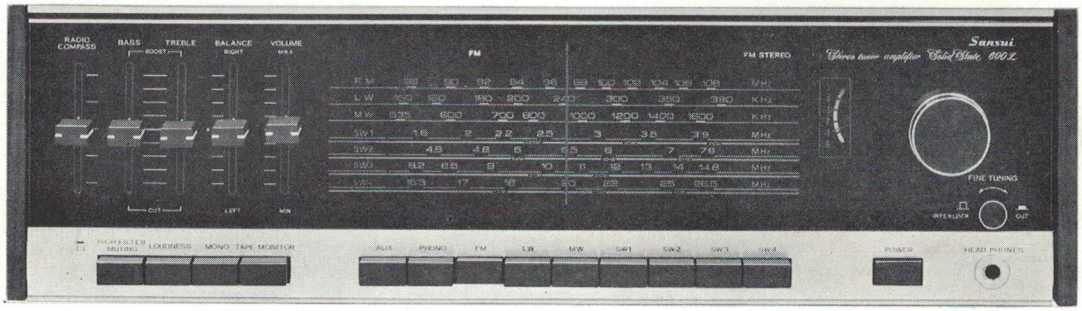
225-A

SERVICE MANUAL

ALL WAVE STEREO TUNER AMPLIFIER

SANSUI 600L



Sansui®

SANSUI ELECTRIC COMPANY LIMITED

CONTENTS


FM STEREO
FM 88 90 92 94 96 98 100 102 104 106 108 MHz
LW 150 160 180 200 240 300 350 390 KHz
MW 535 600 700 800 1000 1200 1400 1600 KHz
SW1 1.8 2 2.2 2.5 3 3.5 3.9 MHz
SW2 4.6 4.8 5 5.5 6 7 7.6 MHz
SW3 8.2 8.5 9 10 11 12 13 14 14.8 MHz
SW4 16.3 17 18 20 22 25 26.5 MHz
FINE TUNING
HIGH FILTER MUTING
LOUDNESS
MONO
TAPE MONITOR
AUX
PHONO
FM
LW
MW
SW1
SW2
SW3
SW4
POWER
HEAD PHONES

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.

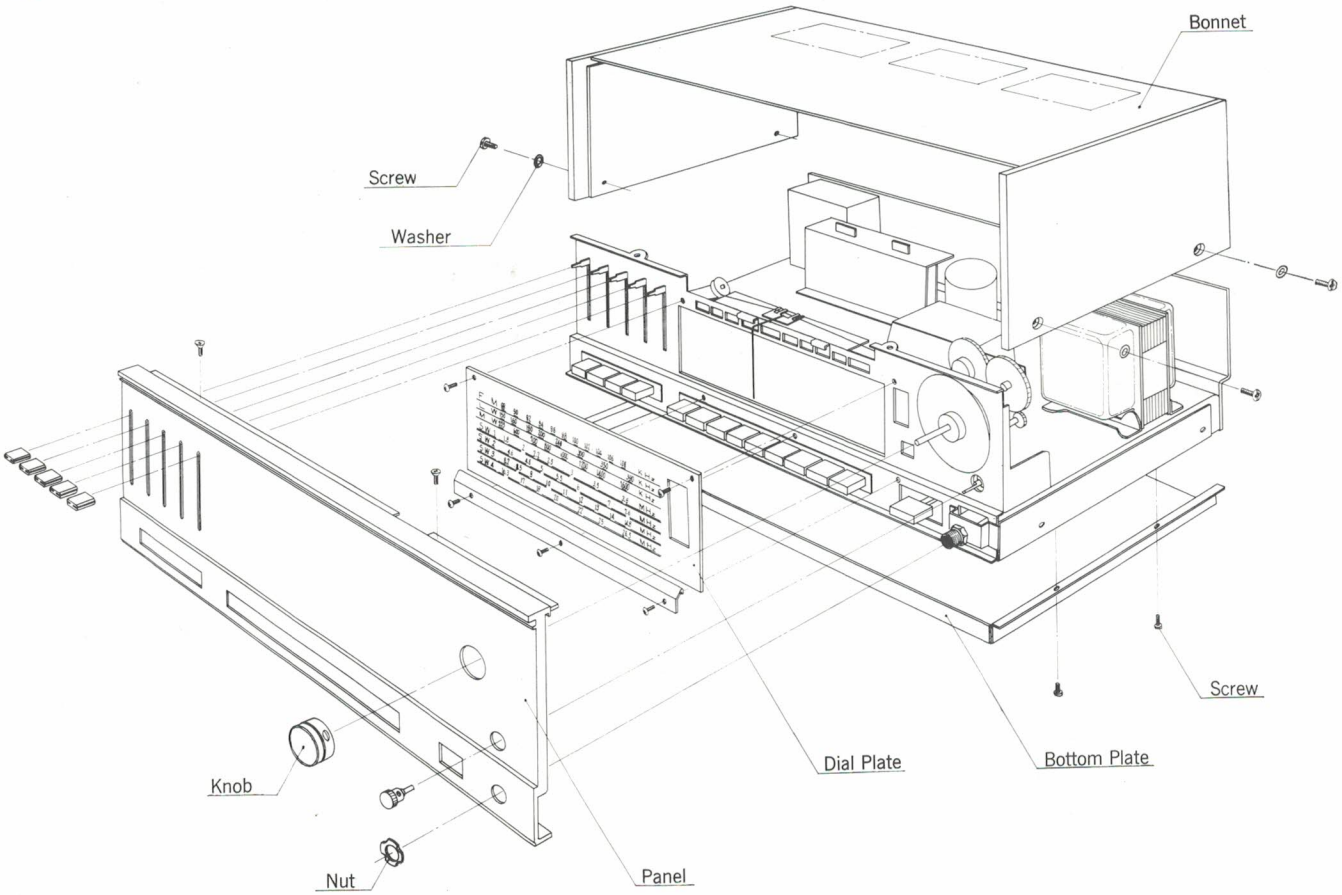
Following are some other common causes of malfunction and what to do about them:

PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
AM (LW, MW, SW) 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 (LW,MW, SW) 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 slide the TREBLE down to unobjectionable position and switch on the HIGH FILTER. * Place the TV set away from the audio system.
FM reception	A. Noisy	* Poor noise limiter effect or too low SN 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.		

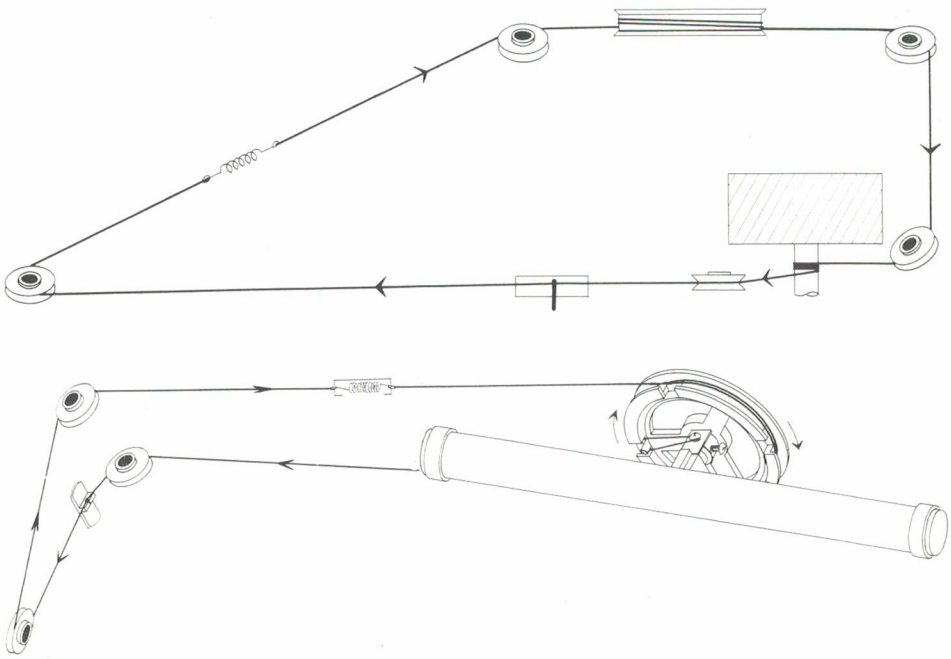
PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
Record playing or tape playback	A. Hum or howling	* Record player placed directly on the speaker box. * Use of unshielded wire * Loose terminal contact * Shielded wire too close to line cord, fluorescent lamp or other electrical appliances. * Nearby amateur radio station or TV transmission antenna.	* Put a cushion between the player and the speaker box or separate them. * The connecting shielded wire should be as short as possible. * Slide the BASS down to some unobjectionable position. * 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. * Slde the TREBLE down to some unobjectionable position. * Switch on the HIGH FILTER.
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

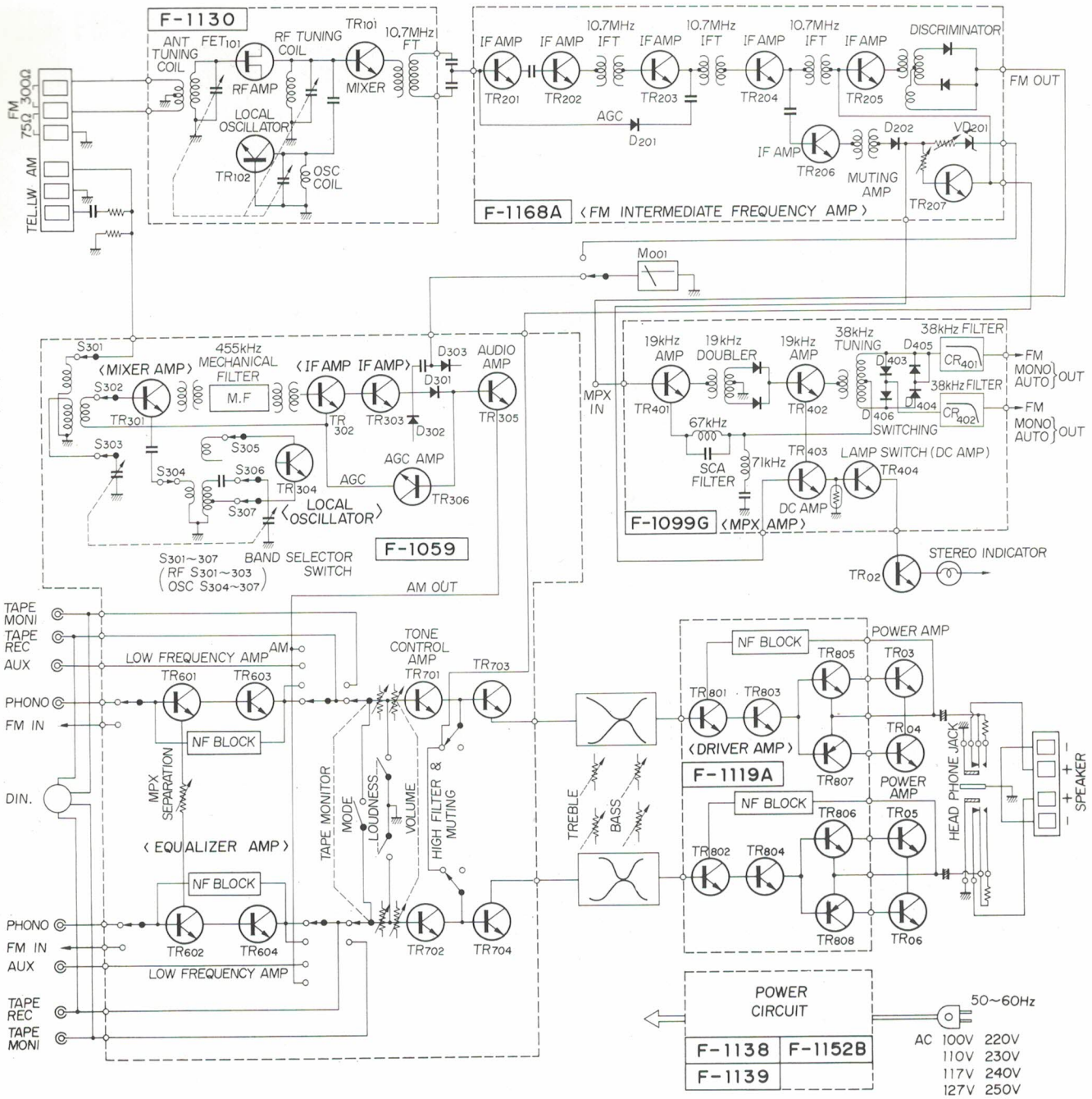
REMOVING THE FRONT PANEL,BONNET AND BOTTOM PLATE



