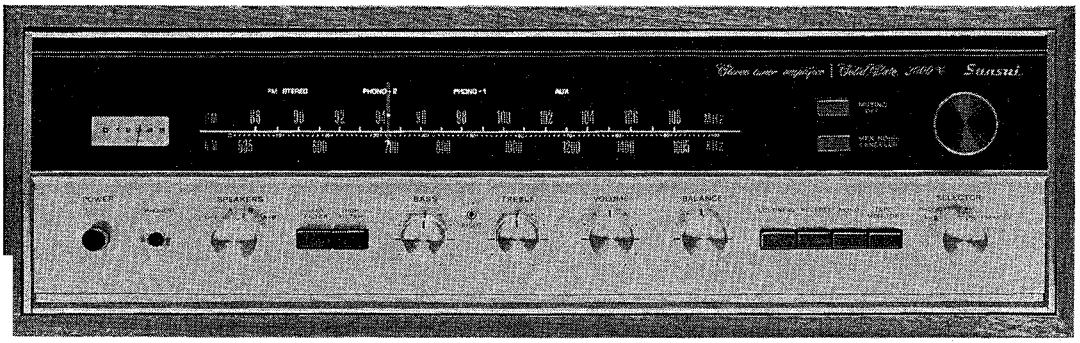
SERVICE MANUAL

SOLID-STATE AM/FM STEREO TUNER AMPLIFIER

SANSUI 2000X



Sansui

SANSUI ELECTRIC COMPANY LIMITED

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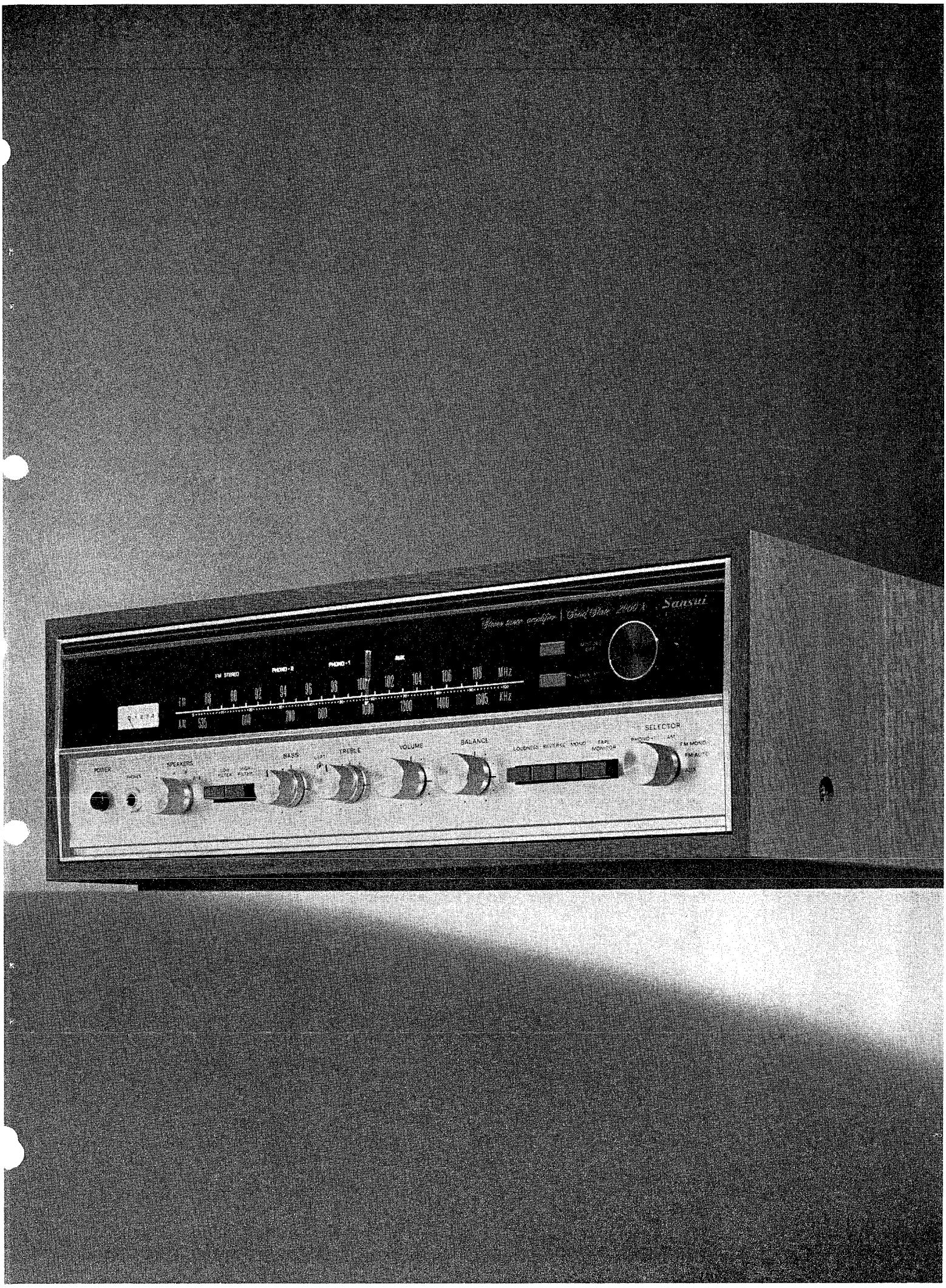

Sansui
FM STEREO
PHONO-2
PHONO-1
AUX
MHz
KHz
POWER
SPEAKERS
BASS
TREBLE
VOLUME
BALANCE
LOUDNESS
REVERSE
MONO
TAPE MONITOR
SELECTOR
FM MODE
FM AUTO

GENERAL TROUBLESHOOTING CHART

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

1. Incorrect connections or loose terminal contacts. Check the speakers, record player, tape recorder, antenna and line cord.

2. Improper operation. Before operating any audio 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.

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

PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
AM, FM or MPX reception	A. Constant or intermittent noise heard at times or in a certain area	* Discharge or oscillation caused by electrical appliances, such as fluorescent lamp, TV set, D.C. motor, rectifier or oscillator * Natural phenomena, such as atmospherics, statics or thunderbolts * Insufficient antenna input due to ferroconcrete wall or long distance from the station * Wave interference from other electrical appliances	* Attach a noise limiter to the electrical appliance causing the noise, or attach it to the amplifier's power source * Install an outdoor antenna and ground the amplifier to raise the signal-to-noise ratio * Reverse the power cord plug-receptacle connections * If the noise occurs at a certain frequency, attach a wave trap to the ANT. input * Keep the set at a proper distance from other electrical appliances
	B. The needle of the tuning meter does not move sharply	* Receiver is located in a weak signal area	* Place the set to receive maximum signal strength
	C. The zero point of the meter diverges much	* Regional difference in field intensity.	* The unit is not at fault
AM reception	A. Noise heard at a particular time of a day, in a certain area or over part of dial	* Due to the nature of AM broadcasts	* Install the antenna for maximum antenna efficiency. See "ANTENNA" in the operating instructions * In some cases, the noise can be eliminated by grounding the amplifier or reversing the power cord plug-receptacle connections
	B. High-frequency noise	* Adjacent-channel interference or beat interference * TV set too close to audio system	* Although such noise cannot be eliminated by the amplifier, it is advisable to adjust the TREBLE control from midpoint to left and switch on the HIGH FILTER * Keep the TV set at a proper distance from the audio system
FM reception	A. Noisy	* Poor noise limiter effect or too low SN ratio due to insufficient antenna input Note: FM reception is affected considerably by transmission conditions of stations: power and antenna efficiency. As a result, you may receive one station quite well while receiving another station poorly	* Install the antenna (supplied) for maximum signal strength * If this does not prove effective, use an outdoor antenna designed exclusively for FM. When you use a TV antenna for both TV and FM with a splitter, 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. A series of pops is heard	* Ignition noise caused by an automobile engine	* Install the antenna and its lead-in wire in proper distance from the road or raise the antenna input as described above
	C. Tuning noise between stations	* This results from the nature of the FM reception. As the station signal becomes weak, the noise limiter effect is decreased, and the amplification of the limiter, in turn, is enlarged, generating a noise	* Turn the muting on.
FM-MPX reception	A. Noise heard during FM-MPX reception while not heard during FM mono reception	* Weaker signal because the service area of the FM-MPX broadcast is only half that of the FM mono broadcast	* Install the antenna for maximum antenna input * Switch on the HIGH FILTER and/or turn the TREBLE control from midpoint, left
	B. Clearness of channel separation is decreased during reception	* Excess heat	* Circulation of air is important to the amplifier. Be sure that air is flowing under the amplifier
	C. The stereo indicator blinks on and off	* Interference	* The indicator is not at fault. Adjust VR_{401}
	D. The stereo indicator blinks on and off even though stereo station is not received	* Interference	* The indicator is not at fault. Adjust VR_{401}
Record playing or tape playback	A. Hum or howling	* Record player placed directly on speaker * Wire other than shielded wire used * Loose terminal contact * Shielded wire too close to line cord, fluorescent lamp or other electrical appliances * Nearby amateur radio station or TV transmission antenna	* Place a cushion between the player and the speaker box or place them away from each other * The connecting shielded wire should be as short as possible * Switch on the LOW FILTER and turn the BASS control from midpoint to left * Consult the nearest Radio Regulatory Bureau
	B. Surface noise	* Worn or old record * Worn stylus * Stylus dusty * Improper stylus pressure * Worn playback head	* Switch on the HIGH FILTER and turn the TREBLE control from midpoint to left * Clean or replace the stylus * Replace the playback head.
All stereo programs	BALANCE control is not at midpoint when equal sound comes from left and right channels	* It is important to adjust for equal sound from both channels. It should not always be set to the midpoint	* Set the MONO switch to MONO and then set the BALANCE control to a position where equal sound comes from both channels

CUSTOM MOUNTING

How to install the amplifier in a wooden cabinet

1. Make a cabinet cutout of 432mm or 17″ in width and 117mm or $4^{39}/_{64}$″ in height.

2. Place two square pieces of wood (20×20×240mm or $^{25}/_{32}$″×$^{25}/_{32}$″×$9^{29}/_{64}$″) for supporting the amplifier in the bottom board of the cabinet.

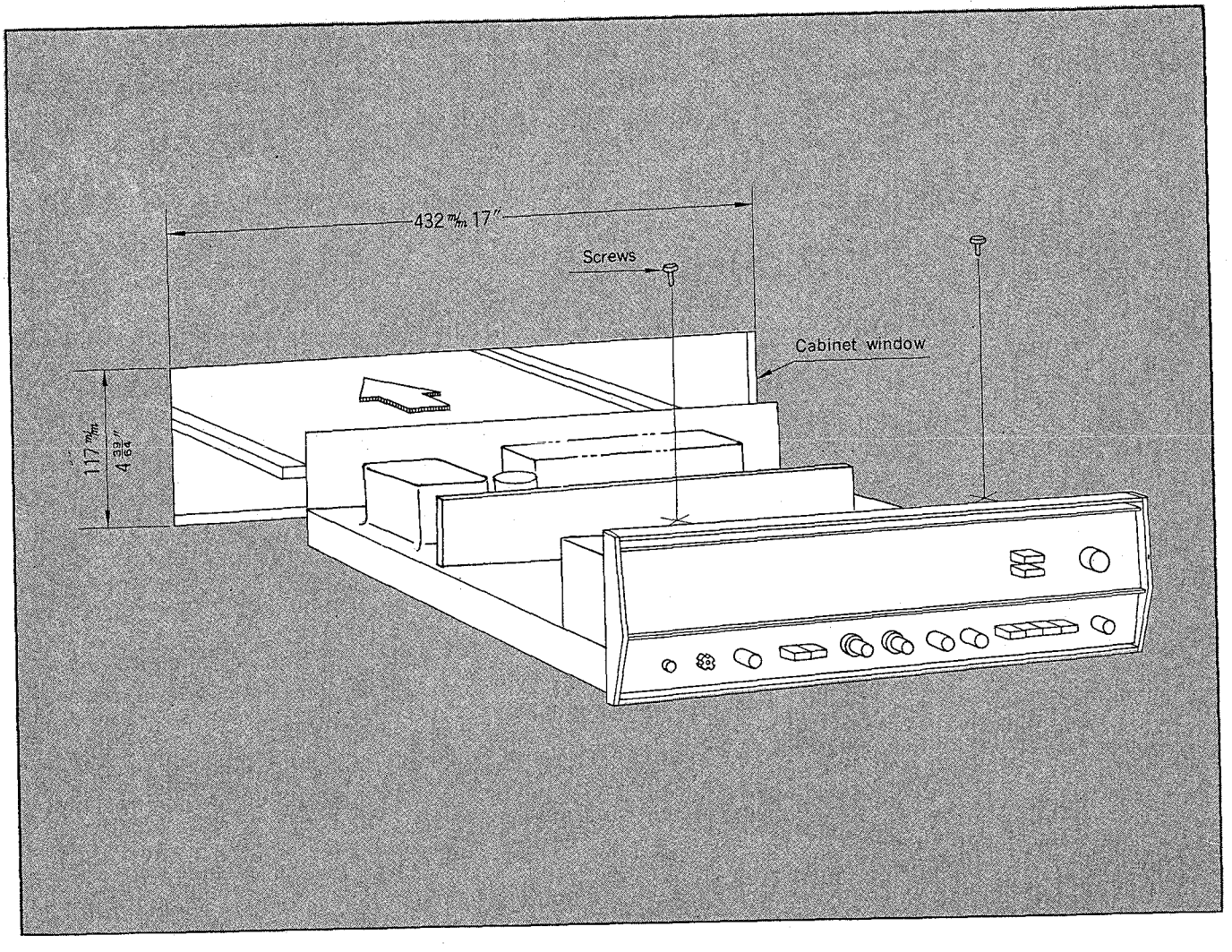
3. Cut two holes for attachment bolts in the bottom board of the cabinet.

