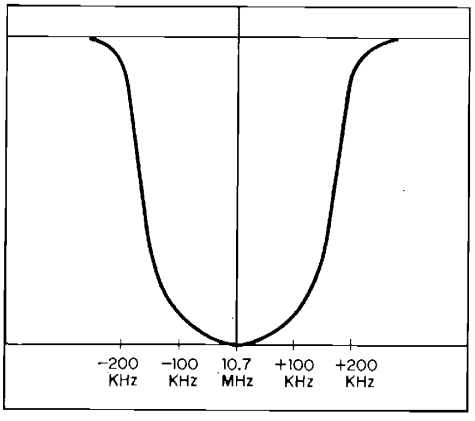


FM ALIGNMENT PROCEDURE

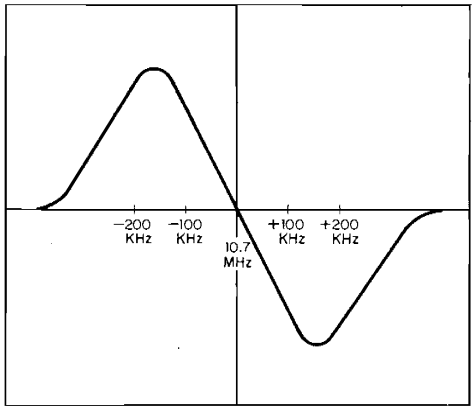
NOTE: To align, set the FM signal generator level to minimum turn tuning gang fully, center carrier wave, and set pointer to reference mark.

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF Transfromer	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 0.05μF ceramic capacitor		Primary and secondary sides of T_{101}, T_{201}, T_{202} and T_{203}	Best I.F.T. wave form
2.	Discriminator	10.7 MHz ±200 kHz	Sweep signal is sent to 2Q via the 0.05μF ceramic capacitor	Oscilloscope is connected to 2P via the 0.05μF 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

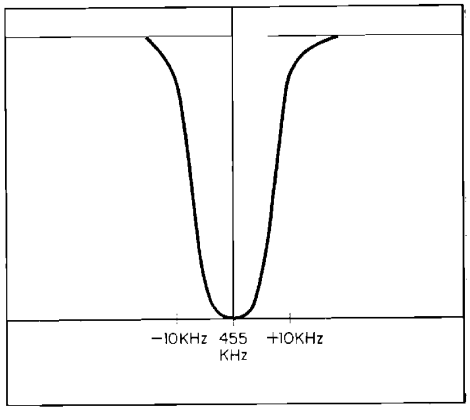
STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	ADJUST	ADJUST FOR
1.	67 kHz Trap	67 kHz Audio Signal	Connect to TP_{4A}	V.T.V.M. at TP_4	T_{404}	Minimum
2.	19 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4I	T_{401}, 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