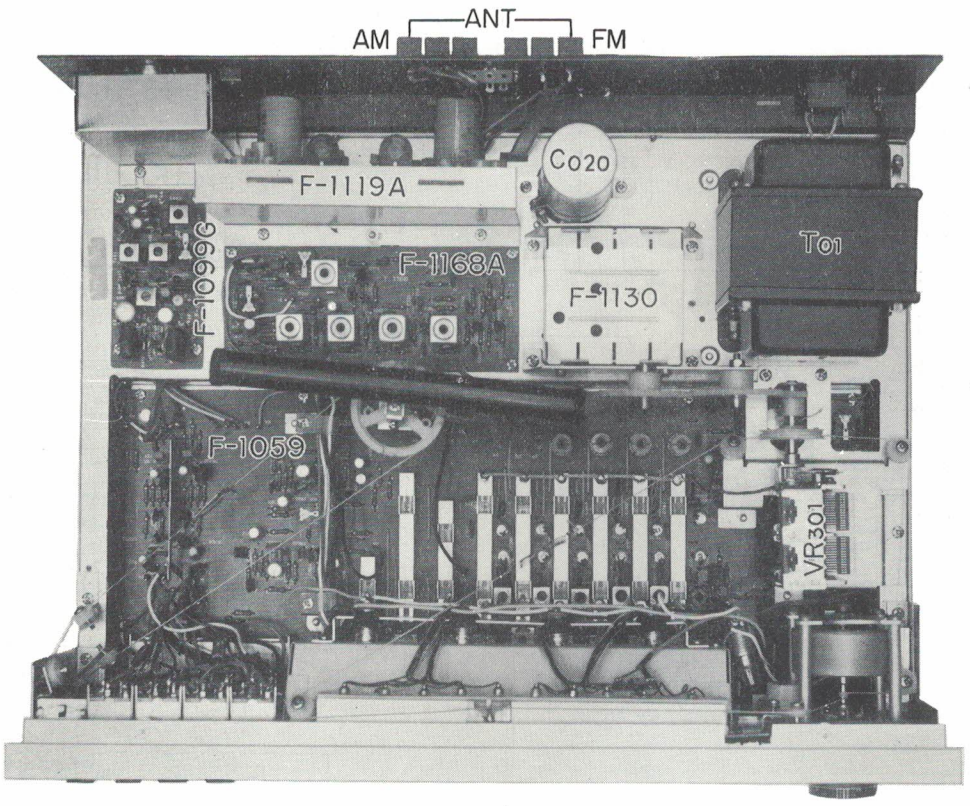
DIAL MECHANISM

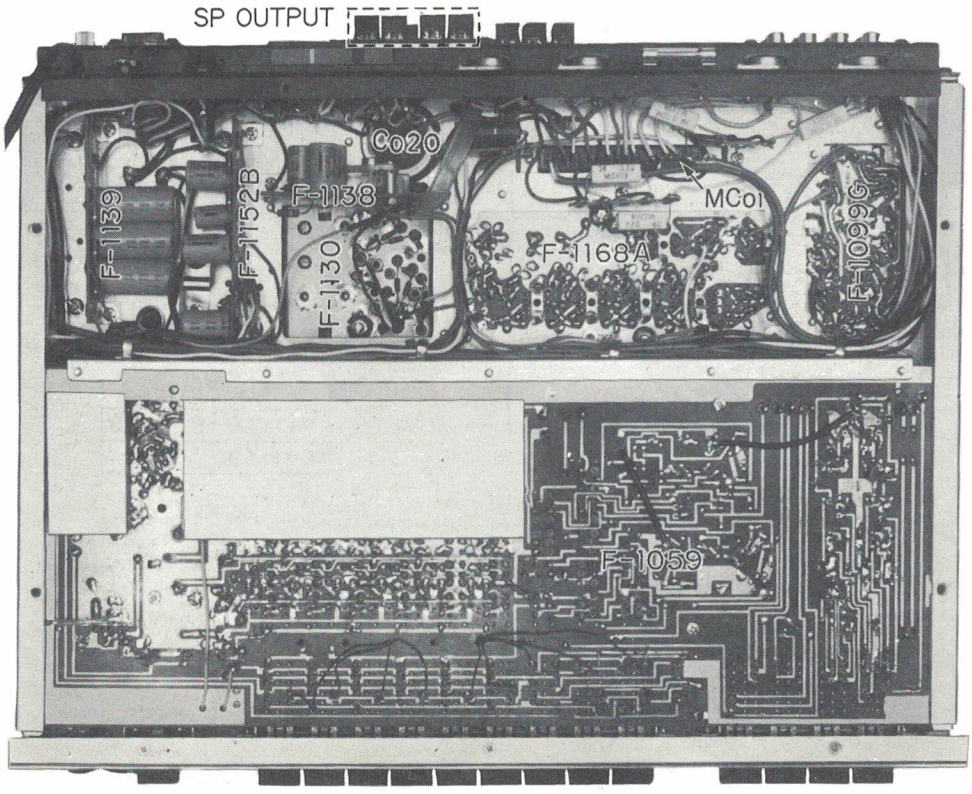


BLOCK DIAGRAM



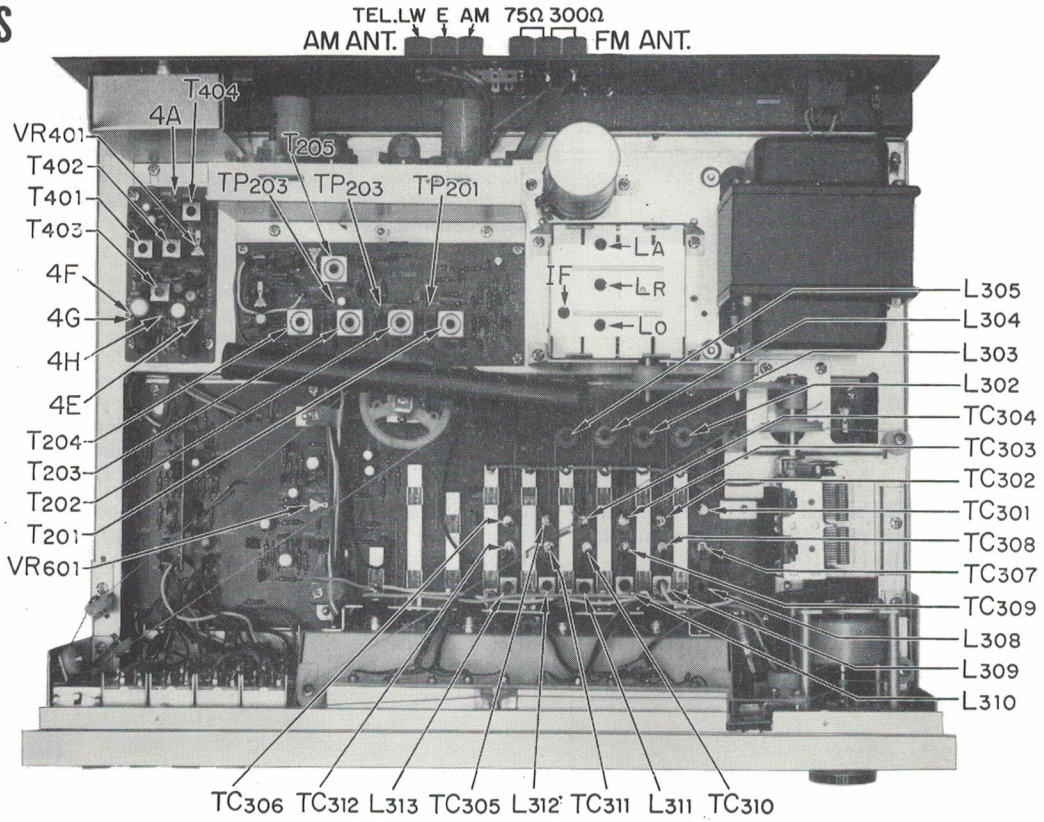
PART LAYOUT

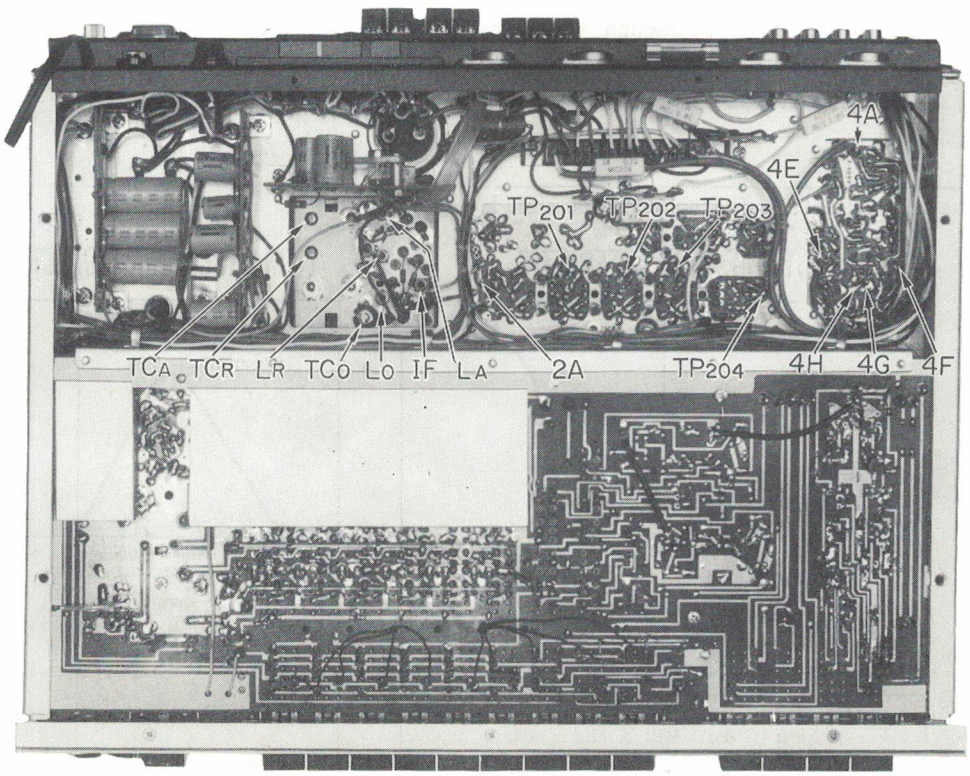

AM
ANT
FM
Co20
F-1119A
To1
F-1099G
F-1168A
F-1130
F-1059
VR301


SP OUTPUT
Co20
F-1139
F-1152B
F-1138
F-1130
MCo1
F-1168A
F-1099G
F-1059

ALIGNMENT

TEST POINTS





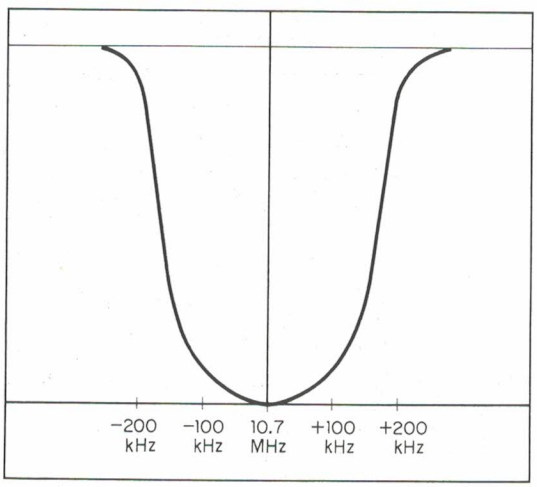
ALIGNMENT

FM TUNER ALIGNMENT PROCEDURE

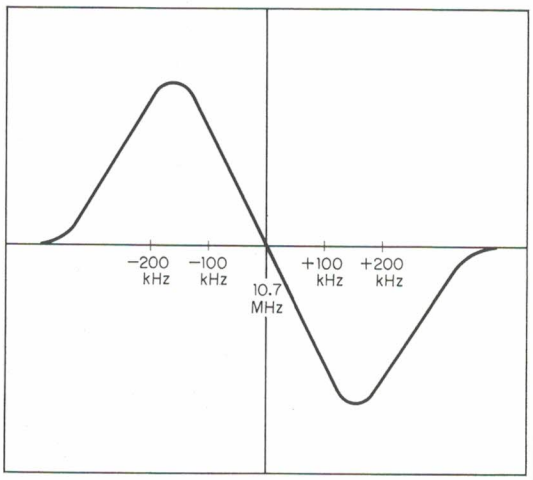
STEP	ALIGN	SIGNAL GENERATOR	FEED SIGNAL TO	CONNECT	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF transformer	10.7 MHz ±200 kHz sweep generator	2A	Oscilloscope to TP_{203} through 0.02μF ceramic capacitor		Primary and secondary of IF transformer (T_{201}, T_{202}, T_{203})	Best wave form Place 0.02μF ceramic capacitor between collector and ground of TR_{205}
2.	Discriminator	10.7 MHz ±200 kHz sweep generator	2A	Oscilloscope to 2B through 0.02μF ceramic capacitor		Primary and secondary of discriminator transformer (T_{204})	S curve
3.	Local oscillator (1)	FM signal generator 88MHz, 400 Hz, 100% modulation	Antenna terminals	Oscilloscope and V.T.V.M. to load terminal	88 MHz	Local oscillator coil (L_0)	Maximum
4.	Local oscillator (2)	FM signal generator 108 MHz, 400 Hz, 100% modulation	Antenna terminals	Oscilloscope and and V.T.V.M. to load terminal	108 MHz	Local oscillator trimmer (TC_0)	Maximum
5.	Reiterate 3 and 4.						
6.	High-frequency amp. circuit (1)	FM signal generator 90 MHz, 400 Hz, 100% modulation	Antenna terminals	Oscilloscope and V.T.V.M. to load terminal	90 MHz	Antenna coil (L_A, L_R)	Maximum
7.	High-frequency amp. circuit (2)	FM signal generator 106 MHz, 400 Hz, 100% modulation	Antenna terminals	Oscilloscope and V.T.V.M. to load terminal	106 MHz	Trimmer (TC_A, TC_R)	Maximum
8.	Reiterate 6 and 7.						