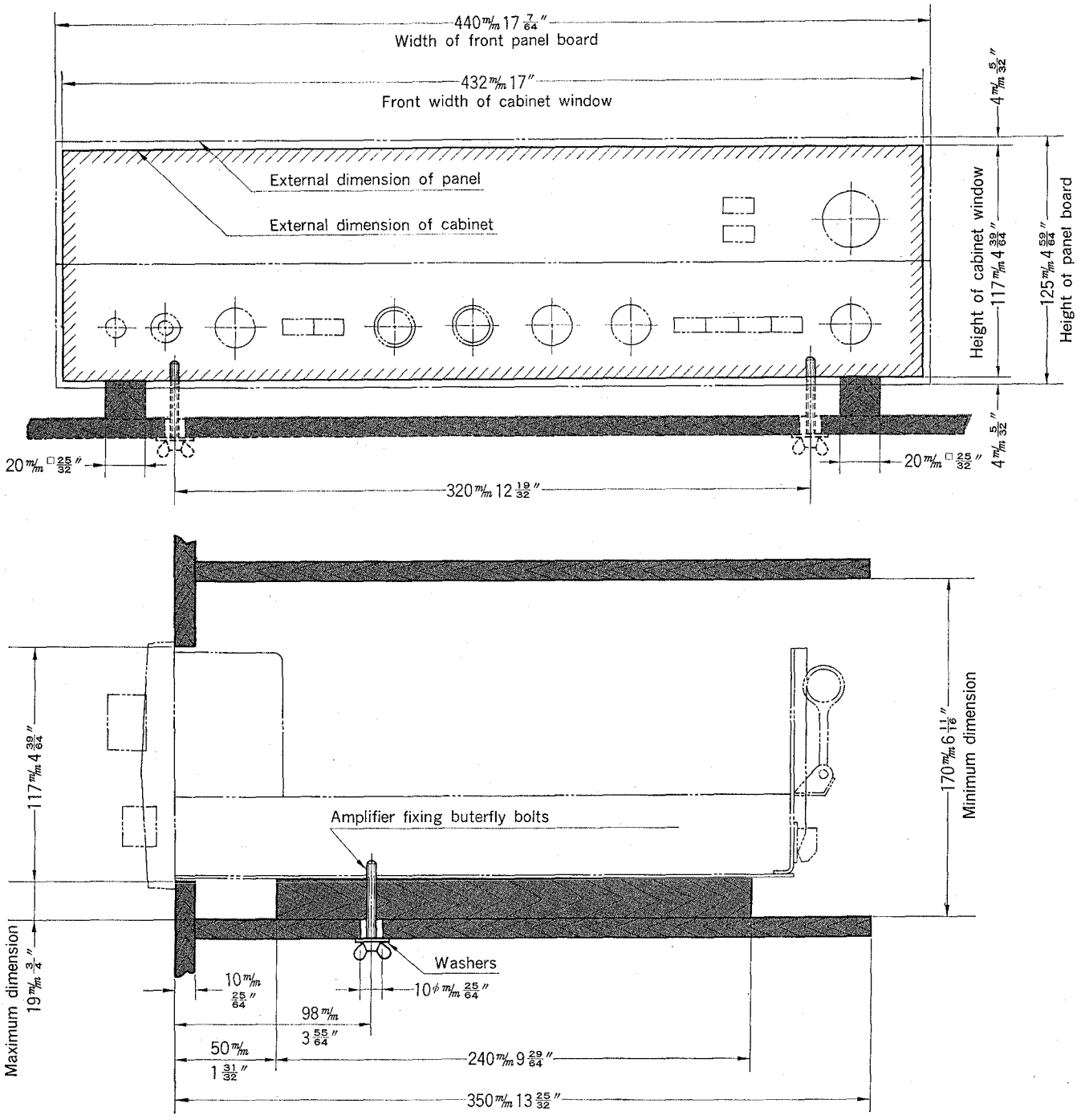
4. Remove the amplifier from the wood case (Refer to the section entitled "DISASSEMBLY PROCEDURE").

5. Place the amplifier in position through the cabinet cutout.

6. Make sure the amplifier is in position, then put the washers in butterfly bolts (4×40mm) and fix the amplifier to the cabinet with the butterfly bolts.

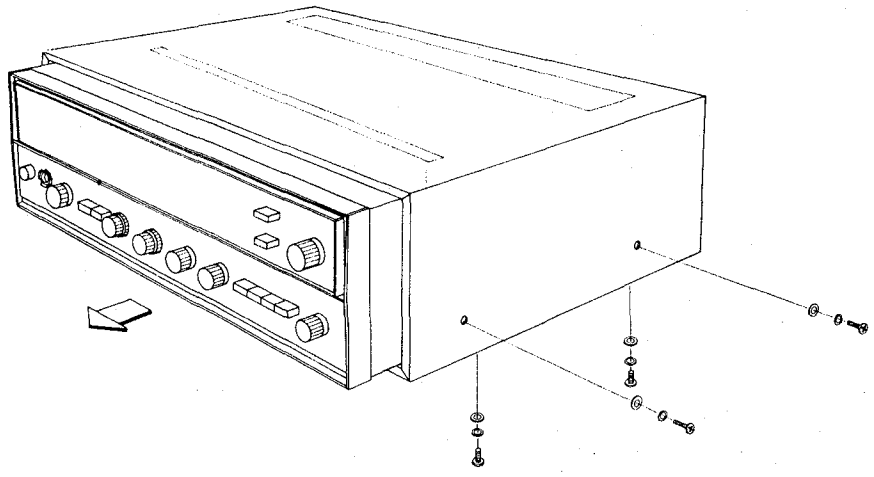
Note: When the amplifier is built into the custom cabinet, the wood case assembly including screws and washers is not used. Retain it for future use.



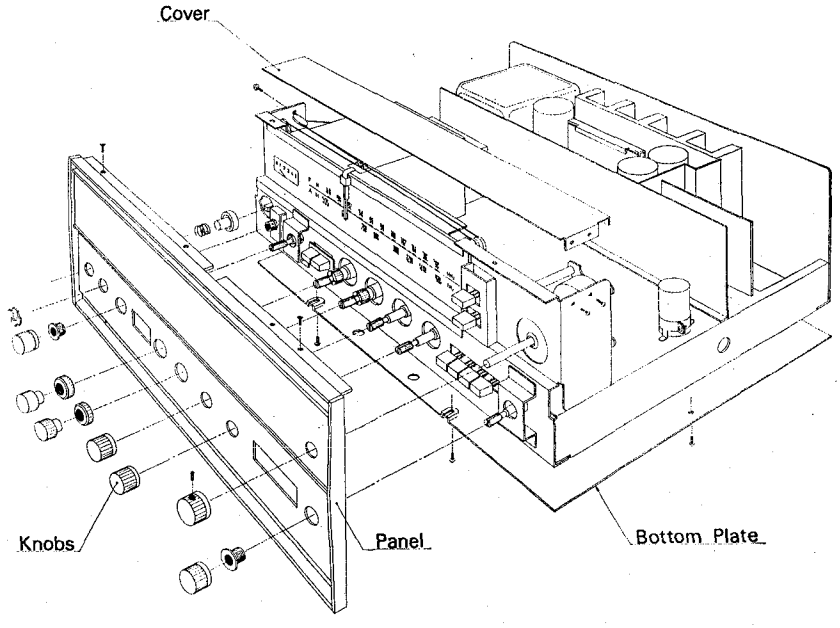

440㎜ 17 7/64″
Width of front panel board
432㎜ 17″
Front width of cabinet window
4㎜ 5/32″
External dimension of panel
External dimension of cabinet
Height of cabinet window
117㎜ 4 39/64″
125㎜ 4 59/64″
Height of panel board
20㎜ □ 25/32″
320㎜ 12 19/32″
20㎜ □ 25/32″
4㎜ 5/32″
117㎜ 4 39/64″
Amplifier fixing buterfly bolts
170㎜ 6 11/16″
Minimum dimension
Maximum dimension
19㎜ 3/4″
Washers
10㎜ 25/64″
10φ㎜ 25/64″
98㎜ 3 55/64″
50㎜ 1 31/32″
240㎜ 9 29/64″
350㎜ 13 25/32″

DISASSEMBLY PROCEDURE

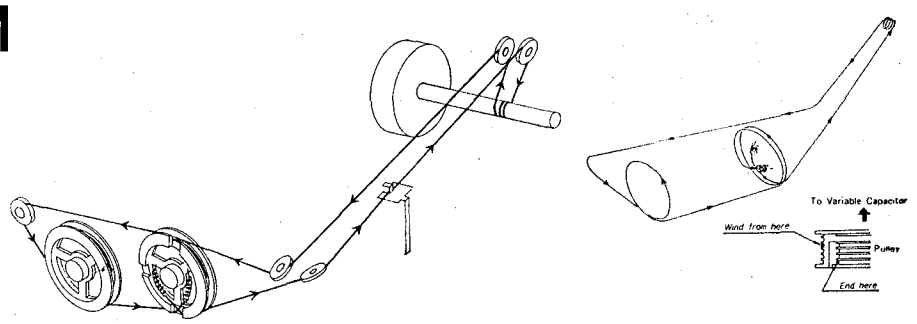
REMOVING THE WOOD CASE



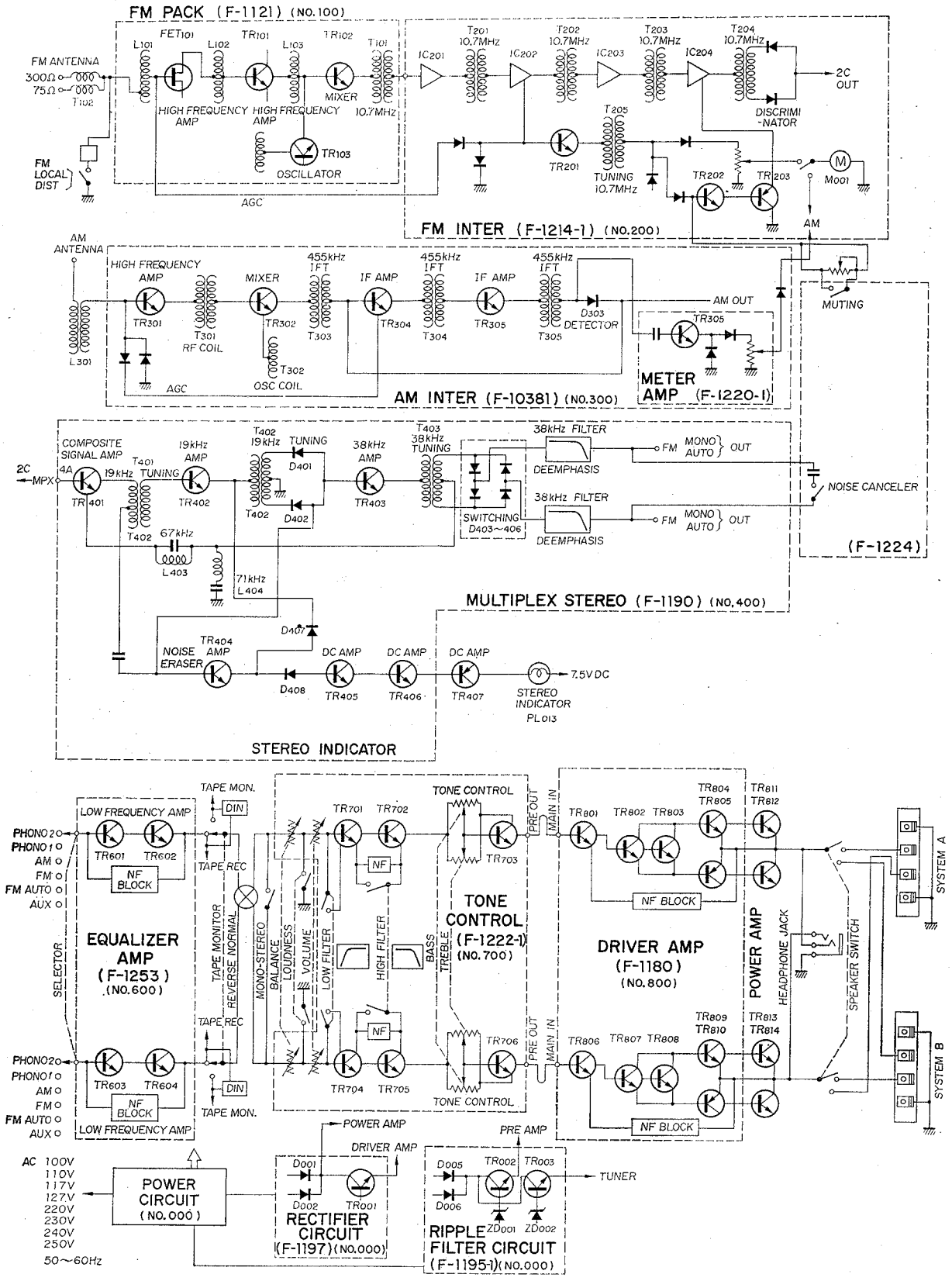
REMOVING THE FRONT PANEL AND BOTTOM PLATE



