

VANTAGE ELECTRONICS CORP

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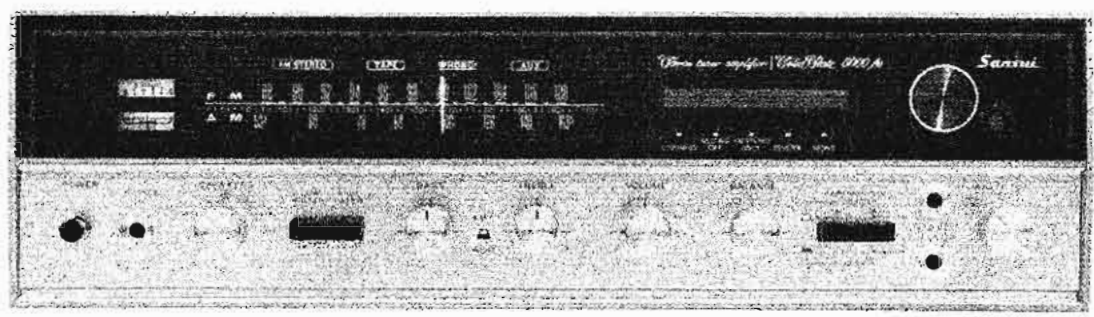
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JOAO C. CAKERE 886648-2771603

SERVICE MANUAL

AM/FM STEREO TUNER AMPLIFIER

SANSUI 5000A



SANSUI ELECTRIC COMPANY LIMITED

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GENERAL TROUBLESHOOTING CHART

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

1. Incorrect connections or loose terminal contacts. Check the speakers, record player, tape recorder, antenna and line cord.
2. Improper operation. Before operating any audio com-

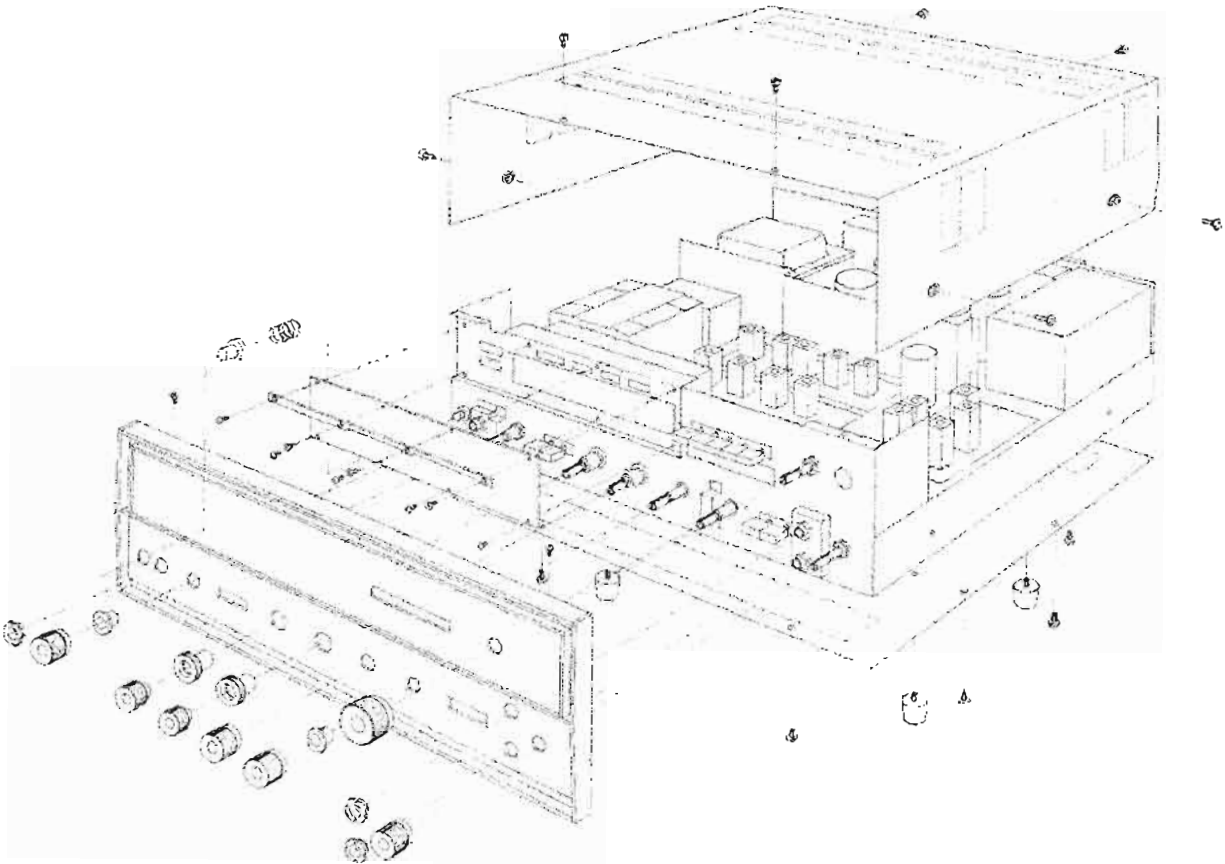
- ponent, be sure to read the manufacturer's instructions.
 3. Improper location of audio components. The proper positioning of components, such as speakers and turntable, is vital to stereo.
 4. Defective audio components.
- The following are some other common causes of malfunction and what to do about them.

PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
AM, FM or MPX reception	A. Constant or intermittent noise heard at times or in a certain area	<ul style="list-style-type: none"> * Discharge or oscillation caused by electrical appliances, such as fluorescent lamp, TV set, D.C. motor rectifier or oscillator * Natural phenomena, such as atmospheric static or thunderbolts * Insufficient antenna input due to ferr oconcrete wall or long distance from the station * Wave interference from other electrical appliances 	<ul style="list-style-type: none"> * Attach a noise limiter to the electrical appliance causing the noise, or attach it to the amplifiers power source * Install an outdoor antenna and ground the amplifier to raise the signal-to-noise ratio * Reverse the power cord plug-receptacle connections * If the noise occurs at a certain frequency, attach a wave trap to the ANT. input * Keep the set at a proper distance from other electrical appliances
	B. The needle of the signal and tune meter does not move sharply	<ul style="list-style-type: none"> * Receiver is located in a weak signal area 	<ul style="list-style-type: none"> * Place the set to Receive maximum signal strength
	C. The zero point of the meter diverges much	<ul style="list-style-type: none"> * Regional difference in field intensity 	<ul style="list-style-type: none"> * 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	<ul style="list-style-type: none"> * Due to the nature of AM broadcasts 	<ul style="list-style-type: none"> * 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	<ul style="list-style-type: none"> * Adjacent-channel interference or beat interference * TV set too close to audio system 	<ul style="list-style-type: none"> * 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	<ul style="list-style-type: none"> * Poor noise limiter effect or too low SN ratio due to insufficient antenna input 	<ul style="list-style-type: none"> * Install the antenna (attached) for maximum signal strength * If this does not prove effective, use an outdoor antenna designed exclusively for FM. When you use a TV antenna for both TV and FM with a divider, make sure TV reception is not affected * An excessively long antenna may cause noise
	<p>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</p>		