NOTE: Adjust the signal generator for the lowest possible level.

FM IF CHARACTERISTIC



FM DISCRIMINATOR CHARACTERISTIC



FM MULTIPLEX ALIGNMENT PROCEDURE

STEP	ALIGN	SIGNAL GENERATOR	FEED SIGNAL TO	CONNECT	DIAL SETTING	ADJUST	ADJUST FOR
1.	71 kHz	Audio signal generator, 71 kHz 200 mV r.m.s.	4A	V.T.V.M. to 4H	71 kHz	T_{404}	Minimum
2.	19 kHz tuning coil	1) FM signal generator, 98 MHz, 60 dB 2) Stereo signal generator, 30% modulation of composite signal (L or R) including pilot signal	Antenna terminals	V.T.V.M. to 4I	98 MHz	T_{401}, T_{402}	Maximum
3.	38 kHz tuning coil	1) FM signal generator, 98 MHz, 60 dB 2) Stereo signal generator, 30% modulation of composite signal (L or R) including pilot signal	Antenna terminals	V.T.V.M. to 4G	98 MHz	T_{403}	Maximum
4.	38 kHz tuning coil Separation VR	1) FM signal generator, 98 MHz, 60 dB 2) Stereo signal generator including pilot signal Composite signal L-channel 30% modulation	Antenna terminals	Oscilloscope and V.T.V.M. to load terminals	98 MHz	T_{403}, VR_{601}	1) Observe the wave form of the L channel output and adjust T_{403} to maximum output. 2) Adjust the separation VR_{601} for optimum separation.

ALIGNMENT

AM TUNER ALIGNMENT PROCEDURE

(The mechanical filter used in this set is very difficult to readjust. It is preferable not to do it yourself. If you must do it yourself, be sure to follow the procedure below.)

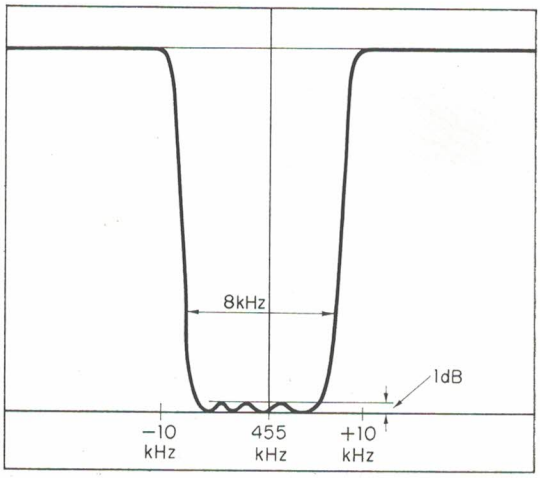
STEP	ALIGN	GENERATOR	FEED SIGNAL TO	CONNECT	DIAL SETTING	ADJUST	ADJUST FOR
1.	Macthing transformer	5~10 Hz slow sweep generator	AM antenna terminals	Oscilloscope to TR_{303} collector	LW or MW band	Matching Transformer (L_{314}, L_{315})	See "illustration" -P.12
2.	LW OSC. (1)	AM signal generator 150 kHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	150 kHz	OSC. coil (L_{313})	Maximum
3.	LW OSC. (2)	390 kHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	390 kHz	OSC. trimmer (CT_{312})	Maximum
4.	LW antenna circuit (1)	150 kHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	150 kHz	Ferrite antenna coil (L_6)	Maximum
5.	LW antenna circuit (2)	390 kHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	390 kHz	Trimmer (CT_{306})	Maximum
6.	MW OSC. (1)	530 kHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	530 kHz	OSC. coil (L_{312})	Maximum
7.	MW OSC. (2)	1600 kHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	1600 kHz	OSC. trimmer (CT_{311})	Maximum
8.	MW antenna circuit (1)	600 kHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	600 kHz	Ferrite antenna coil (L_7)	Maximum
9.	MW antenna circuit (2)	1400 kHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	1400 kHz	Trimmer (CT_{305})	Maximum
10.	SW-1 OSC. (1)	1.8 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	1.8 MHz	OSC. coil (L_{311})	Maximum
11.	SW-1 OSC. (2)	3.9 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	3.9 MHz	OSC. trimmer (CT_{310})	Maximum
12.	SW-1 antenna circuit (1)	1.8 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	1.8 MHz	Antenna coil (L_{305})	Maximum
13.	SW-1 antenna circuit (2)	3.9 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	3.9 MHz	Trimmer (CT_{304})	Maximum
14.	SW-2 OSC. (1)	4.6 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	4.6 MHz	OSC. coil (L_{310})	Maximum
15.	SW-2 OSC. (2)	7.6 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	7.6 MHz	OSC. trimmer (CT_{309})	Maximum
16.	SW-2 antenna circuit (1)	4.6 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	4.6 MHz	Antenna coil (L_{304})	Maximum

STEP	ALIGN	GENERATOR	FEED SIGNAL TO	CONNECT	DIAL SETTING	ADJUST	ADJUST FOR
17.	SW-2 antenna circuit (2)	7.6 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	7.6 MHz	Trimmer (CT_{303})	Maximum
18.	SW-3 OSC. (1)	8.2 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	8.2 MHz	OSC. coil (L_{309})	Maximum
19.	SW-3 OSC. (2)	14.8 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	14.8 MHz	OSC. trimmer (CT_{308})	Maximum
20.	SW-3 OSC. (1)	8.2 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V T.V.M. to output load	8.2 MHz	Antenna coil (L_{303})	Maximum
21.	SW-3 OSC. (2)	14.8 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	14.8 MHz	Trimmer (CT_{302})	Maximum
22.	SW-4 antenna circuit (1)	16.3 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V T.V.M. to output load	16.3 MHz	OSC. coil (L_{308})	Maximum
23.	SW-4 antenna circuit (2)	26.5 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	26.5 MHz	OSC. trimmer (CT_{307})	Maximum
24.	SW-4 antenna circuit (1)	16.3 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	16.3 MHz	Antenna coil (L_{302})	Maximum
25.	SW-4 antenna circuit (2)	26.5 MHz 400 Hz 30% modulation	AM antenna terminals	Oscilloscope and V.T.V.M. to output load	26.5 MHz	Trimmer (CT_{301})	Maximum

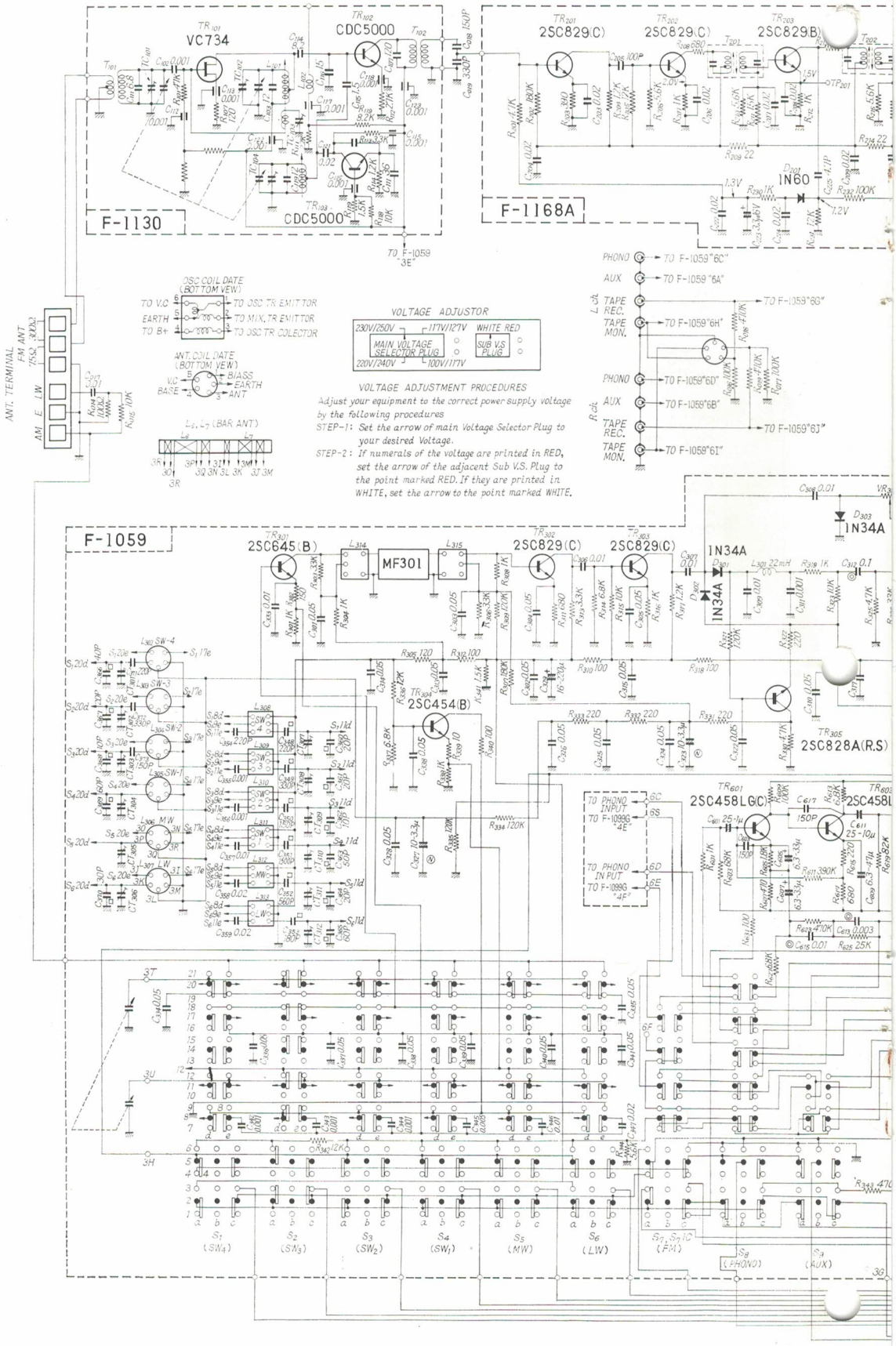
NOTE: (1) Adjust the signal generator for the lowest possible level.

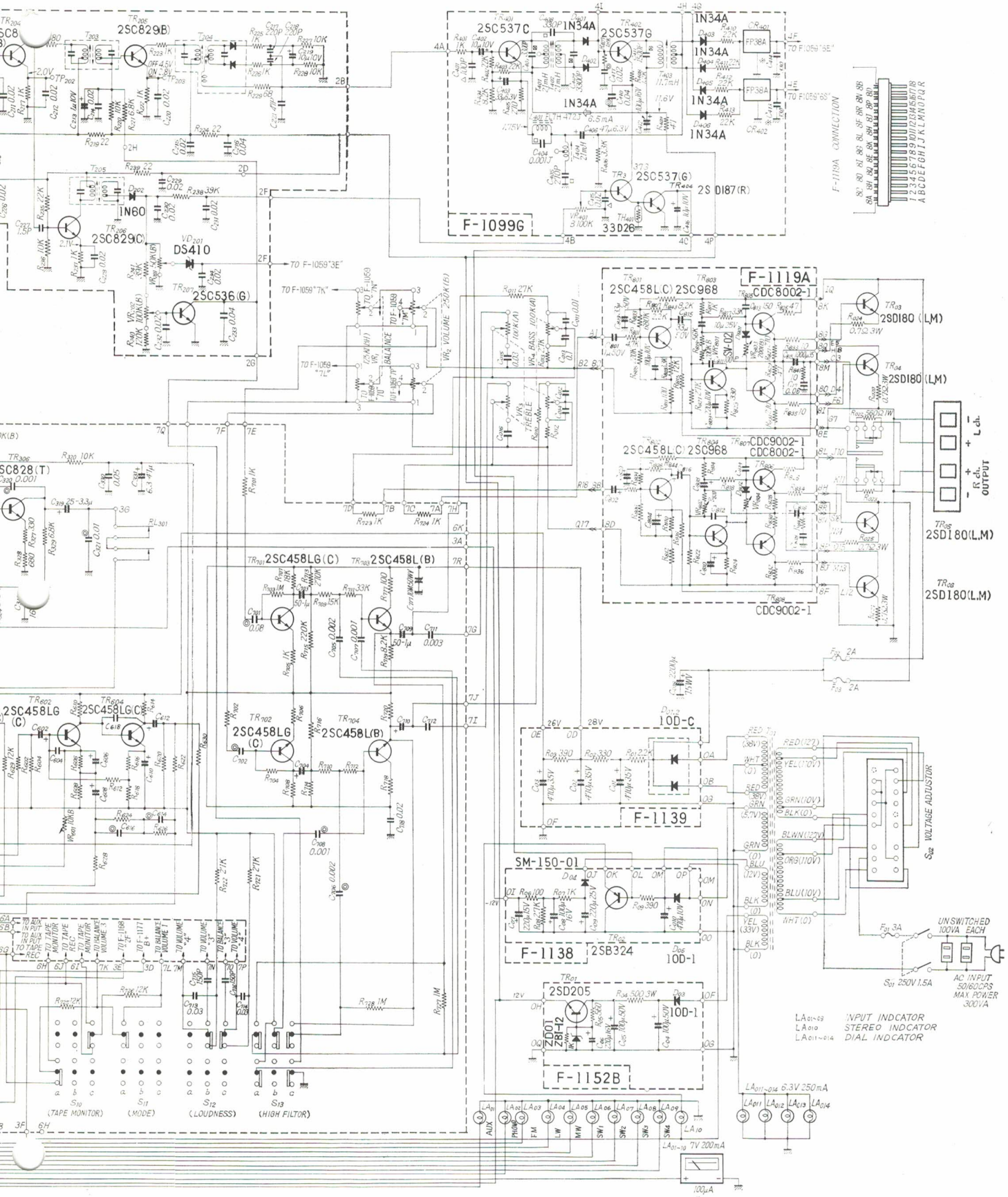
(2) In case of separate adjustment in every band, repeat the steps 1 & 2 for the local oscillator adjustment several times, and then repeat the steps 1 & 2 for the antenna circuit adjustment.