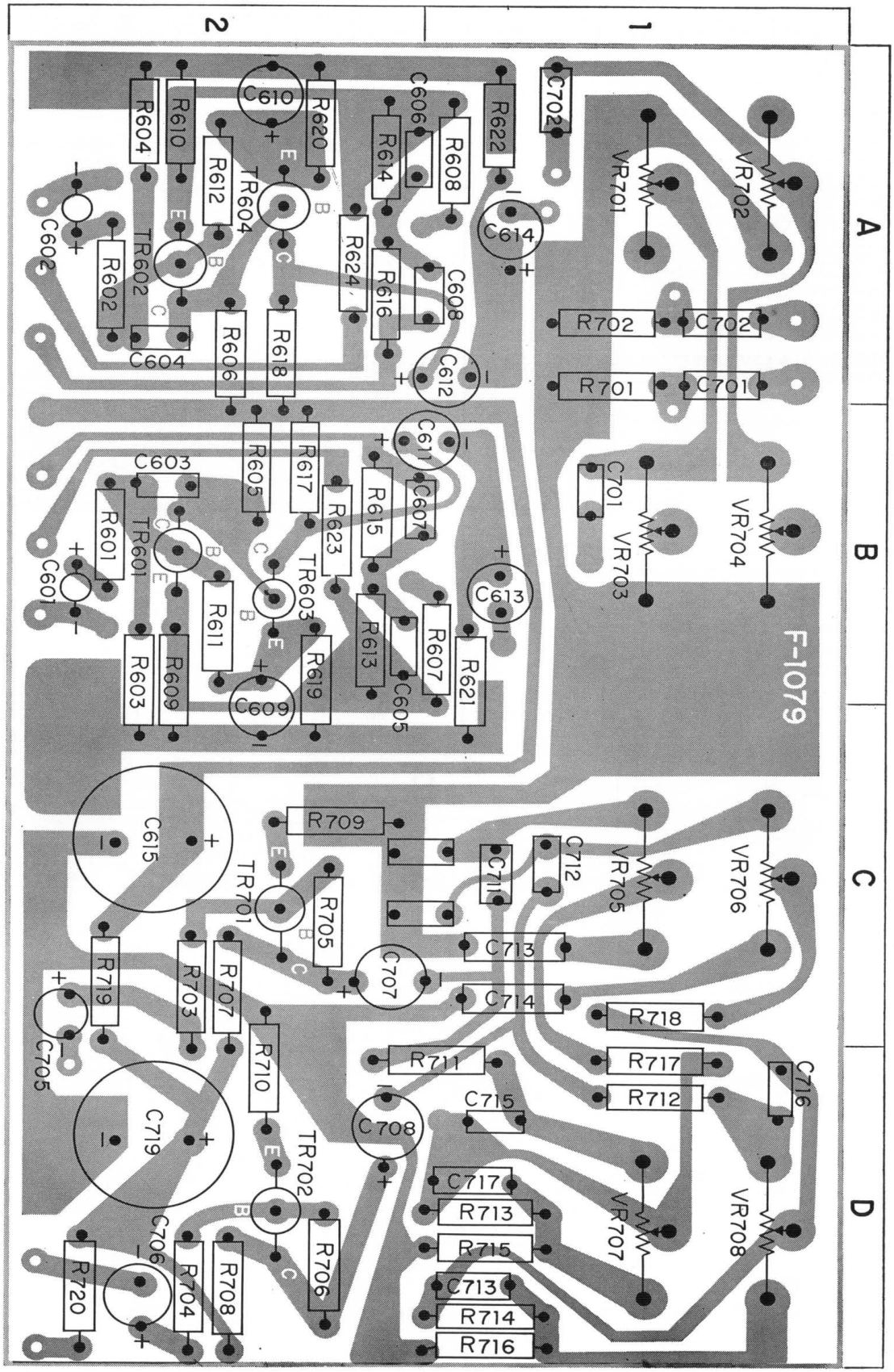
PRINTED CIRCUIT SHEETS AND PARTS LIST

EQUALIZER PRE-AMP UNIT ⟨F-1079⟩

X	Y	Z
R601	1kΩ ±10% ¼W Carbon Resistor	2 B
R602	1kΩ ±10% ¼W Carbon Resistor	2 A
R603	220kΩ ±10% ¼W Carbon Resistor	2 B
R604	220kΩ ±10% ¼W Carbon Resistor	2 A
R605	180kΩ ±10% ¼W Carbon Resistor	2 B
R606	180kΩ ±10% ¼W Carbon Resistor	2 A
R607	270Ω ±10% ¼W Carbon Resistor	1 B
R608	270Ω ±10% ¼W Carbon Resistor	1 A
R609	680Ω ±10% ¼W Carbon Resistor	2 B
R610	680Ω ±10% ¼W Carbon Resistor	2 A
R611	330kΩ ±10% ¼W Carbon Resistor	2 B
R612	330kΩ ±10% ¼W Carbon Resistor	2 A
R613	820kΩ ±10% ¼W Carbon Resistor	2 B
R614	820kΩ ±10% ¼W Carbon Resistor	2 A
R615	39kΩ ±10% ¼W Carbon Resistor	2 B
R616	39kΩ ±10% ¼W Carbon Resistor	2 A
R617	12kΩ ±10% ¼W Carbon Resistor	2 B
R618	12kΩ ±10% ¼W Carbon Resistor	2 A
R619	2.2kΩ ±10% ¼W Carbon Resistor	2 B
R620	2.2kΩ ±10% ¼W Carbon Resistor	2 A
R621	1MΩ ±10% ¼W Carbon Resistor	1 B
R622	1MΩ ±10% ¼W Carbon Resistor	1 A
R623	3.3kΩ ±10% ¼W Carbon Resistor	2 B
R624	3.3kΩ ±10% ¼W Carbon Resistor	2 A
R701	15kΩ ±10% ¼W Carbon ReRistor	1 B
R702	15kΩ ±10% ¼W Carbon Resistor	1 A
R703	1kΩ ±10% ¼W Carbon Resistor	2 C
R704	1kΩ ±10% ¼W Carbon Resistor	2 D
R705	1MΩ ±10% ¼W Carbon Resistor	2 C
R706	1MΩ ±10% ¼W Carbon Resistor	2 D
R707	15kΩ ±10% ¼W Carbon Resistor	2 C
R708	15kΩ ±10% ¼W Carbon Resistor	2 D
R709	680Ω ±10% ¼W Carbon Resistor	2 C
R710	680Ω ±10% ¼W Carbon Resistor	2 D
R711	18kΩ ±10% ¼W Carbon Resistor	2 D
R712	18kΩ ±10% ¼W Carbon Resistor	1 D
R713	22kΩ ±10% ¼W Carbon Resistor	1 D
R714	22kΩ ±10% ¼W Carbon Resistor	1 D
R715	3.3kΩ ±10% ¼W Carbon Resistor	1 D
R716	3.3kΩ ±10% ¼W Carbon Resistor	1 D
R717	12kΩ ±10% ¼W Carbon Resistor	1 D
R718	12kΩ ±10% ¼W Carbon Resistor	1 C
R719	2.2kΩ ±10% ¼W Carbon Resistor	2 C
R720	5.6kΩ ±10% ¼W Carbon Resistor	2 D
C601	1.5μF 3 WV Tantalum Capacitor	2 B
C602	1.5μF 3 WV Tantalum Capacitor	2 A
C603	4.7 pF ±10% 50WV Ceramic Capacitor	2 B
C604	4.7 pF ±10% 50WV Ceramic Capacitor	2 A
C605	0.0047μF ±10% 50WV Mylar Capacitor	2 B
C606	0.0047μF ±10% 50WV Mylar Capacitor	2 A
C607	0.0018μF ±10% 50WV Mylar Capacitor	2 B
C608	0.0018μF ±10% 50WV Mylar Capacitor	2 A
C609	33μF 6.3WV Electrolytic Capacitor	2 B
C610	33μF 6.3WV Electrolytic Capacitor	2 A
C611	3.3μF 25WV Electrolytic Capacitor	1 B
C612	3.3μF 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	3.3μF 25WV Electrolytic Capacitor	1 B
C614	3.3μF 25WV Electrolytic Capacitor	1 A
C615	330μF 25WV Mylar Capacitor	2C
C701	0.022μF ±10% 50WV Mylar Capacitor	1 B
C702	0.022μF ±10% 50WV Mylar Capacitor	1 A
C703	180 pF ±10% 60WV Ceramic Capacitor	1 B
C704	180 pF ±10% 50WV Ceramic Capacitor	1 A
C705	1μF 50WV Electrolytic Capacitor	2 C
C706	1μF 50WV Electrolytic Capacitor	2 D
C707	3.3μF 25WV Electrolytic Capacitor	2 C
C708	3.3μF 26WV Electrolytic Capacitor	2 D
C711	0.1μF ±10% 50WV Mylar Capacitor	1 C
C712	0.1μF ±10% 50WV Mylar Capacitor	1 C
C713	0.0068μF ±10% 50WV Mylar Capacitor	1 C
C714	0.0068μF ±10% 50WV Mylar Capacitor	1 C
C715	0.01μF ±10% 50WV Mylar Capacitor	1 D
C716	0.01μF ±10% 50WV Mylar Capacitor	1 D
C717	0.1μF ±10% 50WV Mylar Capacitor	1 D
C718	0.1μF ±10% 50WV Mylar Capacitor	1 D
C719	220μF 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	150kΩ (BH)×2 (101032)	1 A
VR702		1 A
VR703	250kΩ (B)×2 (101033)	1 B
VR704		1 B
VR705	100kΩ (A)×2 (101031)	1 C
VR706		1 C
VR707	100kΩ (A)×2 (101031)	1 D
VR708		1 D