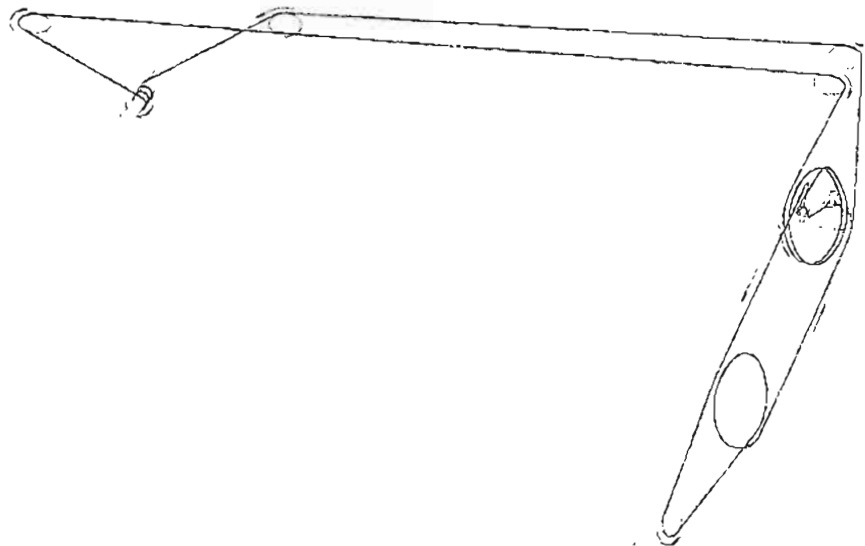
PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
FM reception (cont'd)	B. Noise heard like "Scratch noise" heard	* Ignition noise caused by starting of an automobile engine	* Install the antenna and its lead-in wire in proper distance from the road or raise the antenna input as described above
	C. Tuning noise between stations	* This results from the nature of the FM reception. As the station signal becomes weak, the noise limiter effect is decreased, and the amplification of the limiter, in turn, is enlarged, generating a noise	* Turn the MUTING switch on. It reduces the sensitivity, and therefore it should be used sparingly
FM-MPX reception	A. Noise heard during FM-MPX reception while not heard during FM mono reception	* Weaker signal because the service area of the FM-MPX broadcast is only half that of the FM mono broadcast	* Install the antenna for maximum antenna input * Switch on the high filter and/or turn the TREBLE control from midpoint, left
	B. Clearness of channel separation is decreased during reception	* Excess heat	* Circulation of air is important to the amplifier. Be sure that air is flowing under the amplifier
	C. The stereo indicator blinks on and off	* Interference	* The indicator is not at fault, adjust VR ₄₀₁
	D. The stereo indicator blinks on and off even though stereo station is not received	* Interference	* The indicator is not at fault, adjust VR ₄₀₁
Record playing or tape playback	A. Hum or howling	* Record player placed directly on speaker * Wire other than shielded wire used * Loose terminal contact * Shielded wire too close to line cord, fluorescent lamp or other electrical appliances * Nearby amateur radio station or TV transmission antenna	* Place a cushion between the player and the speaker box or place them away from each other * The connecting shielded wire should be as short as possible * Switch on the LOW FILTER and adjust the BASS control from midpoint, left * Consult the nearest Radio Regulatory Bureau
	B. Surface noise	* Worn or old record * Worn needle * Needle dusty * Improper needle pressure	* Recondition the playback head of the tape recorder or the needle the record player * Adjust the TREBLE control from midpoint, left * HIGH FILTER on
All stereo programs	BALANCE control is not at midpoint when equal sound comes from left and right channels	* It is important to adjust for equal sound from both channels. It should not always be set to the midpoint	* Set the MONO switch to MONO and then set the BALANCE control to a position where equal sound comes from both channels

DISASSEMBLY PROCEDURE

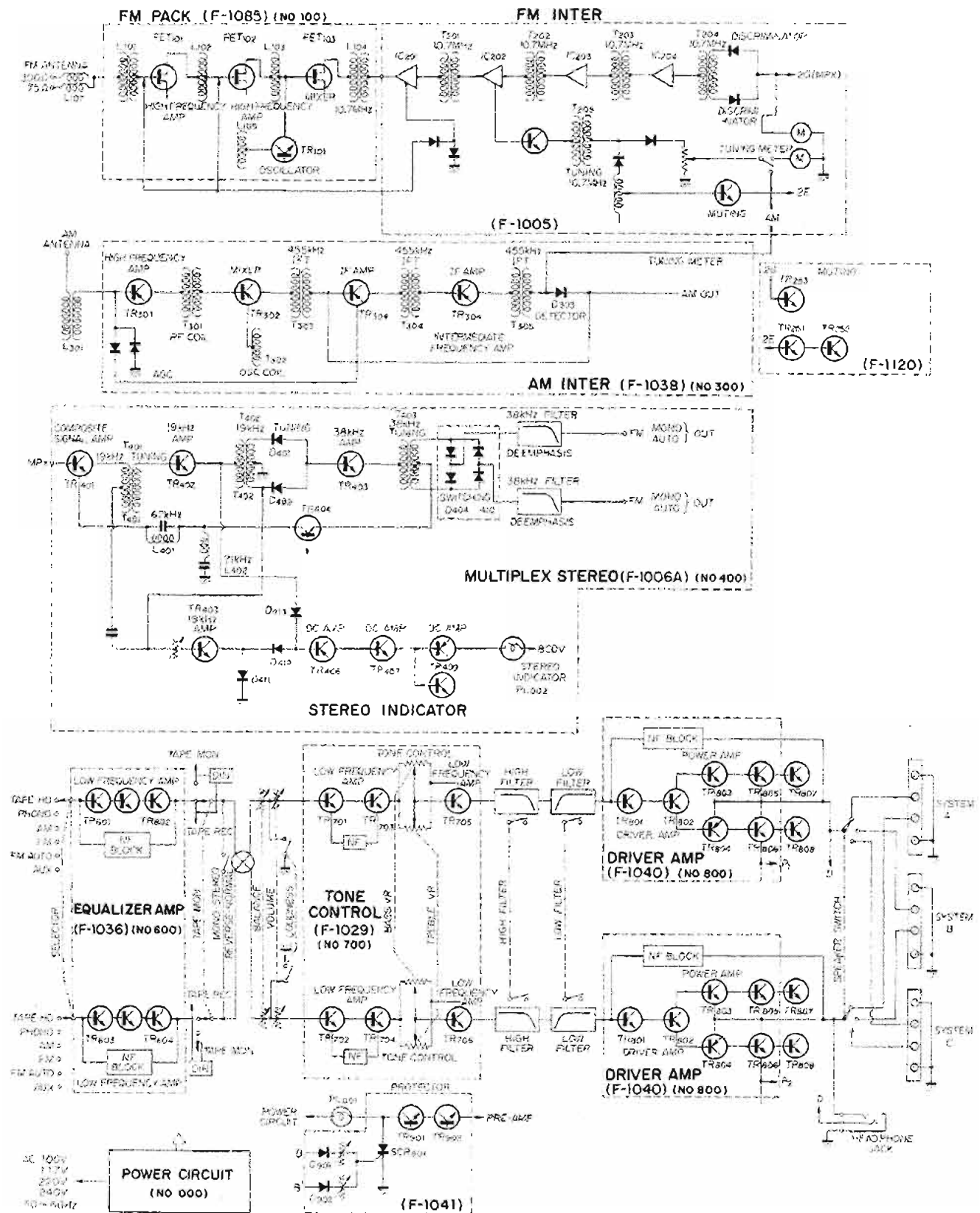
REMOVING THE FRONT PANEL, BONNET AND BOTTOM PLATE