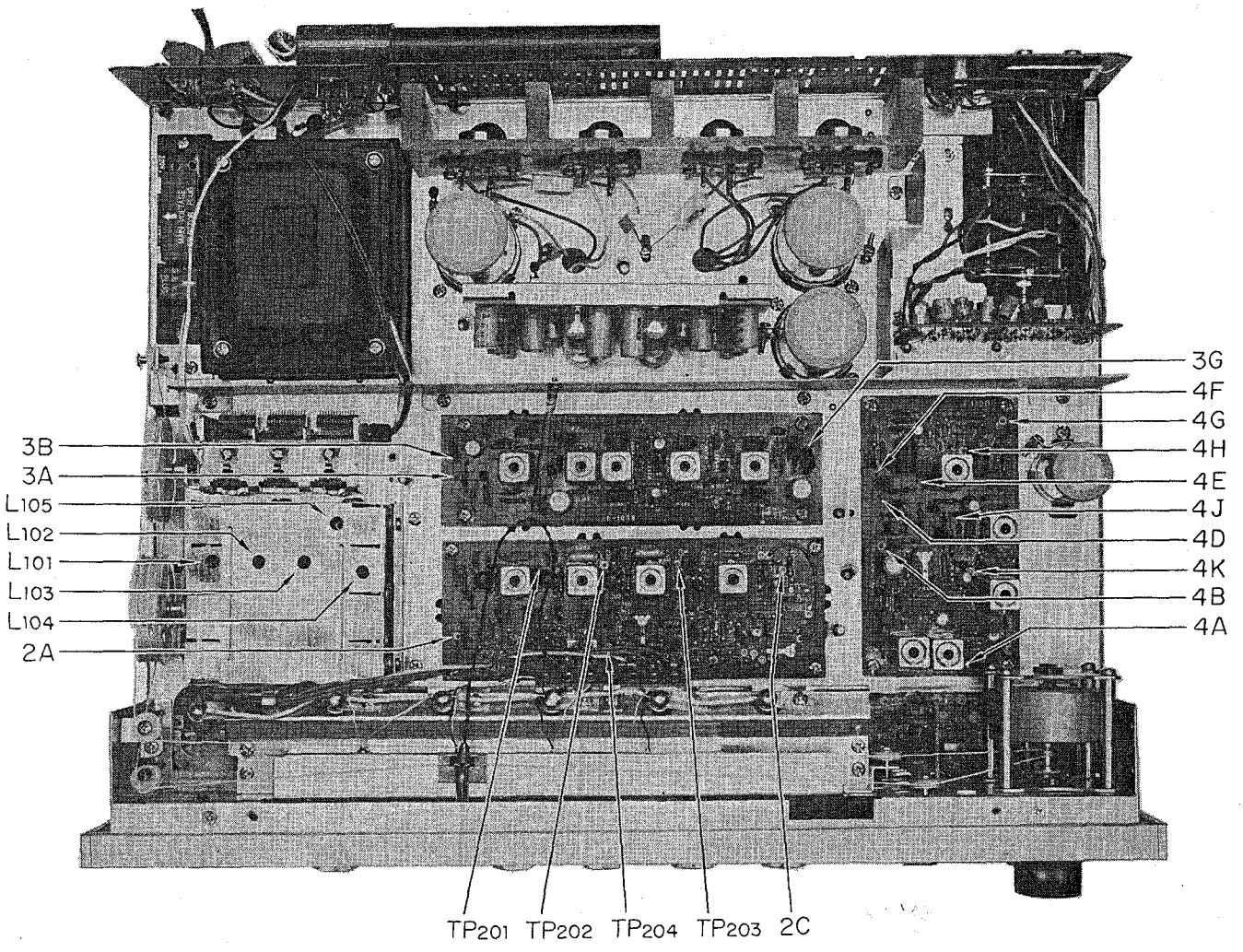
DIAL MECHANISM

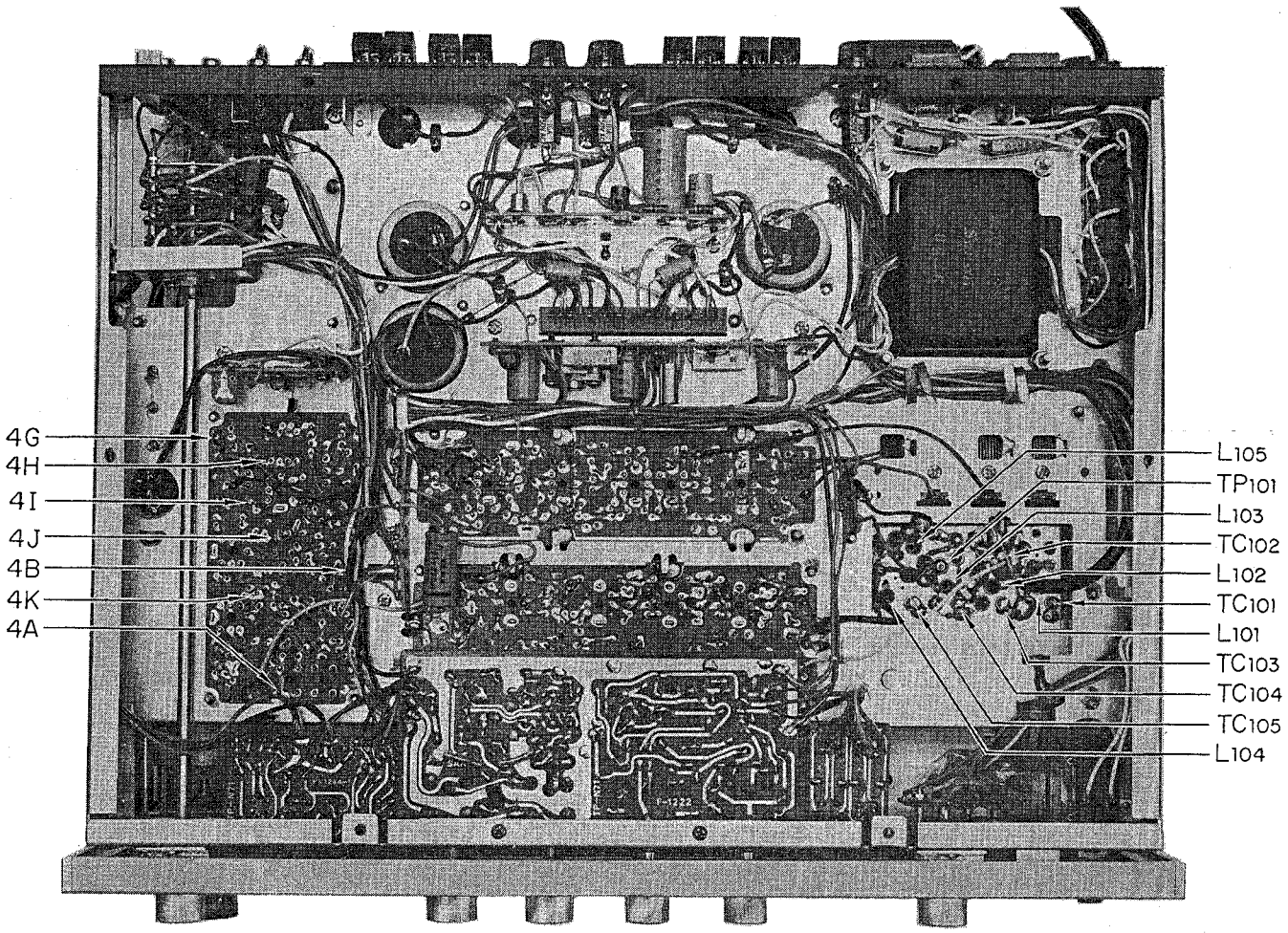


BLOCK DIAGRAM



TEST POINTS


3G
4F
4G
3B
4H
3A
4E
L105
4J
L102
4D
L101
4K
L103
4B
L104
4A
2A
TP201
TP202
TP204
TP203
2C


4G
4H
4I
4J
4B
4K
4A
L105
TP101
L103
TC102
L102
TC101
L101
TC103
TC104
TC105
L104

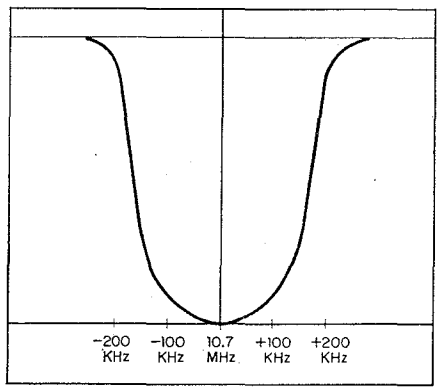
ALIGNMENT

FM ALIGNMENT PROCEDURE

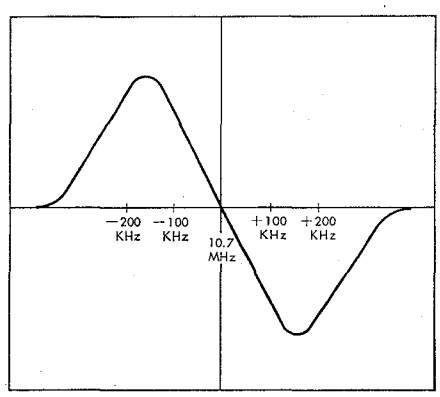
NOTE: To align, set the signal generator level to minimum.
Turn tuning gang fully.
Center carrier wave.
Set pointer at reference mark.

STEP	ALIGN.	GENERATOR	FEED SIGNAL	CONNECT	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF Trans-former	10.7 MHz ±200 kHz	Sweep signal to TP_{101} via the 10pF ceramic capacitor	Oscilloscope to $TP_{201,\ 202}$ and $_{203}$ via the 10pF ceramic capacitor with probe		Top and bottom sides of $T_{201,\ 202,\ 203}$	Best I.F. wave form
2.	Discrimi-nator	10.7 MHz ±200 kHz	Sweep signal to TP_{101} via the 10pF ceramic capacitor	Oscilloscope to 2C		FM. Discriminator transformer T_{204} top and bottom sides	S curve
3.	O.S.C	90 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. to output load	90 MHz	O.S.C. coil L_{104}	Maximum
4.	O.S.C	106 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. to output load	106 MHz	O.S.C. trimmer TC_{105}	Maximum
5.	Reiterate 3 and 4.						
6.	High-frequency Amp. Circuit	90 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. to output load	90 MHz	Antenna coil L_{101}, L_{102} and L_{103}	Maximum
7.	High-frequency Amp. Circuit	106 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. to output load	106 MHz	Trimmer TC_{101}, TC_{103} and TC_{104}	Maximum
8.	Reiterate 6 and 7.						

FM IF WAVE FORM



FM DISCRIMINATOR WAVE FORM



FM MULTIPLEX ALIGNMENT PROCEDURE

1. Do not attempt to align the Multiplex Circuit unless the following equipments are 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 TO	TEST EQUIPMENT (S)	ADJUST	ADJUST FOR
1.	67 kHz Trap	67 kHz Audio Signal	TP_{4A} or 2C	V.T.V.M. at 4I	L_{403}	Minimum
2.	71 kHz Trap	71 kHz Audio Signal	TP_{4A} or 2C	V.T.V.M. at 4I	L_{404}	Minimum
3.	19 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4K	T_{401}	Maximum
4.	19 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4J	T_{402}	Maximum
5.	38 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4H	T_{403}	Maximum
6.	38 kHz Transformer and Separation VR	FM Signal Gen. Modulated 30% by STEREO Signal Gen, channel-L	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at output load, (channel-R)	T_{402} or T_{403} within ¼ turn and Separation VR(VR_{601})	Minimum, (Channel-R)

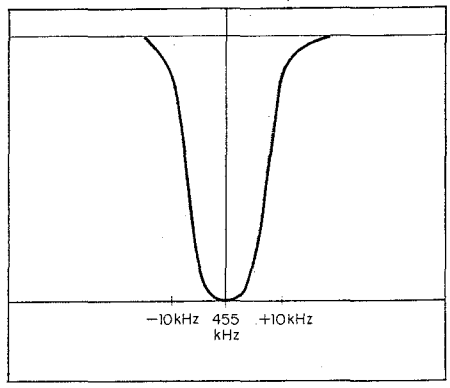
ALIGNMENT

AM ALIGNMENT PROCEDURE

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

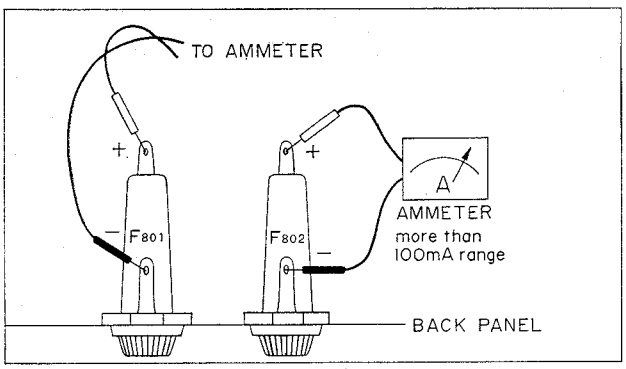
STEP	ALIGN.	GENERATOR	FEED SIGNAL TO	TEST EQUIPMENTS	DIAL SETTING	ADJUST	ADJUST FOR
1.	I.F. Transformer	455 kHz ±30 kHz Sweep-generator	Antenna terminals	Oscilloscope and V.T.V.M. at 3G		Top and bottom sides from the 1st I.F.T. (T_{308}) to the 3rd I.F.T. ($_{305}$)	Best I.F. wave form
2.	O.S.C.	AM-generator 535 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	535 kHz	O.S.C. Coil T_{302}	Maximum
3.	O.S.C.	AM-generator 1600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1600 kHz	O.S.C. Trimmer TC_{303}	Maximum
4.	Reiterate 2 and 3						
5.	RF amp.	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	RF transformer T_{301}	Maximum
6.	Antenna circuit	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	Ferrite bar Antenna T_{306}	Maximum
7.	RF amp.	AM-generator 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400 kHz	RF Trimmer TC_{302}	Maximum
8.	Antenna circuit	AM-generator 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400 kHz	Antenna circuit Trimmer TC_{301}	Maximum
9.	Reiterate 5. 6. 7. 8.						