A
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R621
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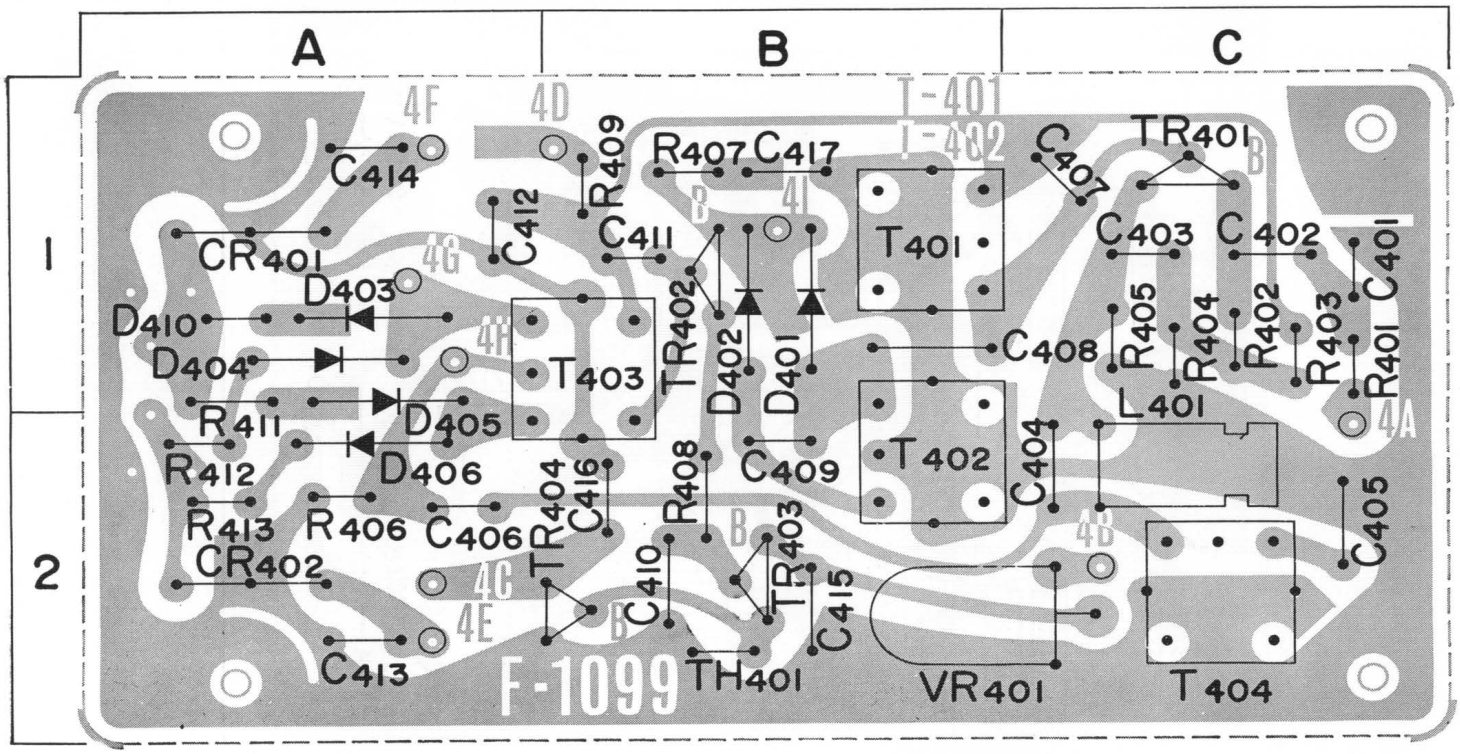
R623
R624
TR601
TR602
TR603
TR604

PRINTED CIRCUIT SHEETS AND PARTS LIST

FM MULTIPLEX & INDICATOR 〈F-1099〉

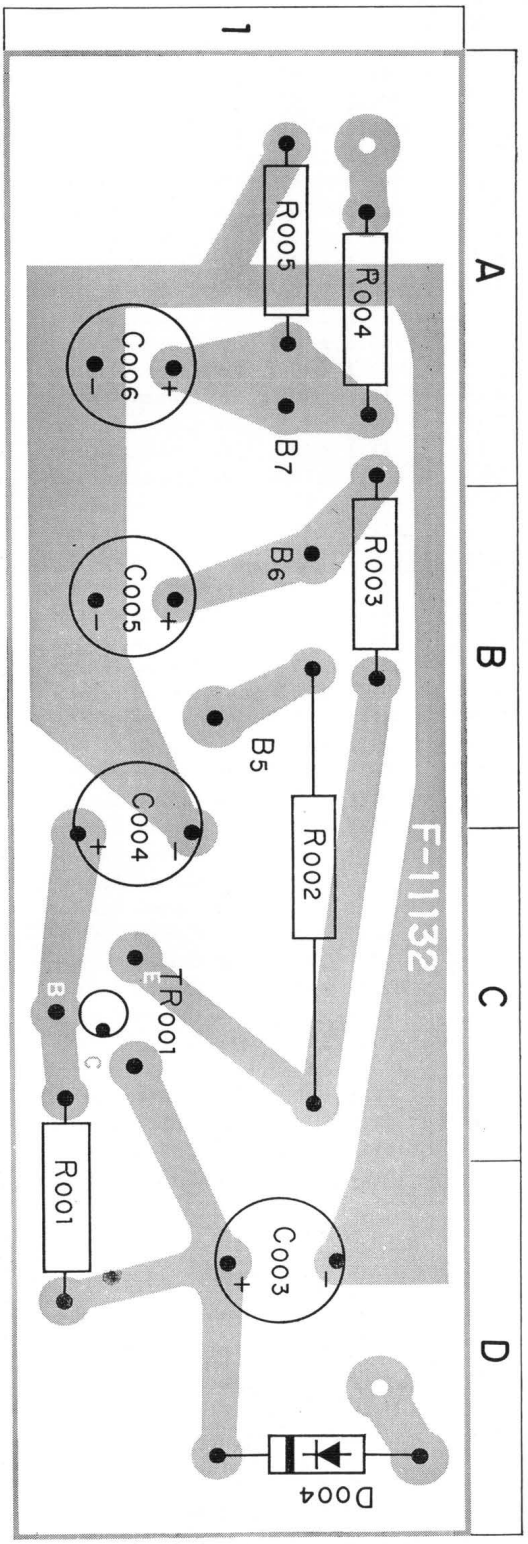
X: Parts No **Y:** Parts Name **Z:** Position of Parts
(Co-ordinate number and letter in printed circuit)