DIAL MECHANISM



BLOCK DIAGRAM



CUSTOM MOUNTING

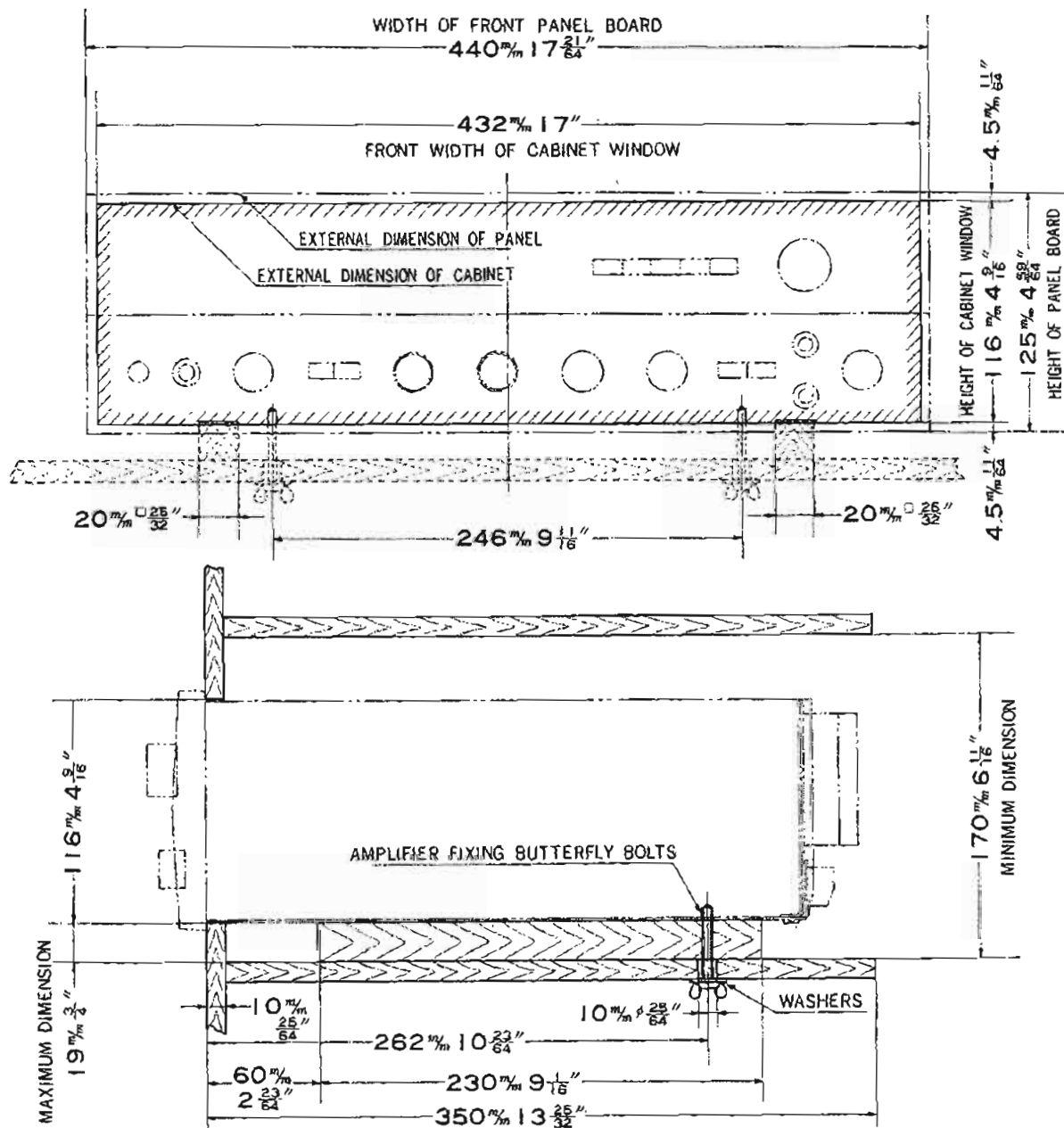
This diagram shows the size and dimensions required for mounting the 5000A into a custommade cabinet. Note that ample space is provided for complete air circulation above and below the tuner.