AM IF WAVE FORM



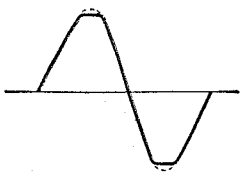
1. CURRENT ADJUSTMENT

STEP	SETTING OF AMMETER (TESTER)	WAHT TO DO	NOTE
1.		Remove F_{801} and F_{802}	Use an ammeter having 100 or 50mA range.
2.		Set VR_{802} and VR_{804} to minimum.	
3.		Set VR_{702} and VR_{706} (VOLUME) to minimum.	
4.		Push the POWER switch ON.	Be sure to switch on lst and then connect the ammeter.
5.	100mA range.	Connect the ammeter to F_{801} as illustrated in Fig. 1.	
6.		Turn VR_{804} clockwise and adjust current to 15 to 10mA at room temperature of 25°C or less or to 20 to 15mA at 25°C or more.	
7.	100mA range.	Push the POWER switch OFF and attach F_{801} in place.	
8.		Push the POWER switch ON and connect the ammeter to F_{802} as illustrated in Fig. 1.	
9.		Turn VR_{802} clockwise and adjust current to 15 to 10mA at 25°C or less or to 20 to 15mA at 25°C or more.	
10.		Attach F_{802} in place.	



〈Fig. 1〉 QUICK-ACTING FUSE HOLDER

2. OUTPUT ADJUSTMENT

STEP	WHAT TO DO	NOTE
1.	Adjust the volume control to minimum.	
2.	Set an oscillator to 1,000Hz and connect it to the LEFT AUX input.	The oscillator used should have the oscillation frequency of 20 to 20,000Hz and the output voltage of more than 200mV.
3.	Set the SELECTOR switch to AUX.	Set other controls and switches as follows: BALANCE to CENTER TAPE MON. to OFF MODE to STEREO TONE to CENTER Others to OFF
4.	Connect a 8- or 16-ohm load resistor having capacitor of more than 50 watts to the LEFT SPEAKER output.	
5.	Connect an oscilloscope to the SPEAKER terminal.	
6.	Push the POWER switch on and advance the volume little by little. Check the output at the terminal by means of the oscilloscope.	
7.	Adjust VR_{801} so that the fronts of sine wave are clipped simultaneously	
8.	Adjust the right channel as above. In Step 7, adjust VR_{803}.	

PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. **X:** Parts Name **Y:** Stock No. **Z:** Position of Parts

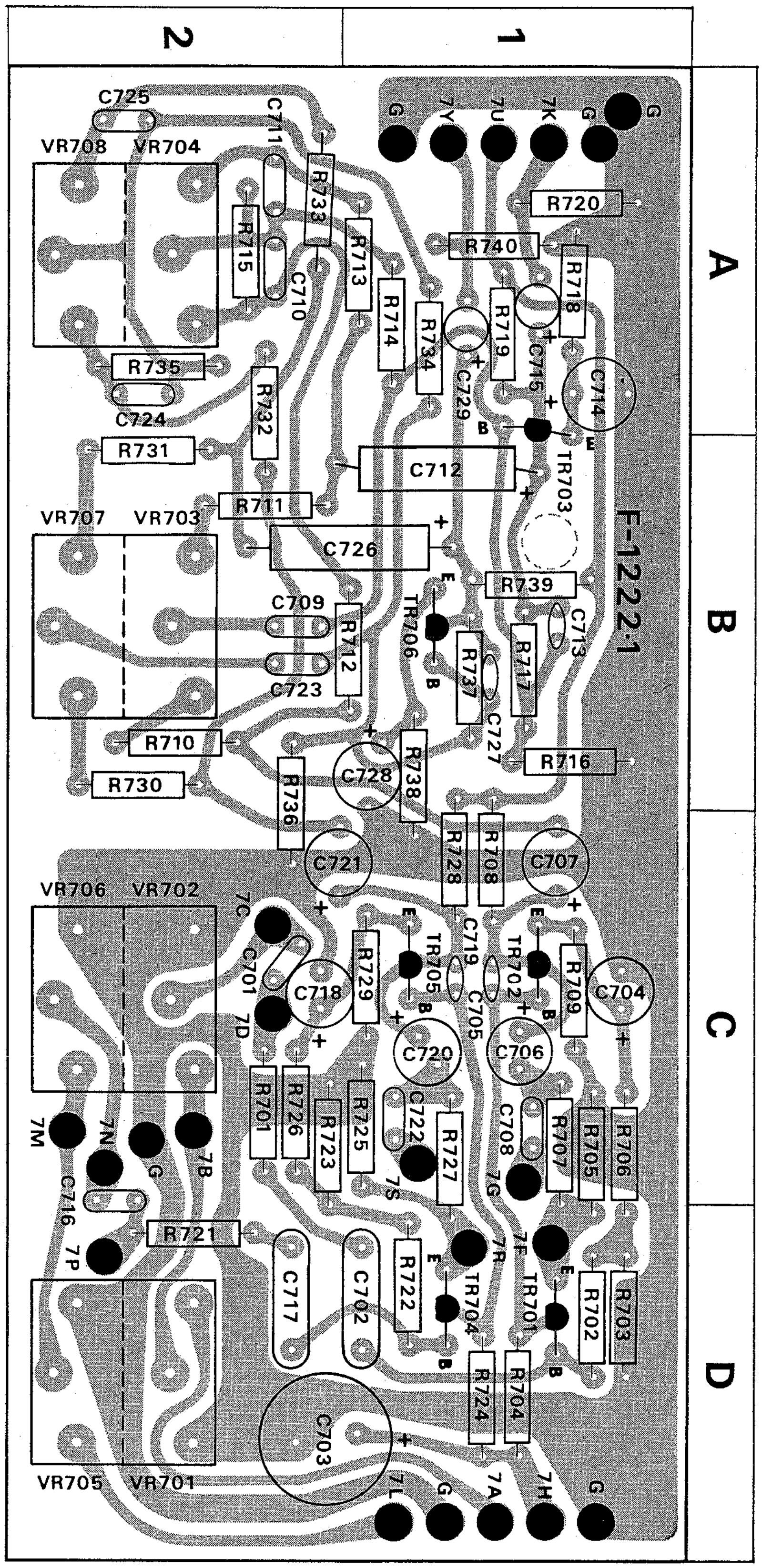
F-1222-1 〈TONE CONTROL BLOCK〉

W	X	Y	Z
R701	1kΩ	0101102	2C
R702	47kΩ	0101473	1D
R703	68kΩ	0101683	1D
R704	100kΩ	0101104	1D
R705	1kΩ	0101102	1C, D
R706	270kΩ	0101274	1C, D
R707	3.9kΩ	0101392	1C, D
R708	8.2kΩ	0101822	1C
R709	2.7kΩ	0101272	1C
R710	6.8kΩ	0101682	2B
R711	6.8kΩ	0101682	2B
R712	10kΩ	0101103	1, 2B
R713	10kΩ	0101103	1A
R714	22kΩ	0101223	1A
R715	150kΩ	0101154	2A
R716	150kΩ	0101154	1B
R717	390kΩ	0101394	1B
R718	560Ω	0101561	1A
R719	5.6kΩ	0101562	1A
R720	100kΩ ±10% ¼W CR.	0101104	1A
R721	1kΩ	0101102	2D
R722	47kΩ	0101473	1D
R723	68kΩ	0101683	2C, D
R724	100kΩ	0101104	1D
R725	1kΩ	0101102	1C
R726	270kΩ	0101274	2C
R727	3.9kΩ	0101392	1C, D
R728	8.2kΩ	0101822	1C
R729	2.7kΩ	0101272	1C
R730	6.8kΩ	0101682	2B
R731	6.8kΩ	0101682	2B
R732	10kΩ	0101103	2A, B
R733	10kΩ	0101103	2A
R734	22kΩ	0101223	1A
R735	150kΩ	0101154	2A
R736	150kΩ	0101154	2B, C
R737	390kΩ	0101394	1B
R738	560Ω	0101561	1B
R739	5.6kΩ	0101562	1B
R740	100kΩ	0101104	1A
C701	0.01μF ±10% 50 V MC.	0601107	2C
C702	0.22μF ±10% 50 V MC.	0601228	1, 2D
C703	220μF 25 V EC.	0513221	1, 2D
C704	33μF 6.3 V EC.	0510330	1C
C705	120pF ±10% 50 V CC.	0660121	1C
C706	33μF 16 V EC.	0512330	1C
C707	1μF 50 V EC.	0515109	1C
C708	0.015μF ±10% 50 V MC.	0601157	1C
C709	0.0015μF ±10% 50 V MC.	0601156	2B
C710	0.04μF ±10% 50 V MC.	0601407	2A
C711	0.04μF ±10% 50 V MC.	0601407	2A
C712	10μF 50 V EC.	0515100	1B
C713	100pF ±10% 50 V CC.	0660101	1B
C714	47μF 6.3 V EC.	0510470	1A
C715	1μF 50 V EC.	0515109	1A
C716	0.01μF ±10% 50 V MC.	0601107	2D

W	X	Y	Z
C717	0.22μF ±10% 50 V MC.	0601228	2D
C718	33μF 6.3 V EC.	0510330	1, 2C
C719	120pF ±10% 50 V CC.	0660121	1C
C720	33μF 16 V EC.	0512330	1C
C721	1μF 50 V EC.	0515109	1, 2C
C722	0.015μF ±10% 50 V MC.	0601157	1C
C723	0.0015μF ±10% 50 V MC.	0601156	2B
C724	0.04μF ±10% 50 V MC.	0601408	2A
C725	0.04μF ±10% 50 V MC.	0601408	2A
C726	10μF 50 V EC.	0515100	1, 2B
C727	100pF ±10% 50 V CC.	0660101	1B
C728	47μF 6.3 V EC.	0510470	1, 2B
C729	1μF 50 V EC.	0515109	1A
VR701	250kΩ M, N Balance Control	1010400	2D
VR705	250kΩ M, N Balance Control	1010400	2D
VR702	250kΩ B Volume Control	1010200	2C
VR706	250kΩ B Volume Control	1010200	2C
VR703	100kΩ B Treble Control	1020040	2B
VR707	100kΩ B Treble Control	1020040	2B
VR704	100kΩ B Bass Control	1010040	2A
VR708	100kΩ B Bass Control	1010040	2A
TR701	2SC458 LG(C)	0305311	1D
TR702	2SC458 LG(B)	0305310	1C
TR703	2SC458 LG(C)	0305311	1A
TR704	2SC458 LG(C)	0305311	1D
TR705	2SC458 LG(B)	0305310	1C
TR706	2SC458 LG(C)	0305311	1B

Abbreviations

CR: Carbon Resistor
SR: Solid Resistor
CeR: Cement Resistor
MC: Mylar Capacitor
EC: Electrolytic Capacitor
AEC: Aluminium Electrolytic Capacitor
MiC: Mica Capacitor
OC: Oil Capacitor
SC: Styrol Capacitor
CC: Ceramic Capacitor
TC: Tantalum Capacitor


F-1222-1
1
2
A
B
C
D
G
7Y
7U
7K
R720
R740
R718
R719
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R713
R714
R734
C729
C711
R715
C710
C725
VR708
VR704
R735
C724
R732
R731
C712
R711
VR707
VR703
C726
R739
C713
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TR706
R737
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R712
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C728
R738
R736
C721
R728
R708
C707
VR706
VR702
7C
C701
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C718
R729
TR705
C719
TR702
C705
R709
C704
C720
C706
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R726
R723
R725
C722
R727
C708
R707
R705
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C716
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R721
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7G
7R
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C717
C702
R722
TR704
TR701
R702
R703
R724
R704
C703
VR705
VR701
7L
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E
B