X	Y	Z
R401	1kΩ ±10% ¼W Carbon Resistor	1 C
R402	22kΩ ±10% ¼W Carbon Resistor	1 C
R403	22kΩ ±10% ¼W Carbon Resistor	1 C
R404	8.2kΩ ±10% ¼W Carbon Resistor	1 C
R405	270Ω ±10% ¼W Carbon Resistor	1 C
R406	3.3kΩ ±10% ¼W Carbon Resistor	2 A
R407	18kΩ ±10% ¼W Carbon Resistor	1 B
R408	1.2kΩ ±10% ¼W Carbon Resistor	2 B
R409	47Ω ±10% ¼W Carbon Resistor	1 B
R410	22kΩ ±10% ¼W Carbon Resistor	1 A
R411	22kΩ ±10% ¼W Carbon Resistor	2 A
R412	22kΩ ±10% ¼W Carbon Resistor	2 A
R413	22kΩ ±10% ¼W Carbon Resistor	2 A
TH401	31D27 Thermistor (032003)	2 A
C401	100 pF ±20% 50 WV Ceramic Capacitor	1 C
C402	10μF 10 WV Electrolytic Capacitor (RB Type)	1 C
C403	33μF 6.3 WV Electrolytic Capacitor (RB Type)	1 C
C404	0.001μF ± 5 % 50 WV Mica Capacitor	2 C
C405	270 pF ±10% 50 WV Mica Capacitor	2 C
C406	47μF 6.3 WV Electrolytic Capacitor (RB Type)	2 A
C407	3300 PF ± 5 % 50 WV Styrol Capacitor	1 C
C408	330 pF ±10% 50 WV Mica Capacitor	1 B
C409	3300 pF ± 5 % 50 WV Styrol Capacitor	2 B
C400	0.04μF ±10% 50 WV Mylar Capacitor	2 B
C411	1500 pF ± 5 % 50 WV Styrol Capacitor	1 B
C412	100μF 16 WV Electrolytic Capacitor (RB Type)	1 A
C413	0.0012μF ±10% 50 WV Mylar Capacitor	2 A
C414	0.0012μF ±10% 50 WV Mylar Capacitor	1 A
C415	0.02μF $^{+100}_{-0}$% 25 WV Ceramic Capacitor	2 B
C416	10μF 10 WV Electrolytic Capacitor (RB Type)	2 B
CR401	FP38A (080008)	1 A
CR400	FP38A (080008)	2 A
TR401	2SC537(G) (030544-2)	1 C
TR402	2SC537(G) (030544-2)	1 B
TR403	2SC537(G) (030544-2)	2 B
TR404	2SD178T (030818-3)	2 B
D401	IN34A (031040)	1 B
D402	IN34A (031040)	1 B
D403	IN34A (031040)	1 A
D404	IN34A (031040)	1 A
D405	IN34A (031040)	1 A
D406	IN34A (031040)	2 A
T401	19kC Tune (424030)	1 B
T402	19kC Tune (424030)	2 B
T403	38kC Tune (424031)	1 A
T404	67kC Tune (424030)	2 C
L401	71kC Tune (490003)	2 C
VR401	Indicator Adjust 100kΩ(B) (103034)	2 B



POWER UNIT ⟨F-11132⟩

X	Y	Z
R001	10kΩ ±10% ¼W Carbon Resistor	1 D
R002	390Ω ±10% 2 W Carbon Resistor	1 C
R003	1.8kΩ ±10% ¼W Carbon Resistor	1 B
R004	220Ω ±10% ¼W Carbon Resistor	1 A
R005	1.2kΩ ±10% ¼W Carbon Resistor	1 A
C003	100μF 50 WV Electrolytic Capacitor	1 D
C004	100μF 50 WV Electrolytic Capacitor	1 C
C005	220μF 16 WV Electrolytic Capacitor	1 B
C006	220μF 16 WV Electrolytic Capacitor	1 A
D004	10D-1 Diode (031034)	1 D
TR001	2SC-281 Transistor (030512-1, 2)	1 C