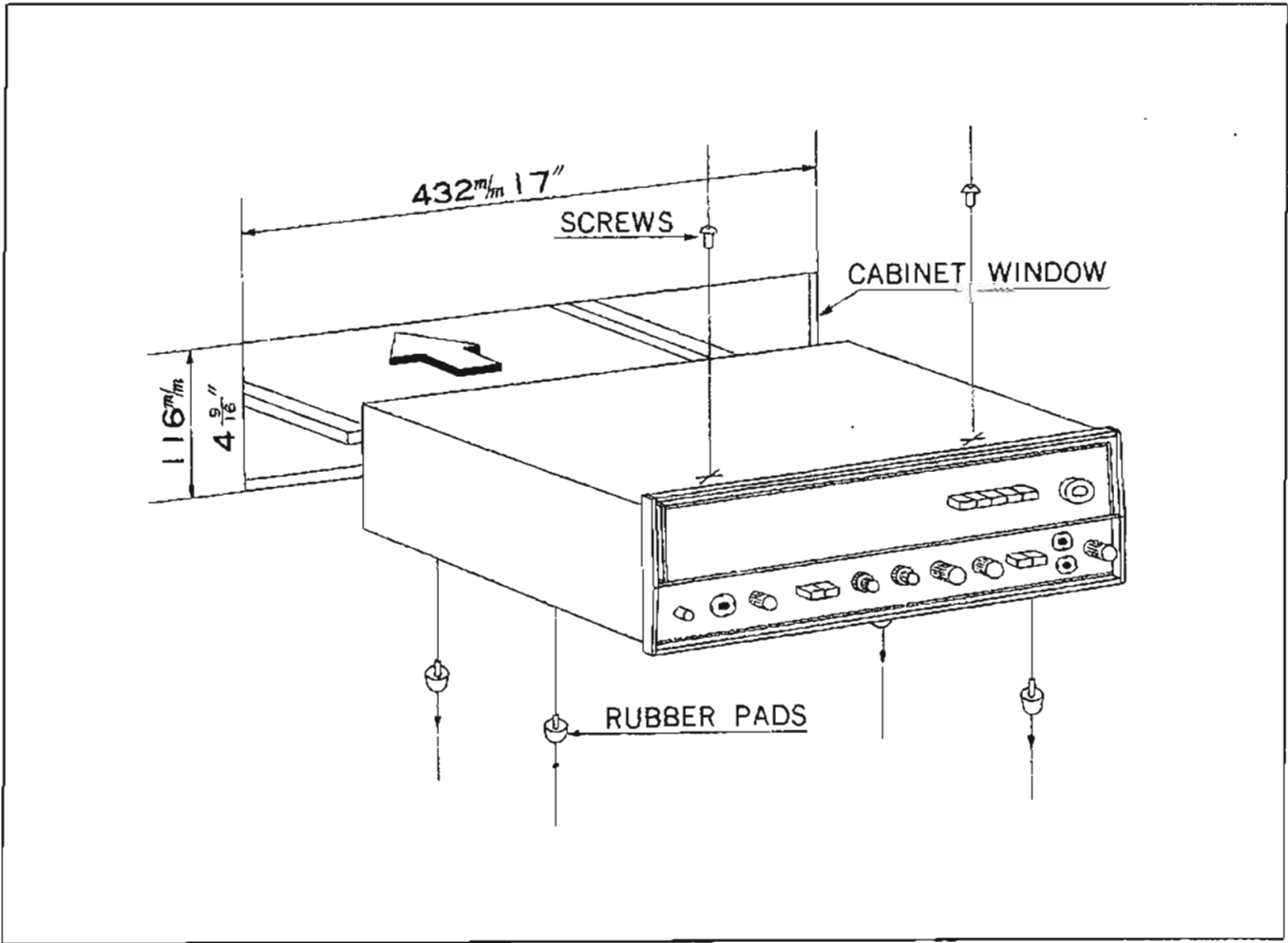
1. Be sure the cabinet window measures $17'' \times 4 \frac{9}{16}''$ as indicated in the diagram.
2. Place two boards on the floor of the cabinet as illustrated. Boards should measure $\frac{25}{32}'' \times \frac{23}{32}'' \times 9 \frac{1}{16}''$.

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

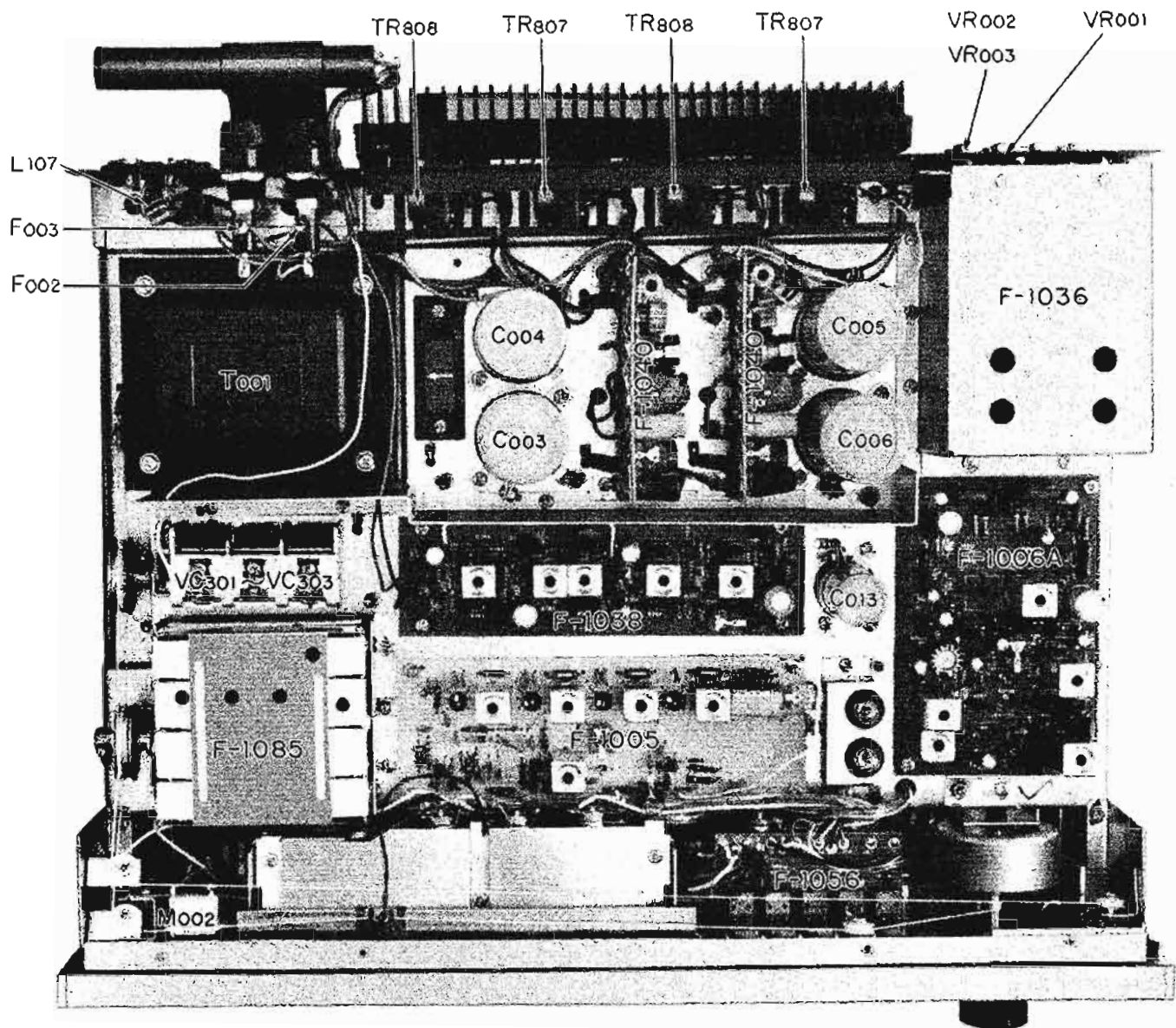
4. Remove the four rubber feet from the 5000A. (Retain for future use.)