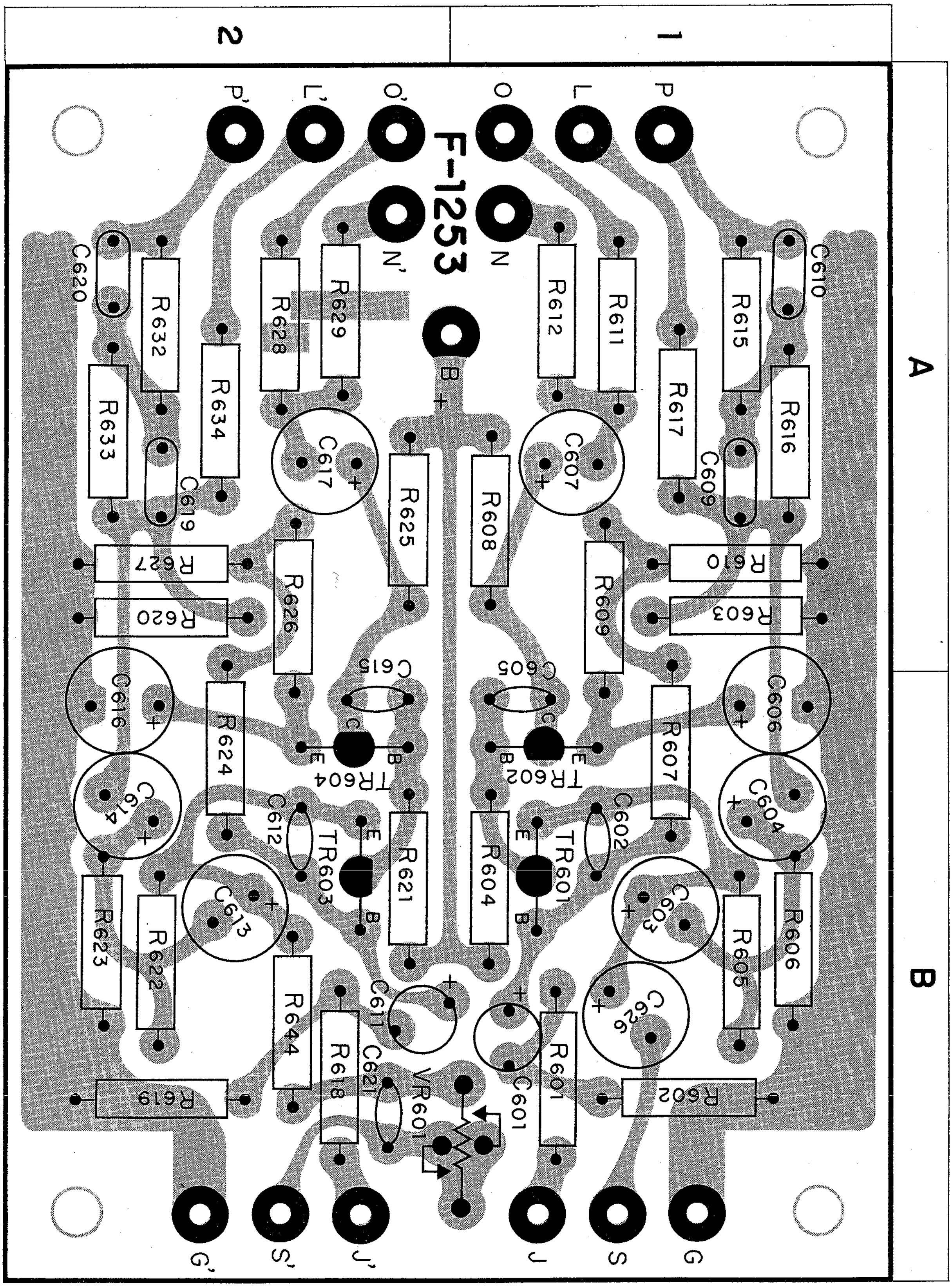
PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. **X:** Parts Name **Y:** Stock No. **Z:** Position of Parts

F-1253 〈EQUALIZER AMP. BLOCK〉

W	X	Y	Z
R601	1kΩ)	0101102	1 B
R602	680kΩ	0101684	1 B
R603	4.7kΩ	0101472	1 A
R604	100kΩ	0101104	1 B
R605	1.8kΩ	0101182	1 B
R606	470Ω	0101471	1 B
R607	390kΩ	0101394	1 B
R608	6.8kΩ	0101682	1 A
R609	220Ω	0101221	1 A
R610	680Ω	0101681	1 A
R611	12kΩ	0101123	1 A
R612	100Ω	0101101	1 A
R615	25kΩ	0101253	1 A
R616	390kΩ	0101394	1 A
R617	3.9kΩ	0101392	1 A
R618	1kΩ) ±10% 1/4W CR.	0101102	2 B
R619	680kΩ	0101684	2 B
R620	4.7kΩ	0101472	2 A
R621	100kΩ	0101104	2 B
R622	1.8kΩ	0101182	2 B
R623	470Ω	0101471	2 B
R624	390kΩ	0101394	2 B
R625	6.8kΩ	0101682	2 A
R626	220Ω	0101221	2 A
R627	680Ω	0101681	2 A
R628	12kΩ	0101123	2 A
R629	100Ω	0101101	2 A
R632	25kΩ	0101253	2 A
R633	390kΩ	0101394	2 A
R634	3.9kΩ	0101392	2 A
R644	100Ω)	0101101	2 B
C601	1.5μF 16 V TC.	0572159	1 B
C602	150 pF ±10% 50 V CC.	0660151	1 B
C603	33μF) 6.3 V EC.	0510330	1 B
C604	33μF)	0510330	1 B
C605	150 pF ±10% 50 V CC.	0660151	1 B
C606	47μF 6.3 V EC.	0510470	1 B
C607	10μF 25 V EC.	0513100	1 A
C609	0.01μF) ±10% 50 V MC.	0601107	1 A
C610	0.003μF)	0601306	1 A
C611	1.5μF 16 V TC.	0572159	2 B
C612	150 pF ±10% 50 V CC.	0660151	2 B
C613	33μF) 6.3 V EC.	0510330	2 B
C614	33μF)	0510330	2 B
C615	150 pF ±10% 50 V CC.	0660151	2 B
C616	47μF 6.3 V EC.	0510470	2 B
C617	10μF 25 V EC.	0513100	2 B
C619	0.01μF) ±10% 50 V MC.	0601107	2 A
C620	0.003μF)	0601306	2 A
C621	0.002μF +80 −20 % 25 V CC.	0659002	2 B
C626	100μF 6.3 V EC.	0510101	1 B
VR601	3kΩB Separation Adjustor	1030660	1, 2 B

W	X	Y	Z
TR601	) 2SC871 R(E,F)	0305474, 5	1 B
TR602		0305474, 5	1 B
TR603		0305474, 5	2 B
TR604	)	0305474, 5	2 B



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F-1253
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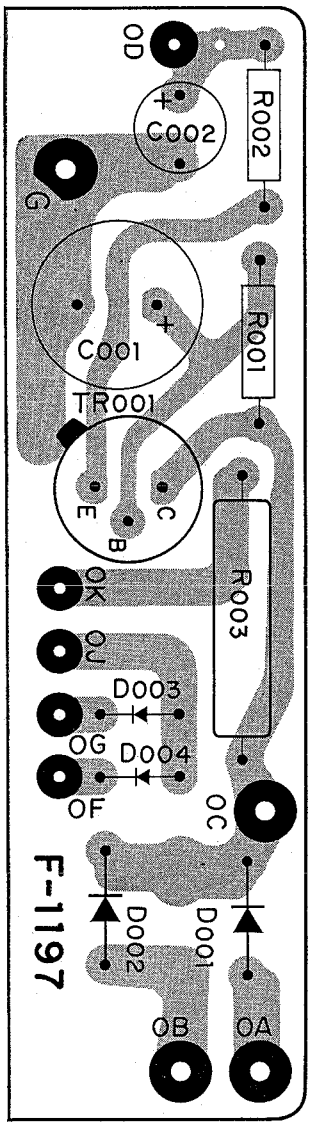
C617
C619
C620
C621
C626
TR601
TR602
TR603
TR604
VR601

PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. **X:** Parts Name **Y:** Stock No. **Z:** Position of Parts

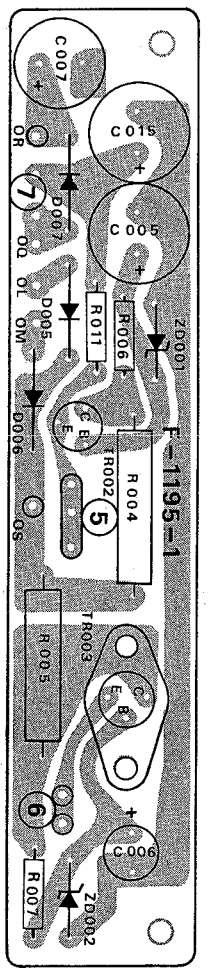
F-1197 〈RECTIFIER BLOCK〉

W	X	Y	Z
R001	12kΩ } ±10% ½W SR.	0111123	
R002	6.8Ω }	0111689	
C001	200μF 75V EC.	0519301	
C002	4.7μF 160V EC.	0518479	
D001	} SA-2Z	0310420	
D002		0310420	
TR001	2SC627 (1, 2, 3)	0305580, 1, 2	



F-1195-1 〈RIPPLE FILTER BLOCK〉

W	X	Y	Z
R004	68Ω } ±10% 3 W CeR.	0153680	
R005	180Ω }	0153181	
R006	3.9kΩ }	0101392	
R007	1.5kΩ } ±10% ¼W CR.	0101152	
R011	220Ω }	0101221	
C005	220μF 25 V EC.	0513221	
C006	330μF 16 V EC.	0512331	
C007	330μF 10 V EC.	0511331	
C015	220μF 25 V EC.	0513221	
D005	} 10D-2	0310350	
D006		0310350	
D007	10D-1	0310340	
ZD001	ZB-1-25 Zener Diode	0310710	
ZD002	ZB-1-14 Zener Diode	0310691	
TR002	2SC971	0305531	
TR003	2SD205	0308130	



F-1224 〈NOISE CANCELER AND MUTING BLOCK〉

W	X	Y	Z
R433	3.3MΩ ±10% ½W SR.	0111335	
C430	330pF ±10% 50 V MiC.	0641331	
S6, S7		1130131	

F-1223 〈HIGH-LOW FILTER BLOCK〉

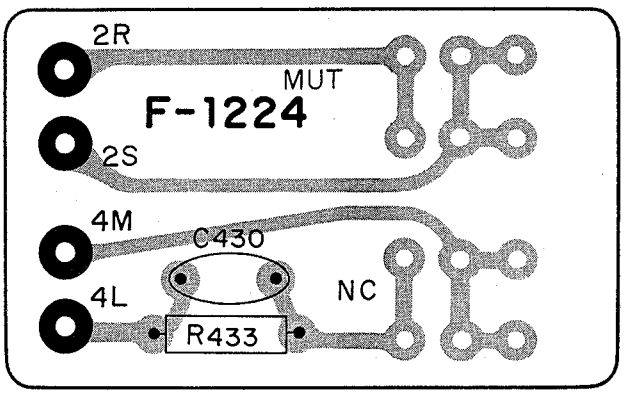
W	X	Y	Z
R741	1MΩ ±10% ¼W CR.	0101105	
R742	1MΩ	0101105	
R743	1MΩ	0101105	
R744	1MΩ	0101105	
S8, S9		1130070	

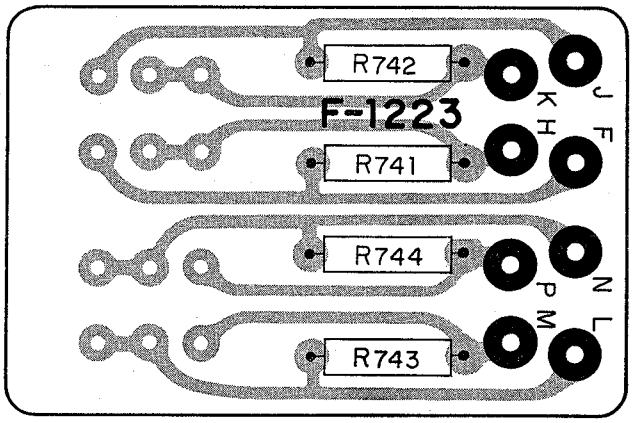
F-1220-1 〈AM METER BLOCK〉

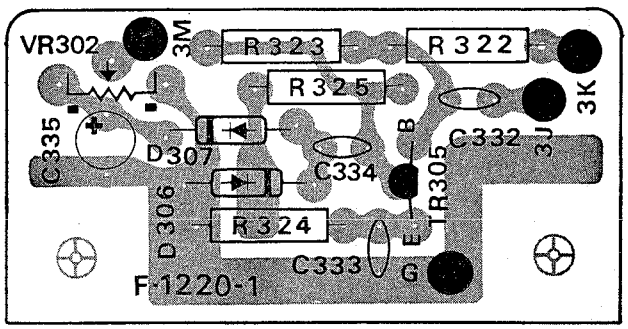
W	X	Y	Z
R322	68kΩ ±10% ¼W CR.	0101683	
R323	560kΩ	0101564	
R324	2.2kΩ	0101222	
R325	12kΩ	0101123	
C332	0.01μF +80 −20% 25 V CC.	0659004	
C333	0.001μF	0659001	
C334	0.01μF	0659004	
C335	4.7μF 25 V EC.	0513479	
VR302	50kΩB AM Meter Adjustor	1030490	
D306	IN60	0310330	
D307		0310330	
TR305	2SC460(C)	0305350	

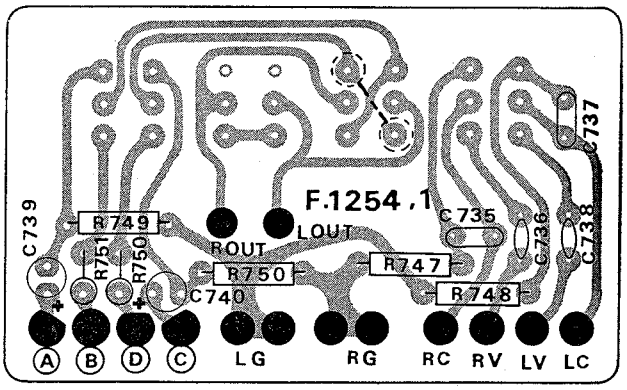
F-1254,1 〈ACCESSORIES BLOCK〉

W	X	Y	Z
R747	27kΩ ±10% ¼W CR.	0101273	
R748	27kΩ	0101273	
R749	100kΩ	0101104	
R750	100kΩ	0101104	
R751	12kΩ	0101123	
R752	12kΩ	0101123	
C735	0.02μF ±10% 50 V MC.	0601207	
C736	150pF ±10% 50 V MiC.	0641151	
C737	0.02μF ±10% 50 V MC.	0601207	
C738	150pF ±10% 50 V MiC.	0641151	
C739	0.47μF ±20% 25 V AEC.	0563478	
C740	0.47μF	0563478	
S2,3,4,5		1130140	