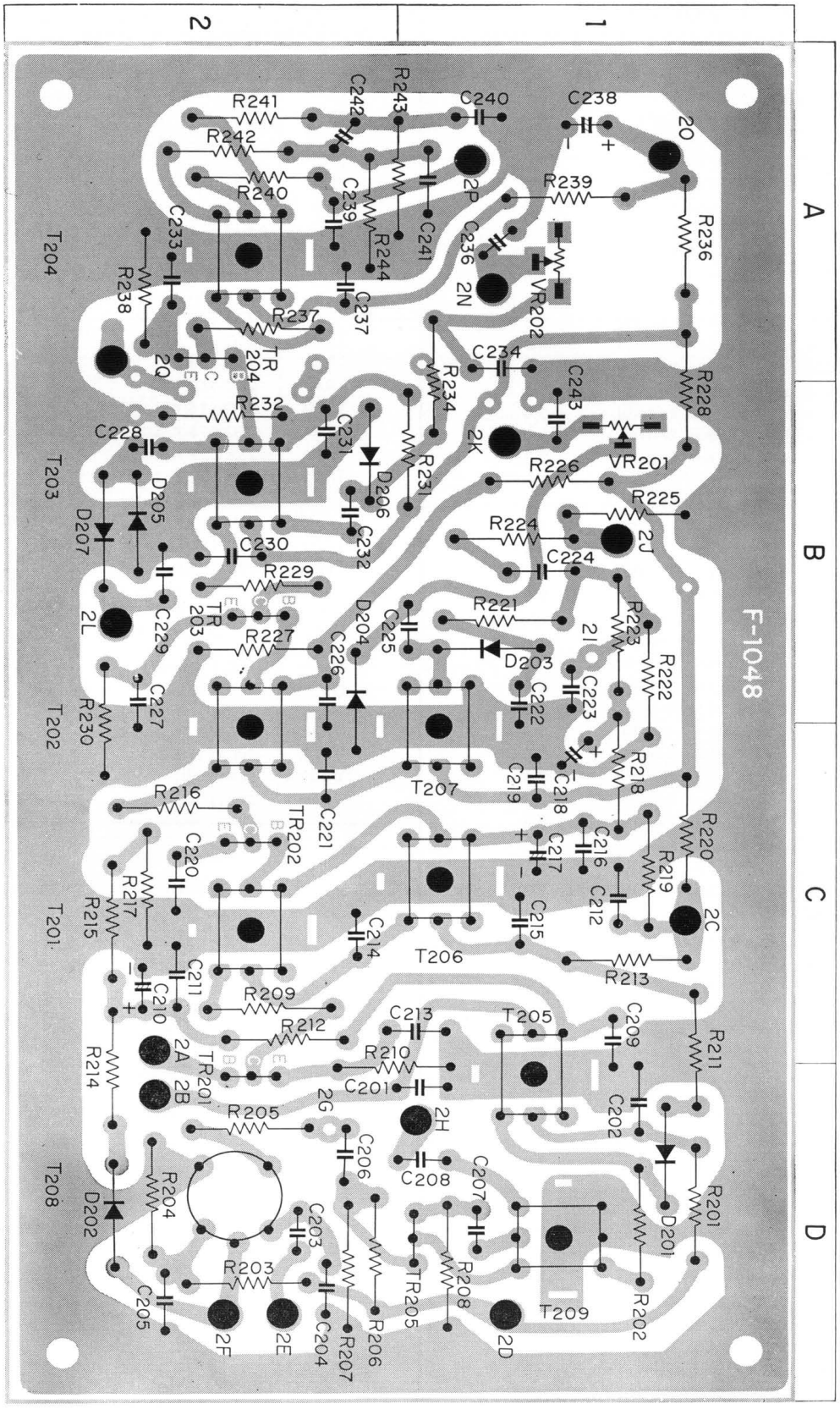


PRINTED CIRCUIT SHEETS AND PARTS LIST

AM-FM TUNER UNIT ⟨F-1048A⟩

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

X	Y	Z
R201	1.8kΩ ±10% ¼W Carbon Resistor	1 D
R202	100Ω ±10% ¼W Carbon Resistor	1 D
R203	6.8kΩ ±10% ¼W Carbon Resistor	2 D
R204	1kΩ ±10% ¼W Carbon Resistor	3 D
R205	100Ω ±10% ¼W Carbon Resistor	2 D
R206	68kΩ ±10% ¼W Carbon Resistor	1 D
R207	10kΩ ±10% ¼W Carbon Resistor	2 D
R208	1.2kΩ ±10% ¼W Carbon Resistor	1 D
R209	680Ω ±10% ¼W Carbon Resistor	2 C
R210	560Ω ±10% ¼W Carbon Resistor	2 D
R211	100Ω ±10% ¼W Carbon Resistor	1 C
R212	1.5kΩ ±10% ¼W Carbon Resistor	2 C
R213	1kΩ ±10% ¼W Carbon Resistor	1 C
R214	100Ω ±10% ¼W Carbon Resistor	2 C
R215	1.5kΩ ±10% ¼W Carbon Resistor	2 C
R216	680Ω ±10% ¼W Carbon Resistor	2 C
R217	560Ω ±10% ¼W Carbon Resistor	2 C
R218	3.3kΩ ±10% ¼W Carbon Resistor	1 C
R219	82kΩ ±10% ¼W Carbon Resistor	1 C
R220	22Ω ±10% ¼W Carbon Resistor	1 C
R221	1kΩ ±10% ¼W Carbon Resistor	1 B
R222	22kΩ ±10% ¼W Carbon Resistor	1 B
R223	22kΩ ±10% ¼W Carbon Resistor	1 B
R224	10kΩ ±10% ¼W Carbon Resistor	1 B
R225	56kΩ ±10% ¼W Carbon Resistor	1 B
R226	12kΩ ±10% ¼W Carbon Resistor	1 B
R227	10kΩ ±10% ¼W Carbon Resistor	2 B
R228	22Ω ±10% ¼W Carbon Resistor	1 B
R229	820Ω ±10% ¼W Carbon Resistor	2 B
R230	1.2kΩ ±10% ¼W Carbon Resistor	2 B
R231	12kΩ ±10% ¼W Carbon Resistor	1 B
R232	6.8kΩ ±10% ¼W Carbon Resistor	2 B
R234	3.3kΩ ±10% ¼W Carbon Resistor	1 A
R236	22Ω ±10% ¼W Carbon Resistor	1 A
R237	820Ω ±10% ¼W Carbon Resistor	2 A
R238	1kΩ ±10% ¼W Carbon Resistor	2 A
R239	470Ω ±10% ¼W Carbon Resistor	1 A
R240	100Ω ±10% ¼W Carbon Resistor	2 A
R241	1kΩ ±10% ¼W Carbon Resistor	2 A
R242	1kΩ ±10% ¼W Carbon Resistor	2 A
R243	10kΩ ±10% ¼W Carbon Resistor	1 A
R244	10kΩ ±10% ¼W Carbon Resistor	2 A
C201	0.001μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 D
C202	0.04μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	1 D
C205	0.04μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 D
C206	0.02μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 D
C207	0.01μF ±10% 50WV Mylar capacitor	1 D
C208	350pF ±10% 50WV Mica capacitor	1 D
C210	1μF 50WV Electrolytic Capacitar	1 C
C211	0.04μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 C
C212	0.04μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	1 C
C213	0.04μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	1 C
C214	330pF ±10% 50WV Ceramic Capacitor	2 C
C215	0.04μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	1 C
C216	0.04μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	1 C
C217	4.7μF 16WV Electrolytic Capacitor	1 C
C218	1μF 50WV Electrolytic Capacitor	1 C
C219	0.04μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	1 C
C220	0.04μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 C
C221	330pF ±10% 50WV Ceramic Capacitor	2 C
C222	0.022μF ±10% 50WV Mylar Capacitor	1 B
C223	0.047μF ±10% 50WV Mylar Capacitor	1 B
C224	0.022μF ±10% 50WV Mylar Capacitor	1 B
C225	0.0022μF ±10% 50WV Mylar Capacitor	1 B
C226	0.02μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 B
C227	0.02μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 B
C228	4.7pF ±10% 50WV Ceramic Capacitor	2 B
C229	0.02μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 B
C230	0.04μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 B
C231	0.02μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 B
C232	3.3pF ±10% 50WV Ceramic Capacitor	2 B
C233	0.02μF $^{+100}_{-0}$% 50WV Electrolytic Capacitor	2 A
C234	0.02μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	1 A
C237	0.02μF $^{+100}_{-0}$% 50WV Ceramic Capacitor	2 A
C238	220μF 16WV Ceramic Capacitor	1 A
C239	100pF ±10% 50WV Ceramic Capacitor	1 A
C240	220pF ±10% 50WV Ceramic Capacitor	1 A
C241	220pF ±10% 50WV Ceramic Capacitor	1 A
C242	4.7μF ±10% 16WV Electrolytic Capacitor	2 A
C243	0.04μF $^{+100}_{-0}$% 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	20kΩ (B) (103046)	1 B
VR202	20kΩ (B) (103046)	1 A