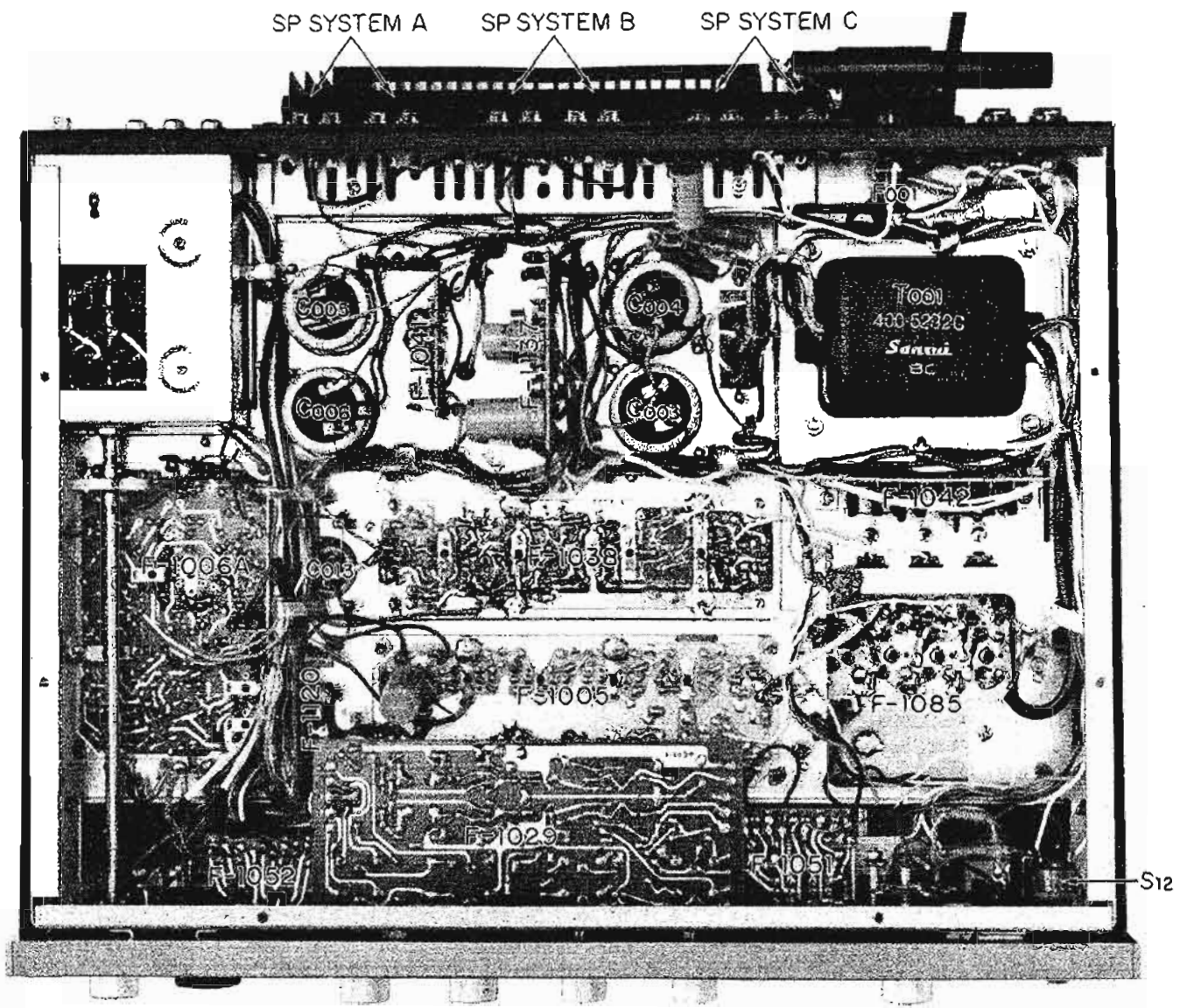
5. Insert the 5000A into the cabinet through the window until the edges of its front panel are flush with the cabinet, and secure both tuner and cabinet with washers and butterfly bolts provided.





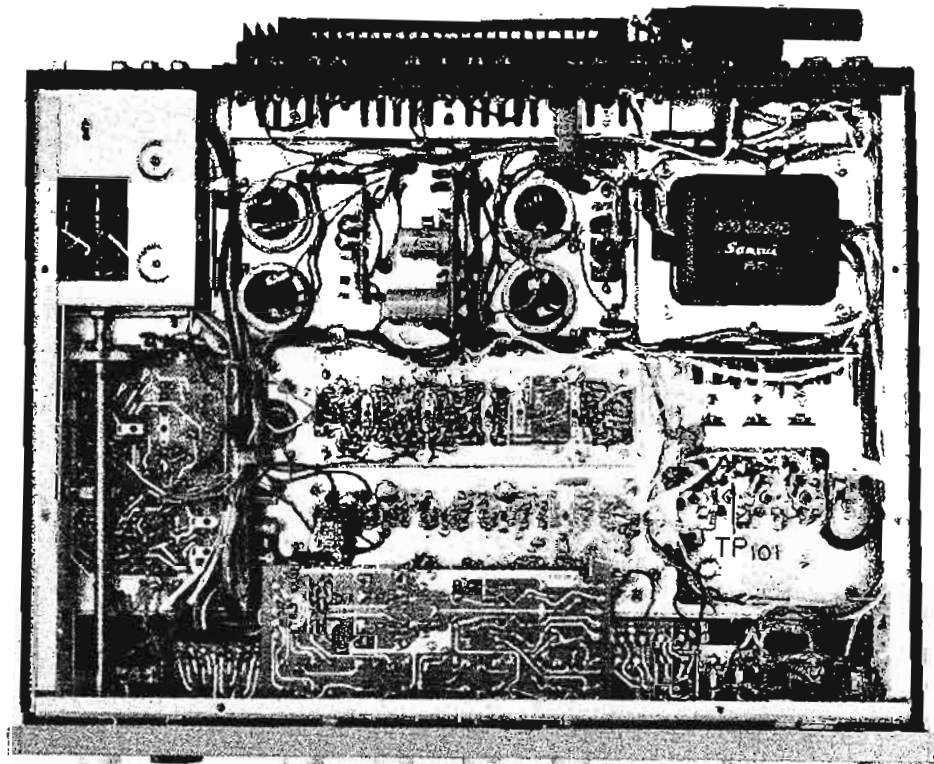
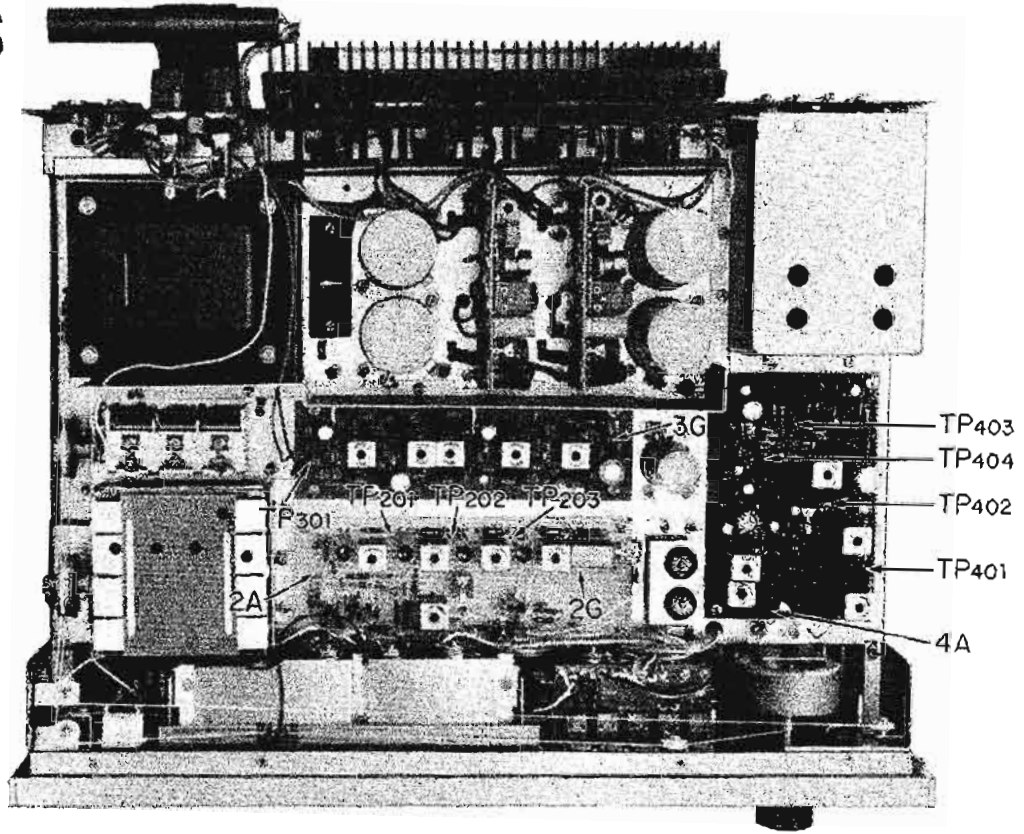
PARTS LAYOUT