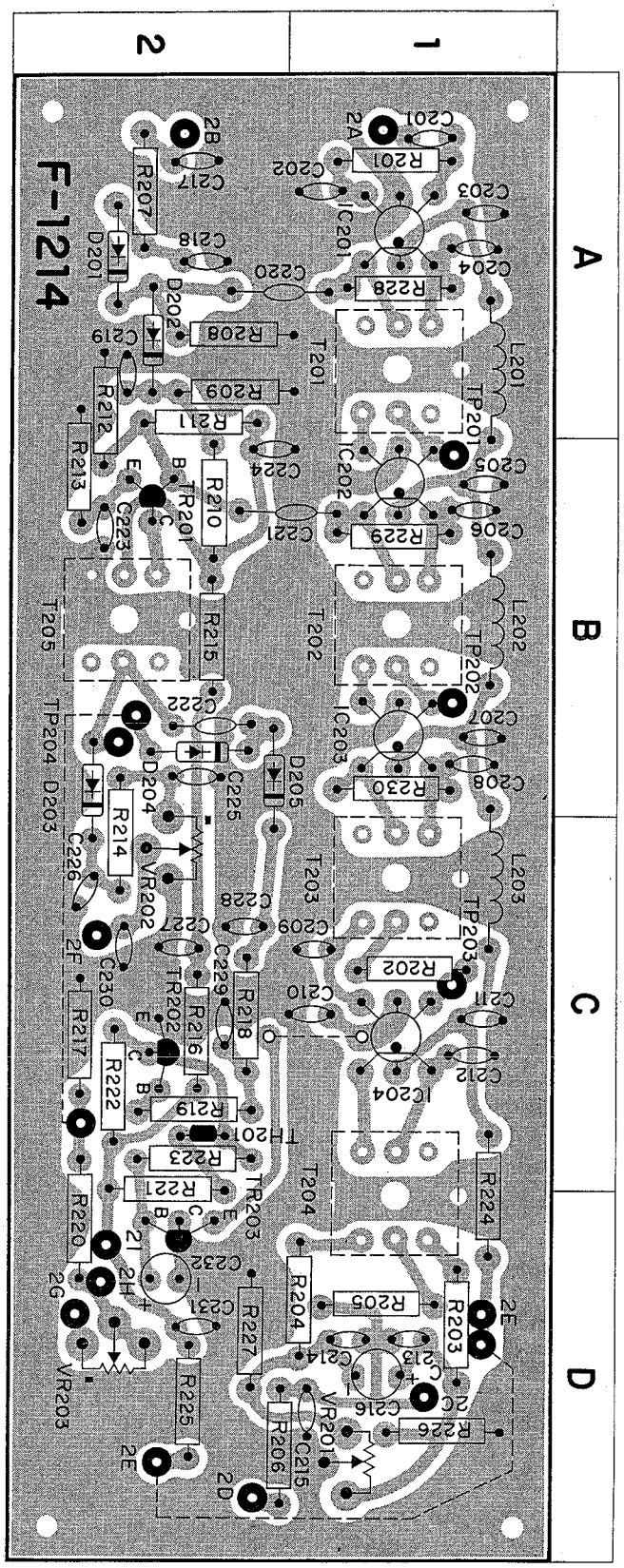
PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. **X:** Parts Name **Y:** Stock No. **Z:** Position of Parts

F-1214-1 〈FM IF BLOCK〉

W	X	Y	Z
R201	1.5kΩ ⎫	0101152	1 A
R202	68Ω ⎪	0101680	1 C
R203	1kΩ ⎪	0101102	1 D
R204	1kΩ ⎪	0101102	1 D
R205	56Ω ⎪	0101560	1 D
R206	22kΩ ⎪	0101223	2 D
R207	100kΩ ⎪	0101104	2 A
R208	220kΩ ⎪	0101224	2 A
R209	680Ω ⎪	0101681	2 A
R210	68kΩ ⎪	0101683	2 B
R211	22kΩ ⎪	0101223	2 A
R212	10kΩ ⎪	0101103	2 A
R213	1kΩ ⎪	0101102	2 B
R214	2.2kΩ ⎪	0101222	2 C
R215	22Ω ⎪	0101220	2 B
R216	22Ω ⎬ ±10% ¼W CR.	0101220	2 C
R217	10kΩ ⎪	0101103	2 C
R218	1kΩ ⎪	0101102	2 C
R219	68kΩ ⎪	0101683	2 C
R220	100kΩ ⎪	0101104	2 D
R222	18kΩ ⎪	0101183	2 D
R223	2.7kΩ ⎪	0101272	2 C
R224	56Ω ⎪	0101560	2 C
R225	820Ω ⎪	0101821	2 D
R226	10kΩ ⎪	0101103	1 D
R227	10kΩ ⎪	0101103	2 D
R228	15kΩ ⎪	0101153	1 A
R229	15kΩ ⎪	0101153	1 B
R230	15kΩ ⎭	0101153	2 B
C201	0.01μF ⎫	0659004	1 A
C202	0.02μF ⎪	0659005	1 A
C203	0.02μF ⎪	0659005	1 A
C204	0.02μF ⎪	0659005	1 A
C205	0.02μF ⎪	0659005	1 B
C206	0.02μF ⎬ +80% −20% 25 V CC.	0659005	1 B
C207	0.02μF ⎪	0659005	1 B
C208	0.02μF ⎪	0659005	1 B
C209	0.02μF ⎪	0659005	1 C
C210	0.02μF ⎪	0659005	1 C
C211	0.02μF ⎪	0659005	1 C
C212	0.02μF ⎭	0659005	1 C
C213	220 pF ⎫	0660221	1 D
C214	220 pF ⎬ ±10% 50 V CC.	0660221	1 D
C215	47 pF ⎭	0660470	1 D
C216	10μF 10 V EC.	0511100	1 D
C217	0.05μF ⎫	0659007	2 A
C218	0.02μF ⎬ +80% −20% 25 V CC.	0659005	2 A
C219	0.02μF ⎭	0659005	2 A
C220	3.3 pF ⎫	0660339	2 A
C221	3.3 pF ⎬ ±10% 50 V CC.	0660339	2 A
C222	3.3 pF ⎭	0660339	2 B
C223	0.02μF +80% −20% 25 V CC.	0659005	2 B

W	X	Y	Z
C224	0.02μF ⎫	0659005	2 B
C225	0.02μF ⎬ +80% −20% 25 V CC.	0659005	2 B
C226	0.02μF ⎪	0659005	2 C
C227	0.02μF ⎭	0659005	2 C
C228	330 pF ⎫	0660331	2 C
C229	330 pF ⎬ ±10% 50 V CC.	0660331	2 C
C230	0.05μF ⎫	0659007	2 C
C231	0.02μF ⎬ +80% −20% 25 V CC.	0659005	2 D
C232	1μF 50 V EC.	0515109	2 D
VR202	50kΩB Tuning Meter Adjustor	1030200	2 C
VR203	100kΩB Muting Adjustor	1030340	2 D
T201	⎫	4235470	1 A
T202	⎬ FM IFT 10.7MHz	4235480	1 B
T203	⎭	4235490	1 C
T204	FM Detector 10.7MHz	4235180	1 D
T205	FM Meter Transformer	4235290	2 B
L201	⎫	4290011	1 A
L202	⎬ 3.5μH Choke Coil	4290011	1 B
L203	⎭	4290011	1 C
IC201	⎫	0360030	1 A
IC202	⎪	0360030	1 B
IC203	⎬ PA-7703E	0360030	1 B
IC204	⎭	0360030	1 C
TR201	2SC 380 (O) or 2SC460 (B,C)	0305330	2 B
TR202	2SC 828 (T)	0305270	2 C
TR203	2SA 564 (P,Q)	0300090, 1	2 D
D201	⎫	0310330	2 A
D202	⎪	0310330	2 A
D203	⎪	0310330	2 B
D204	⎬ IN60	0310330	2 B
D205	⎭	0310330	2 B


F-1214
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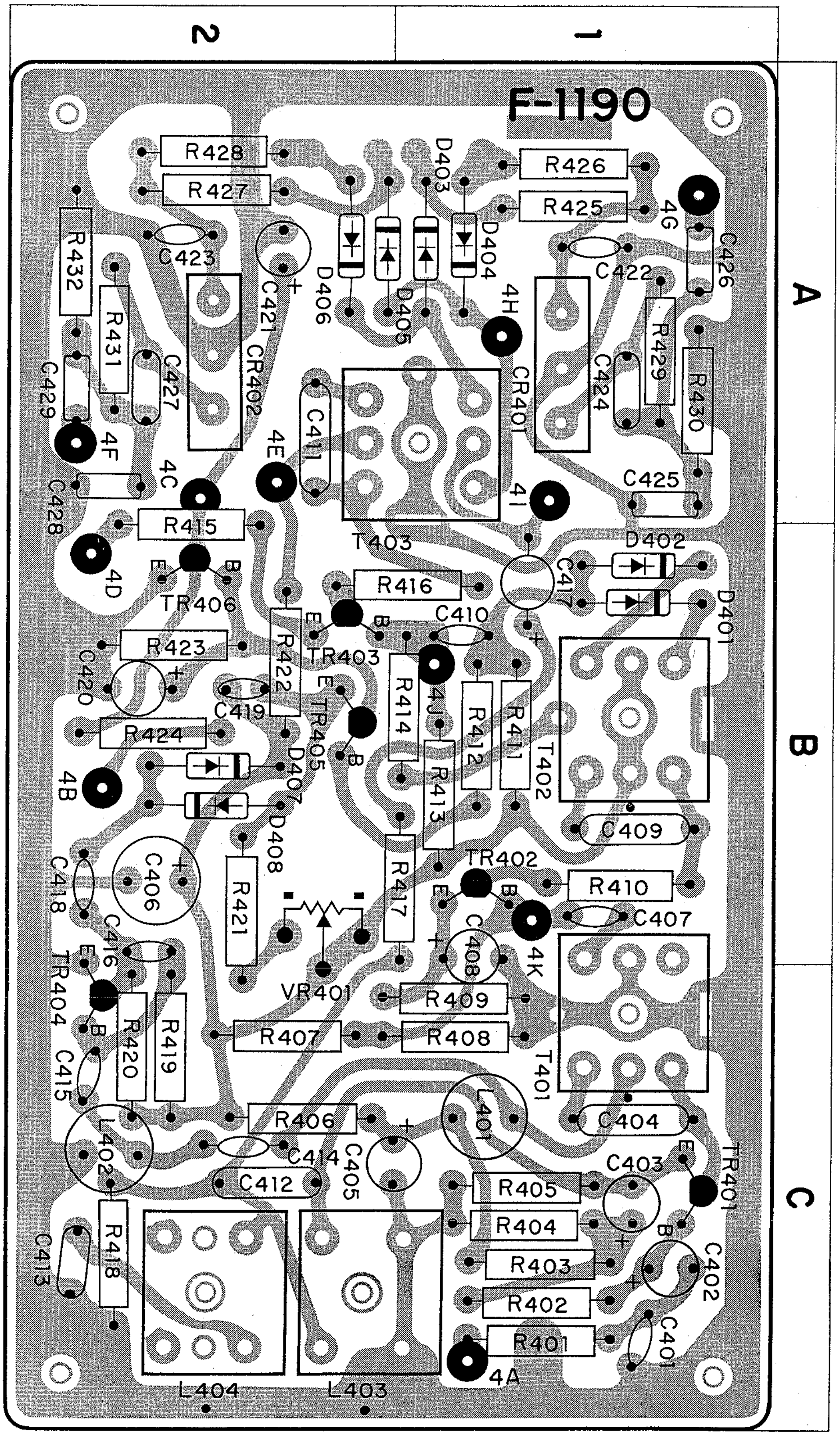
PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. **X:** Parts Name **Y:** Stock No. **Z:** Position of Parts

F-1190 〈MULTIPLEX BLOCK〉

W	X	Y	Z
R401	1kΩ	0101102	1 C
R402	100kΩ	0101104	1 C
R403	100kΩ	0101104	1 C
R404	22kΩ	0101223	1 C
R405	680Ω	0101681	1 C
R406	100Ω	0101101	2 C
R407	47kΩ	0101473	2 C
R408	22kΩ	0101223	1 C
R409	2.2kΩ	0101222	1 C
R410	1kΩ ±10% ¼W CR.	0101102	1 B
R411	10kΩ	0101103	1 B
R412	10kΩ	0101103	1 B
R413	100kΩ	0101104	1 B
R414	18kΩ	0101183	1 B
R415	5.6kΩ	0101562	2 A
R416	470Ω	0101471	1 B
R417	2.2kΩ	0101222	1 B
R418	10kΩ	0101103	2 C
R419	1.2MΩ ±10% ¼W SR.	0110125	2 C
R420	4.7kΩ	0101472	2 C
R421	3.3kΩ	0101332	2 B
R422	47Ω	0101470	2 B
R423	1.8kΩ	0101182	2 B
R424	6.8kΩ	0101682	2 B
R425	22kΩ	0101223	1 A
R426	22kΩ ±10% ¼W SR.	0101223	1 A
R427	22kΩ	0101223	2 A
R428	22kΩ	0101223	2 A
R429	100kΩ	0101104	1 A
R430	220kΩ	0101224	1 A
R431	100kΩ	0101104	2 A
R432	220kΩ	0101224	2 A
C401	100pF ±10% 50 V CC.	0660101	1 C
C402	1μF 50 V EC.	0515109	1 C
C403	33μF 6.3 V EC.	0510330	1 C
C404	5000pF ± 5% 50 V SC.	0620502	1 C
C405	10μF 25 V EC.	0513100	1 C
C406	47μF 25 V EC.	0513470	2 B
C407	0.02μF ±10% 50 V MC.	0601207	1 B
C408	1μF 50 V EC.	0515109	1 B
C409	6800pF ± 5% 50 V SC.	0620682	1 B
C410	0.02μF ±10% 50 V MC.	0601207	1 B
C411	1700pF	0620172	2 A
C412	1500pF ± 5% 50 V SC.	0620152	2 D
C413	220pF	0620221	2 C
C414	330pF	0660331	2 C
C415	330pF ±10% 50 V CC.	0660331	2 C
C416	47pF	0660470	2 B
C417	10μF 25 V EC.	0513100	1 B
C418	0.02μF +80 −20% 25 V CC.	0659005	2 B
C419	0.02μF +80 −20% 25 V CC.	0659005	2 B
C420	3.3μF 25 V EC.	0513339	2 B
C421	10μF 10 V EC.	0511100	2 A
C422	220pF ±10% 50 V CC.	0660221	1 A
C423	220pF ±10% 50 V CC.	0660221	2 A
C424	560pF ± 5% 50 V SC.	0620561	1 A
C425	1000pF ± 5% 50 V SC.	0620102	1 A
C426	0.03μF ±10% 50 V MC.	0601307	1 A
C427	560pF ± 5% 50 V SC.	0620561	2 A
C428	1000pF ± 5% 50 V SC.	0620102	2 A
C429	0.03μF ±10% 50 V MC.	0601307	2 A
CR401	FP-38A	0800080	1 A
CR402	FP-38A	0800080	2 A
T401	19kHz	4240280	1 C
T402	19kHz	4240290	1 B
T403	38kHz	4240290	1 A
L401	4.7mH	4900030	1 C
L402	4.7mH	4900030	2 C
L403	68kHz	4240260	2 C
L404	71kHz	4240270	2 C
D401	IN34A	0310400	1 B
D402	IN34A	0310400	1 B
D403	IN34AⓎ	0310401	1 A
D404	IN34AⓎ	0310401	1 A
D405	IN34AⓎ	0310401	2 A
D406	IN34AⓎ	0310401	2 A
D407	IN34A	0310400	2 B
D408	IN34A	0310400	2 B
TR401	2SC458LG (B, C)	0305310	1 C
TR402	2SC536V1 (E_1, E_2)	0305244, 5	1 B
TR403	2SC536V1 (E_1, E_2)	0305244, 5	2 B
TR404	2SC536V1 (E_1, E_2)	0305244, 5	2 C
TR405	2SA564 (P, Q)	0300090, 1	2 B
TR406	2SC536V1 (E_1, E_2)	0305244, 5	2 B