AM IF CHARACTERISTIC



SCHEMATIC DIAGRAM




F-1099G
F-1119A
F-1139
F-1138
F-1152B
SM-150-01
2SC829(B)
2SC829(C)
2SC536(G)
2SC537(C)
2SC537(G)
2SD187(R)
2SC458LG(C)
2SC458L(B)
2SC458LG
2SC458L(C)2SC968
CDC8002-1
CDC9002-1
2SD180(LM)
2SD180(L,M)
2SB324
2SD205
1N34A
1N60
DS410
33D26
1OD-C
1OD-1
Z01 Z8I-12
F-1119A CONNECTION
TO F-1059"3E"
TO F-1059"7K"
TO F-1059"7L"
TO F-1059"6S"
VR1 VOLUME 250K(16)
VR2 BALANCE
VR3 TREBLE
VR4 BASS 100K(A)
L ch.
R ch.
OUTPUT
UNSWITCHED 100VA EACH
AC INPUT 50/60CPS MAX POWER 300VA
VOLTAGE ADJUSTOR
INPUT INDICATOR
STEREO INDICATOR
DIAL INDICATOR
(TAPE MONITOR)
(MODE)
(LOUDNESS)
(HIGH FILTOR)
AUX
PHONO
FM
LW
MW
SW1
SW2
SW3
SW4
100μA

PRINTED CIRCUIT SHEETS AND PARTS LIST

Power ⟨F-1138⟩

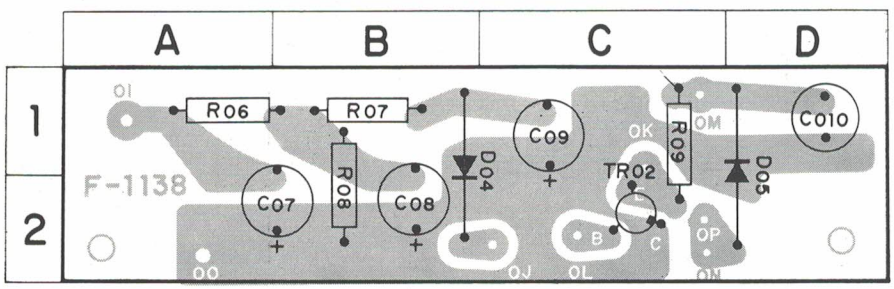
X	Y	Z
R06	100Ω ±10% ½W Solid Resistor	1 A
R07	1kΩ ±10% ½W Solid Resistor	1 B
R08	2.7kΩ ±10% ½W Solid Resistor	2 B
R09	390Ω ±10% ½W Solid Resistor	1 C
C07	220μF $^{+100}_{-0}$% 16 WV Electrolytic Capacitor	2 A
C08	100μF $^{+100}_{-0}$% 16 WV Electrolytic Capacitor	2 B
C09	220μF $^{+100}_{-0}$% 25 WV Electrolytic Capacitor	1 C
C010	470μF $^{+100}_{-0}$% 10 WV Electrolytic Capacitor	1 D
TR02	2SB324 (030311)	2 C
D04	SM-150-01 (031028)	1 B
D05	10D1 (031034)	1 D

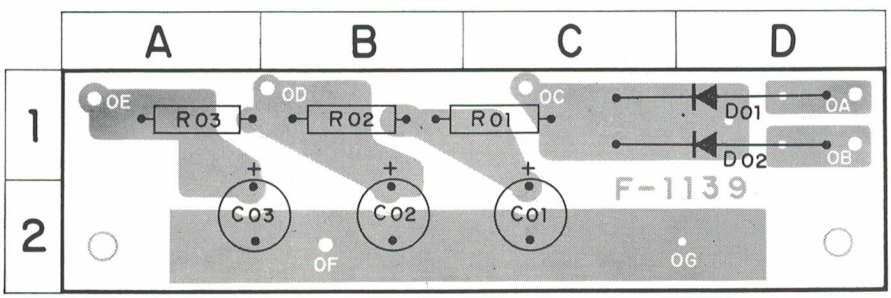
Power ⟨F-1139⟩

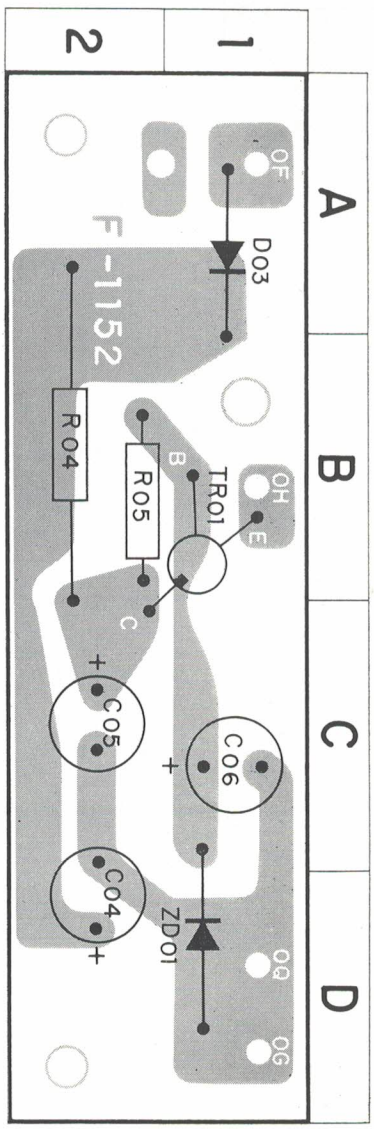
X	Y	Z
R01	2.2kΩ ±10% ½W Solid Resistor	1 C
R02	330Ω ±10% ½W Solid Resistor	1 B
R03	390Ω ±10% ½W Solid Resistor	1 A
C01	470μF $^{+100}_{-0}$% 35 WV Electrolytic Capacitor	2 C
C02	470μF $^{+100}_{-0}$% 35 WV Electrolytic Capacitor	2 B
C03	470μF $^{+100}_{-0}$% 35 WV Electrolytic Capacitor	2 A
D01, D02	10DC (N)	1 D

Power ⟨F-1152B⟩

X	Y	Z
R04	500Ω 3 W Cement Resistor (012036)	2 B
R05	560Ω ±10% ½W Solid Resistor	2 B
C04	100μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	2 D
C05	100μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	2 C
C06	220μF $^{+100}_{-0}$% 16 WV Electrolytic Capacitor	1 C
TR01	2SD205 (K, L) (030813,-1)	1 B
D03	10D1 (031034)	1 A
ZD01	ZB1-12 (031064-1)	1 D





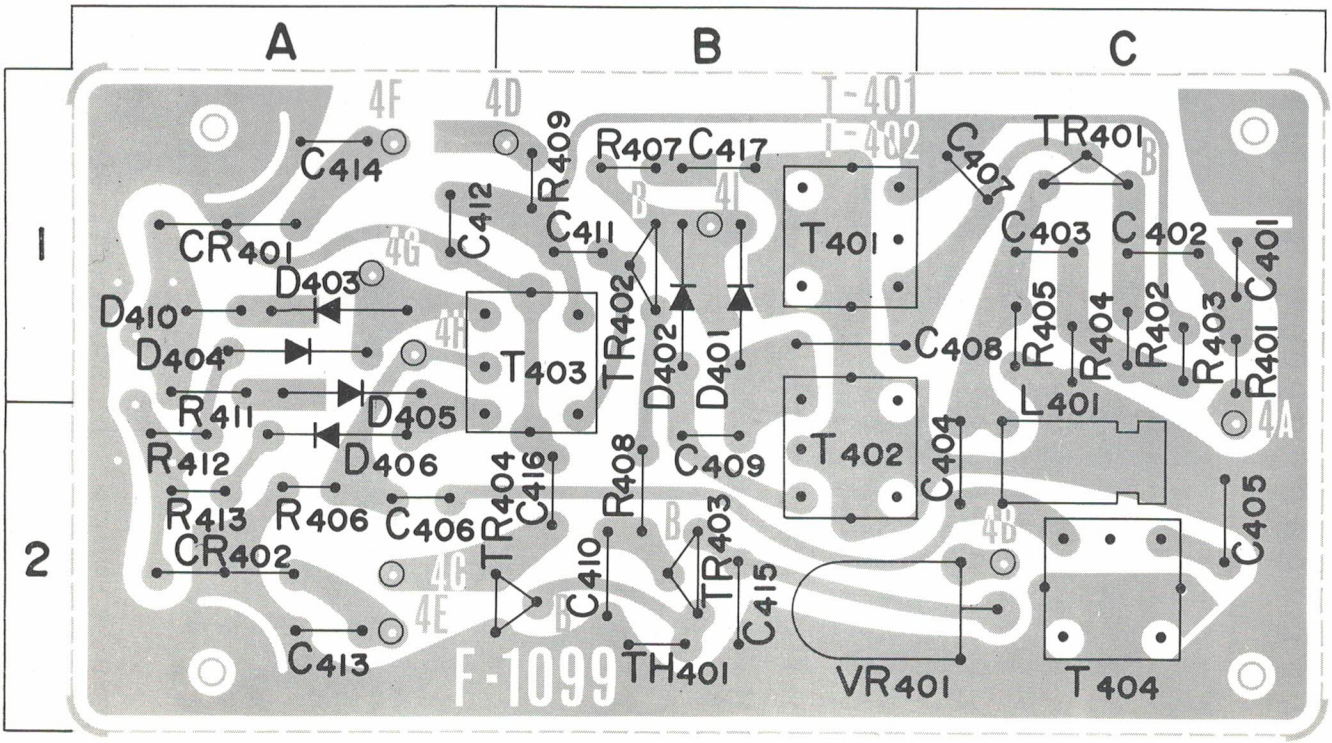


X : Parts No.
Y : Parts Name
Z : Co-ordinates in Printed Circuit Sheets

FM Multiplex and Indicator 〈F-1099G〉

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	33D26 Thermistor	2 B
C401	100pF ±10% 50 WV Ceramic Capacitor	1 C
C402	10μF $^{+100}_{-0}$% 10 WV RB Electrolytic Capacitor	1 C
C403	33μF $^{+100}_{-0}$% 6.3 WV RB Electrolytic Capacitor	1 C
C404	0.001μF ± 5 % 50 WV Styrol Capacitor	2 C
C405	270pF ± 5 % 50 WV Styrol Capacitor	2 C
C406	47μF $^{+100}_{-0}$% 6.3 WV RB Electrolytic Capacitor	2 A
C407	3300pF ± 5 % 50 WV Styrol Capacitor	1 C
C408	330pF ±10% 50 WV Styrol Capacitor	1 B
C409	3300pF ± 5 % 50 WV Styrol Capacitor	2 B
C410	0.04μF ±10% 50 WV Mylar Capacitor	2 B
C411	1500pF ± 5 % 50 WV Styrol Capacitor	1 B

X	Y	Z
C412	100μF $^{+100}_{-0}$% 16 WV RB Electrolytic Capacitor	1 A
C413	330pF ± 5 % 50 WV Styrol Capacitor	2 A
C414	330pF ± 5 % 50 WV Styrol Capacitor	1 A
C415	0.02μF 25 WV Ceramic Capacitor	2 B
C416	10μF $^{+100}_{-0}$% 10 WV RB Electrolytic Capacitor	2 B
C417	0.02μF ±10% 50 WV Mylar Capacitor	1 B
CR401	FP38A (080008)	1 A
CR402	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	2SD187 (030814)	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	19kHz Tuning (424030)	1 B
T402	19kHz Tuning (424030)	2 B
T403	38kHz Tuning (424030)	1 A
T404	67kHz Tuning (424031)	2 C
L401	71kHz Tuning (490003)	2 C
VR401	Indicator Control 100kΩ(B) (103034)	2 B