ALIGNMENT

TEST POINTS

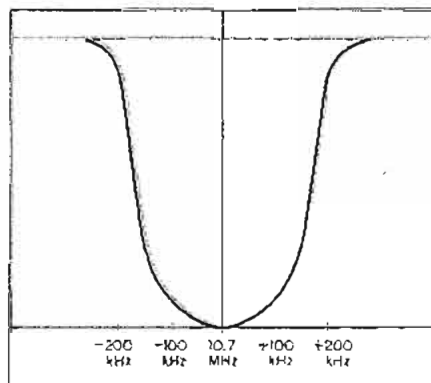


FM ALIGNMENT PROCEDURE

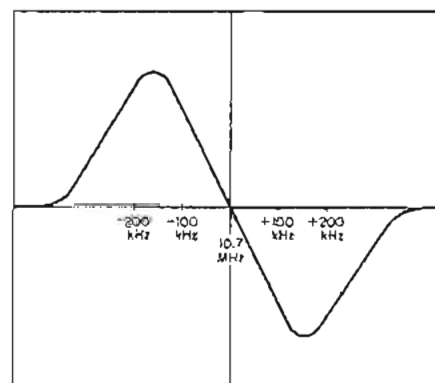
NOTE. To align, set the signal generator level to minimum
Turn tuning gang fully.
Center carrier wave
Set pointer at reference mark.

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF Transformer	10.7 MHz ±200 kHz	Sweep signal is sent to TP ₁₀₁ via the 10pF ceramic condenser	Oscilloscope is connected to TP ₂₀₁ , 202 and 203 via the 10pF ceramic condenser with probe		Top and bottom sides of T ₂₀₂ , 203	Best I.F.T. wave form
2.	Discriminator	10.7 MHz ±200 kHz	Sweep signal is sent to TP ₁₀₁ via the 10pF ceramic condenser	Oscilloscope is connected to 2G		FM. Discriminator is transformer T ₂₀₄ top and bottom sides	S curve
3.	O.S.C	90 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	90 MHz	O.S.C. coil L ₁₀₄	Maximum
4.	O.S.C	106 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	106 MHz	O.S.C. trimmer TC ₁₀₅	Maximum
5.	Reiterate 3 and 4.						
6.	High-frequency Amp. Circuit	90 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	90 MHz	Antenna coil L ₁₀₁ , L ₁₀₂ and L ₁₀₃	Maximum
7.	High-frequency Amp. Circuit	106 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	106 MHz	Trimmer TC ₁₀₁ , TC ₁₀₂ , TC ₁₀₃ and, TC ₁₀₄	Maximum
8.	Reiterate 6 and 7.						

FM IF WAVE FORM



FM DISCRIMINATOR WAVE FORM



ALIGNMENT

FM MULTIPLEX ALIGNMENT PROCEDURE

1. Do not attempt to align the Multiplex Circuit unless the following equipment is available:

a. Multiplex Stereo Generator b. Oscilloscope c. AC. V.T.V.M. d. Audio Oscillator e. FM Signal Generator

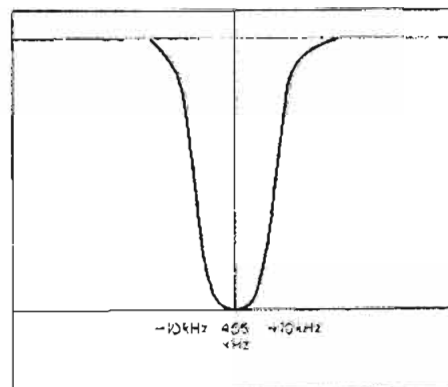
STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	ADJUST	ADJUST FOR
1.	67 kHz Trap	67 kHz Audio Signal	Connect to TP _{4A}	V.T.V.M. at TP ₄₀₁	L ₄₀₁	Minimum
2.	71 kHz Trap	71 kHz Audio Signal	Connect to TP _{4A}	V.T.V.M. at TP ₄₀₁	L ₄₀₂	Minimum
3.	19 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at TP ₄₀₁	T ₄₀₁	Maximum
4.	19 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at TP ₄₀₂	T ₄₀₂	Maximum
5.	36 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at TP ₄₀₃	T ₄₀₃	Maximum
6.	38 kHz Transformer and Separation VR	FM Signal Gen. Modulated 30% by STEREO Signal Gen. channel L	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at output load channel-R	T ₄₀₂ within 1/4 turn and Separation VR(VR ₀₀₁)	Channel-R Minimum

AM ALIGNMENT PROCEDURE

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

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	I.F. Transformer	455 kHz ±30 kHz Sweep-generator	Antenna terminals	Oscilloscope and V.T.V.M. at 3G		top and bottom sides from the 1st I.F.T. (T ₃₀₂) to the 3rd I.F.T. (T ₃₀₄)	Best I.F.T. wave form
2.	O.S.C.	AM-generator 535 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	535 kHz	O.S.C. Coil L ₃₀₂	Maximum
3.	O.S.C.	AM-generator 1600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1600 kHz	O.S.C. Trimmer TC ₃₀₃	Maximum
4.	Reiterate 2 and 3						
5.	RF amp.	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	RF transformer T ₃₀₁	Maximum
6.	Antenna circuit	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	Ferrite bar Antenna L ₃₀₁	Maximum
7.	RF amp.	AM-generation 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400 kHz	RF Trimmer TC ₃₀₂	Maximum
8.	Antenna circuit	AM-generation 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400 kHz	Antenna circuit Trimmer TC ₃₀₁	Maximum
9.	Reiterate 5, 6, 7, 8.						