F-1048
A
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2N
2P
2Q

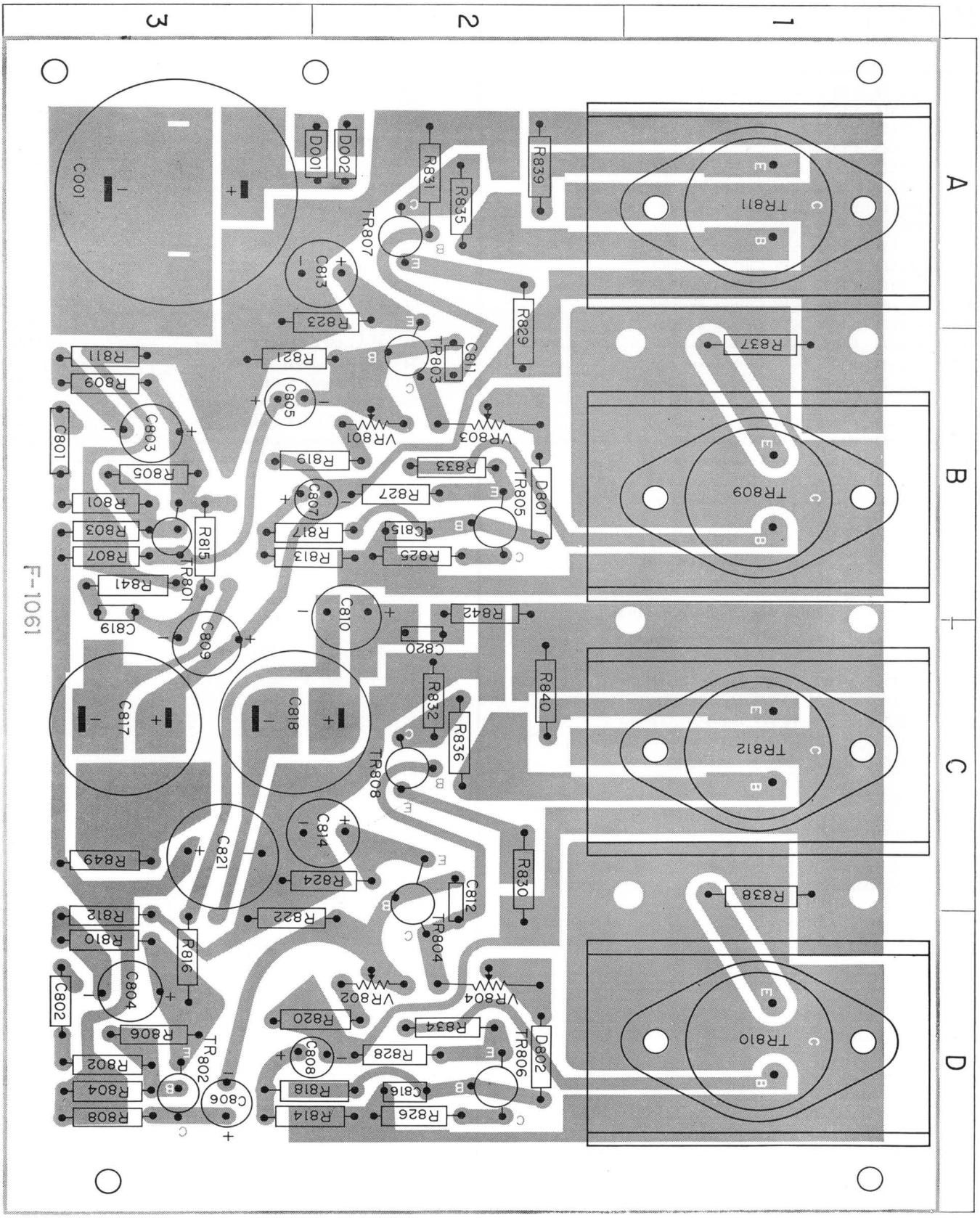
PRINTED CIRCUIT SHEETS AND PARTS LIST

MAIN AMP UNIT 〈F-1061〉

X	Y	Z
R801	4.7kΩ ±10% ¼W Carbon Resistor	3 B
R802	4.7kΩ ±10% ¼W Carbon Resistor	3 D
R803	680kΩ ±10% ¼W Carbon Resistor	3 B
R804	680kΩ ±10% ¼W Carbon Resistor	3 D
R805	100kΩ ±10% ¼W Carbon Resistor	3 B
R806	100kΩ ±10% ¼W Carbon Resistor	3 D
R807	2.2kΩ ±10% ¼W Carbon Resistor	3 B
R808	2.2kΩ ±10% ¼W Carbon Resistor	3 D
R809	2.7kΩ ±10% ¼W Carbon Resistor	3 B
R810	2.7kΩ ±10% ¼W Carbon Resistor	3 D
R811	470Ω ±10% ¼W Carbon Resistor	3 B
R812	470Ω ±10% ¼W Carbon Resistor	3 D
R813	1kΩ ±10% ¼W Carbon Resistor	3 B
R814	1kΩ ±10% ¼W Carbon Resistor	3 D
R815	27kΩ ±10% ¼W Carbon Resistor	3 B
R816	27kΩ ±10% ¼W Carbon Resistor	3 D
R817	3.3kΩ ±10% ¼W Carbon Resistor	3 B
R818	3.3kΩ ±10% ¼W Carbon Resistor	3 D
R819	100kΩ ±10% ¼W Carbon Resistor	3 B
R820	100kΩ ±10% ¼W Carbon Resistor	3 D
R821	27kΩ ±10% ¼W Carbon Resistor	3 B
R822	27kΩ ±10% ¼W Carbon Resistor	3 D
R823	330Ω ±10% ¼W Carbon Resistor	3 A
R824	330Ω ±10% ¼W Carbon Resistor	2 C
R825	47Ω ±10% ¼W Carbon Resistor	2 B
R826	47Ω ±10% ¼W Carbon Resistor	2 D
R827	270Ω ±10% ¼W Carbon Resistor	2 B
R828	270Ω ±10% ¼W Carbon Resistor	2 D
R829	47Ω ±10% ¼W Carbon Resistor	2 A
R830	47Ω ±10% ¼W Carbon Resistor	2 C
R831	270Ω ±10% ¼W Carbon Resistor	2 A
R832	270Ω ±10% ¼W Carbon Resistor	2 C
R833	10Ω ±10% ¼W Carbon Resistor	2 B
R834	10Ω ±10% ¼W Carbon Resistor	2 D
R835	10Ω ±10% ¼W Carbon Resistor	2 A
R836	10Ω ±10% ¼W Carbon Resistor	2 C
R837	0.5Ω ±20% 3 W Wire-Wound	1 B
R838	0.5Ω ±20% 3 W Wire-Wound	1 C
R839	0.5Ω ±20% 3 W Wire-Wound	2 A
R840	0.5Ω ±20% 3 W Wire-Wound	2 C
R841	6.8Ω ±10% ½W Solid Resistor	3 B
R842	6.8Ω ±10% ½W Solid Resistor	2 B
R849	3.9kΩ ±10% ¼W Carbon Resistor	3 C
C801	0.22μF ±10% 50 WV Mylar Capacitor	3 B
C802	0.22μF ±10% 50 WV Mylar Capacitor	3 D
C803	100μF 6.3 WV Electrolytic Capacitor	3 B
C804	100μF 6.3 WV Electrolytic Capacitor	3 D
C805	1μF 50 WV Electrolytic Capacitor	3 B
C806	1μF 50 WV Electrolytic Capacitor	3 D
C807	4.7μF 50 WV Electrolytic Capacitor	2 B
C808	4.7μF 50 WV Electrolytic Capacitor	2 D
C809	1μF 50 WV Electrolytic Capacitor	3 C
C810	1μF 50 WV Electrolytic Capacitor	2 B
C811	100pF ±10% 50 WV Mica Capacitor	2 B
C812	100pF ±10% 50 WV Mica Capacitor	2 C
C813	100μF 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	100μF 6.3 WV Electrolytic Capacitor	2 C
C815	150pF ±10% 50 WV Mica Capacitor	2 B
C816	150pF ±10% 50 WV Mica Capacitor	2 D
C817	1000μF 35 WV Electrolytic Capacitor	3 C
C818	1000μF 35 WV Electrolytic Capacitor	3 C
C819	0.047μF ±10% 50 WV Mylar Capacitor	3 C
C820	0.047μF ±10% 50.WV Mylar Capacitor	2 B
C821	220μF 50 WV Electrolytic Capacitor	3 C
C001	1500μF 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	200kΩ (B) (103045)	2 B
VR802	200kΩ (B) (103045)	2 D
VR803	200Ω (B) (103012)	2 B
VR804	200Ω (B) (103012)	2 D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F-1061
C001
D001
D002
R831
R835
R839
TR807
TR811
C813
R823
R829
R837
C811
TR803
R821
TR809
C805
VR801
VR803
R811
R809
C801
C803
R805
R819
R833
D801
TR805
R827
R801
R803
R807
R815
C815
R825
R817
R813
TR801
R841
C819
C809
C810
R842
C820
R840
R832
R836
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R824
R822
C812
TR804
R830
R838
R812
R810
R816
C804
VR802
VR804
C802
R820
R834
R806
R828
C808
D802
TR806
TR802
R802
R804
C806
R818
C816
R808
R814
R826
TR810