F-1190
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VR401
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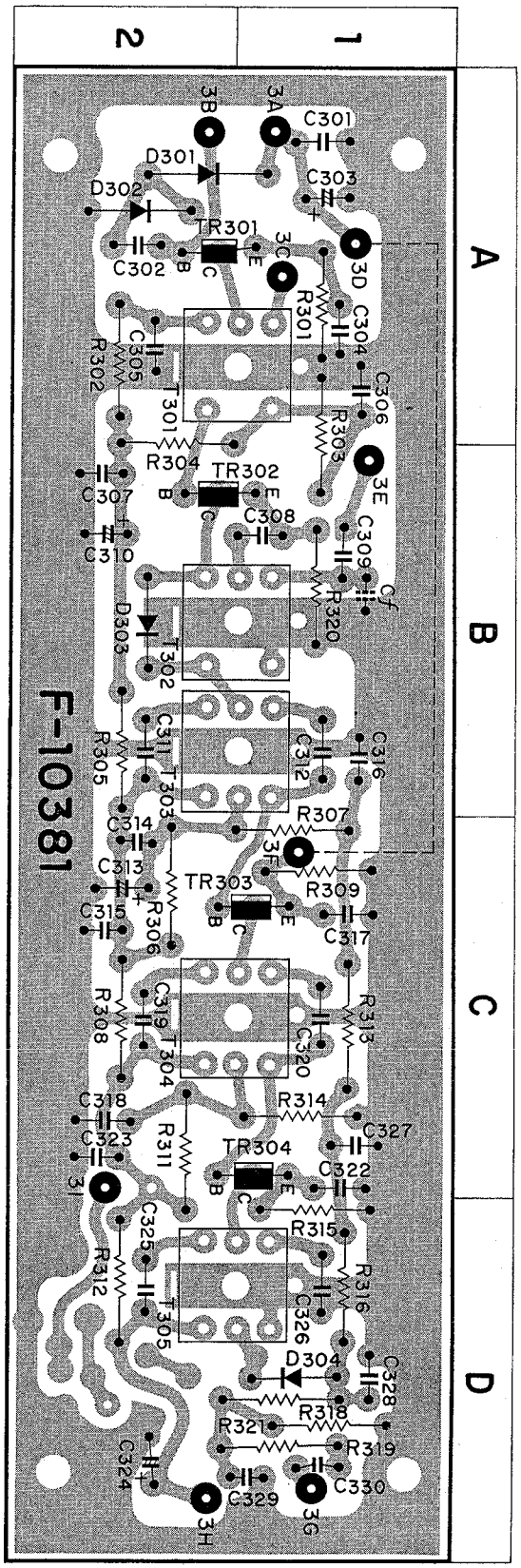
PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. **X:** Parts Name **Y:** Stock No. **Z:** Position of Parts

F-10381 〈AM IF BLOCK〉

W	X	Y	Z
R301	1kΩ	0101102	1 A
R302	100Ω	0101101	2 A
R303	3.9kΩ	0101392	1 A
R304	33kΩ	0101333	2 B
R305	100Ω	0101101	2 B
R306	56kΩ	0101563	2 C
R307	22Ω	0101220	1 B
R308	22Ω	0101220	2 C
R309	1kΩ	0101102	1 C
R311	10kΩ ±10% ¼W CR.	0101103	2 C
R312	22Ω	0101220	2 D
R313	100Ω	0101101	1 C
R314	6.8kΩ	0101682	1 C
R315	470Ω	0101471	1 C
R316	8.2kΩ	0101822	1 D
R318	1kΩ	0101102	1 D
R319	120kΩ	0101124	1 D
R320	1kΩ	0101102	1 B
R321	4.7kΩ	0101472	1 D
C301	0.04μF +80 −20% 25 V CC.	0659006	1 A
C302	0.04μF +80 −20% 25 V CC.	0659006	2 A
C303	100μF 6.3 V EC.	0510101	1 A
C304	0.02μF	0659005	1 A
C305	0.04μF +80 −20% 25 V CC.	0659006	2 A
C306	0.04μF +80 −20% 25 V CC.	0659006	1 A
C307	0.02μF	0659005	2 B
C308	0.01μF ±5% 50 V MC.	0600107	1 B
C309	430 pF ±5% 50 V MiC.	0640431	1 B
C310	100μF 16 V EC.	0512101	2 B
C311	500 pF ±5% 50 V MiC.	0640501	2 B
C312	500 pF ±5% 50 V MiC.	0640501	2 A
C313	4.7μF 16 V EC.	0512479	2 C
C314	0.02μF	0659005	2 B
C315	0.02μF +80 −20% 25 V CC.	0659005	2 C
C316	0.04μF	0659006	1 B
C317	47μF 6.3 V EC.	0510470	1 C
C318	0.02μF +80 −20 25 V CC.	0659005	2 C
C319	500 pF ±5% 50 V MiC.	0640501	2 C
C320	500 pF ±5% 50 V MiC.	0640501	1 C
C322	0.04μF +80 −20% 25 V CC.	0659006	1 C
C323	0.02μF +80 −20% 25 V CC.	0659005	2 C
C324	220μF 16 V EC.	0512221	2 D
C325	500 pF ±5% 50 V MiC.	0640501	2 D
C326	500 pF ±5% 50 V MiC.	0640501	1 D
C327	0.02μF +80 −20% 25 V CC.	0659005	1 C
C328	0.02μF ±5% 50 V MC.	0600207	1 D
C329	0.1μF ±5% 50 V MC.	0600108	1 D
C330	0.04μF +80 −20% 25 V CC.	0659006	1 D
T301	AM RF	4210050	1, 2 A
T302	AM OSC	4220070	1, 2 B
T303	AM IFT 455kHz	4230190	1, 2 B
T304	AM IFT 455kHz	4230190	1, 2 C
T305	AM IFT 455kHz	4230180	1, 2 D

W	X	Y	Z
TR301	2SC460(C)	0305351	2 A
TR302	2SC460(B)	0305350	2 B
TR303	2SC460(B)	0305350	1, 2 C
TR304	2SC460(C)	0305351	1 D
D301	IN60	0310330	2 A
D302	IN60	0310330	2 A
D303	IN60	0310330	2 B
D304	IN60	0310330	1 D


F-10381
1
2
A
B
C
D
3A
3B
3C
3D
3E
3F
3G
3H
3I
C301
D301
D302
C303
TR301
C302
R301
C304
R302
C305
T301
C306
R303
R304
TR302
C307
C308
C309
C310
R320
Cf
D303
T302
C311
C312
C316
R305
T303
R307
C314
C313
TR303
R309
R306
C315
C317
C319
R313
R308
T304
C320
C318
R314
C327
C323
R311
TR304
C322
C325
R315
R312
R316
T305
C326
D304
C328
R318
R321
R319
C324
C329
C330

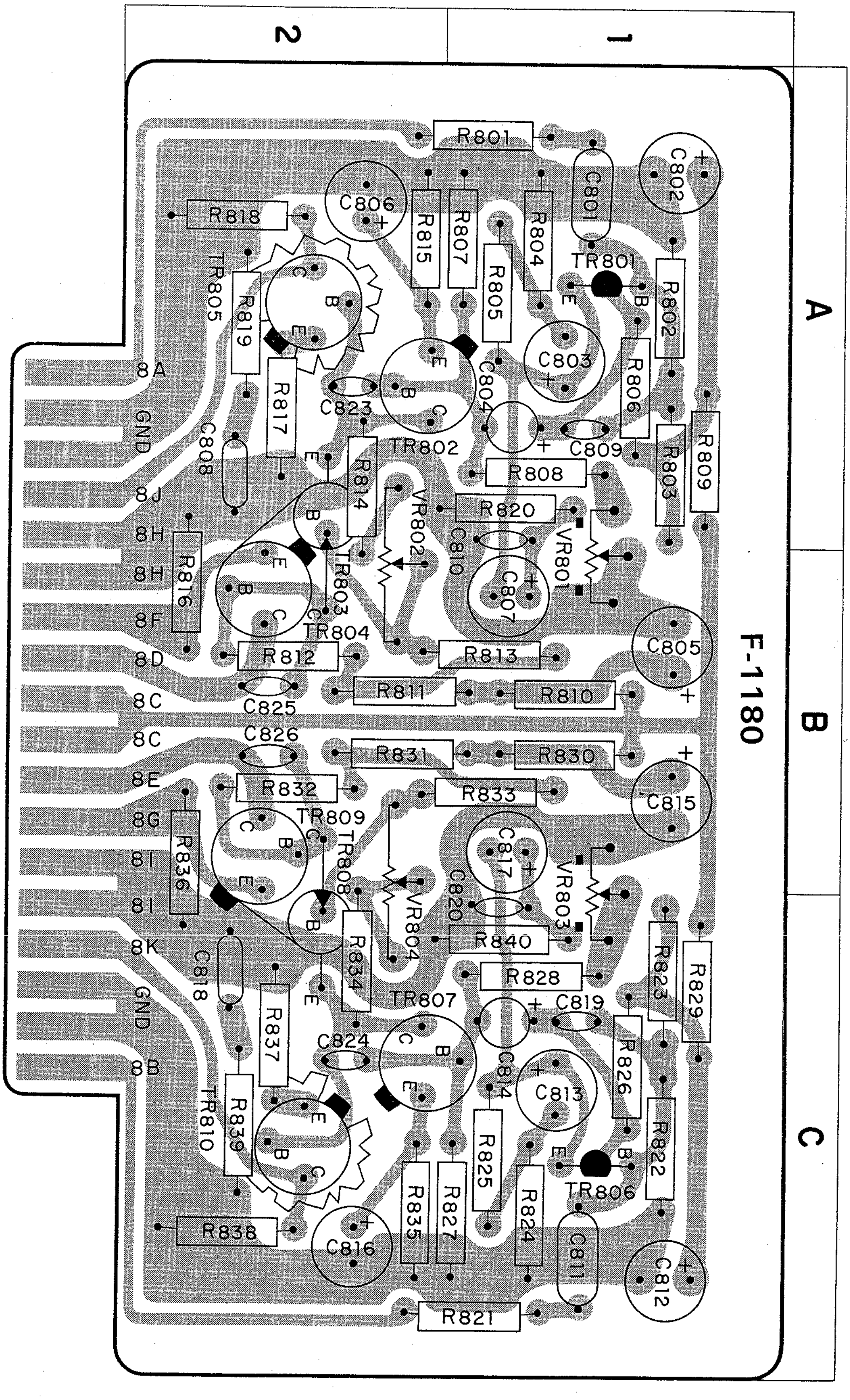
PRINTED CIRCUIT BOARDS AND PARTS LIST

W: Parts No. **X:** Parts Name **Y:** Stock No. **Z:** Position of Parts

F-1180 〈DRIVER AMP. BROCK〉

W	X	Y	Z
R801	2.2kΩ }	0101222	1 A
R802	150kΩ	0101154	1 A
R803	560kΩ	0101564	1 A
R804	220Ω	0101221	1 A
R805	3.3kΩ	0101332	1 A
R806	3.3kΩ	0101332	1 A
R807	10kΩ	0101103	1 A
R808	47kΩ	0101473	1 A
R809	56kΩ } ±10% ¼W CR.	0101563	1 A
R810	1.8kΩ	0101182	1 B
R811	3.9kΩ	0101392	2 B
R812	39Ω	0101390	2 B
R813	3.3kΩ	0101332	1 B
R814	1.5kΩ	0101152	2 A
R815	220Ω	0101221	2 A
R816	100Ω	0101101	2 B
R817	4.7Ω	0101479	2 A
R818	100Ω }	0101101	2 A
R819	10Ω ±10% ½W SR.	0111100	2 A
R820	8.2kΩ }	0101822	1 A
R821	2.2kΩ	0101222	1 C
R822	150kΩ	0101154	1 C
R823	560kΩ	0101564	1 C
R824	220Ω	0101221	1 C
R825	3.3kΩ	0101332	1 C
R826	3.3kΩ	0101332	1 C
R827	10kΩ	0101103	1 C
R828	47kΩ	0101473	1 C
R829	56kΩ	0101563	1 C
R830	1.8kΩ } ±10% ¼W CR.	0101182	1 B
R831	3.9kΩ	0101392	2 B
R832	39Ω	0101390	2 B
R833	3.3kΩ	0101332	1 B
R834	1.5kΩ	0101152	2 C
R835	220Ω	0101221	2 C
R836	100Ω	0101101	2 B
R837	4.7Ω	0101479	2 C
R838	100Ω	0101101	2 C
R839	10Ω	0111100	2 C
R840	8.2kΩ }	0101822	1 C
C801	0.22μF ±10% 50 V MC.	0601228	1 A
C802	100μF 25 V EC.	0513101	1 A
C803	220μF 10 V EC.	0511221	1 A
C804	1μF } 50 V EC.	0515109	1 A
C805	33μF }	0515330	1 B
C806	100μF 10 V EC.	0511101	2 A
C807	10μF 50 V EC.	0515100	1 B
C808	0.047μF ±10% 50 V MC.	0601477	2 A
C809	47 pF ±10% 50 V CC.	0660470	1 A
C811	0.22μF ±10% 50 V MC.	0601228	1 C
C812	100μF 25 V EC.	0513101	1 C
C813	220μF 10 V EC.	0511221	1 C
C814	1μF } 50 V EC.	0515109	1 C
C815	33μF }	0515330	1 B
C816	100μF 10 V EC.	0511101	2 C