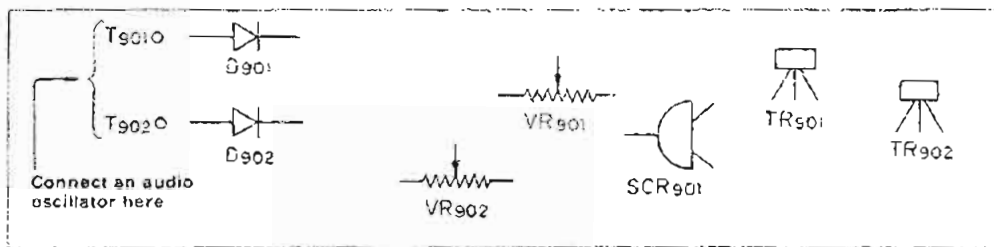
AM IF WAVE FORM



ALIGNMENT

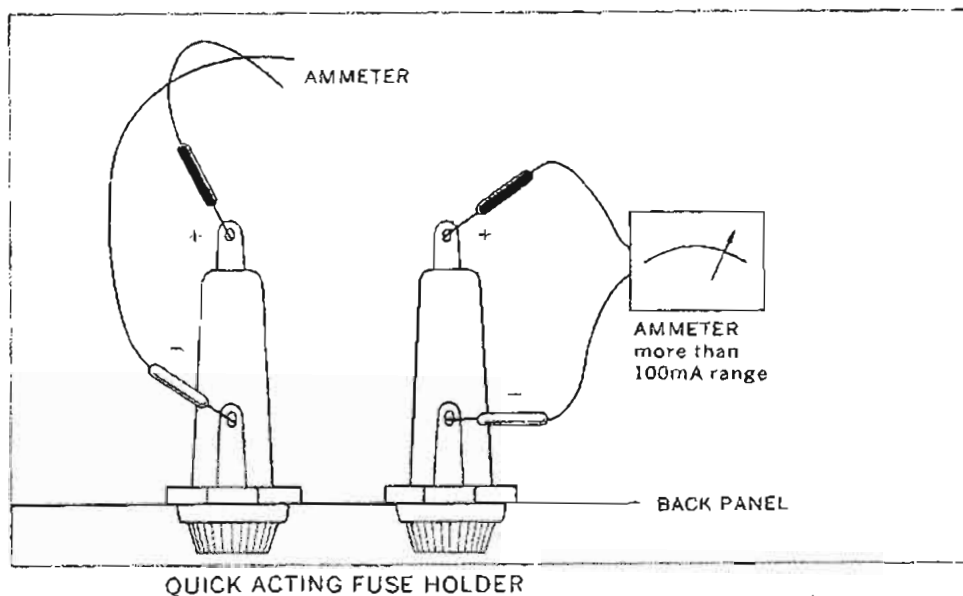
TO ADJUST THE PROTECTOR CIRCUIT (F-1041)

1. Remove wiring from T_{901} and T_{902} .
2. Send a 6-volt RMS signal (1 kHz) to T_{901} and adjust VR_{901} to make the protector lamp glow.
3. Send a 6-volt RMS signal (1 kHz) to T_{902} and adjust VR_{902} to make the protector lamp glow.
4. Attach wiring to T_{901} and T_{902} in its original place.



TO ADJUST THE BIAS CURRENT IN THE OUTPUT STAGE

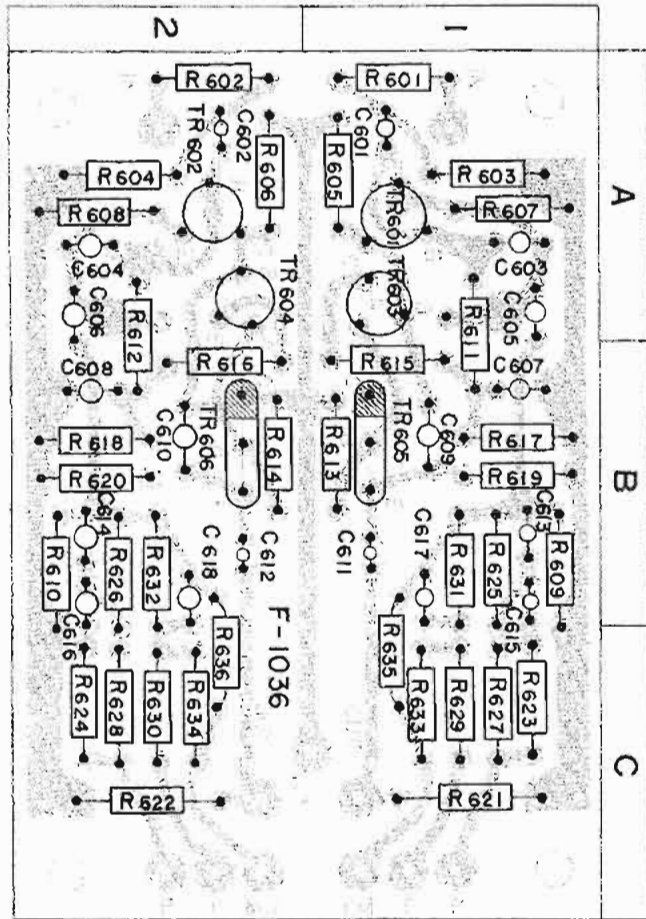
1. Set the MAIN VOL. control to the MINIMUM position.
2. Connect a resistor (approx. 10 ohms and 1 watt) to each of the SPEAKER output terminals.
3. Remove quick-acting fuse from its holder.
4. Connect an ammeter (about 100 milliamperes) to CHANNEL R as illustrated.
5. Adjust the VR_{902} on F-1040 sheet so that the ammeter indicates 23 milliamperes.
6. Remove the ammeter and secure the fuse in place.
7. Adjust CHANNEL L as above.