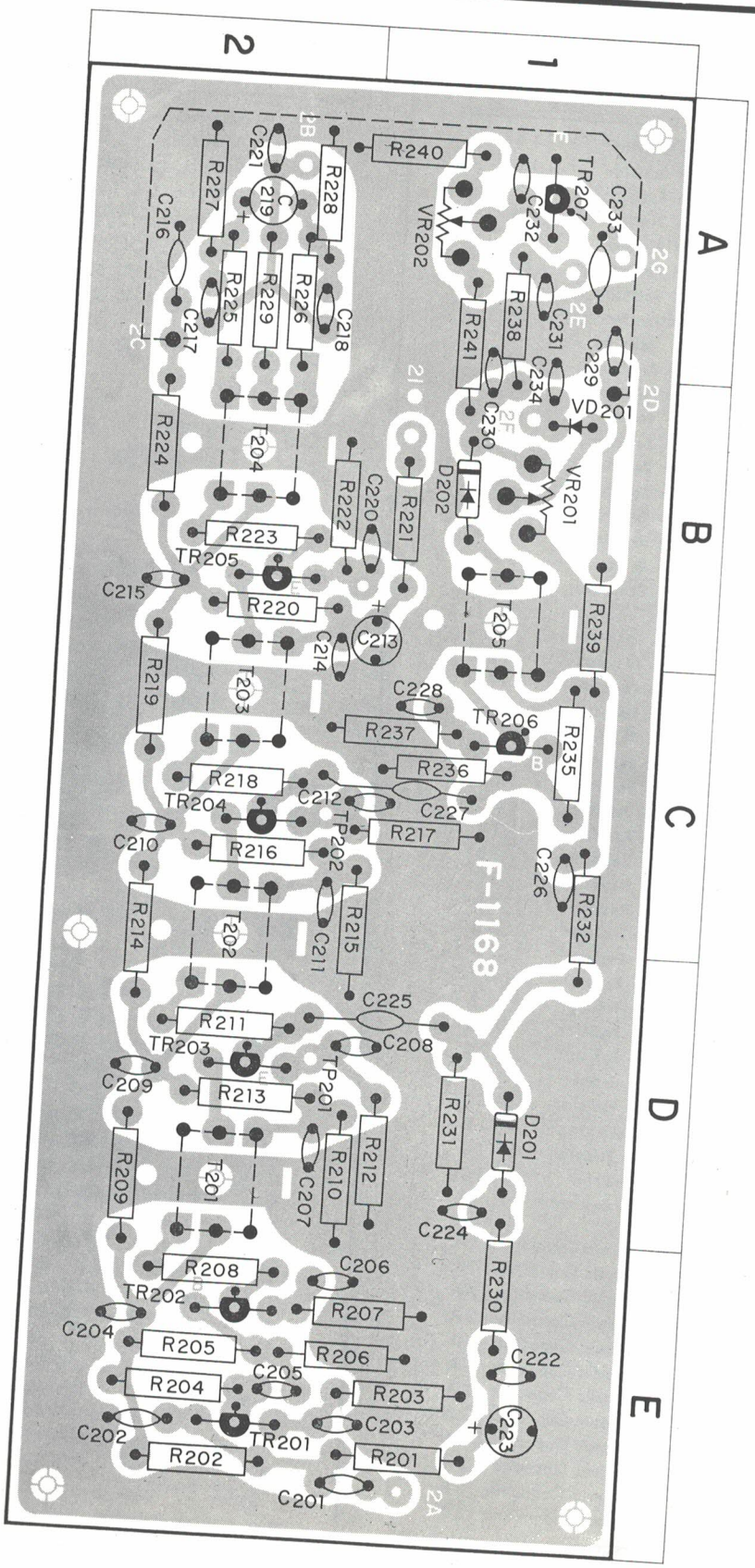


PRINTED CIRCUIT SHEETS AND PARTS LIST

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

FM IF 〈F-1168A〉

X	Y	Z
R201	4.7kΩ ±10% ¼W Carbon Resistor	1 E
R202	180kΩ ±10% ¼W Carbon Resistor	2 E
R203	390Ω ±10% ¼W Carbon Resistor	1 E
R204	1.2kΩ ±10% ¼W Carbon Resistor	2 E
R205	12kΩ ±10% ¼W Carbon Resistor	2 E
R206	5.6kΩ ±10% ¼W Carbon Resistor	1 E
R207	1kΩ ±10% ¼W Carbon Resistor	1 E
R208	680Ω ±10% ¼W Carbon Resistor	2 E
R209	22Ω ±10% ¼W Carbon Resistor	2 D
R210	5.6kΩ ±10% ¼W Carbon Resistor	1 D
R211	15kΩ ±10% ¼W Carbon Resistor	2 D
R212	1kΩ ±10% ¼W Carbon Resistor	1 D
R213	1kΩ ±10% ¼W Carbon Resistor	2 D
R214	22Ω ±10% ¼W Carbon Resistor	2 C
R215	5.6kΩ ±10% ¼W Carbon Resistor	1 C
R216	12kΩ ±10% ¼W Carbon Resistor	2 C
R217	1kΩ ±10% ¼W Carbon Resistor	1 C
R218	680Ω ±10% ¼W Carbon Resistor	2 C
R219	22Ω ±10% ¼W Carbon Resistor	2 C
R220	10kΩ ±10% ¼W Carbon Resistor	2 B
R221	6.8kΩ ±10% ¼W Carbon Resistor	1 B
R222	1kΩ ±10% ¼W Carbon Resistor	2 B
R223	1kΩ ±10% ¼W Carbon Resistor	2 B
R224	22Ω ±10% ¼W Carbon Resistor	2 B
R225	1kΩ ±10% ¼W Carbon Resistor	2 A
R226	1kΩ ±10% ¼W Carbon Resistor	2 A
R227	10kΩ ±10% ¼W Carbon Resistor	2 A
R228	10kΩ ±10% ¼W Carbon Resistor	2 A
R229	68Ω ±10% ¼W Carbon Resistor	2 A
R230	1kΩ ±10% ¼W Carbon Resistor	1 E
R231	12kΩ ±10% ¼W Carbon Resistor	1 D
R232	100kΩ ±10% ¼W Carbon Resistor	1 C
R235	22kΩ ±10% ¼W Carbon Resistor	1 C
R236	10kΩ ±10% ¼W Carbon Resistor	1 C
R237	1kΩ ±10% ¼W Carbon Resistor	1 C
R238	39kΩ ±10% ¼W Carbon Resistor	1 A
R239	22Ω ±10% ¼W Carbon Resistor	1 B
R240	120kΩ ±10% ¼W Carbon Resistor	1 A
R241	39kΩ ±10% ¼W Carbon Resistor	1 A
C203	0.02μF $^{+100}_{-0}$% 25 WV Ceramic Capacitor	1 E
C204	0.02μF $^{+100}_{-0}$% 25 WV Ceramic Capacitor	2 E
C205	100pF ±10% 50 WV Ceramic Capacitor	2 E
C206	0.02μF $^{+100}_{-0}$% 25 WV Ceramic Capacitor	1 E
C207	0.02μF $^{+100}_{-0}$% 25 WV Ceramic Capacitor	2 D
C208	0.02μF $^{+100}_{-0}$% 25 WV Ceramic Capacitor	1 D
C209	0.02μF $^{+100}_{-0}$% 25 WV Ceramic Capacitor	2 D
C210	0.02μF $^{+100}_{-0}$% 25 WV Ceramic Capacitor	2 C
C211	0.02μF $^{+100}_{-0}$% 25 WV Ceramic Capacitor	2 C
C212	0.02μF $^{+100}_{-0}$% 25 WV Ceramic Capacitor	1 C
C213	1μF $^{+100}_{-0}$% 10 WV Electrolytic Capacitor	1 B
C214	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 B
C215	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 B
C216	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 A
C217	220pF ±10% 50 WV Ceramic Capacitor	2 A
C218	220pF ±10% 50 WV Ceramic Capacitor	2 A
C219	10μF $^{+100}_{-0}$% 10 WV Electrolytic Capacitor	2 A
C220	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 B
C221	47pF ±10% 50 WV Ceramic Capacitor	2 A
C222	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 E
C223	3.3μF $^{+100}_{-0}$% 16 WV Electrolytic Capacitor	1 E
C224	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 D
C225	4.7pF ±0.5p 50 WV Ceramic Capacitor	1 D
C226	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 C
C227	1.5pF ±0.5p 50 WV Ceramic Capacitor	1 C
C228	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 C
C229	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 A
C230	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 A
C231	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 A
C232	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 A
C233	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 A
C234	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 A
TR201	2SC829 (C) (03546-1)	2 E
TR202	2SC829 (C) (03546-1)	2 E
TR203	2SC829 (B) (03546)	2 D
TR204	2SC829 (B) (03546)	2 C
TR205	2SC829 (B) (03546)	2 B
TR206	2SC829 (C) (03546-1)	1 C
TR207	2SC536 (G) (030524-8)	1 A
D201	IN60 (031033)	1 D
D202	IN60 (031033)	1 B
VD201	DS-410 (034003)	1 B
VR201	50kΩ B Semi Variable Resistor (103020)	1 B
VR202	100kΩ B Semi Variable Resistor (103034)	1 A
T201	FM IF Transformer (423543)	2 D
T202	FM IF Transformer (423544)	2 D
T203	FM IF Transformer (423542)	2 C
T204	FM IF Transformer (423518)	2 B
T205	FM IF Transformer (423529)	1 B


1
2
A
B
C
D
E
F-1168
R240
VR202
TR207
C233
C232
R238
C231
C234
C229
D201
R241
C230
D202
VR201
C221
C219
R227
R228
C216
R225
R229
R226
C218
C217
R224
T204
C220
R222
R221
R223
TR205
C215
R220
C213
C214
T205
R239
R219
T203
C228
R237
TR206
R235
R236
R218
C212
C227
TR204
C210
R216
TP202
R217
C226
R232
R214
T202
R215
C211
C225
R211
C208
TR203
C209
R213
TP201
R231
D201
R209
T201
R212
R210
C207
C224
R230
R208
C206
TR202
R207
C204
R205
R206
C222
R204
C205
R203
C223
C202
TR201
C203
R202
R201
C201

PRINTED CIRCUIT SHEETS AND PARTS LIST

AM Block ⟨F-1059⟩

X	Y	Z
R301	1kΩ ±10% ¼W Carbon Resistor	1 B
R302	150Ω ±10% ¼W Carbon Resistor	1 B
R303	33kΩ ±10% ¼W Carbon Resistor	1 A
R304	1kΩ ±10% ¼W Carbon Resistor	1 A
R305	120Ω ±10% ¼W Carbon Resistor	1 B
R306	33kΩ ±10% ¼W Carbon Resistor	2 A
R307	180kΩ ±10% ¼W Carbon Resistor	3 A
R308	1kΩ ±10% ¼W Carbon Resistor	3 A
R309	120kΩ ±10% ¼W Carbon Resistor	3 A
R310	100Ω ±10% ¼W Carbon Resistor	3 A
R311	680Ω ±10% ¼W Carbon Resistor	3 A
R312	100Ω ±10% ¼W Carbon Resistor	2 A
R313	3.3kΩ ±10% ¼W Carbon Resistor	3 A
R314	6.8kΩ ±10% ¼W Carbno Resistor	3 A
R315	10kΩ ±10% ¼W Carbon Resistor	3 A
R316	1kΩ ±10% ¼W Carbon Resistor	3 A
R317	1.2kΩ ±10% ¼W Carbon Resistor	3 A
R318	100Ω ±10% ¼W Carbon Resistor	3 B
R319	1kΩ ±10% ¼W Carbon Resistor	3 B
R320	10kΩ ±10% ¼W Carbon Resistor	3 A
R321	120kΩ ±10% ¼W Carbon Resistor	3 B
R322	220Ω ±10% ¼W Carbon Resistor	3 B
R323	10kΩ ±10% ¼W Carbon Resistor	3 B
R324	270kΩ ±10% ¼W Carbon Resistor	3 B
R325	4.7kΩ ±10% ¼W Carbon Resistor	3 B
R326	33kΩ ±10% ¼W Carbon Resistor	3 B
R327	330Ω ±10% ¼W Carbon Resistor	3 B
R328	680Ω ±10% ¼W Carbon Resistor	3 B
R329	6.8kΩ ±10% ¼W Carbon Resistor	3 B
R330	4.7kΩ ±10% ¼W Carbon Resistor	3 B
R331	220Ω ±10% ¼W Carbon Resistor	3 B
R332	220Ω ±10% ¼W Carbon Resistor	3 B
R333	220Ω ±10% ¼W Carbon Resistor	3 B
R334	120kΩ ±10% ¼W Carbon Resistor	3 B
R335	120kΩ ±10% ¼W Carbon Resistor	3 B
R336	12kΩ ±10% ¼W Carbon Resistor	1 B
R337	6.8kΩ ±10% ¼W Carbon Resistor	2 B
R338	1kΩ ±10% ¼W Carbon Resistor	2 B
R339	10Ω ±10% ¼W Carbon Resistor	2 B
R340	100Ω ±10% ¼W Carbon Resistor	2 B
R341	1.5kΩ ±10% ½W Solid Resistor	1 B
R342	12kΩ ±10% ¼W Carbon Resistor	1 C
R343	470Ω ±10% ½W Solid Resistor	1 G
R344	5.6kΩ ±10% ¼W Carbon Resistor	
C301	0.05μF 25 WV Ceramic Capacitor	1 A
C302	0.05μF 25 WV Ceramic Capacitor	3 A
C303	0.05μF 25 WV Ceramic Capacitor	3 A
C304	0.05μF 25 WV Ceramic Capacitor	3 A
C305	0.05μF 25 WV Ceramic Capacitor	3 A
C306	0.01μF 25 WV Ceramic Capacitor	3 A
C307	0.01μF 25 WV Ceramic Capacitor	3 A
C308	0.01μF 25 WV Ceramic Capacitor	3 A
C309	0.01μF 25 WV Ceramic Capacitor	3 A
C310	0.05μF 25 WV Ceramic Capacitor	3 A
C311	0.001μF 25 WV Ceramic Capacitor	3 B
C312	0.1μF ±10% 50 WV Mylar Capacitor	3 B