W	X	Y	Z
C817	10μF 50 V EC.	0515100	1 B
C818	0.047μF ±10% 50 V MC.	0601477	2 C
C819	47 pF }	0660470	1 C
C823	47 pF }	0660470	2 A
C824	47 pF } ±10% 50 V CC.	0660470	2 C
C825	330 pF }	0660331	2 B
C826	330 pF }	0660331	2 B
VR801	200kΩB AC Balance Adjustor	1030150	1 A, B
VR802	1kΩB DC Bias Adjustor	1030510	2 A, B
VR803	200kΩB AC Balance Adjustor	1030150	1 B, C
VR804	1kΩB DC Bias Adjustor	1030510	2 B, C
TR801	2SC458LG (C)	0305311	1 A
TR802	2SC627 (1, 2)	0305581, 2	2 A
TR803	2SC281 (B)	0305121	2 A, B
TR804	2SC708 (A, B, C)	0305480,1,2	2 B
TR805	2SA537 (A, B, C)	0300120,1,2	2 A
TR806	2SC458LG (C)	0305311	1 C
TR807	2SC627 (1, 2)	0305581, 2	2 C
TR808	2SC281 (B)	0305121	2 B, C
TR809	2SC708 (A, B, C)	0305480,1,2	2 B
TR810	2SA537 (A, B, C)	0300120,1,2	2 C


F-1180
A
B
C
1
2
8A
GND
8J
8H
8H
8F
8D
8C
8C
8E
8G
8I
8I
8K
GND
8B
TR801
TR802
TR803
TR804
TR805
TR806
TR807
TR808
TR809
TR810
VR801
VR802
VR803
VR804

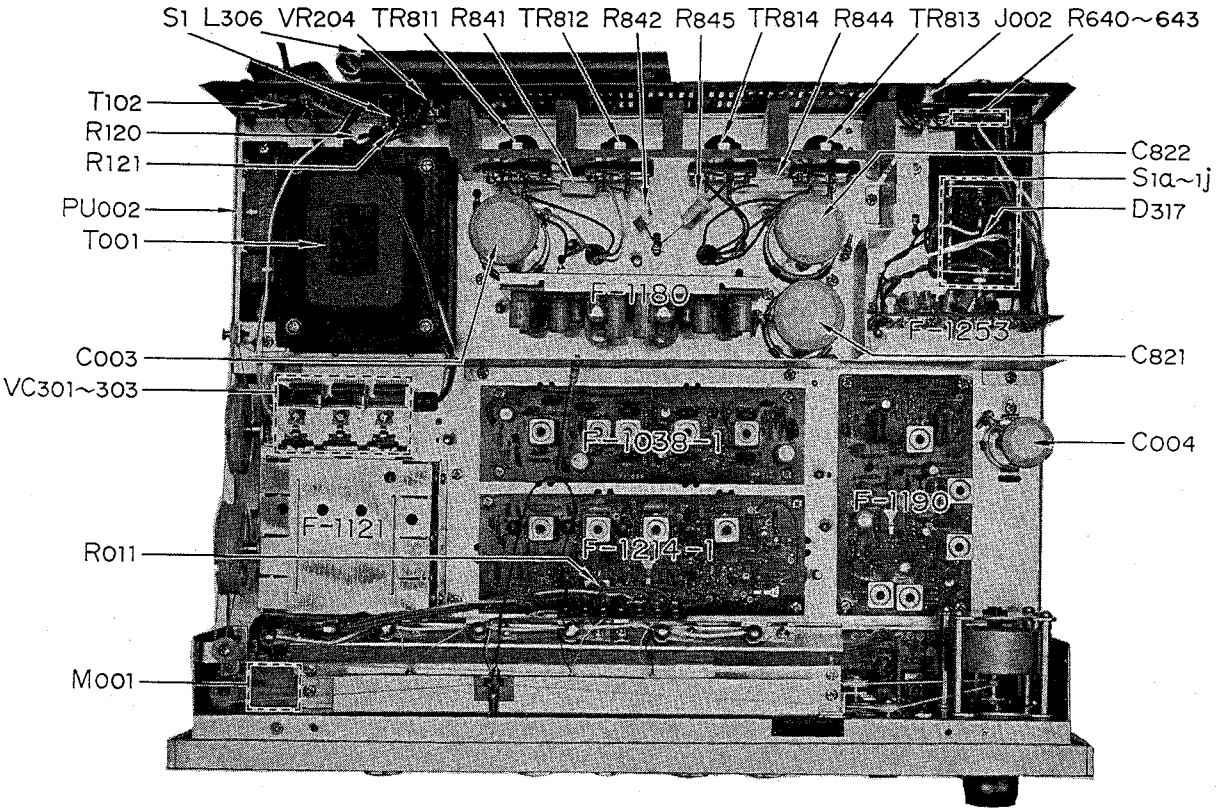
OTHER PARTS AND THEIR POSITION ON CHASSIS

W: Parts No. **X:** Parts Name **Y:** Stock No.

W	X	Y
R008	1.2kΩ ±10% ½W SR.	0111122
R009	150Ω	0101151
R010	10Ω	0101100
R012	39Ω	0101390
R017	220Ω	0101221
R120	56Ω	0101560
R121	680Ω	0101681
R635	68kΩ	0101683
R636	180kΩ	0101184
R637	100kΩ	0101104
R638	22kΩ ±10% ¼W CR.	0101223
R639	15kΩ	0101153
R640	100kΩ	0101104
R641	220kΩ	0101224
R642	100kΩ	0101104
R643	220kΩ	0101224
R645	68kΩ	0101683
R646	180kΩ	0101184
R647	100kΩ	0101104
R648	15kΩ	0101153
R841	0.5Ω ±10% 2 W CeR.	0152508
R842	0.5Ω	0152508
R843	330Ω ±10% ½W SR.	0111331
R844	0.5Ω ±10% 2 W CeR.	0152508
R845	0.5Ω	0152508
R846	330Ω ±10% ½W SR.	0111331
R847	560Ω ±10% 1 W CeR.	0151561
R848	560Ω	0151561
C003	2200μF 80 V EC.	0559821
C004	1000μF 50 V EC.	0515102
C008	0.033μF 600V OC.	0591337
C009	0.0047μF	0591476
C011	0.04μF +80 −20% 25 V CC.	0659006
C012	0.04μF	0659006
C013	0.01μF 400V OC.	0590107
C014	0.01μF	0590107
C017	220μF 25 V EC.	0503221
C345	1μF 50 V EC.	0515109
C439	0.02μF +100 −0% 50 V CC.	0650203
C622	100pF	0660101
C623	100pF	0660101
C624	100pF ±10% 50 V CC.	0660101
C625	100pF	0660101
C821	2200μF 75 V EC.	0559703
C822	2200μF	0559703
VR204	1MΩB Muting Adjustor	1005080
S001	UEH 12CD00	1130160
S1(a~i)	Y-4-9-6	1104120
S10	Y-1-4-4	1101180
S11	SL-13-8-10H6-2-2	1110040
J001	Headphones Jack	2430070
J002	DIN Connector	2430040
TR407	2SB324	0303110
TR811~814	2SD202 or 2SC793	0308200, 1

W	X	Y
CO001,2	AC Outlet	2450010
PU001	Multi Connector	2420020
PU002	Voltage Selector	2410170
M001	200μA Tuning Meter	0900200
T001	400-5338 Power Trans.	4000510
PL001	7V 0.2A PHONO 1, 2 AUX Indicator	0400150
PL002		0400150
PL008		0400150
PL003	6.3V 0.25A Dial Scale Lamp	0400080
PL004		0400080
PL005		0400080
PL006		0400080
PL007		0400080
PL011		0400080
PL010	6V 0.1A Stereo Indicator	0400160
PL012	5V 0.06A Dial Pointer	0400101
VC301~303	AM 3-Gang Variable Capacitor	1200040
T306	9G-013	4200270
T102	300Ω-75Ω High Frequency Transformer	4290021
F001	Power Fuse 100V/127V 3A	0431261
	220V/250V 2A	0431241
F801	Quick Acting Fuse (2.5A)	0430111
F802	Quick Acting Fuse (2.5A)	0430111
D317	SV-02	0310490

* Manufacturer reserves right to change design and/or specifications without notice for purpose of improvement.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T102
R120
R121
PU002
T001
C003
VC301~303
R011
M001
C822
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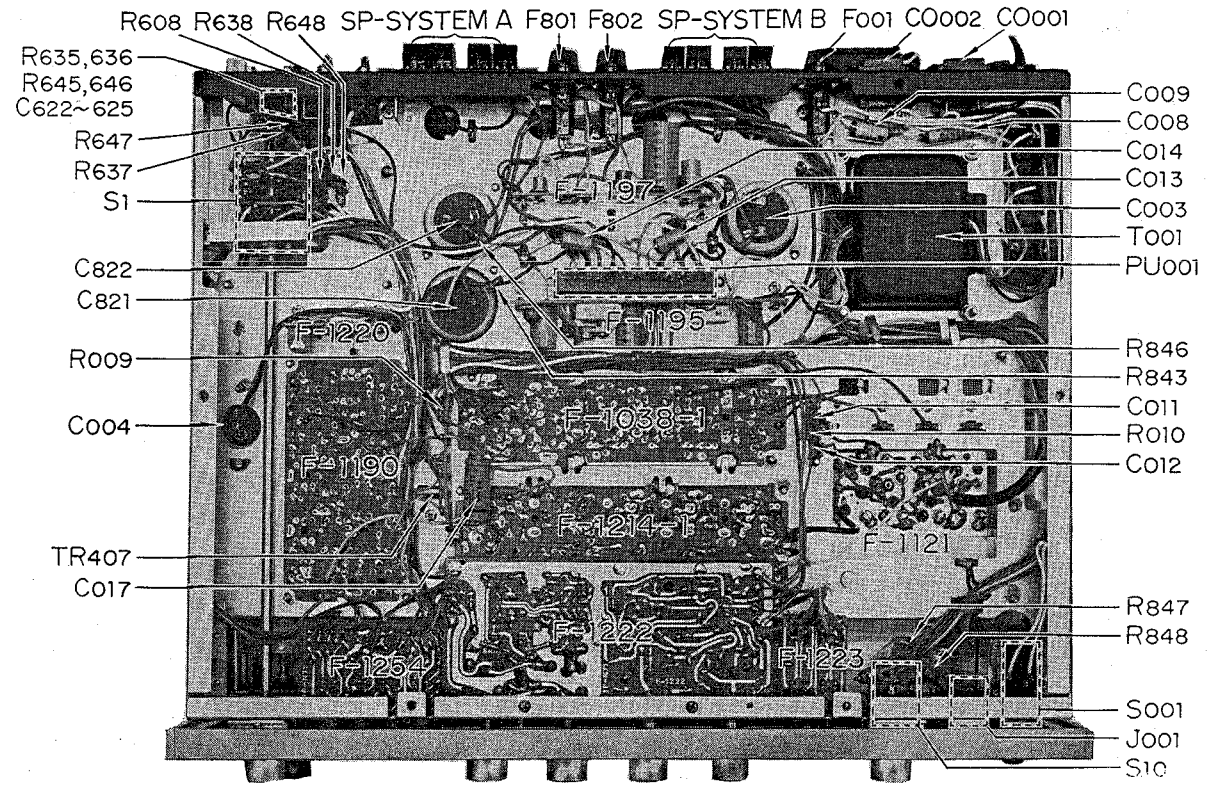
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R635,636
R645,646
C622~625
R647
R637
S1
C822
C821
R009
C004
TR407
C017
C009
C008
C014
C013
C003
T001
PU001
R846
R843
C011
R010
C012
R847
R848
S001
J001
S10
F-1197
F-1195
F-1220
F-1038-1
F-1190
F-1214-1
F-1121
F-1222
F-1254
F-1223