OTHER PARTS CHART AND LIST

OTHER PARTS LIST

X	Y	
R120	820Ω ±10% ¼W Carbon Resistor	
R121	68Ω ±10% ¼W Carbon Resistor	
R251	1kΩ ±10% ¼W Carbon Resistor	
R252	47kΩ ±10% ¼W Carbon Resistor	
R631	56kΩ ±10% ¼W Carbon Resistor	
R632	56kΩ ±10% ¼W Carbon Resistor	
R633	100kΩ ±10% ¼W Carbon Resistor	
R634	100kΩ ±10% ¼W Carbon Resistor	
R635	33kΩ ±10% ¼W Carbon Resistor	
R636	33kΩ ±10% ¼W Carbon Resistor	
R637	100kΩ ±10% ¼W Carbon Resistor	
R638	100kΩ ±10% ¼W Carbon Resistor	
R639	470kΩ ±10% ¼W Carbon Resistor	
R640	470kΩ ±10% ¼W Carbon Resistor	
R641	12kΩ ±10% ¼W Carbon Resistor	
R642	12kΩ ±10% ¼W Carbon Resistor	
R851	390Ω ±10% ½W Solid Resistor	
R852	390Ω ±10% ½W Solid Resistor	
R010	180Ω ±10% 3 W Wire-Wound	
R011	180Ω ±10% 3 W Wire-Wound	
R012	1kΩ ±10% ¼W Carbon Resistor	
R013	1kΩ ±10% ¼W Carbon Resistor	
C120	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	
C121	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	
C251	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	
C252	4.7pF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	
C253	0.001μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	
C254	10μF 10 WV Electrolytic Capacitor	
C255	0.0033μF ±10% 50 WV Mylar Capacitor	
C423	0.001μF ±10% 50 WV Mylar Capacitor	
C002	220μF 10 WV Electrolytic Capacitor	
C010	0.022μF ±10% 600WV Oil Capacitor	
C011	0.0047μF ±10% 600WV Oil Capacitor	
VR601	2kΩ (B)	(100506)
PT001	Power Transformer	(400041)
T101	FM Antenna	(429002)
T208	AM Antenna	(429002)
L201	RF Choke 3.5μH	(429001-1)
L202	RF Choke 3.5μH	(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	100μA Tuning Meter	(090015)
PU001		(241008, 241009)
CO001	AC Consent	(245001-1)
D210	IN-60 Diode	(031033)
D211	IN-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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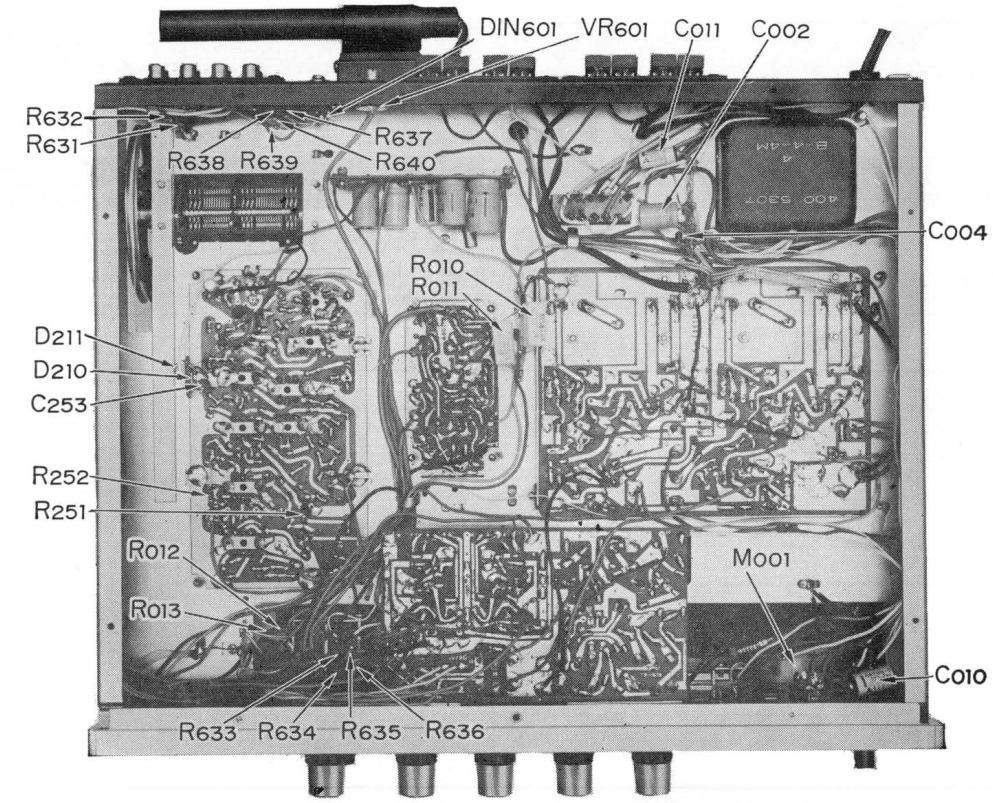