X	Y	Z
C313	0.05μF 25 WV Ceramic Capacitor	2 A
C314	0.05μF 25 WV Ceramic Capacitor	1 B
C315	0.05μF 25 WV Ceramic Capacitor	3 A
C317	0.05μF 25 WV Ceramic Capacitor	3 B
C318	220μF $^{+100}_{-0}$% 16 WV Electrolytic Capacitor	3 B
C319	3.3μF $^{+100}_{-0}$% 25 WV Electrolytic Capacitor	3 B
C320	0.001μF ±10% 50 WV Mylar Capacitor	3 B
C321	0.01μF ±10% 50 WV Myiar Capacitor	3 B
C322	0.05μF 25 WV Ceramic Capacitor	3 B
C323	3.3μF $^{+100}_{-0}$% 10 WV Electrolytic Capacitor (None Polar)	3 B
C324	0.05μF 25 WV Ceramic Capacitor	3 A
C325	0.05μF 25 WV Ceramic Capacitor	3 B
C326	0.05μF 25 WV Ceramic Capacitor	3 B
C327	3.3μF $^{+100}_{-0}$% 10 WV Electrolytic Capacitor (None Polar)	3 B
C328	0.05μF 25 WV Ceramic Capacitor	3 C
C329	220μF $^{+100}_{-0}$% 16 WV Electrolytic Capacitor	2 A
C330	0.05μF 25 WV Ceramic Capacitor	3 A
C331	47μF $^{+100}_{-0}$% 6.3 WV Electrolytic Capacitor	1 A
C332	0.05μF 25 WV Ceramic Capacitor	1 B
C333	0.01μF 25 WV Ceramic Capacitor	
C334	0.05μF 25 WV Ceramic Capacitor	3 C
C335	0.05μF 25 WV Ceramic Capacitor	3 E
C336	0.05μF 25 WV Ceramic Capacitor	2 C
C337	0.05μF 25 WV Ceramic Capacitor	2 C
C338	0.05μF 25 WV Ceramic Capacitor	2 D
C339	0.05μF 25 WV Ceramic Capacitor	2 D
C340	0.05μF 25 WV Ceramic Capacitor	2 D
C341	0.05μF 25 WV Ceramic Capacitor	2 E
C342	0.001μF ± 5 % 25 WV Ceramic Capacitor	1 A
C343	0.001μF 25 WV Ceramic Capacitor	1 A
C344	0.001μF 25 WV Ceramic Capacitor	1 A
C345	0.005μF 25 WV Ceramic Capacitor	1 D
C346	0.01μF 25 WV Ceramic Capacitor	1 D
C347	0.02μF 25 WV Ceramic Capacitor	1 E
C348	220pF ± 5 % 50 WV Mica Capacitor	2 B
C349	330pF ± 5 % 50 WV Mica Capacitor	2 C
C350	150pF ± 5 % 50 WV Mica Capacitor	2 C
C351	1500pF ± 5 % Styrol Capacitor	2 D
C352	560pF ± 5 % Styrol Capacitor	2 D
C353	180pF ± 5 % 50 WV Mica Capacitor	2 D
C354	470pF ±10% 50 WV Ceramic Capacitor	2 C
C355	330pF ±10% 50 WV Ceramic Capacitor	2 C
C356	0.002μF ±10% 50 WV Ceramic Capacitor	2 C
C357	0.01μF 25 WV Ceramic Capacitor	2 D
C358	0.02μF 25 WV Ceramic Capacitor	2 D
C359	0.02μF 25 WV Ceramic Capacitor	2 E
C360	20pF ± 5 % 50 WV FM Capacitor	2 C
C361	20pF ± 5 % 50 WV FM Capacitor	2 C
C362	10pF ± 5 % 50 WV FM Capacitor	2 C
C363	50pF ± 5 % 50 WV FM Capacitor	2 D
C364	20pF ± 5 % 50 WV FM Capacitor	2 D
C365	60pF ± 5 % 50 WV FM Capacitor	2 E
C366	40pF ± 5 % 50 WV FM Capacitor	3 C
C367	20pF ± 5 % 50 WV FM Capacitor	3 C
C368	10pF ± 5 % 50 WV FM Capacitor	3 C

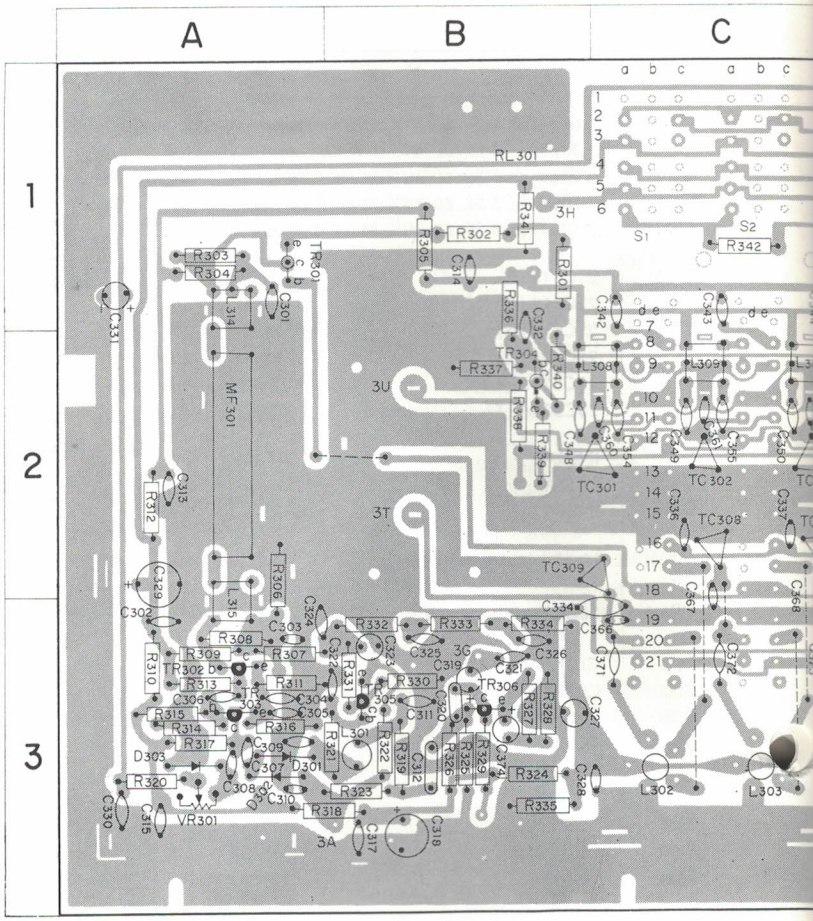
X : Parts No.
Y : Parts Name
Z : Co-ordinates in Printed Circuit Sheets

X	Y		Z
C369	60pF ± 5 % 50 WV FM Capacitor		3 D
C370	30pF ± 5 % 50 WV FM Capacitor		3 E
C371	220pF ± 5 % 50 WV Mica Capacitor		3 C
C372	330pF ± 5 % 50 WV Mica Capacitor		3 C
C373	150pF ± 5 % 50 WV Mica Capacitor		3 C
TR301	2SC645 (B)	(030523)	1 A
TR302	2SC829 (C)	(030546-1)	3 A
TR303	2SC829 (C)	(030546-1)	3 A
TR304	2SC454 (B)	(030542-1)	2 B
TR305	2SC828A (R.S)	(030554-2,3)	3 B
TR306	2SC828A (T)	(030527)	3 B
D301	IN34A	(031040-1)	3 A
D302	IN34A	(031040-1)	3 A
D303	IN34A	(031040-1)	3 A
MF301	Mechanical Filtor		2 A
VR301	Semi Variable Resistor 10kΩB	(103019)	3 A
S301	CL2102B4	(111014)	1 C
S302	CL2102B4	(111014)	1 C
S303	CL2102B4	(111014)	1 D
S304	CL2102B4	(111014)	1 D
S305	CL2102B4	(111014)	1 D
S306	CL2102B4	(111014)	1 E
S307	CL282B4	(111013)	1 E
S308	CL2102B4	(111014)	1 F
S309	CL242B4	(111012)	1 F
S310	UM424-20	(113011)	1 G
S311	UM954-20	(112012)	1 G
VC301	B623AC	(120003)	2 B
CT301	ECV 1ZW 20P12		2 C
CT302	ECV 1ZW 20P12		2 C
CT303	ECV 1ZW 20P12		2 C
CT304	ECV 1ZW 20P12		2 D
CT305	ECV 1ZW 20P12		2 D
CT306	ECV 1ZW 20P12		2 E
CT307	ECV 1ZW 20P12		2 C
CT308	ECV 1ZW 20P12		2 C
CT309	ECV 1ZW 20P12		2 C
CT310	ECV 1ZW 20P12		2 D
CT311	ECV 1ZW 20P12		2 D
CT312	ECV 1ZW 20P12		2 E
S312	Joint Switch	(115003)	1 H
L301	Inductor	(490006)	3 B
L302	SW-4 Ant. Coil	(420018)	3 C
L303	SW-3 Ant. Coil	(420017)	3 C
L304	SW-2 Ant. Coil	(420019)	3 D
L305	SW-1 Ant. Coil	(420020)	3 D
L308	SW4-OSC Coil	(422015)	2 C
L309	SW3-OSC Coil	(422014)	2 C
L310	SW2-OSC Coil	(422013)	2 C
L311	SW1-OSC Coil	(422012)	2 D
L312	MW OSC Coil	(422011)	2 D
L313	LW OSC Coil	(422010)	2 E

PRINTED CIRCUIT SHEETS AND PARTS LIST

Equalizer Bluck ⟨F-1059⟩

X	Y	Z
R601	1kΩ ±10% ¼W Carbon Resistor	3 F
R602	1kΩ ±10% ¼W Carbon Resistor	2 F
R603	68kΩ ±10% ¼W Carbon Resistor	3 F
R604	68kΩ ±10% ¼W Carbon Resistor	2 F
R605	1.8kΩ ±10% ¼W Carbon Resistor	3 F
R606	1.8kΩ ±10% ¼W Carbon Resistor	2 F
R607	470Ω ±10% ¼W Carbon Resistor	3 F
R608	470Ω ±10% ¼W Carbon Resistor	2 F
R609	100kΩ ±10% ¼W Carbon Resistor	3 F
R610	100kΩ ±10% ¼W Carbon Resistor	2G
R611	390kΩ ±10% ¼W Carbon Resistor	3 F
R612	390kΩ ±10% ¼W Carbon Resistor	2G
R613	6.8kΩ ±10% ¼W Carbon Resistor	3G
R614	6.8kΩ ±10% ¼W Carbon Resistor	2G
R615	220Ω ±10% ¼W Carbon Resistor	3G
R616	220Ω ±10% ¼W Carbon Resistor	2G
R617	680Ω ±10% ¼W Carbon Resistor	3G
R618	680Ω ±10% ¼W Carbon Resistor	2G
R619	12kΩ ±10% ¼W Carbon Resistor	3G
R620	12kΩ ±10% ¼W Carbon Resistor	2G
R621	100Ω ±10% ¼W Carbon Resistor	3G
R622	100Ω ±10% ¼W Carbon Resistor	2G
R623	470kΩ ±10% ¼W Carbon Resistor	3G
R624	470kΩ ±10% ¼W Carbon Resistor	2G
R625	25kΩ ±10% ¼W Carbon Resistor	3G
R626	25kΩ ±10% ¼W Carbon Resistor	2G
R627	6.8kΩ ±10% ¼W Carbon Resistor	3 F
R628	6.8kΩ ±10% ¼W Carbon Resistor	2 F
R629	12kΩ ±10% ¼W Carbon Resistor	2G
R630	12kΩ ±10% ¼W Carbon Resistor	2 F
R631	100Ω ±10% ¼W Carbon Resistor	3 F
C601	1μF $^{+100}_{-0}$% 25 WV Tantalum Capacitor	3 F
C602	1μF $^{+100}_{-0}$% 25 WV Tantalum Capacitor	2 F
C603	150pF ±10% 50 WV Ceramic Capacitor	3 F
C604	150pF ±10% 50 WV Ceramic Capacitor	2G
C605	33μF $^{+100}_{-0}$% 6.3 WV Electrolytic Capacitor	3 F
C606	33μF $^{+100}_{-0}$% 6.3 WV Electrolytic Capacitor	2 F
C607	33μF $^{+100}_{-0}$% 6.3 WV Electrolytic Capacitor	3 F
C608	33μF $^{+100}_{-0}$% 6.3 WV Electrolytic Capacitor	2 F
C609	47μF $^{+100}_{-0}$% 6.3 WV Electrolytic Capacitor	3G
C610	47μF $^{+100}_{-0}$% 6.3 WV Electrolytic Capacitor	2G
C611	10μF $^{+100}_{-0}$% 25 WV Electrolytic Capacitor	3G
C612	10μF $^{+100}_{-0}$% 25 WV Electrolytic Capacitor	2G
C613	0.003μF ±10% 50 WV Mylar Capacitor	3G
C614	0.003μF ±10% 50 WV Mylar Capacitor	2G
C615	0.01μF ±10% 50 WV Mylar Capacitor	3G
C616	0.01μF ±10% 50 WV Mylar Capacitor	2G
C617	150pF ±10% 50 WV Ceramic Capacitor	3G
C618	150pF ±10% 50 WV Ceramic Capacitor	2G
TR601	2SC458LG (C) (030531-1)	3 F
TR602	2SC458LG (C) (030531-1)	2G
TR603	2SC458LG (C) (030531-1)	3G
TR604	2SC458LG (C) (030531-1)	2G
VR601	Separation VR 10kΩ (B) (103019)	2 F



Tone Control Block ⟨F-1059⟩

X	Y	Z
R701	1kΩ ±10% ¼W Carbon Resistor	3 H
R702	1kΩ ±10% ¼W Carbon Resistor	3 H
R703	1MΩ ±10% ¼W Carbon Resistor	3 H
R704	1MΩ ±10% ¼W Carbon Resistor	3 H
R705	1kΩ ±10% ¼W Carbon Resistor	3 H
R706	1kΩ ±10% ¼W Carbon Resistor	3 H
R707	18kΩ ±10% ¼W Carbon Resistor	3 H
R708	18kΩ ±10% ¼W Carbon Resistor	3 H
R709	15kΩ ±10% ¼W Carbon Resistor	3 H
R710	15kΩ ±10% ¼W Carbon Resistor	3 H
R711	33kΩ ±10% ¼W Carbon Resistor	2 H
R712	33kΩ ±10% ¼W Carbon Resistor	2 H
R713	270kΩ ±10% ¼W Carbon Resistor	3 H
R714	270kΩ ±10% ¼W Carbon Resistor	3 H
R715	220kΩ ±10% ¼W Carbon Resistor	3 H
R716	220kΩ ±10% ¼W Carbon Resistor	3 H
R717	100Ω ±10% ¼W Carbon Resistor	2 H
R718	100Ω ±10% ¼W Carbon Resistor	2 H
R719	8.2kΩ ±10% ¼W Carbon Resistor	2 H
R720	8.2kΩ ±10% ¼W Carbon Resistor	2 H
R721	27kΩ ±10% ¼W Carbon Resistor	1 H

X : Parts No.
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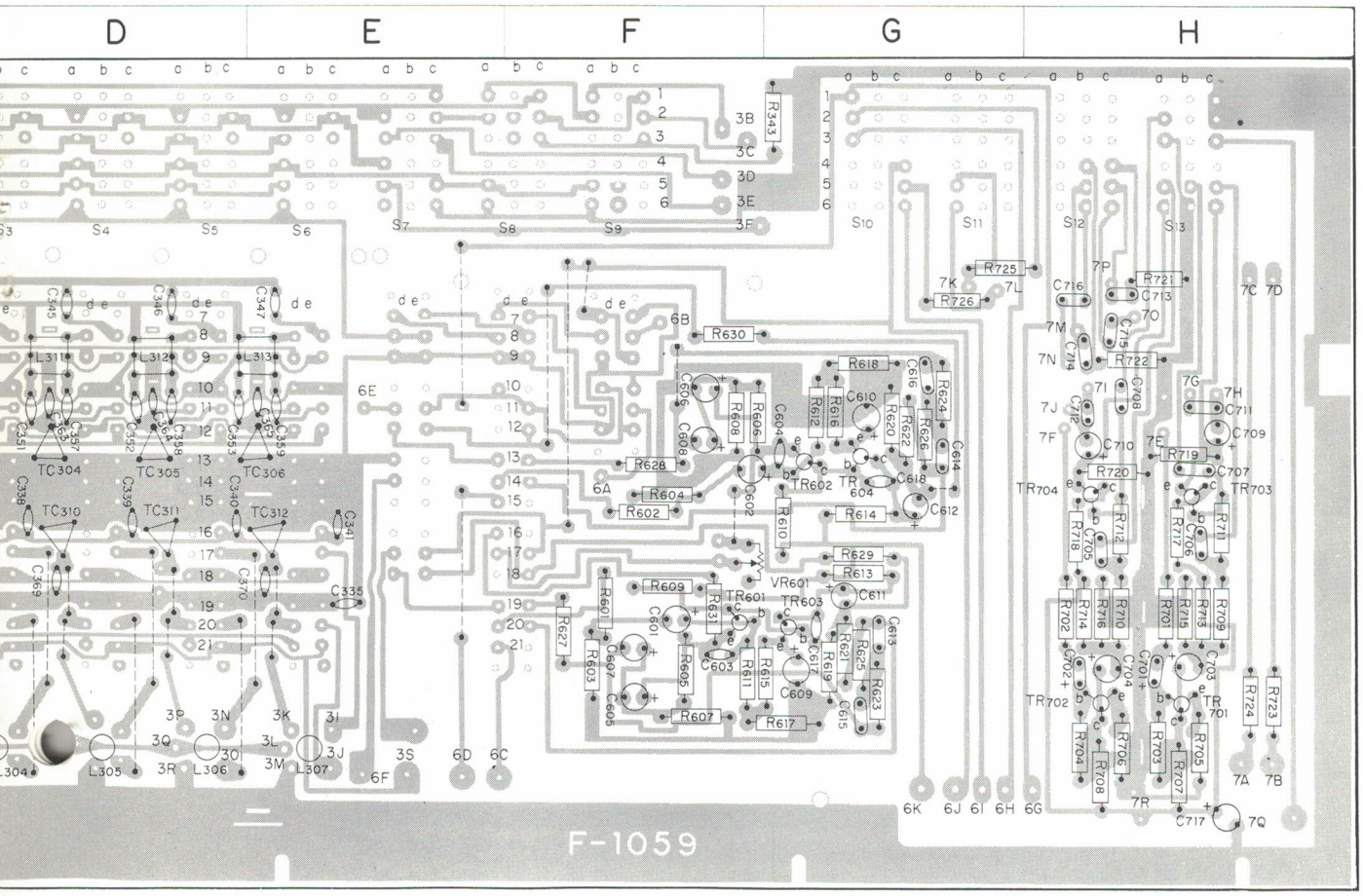


X	Y	Z
R722	27kΩ ±10% ¼W Carbon Resistor	2H
R723	1kΩ ±10% ¼W Carbon Resistor	3H
R724	1kΩ ±10% ¼W Carbon Resistor	3H
R725	12kΩ ±10% ¼W Carbon Resistor	1G
R726	12kΩ ±10% ¼W Carbon Resistor	1G
R727	1MΩ ±10% ¼W Carbon Resistor	
R728	1MΩ ±10% ¼W Carbon Resistor	
C701	0.06μF ±10% 50 WV Mylar Capacitor	3H
C702	0.06μF ±10% 50 WV Mylar Capacitor	3H
C703	1μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	3H
C704	1μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	3H
C705	0.002μF ±10% 50 WV Mylar Capacitor	2H
C706	0.002μF ±10% 50 WV Mylar Capacitor	2H
C707	0.001μF ±10% 50 WV Mylar Capacitor	2H
C708	0.001μF ±10% 50 WV Mylar Capacitor	2H
C709	1μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	2H
C710	1μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	2H
C711	0.003μF ±10% 50 WV Mylar Capacitor	2H
C712	0.003μF ±10% 50 WV Mylar Capacitor	2H

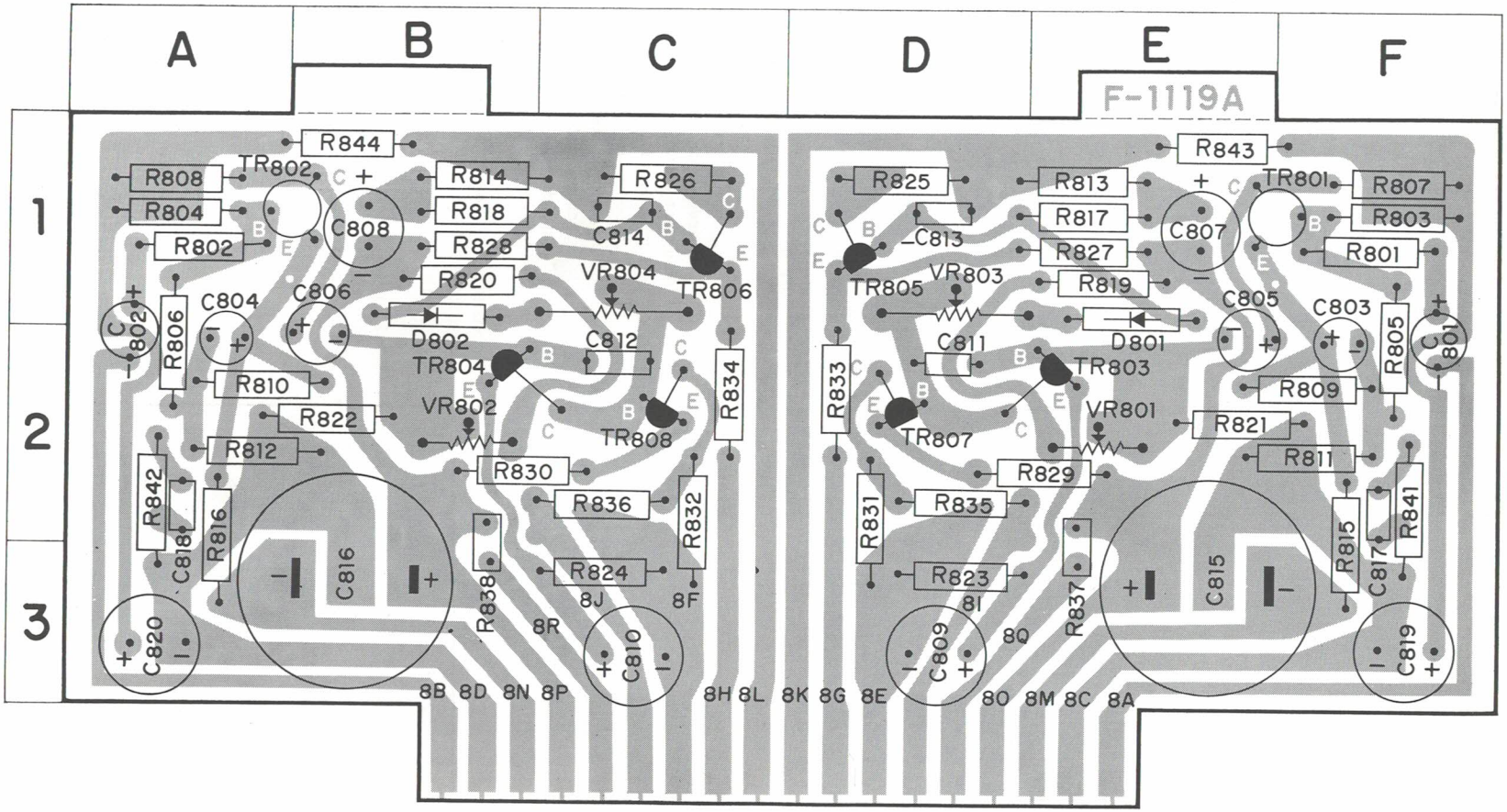
X	Y	Z
C713	0.03μF ±10% 50 WV Mylar Capacitor	1H
C714	0.03μF ±10% 50 WV Mylar Capacitor	2H
C715	150pF ±10% 50 WV Ceramic Capacitor	2H
C716	150pF ±10% 50 WV Ceramic Capacitor	2H
C717	10μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	3H
C718	0.02μF 25 WV Ceramic Capacitor	
TR701	2SC458LG (C) (030531-1)	3H
TR702	2SC458LG (C) (030531-1)	3H
TR703	2SC458L (B) (030542)	2H
TR704	2SC458L (B) (030542)	2H