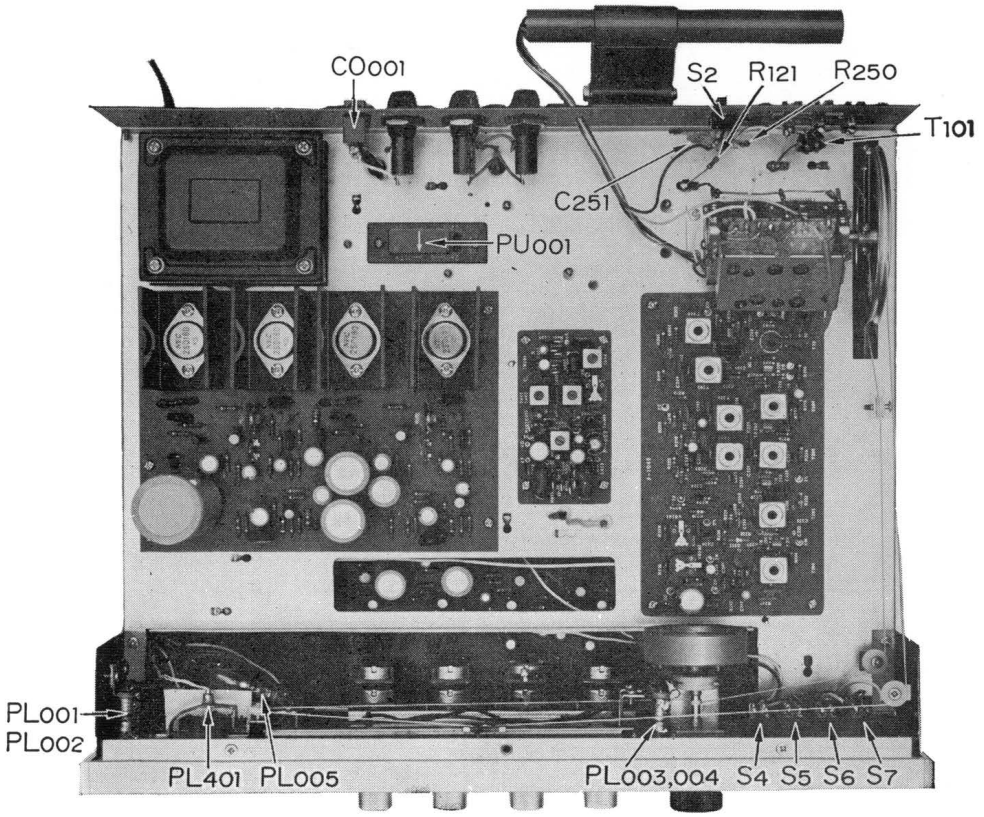

Sansui®

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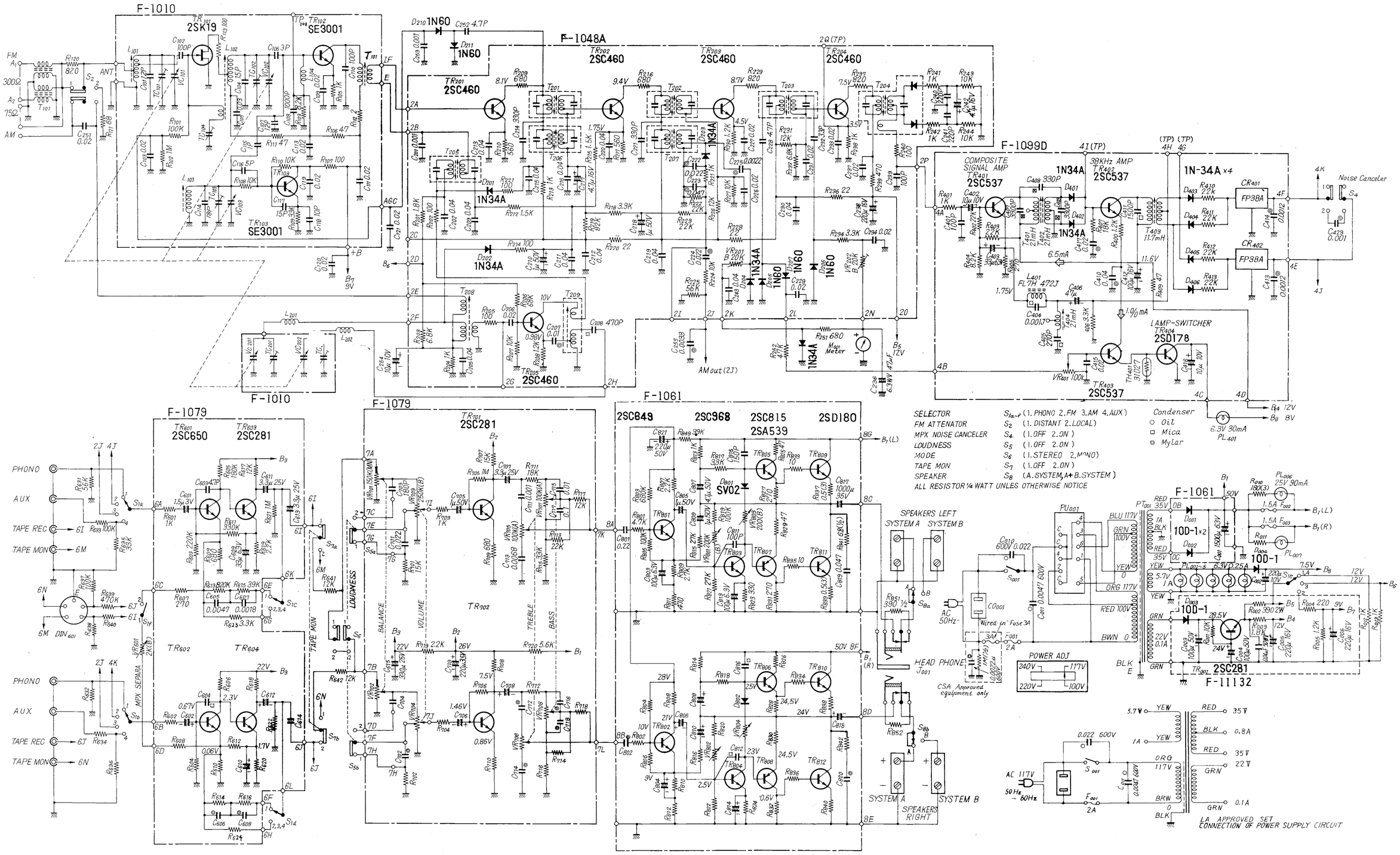
Printed in Japan (49020M5)

SANSUI 350 SCHEMATIC DIAGRAM



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