PRINTED CIRCUIT SHEETS AND PARTS LIST

MAIN AMP 〈F-1119A〉

X	Y	Z
R801	4.7kΩ ±10% ¼W Carbon Resistor	1 F
R802	4.7kΩ ±10% ¼W Carbon Resistor	1 A
R803	680kΩ ±10% ¼W Carbon Resistor	1 F
R804	680kΩ ±10% ¼W Carbon Resistor	1 A
R805	220kΩ ±10% ¼W Carbon Resistor	2 F
R806	220kΩ ±10% ¼W Carbon Resistor	2 A
R807	2.2kΩ ±10% ¼W Carbon Resistor	1 F
R808	2.2kΩ ±10% ¼W Carbon Resistor	1 A
R809	3.3kΩ ±10% ¼W Carbon Resistor	2 F
R810	3.3kΩ ±10% ¼W Carbon Resistor	2 A
R811	100Ω ±10% ¼W Carbon Resistor	2 F
R812	100Ω ±10% ¼W Carbon Resistor	2 A
R813	1kΩ ±10% ¼W Carbon Resistor	1 E
R814	1kΩ ±10% ¼W Carbon Resistor	1 B
R815	12kΩ ±10% ¼W Carbon Resistor	3 F
R816	12kΩ ±10% ¼W Carbon Resistor	3 A
R817	3.3kΩ ±10% ¼W Carbon Resistor	1 E
R818	3.3kΩ ±10% ¼W Carbon Resistor	1 B
R819	56kΩ ±10% ¼W Carbon Resistor	1 E
R820	56kΩ ±10% ¼W Carbon Resistor	1 B
R821	27kΩ ±10% ¼W Carbon Resistor	2 E
R822	27kΩ ±10% ¼W Carbon Resistor	2 B
R823	330Ω ±10% ¼W Carbon Resistor	3 D
R824	330Ω ±10% ¼W Carbon Resistor	3 C
R825	47Ω ±10% ½W Solid Resistor	1 D
R826	47Ω ±10% ½W Solid Resistor	1 C
R827	270Ω ±10% ¼W Carbon Resistor	1 E
R828	270Ω ±10% ¼W Carbon Resistor	1 B
R829	47Ω ±10% ½W Solid Resistor	2 E
R830	47Ω ±10% ½W Solid Resistor	2 C
R831	270Ω ±10% ¼W Carbon Resistor	2 D
R832	270Ω ±10% ¼W Carbon Resistor	2 C
R833	10Ω ±10% ½W Solid Resistor	2 D
R834	10Ω ±10% ½W Solid Resistor	2 C
R835	10Ω ±10% ½W Solid Resistor	2 D
R836	10Ω ±10% ½W Solid Resistor	2 C
R841	10Ω ±10% ½W Solid Resistor	2 F
R842	10Ω ±10% ½W Solid Resistor	2 A
R843	8.2kΩ ±10% ¼W Carbon Resistor	1 E
R844	8.2kΩ ±10% ¼W Carbon Resistor	1 B
C801	0.15μF ±10% 50 WV Mylar Capacitor	1 F
C802	0.15μF ±10% 50 WV Mylar Capacitor	1 A
C803	100μF $^{+100}_{-0}$% 10 WV Electrolytic Capacitor	2 F
C804	100μF $^{+100}_{-0}$% 10 WV Electrolytic Capacitor	2 A
C805	3.3μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	2 E
C806	3.3μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	2 B
C807	47μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	1 E
C808	47μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	1 B
C809	220μF $^{+100}_{-0}$% 10 WV Electrolytic Capacitor	3 D
C810	220μF $^{+100}_{-0}$% 10 WV Electrolytic Capacitor	3 C
C811	100 pF ±10% 50 WV Ceramic Capacitor	2 D
C812	100 pF ±10% 50 WV Ceramic Capacitor	2 C
C813	150 pF ±10% 50 WV Ceramic Capacitor	1 D
C814	150 PF ±10% 50 WV Ceramic Capacitor	1 C

X	Y	Z
C815	1000μF $^{+100}_{-0}$% 35 WV Electrolytic Capacitor	3 E
C816	1000μF $^{+100}_{-0}$% 35 WV Electrolytic Capacitor	2 B
C817	0.06μF ±10% 50 WV Mylar Capacitor	2 F
C818	0.06μF ±10% 50 WV Mylar Capacitor	2 A
C819	100μF $^{+100}_{-0}$% 50 WV Elcctrolytic Capacitor	3 F
C820	100μF $^{+100}_{-0}$% 50 WV Electrolytic Capacitor	3 A
TR801	2SC458LG (B.C) (030531,-1)	1 F
TR802	2SC458LG (B.C) (030531,-1)	1 B
TR803	2SC968 (Y) (030556)	2 E
TR804	2SC968 (Y) (030556)	2 C
TR805	CDC8002-1 (A.B.C) (030555,-1,-2)	1 D
TR806	CDC8002-1 (A.B.C) (030555,-1,-2)	1 C
TR807	CDC9002-1 (A.B.C) (030014,-1,-2)	2 D
TR808	CDC9002-1 (A.B.C) (030014,-1,-2)	2 C
D801	SV-02 (031049)	1 E
D802	SV-02 (031049)	1 B
VR801	200kΩ (B) Semi-Variable Resistor (103015)	2 E
VR802	200kΩ (B) Semi-Variable Resistor (103015)	2 B
VR803	200Ω (B) Semi-Variable Resistor (103012)	1 D
VR804	200Ω (B) Semi-Variable Resistor (103012)	1 C


A
B
C
D
E
F
F-1119A
1
2
3
R844
R808
TR802
R804
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C808
R814
R818
R828
R820
R826
C814
TR806
VR804
C804
C806
C802
R806
D802
TR804
C812
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8B 8D 8N 8P
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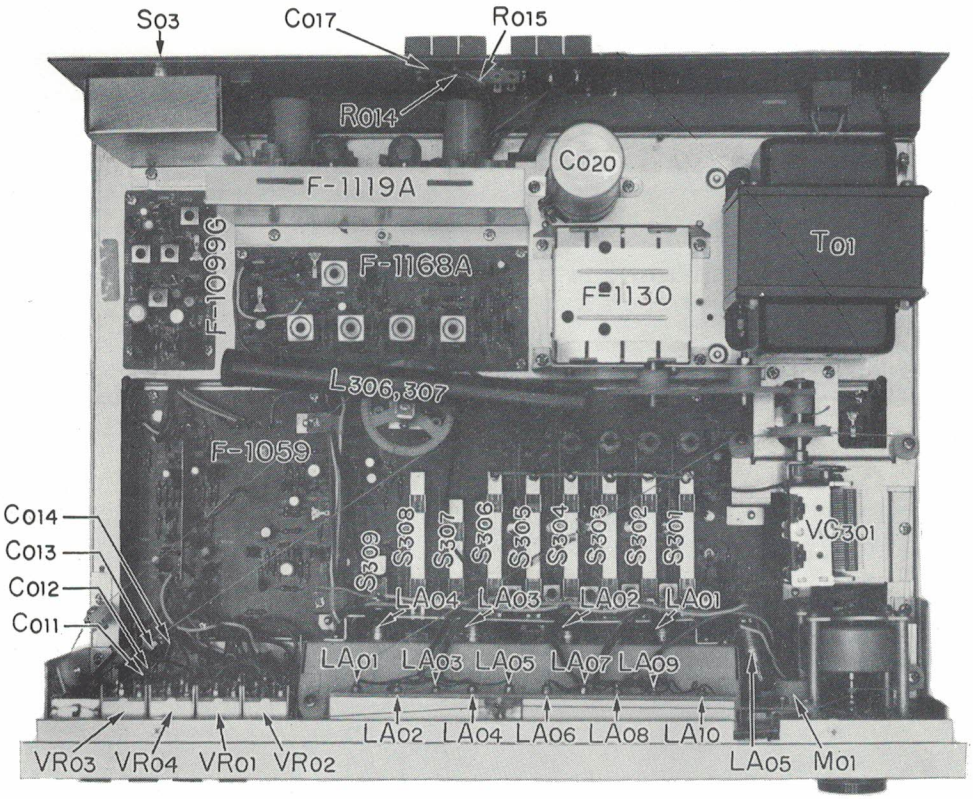
R835
R841
R815
C817
R823
8I
8Q
R837
C815
C809
C819
8O 8M 8C 8A

OTHER PARTS CHART AND LIST

X : Parts No.
Y : Parts Name

X	Y	
R010	27kΩ ±10% ¼W Carbon Resistor	
R011	27kΩ ±10% ¼W Carbon Resistor	
R012	2.7kΩ ±10% ¼W Carbon Resistor	
R013	2.7kΩ ±10% ¼W Carbon Resistor	
R014	100Ω ±10% ¼W Carbon Resistor	
R015	10kΩ ±10% ¼W Carbon Resistor	
R016	100kΩ ±10% ¼W Carbon Resistor	
R017	100kΩ ±10% ¼W Carbon Resistor	
R018	470kΩ ±10% ¼W Carbon Resistor	
R019	470kΩ ±10% ¼W Carbon Resistor	
R020	0.7Ω 3 W Cement Resistor	(012038)
R021	0.7Ω 3 W Cement Resistor	(012038)
R022	560Ω ±10% 1 W Carbon Resistor	
R023	560Ω ±10% 1 W Carbon Resistor	
R024	0.7Ω 3 W Cement Resistor	(012038)
R025	0.7Ω 3 W Cement Resistor	(012038)
C011	0.01μF ±10% 50 WV Mylar Capacitor	
C012	0.01μF ±10% 50 WV Mylar Capacitor	
C013	0.1μF ±10% 50 WV Mylar Capacitor	
C014	0.1μF ±10% 50 WV Mylar Capacitor	
C015	0.03μF ±10% 50 WV Mylar Capacitor	
C016	0.03μF ±10% 50 WV Mylar Capacitor	
C017	0.01μF ±10% 50 WV Ceramic Capacitor	
C018	150pF ±10% 50 WV Ceramic Capacitor	
C019	330pF ±10% 50 WV Ceramic Capacitor	
C020	2200μF $^{+100}_{-0}$% 75 WV Electrical Capacitor	
TR303	2SD180 (L, M)	(030806-1,-2)
TR304	2SD180 (L, M)	(030806-1,-2)
TR305	2SD180 (L, M)	(030806-1,-2)
TR306	2SD180 (L, M)	(030806-1,-2)
LA01	LAMP 7V 200mA	(040015)
LA02	LAMP 7V 200mA	(040015)
LA03	LAMP 7V 200mA	(040015)
LA04	LAMP 7V 200mA	(040015-1)
LA05	LAMP 7V 200mA	(040015-1)
LA06	LAMP 7V 200mA	(040015-1)
LA07	LAMP 7V 200mA	(040015-2)
LA08	LAMP 7V 200mA	(040015-2)
LA09	LAMP 7V 200mA	(040015-2)
LA010	LAMP 7V 200mA	(040015-2)
LA011	LAMP 6.3V 250mA	(040008)
LA012	LAMP 6.3V 250mA	(040008)
LA013	LAMP 6.3V 250mA	(040008)
LA014	LAMP 6.3V 250mA	(040008)
LA015	LAMP 6.3V 250mA	(040008)
F01	Power Fuse 2A	(043003)
F02	Quick Acting Fuse 2A	(043024)
F03	Quick Acting Fuse 2A	(043024)
M01	100μA Tuning Meter	(090021)
VR01	125kΩ BH×2 Slide Variable Resistor	(104002)
VR02	250kΩ B×2 Slide Variable Resistor	(104003)
VR03	100kΩ A×2 Slide Variable Resistor	(104001)

X	Y	
VR04	100kΩ A×2 Slide Variable Resistor	(104001)
L06,07	Bar Antenna	(410024)
MC01	Multi Connector	(242002)
S01	Power Switch	(113015)
S02	Power Selector Socket	(241017)
	Power Selector Plug (6P)	(241018)
	Power Selector Plug (4P)	(241019)
S02	Headphone Jack	(243067)
S03	Din Jack	(243004)
T01	Power Transformer	(400045)
FM	Frontend Pack F-1130	(081019)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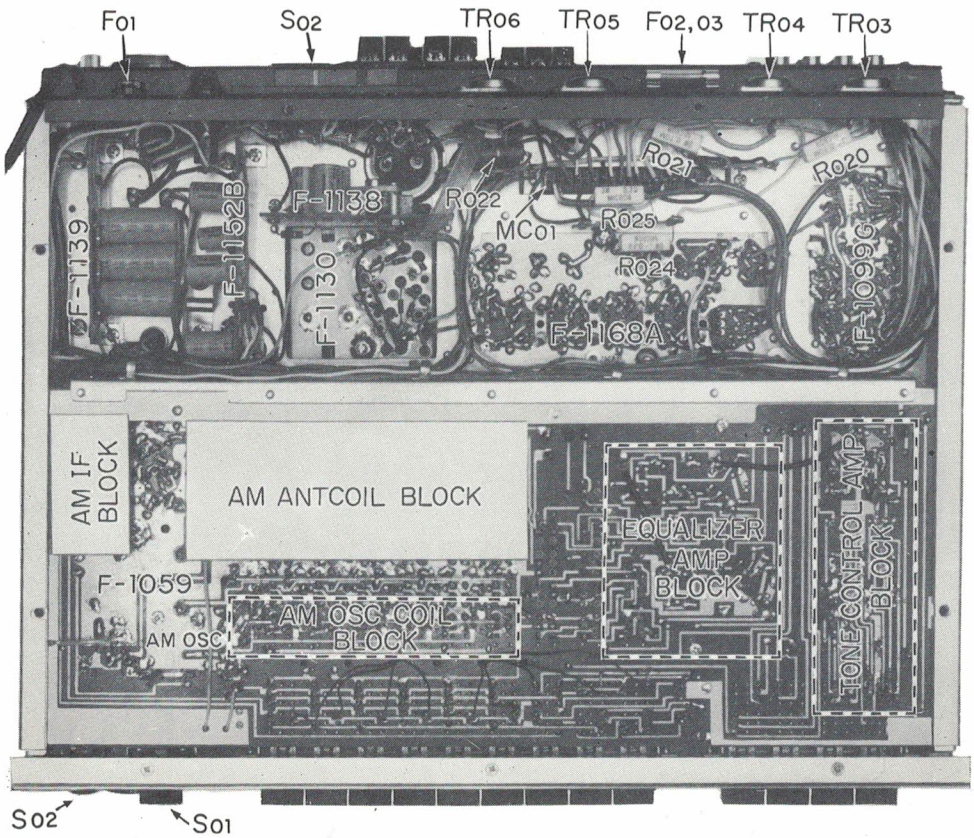
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F-1152B
F-1138
R022
MC01
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R025
R024
F-1130
F-1168A
F-1099G
AM IF BLOCK
AM ANTCOIL BLOCK
EQUALIZER AMP BLOCK
TONE CONTROL AMP BLOCK
F-1059
AM OSC
AM OSC COIL BLOCK
S02
S01

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