PRINTED CIRCUIT SHEETS AND PARTS LIST

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

F-1036 < EQUALIZER AMP. >

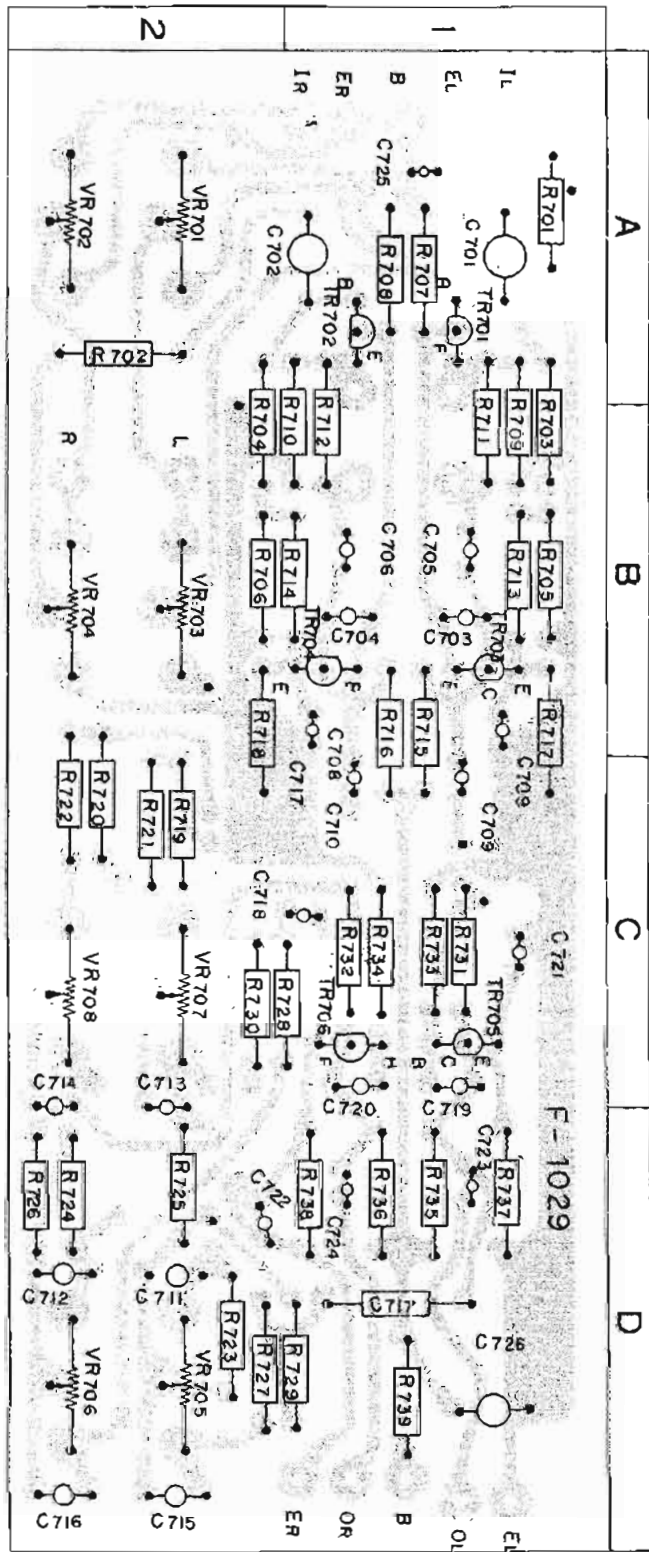


X	Y	Z
R605	220kΩ 1/4W ±10% PREC. Fixed	1A
R606	220kΩ 1/4W ±10% PREC. Fixed	1A
R607	1kΩ 1/4W ±10% PREC. Fixed	1A
R608	1kΩ 1/4W ±10% PREC. Fixed	1A
R609	470Ω 1/4W ±10% PREC. Fixed	1B
R610	470Ω 1/4W ±10% PREC. Fixed	1B
R611	270kΩ 1/4W ±10% PREC. Fixed	1A, B
R612	270kΩ 1/4W ±10% PREC. Fixed	1A, B
R613	33kΩ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

X	Y	Z
R601	1kΩ 1/4W ±10% PREC. Fixed	1A
R602	1kΩ 1/4W ±10% PREC. Fixed	1A
R603	680kΩ 1/4W ±10% PREC. Fixed	1A
R604	680kΩ 1/4W ±10% PREC. Fixed	1A

PRINTED CIRCUIT SHEETS AND PARTS LIST

F-1029 <TONE CONTROL>

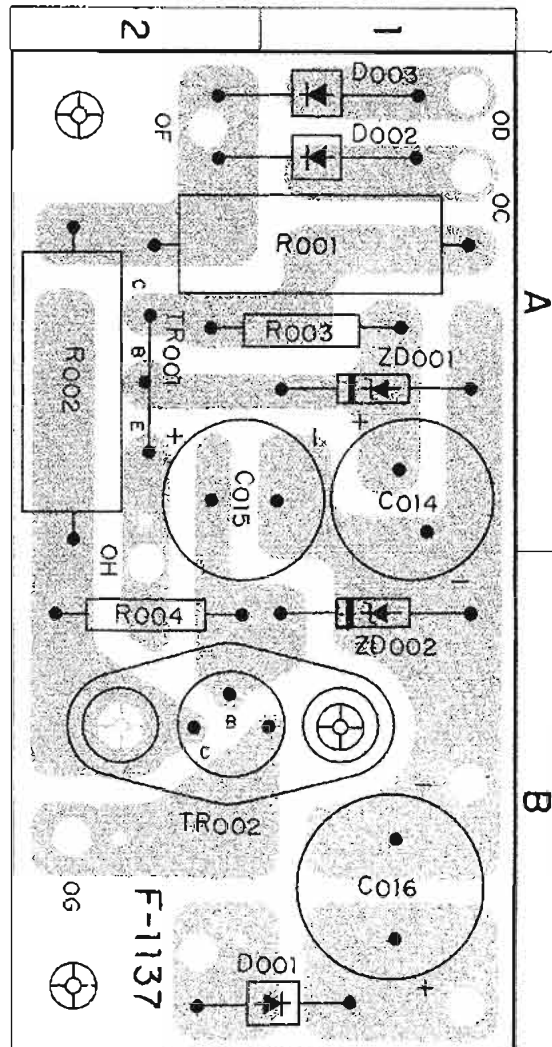


X	Y				Z
R701	1k Ω	1/4W	$\pm 10\%$	PREC. Fixed	2A
R702	1k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1A
R703	47k Ω	1/4W	$\pm 10\%$	PREC. Fixed	2A, B
R704	47k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1A, B
R705	68k Ω	1/4W	$\pm 10\%$	PREC. Fixed	2B
R706	68k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1B
R707	100k Ω	1/4W	$\pm 10\%$	PREC. Fixed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

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

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

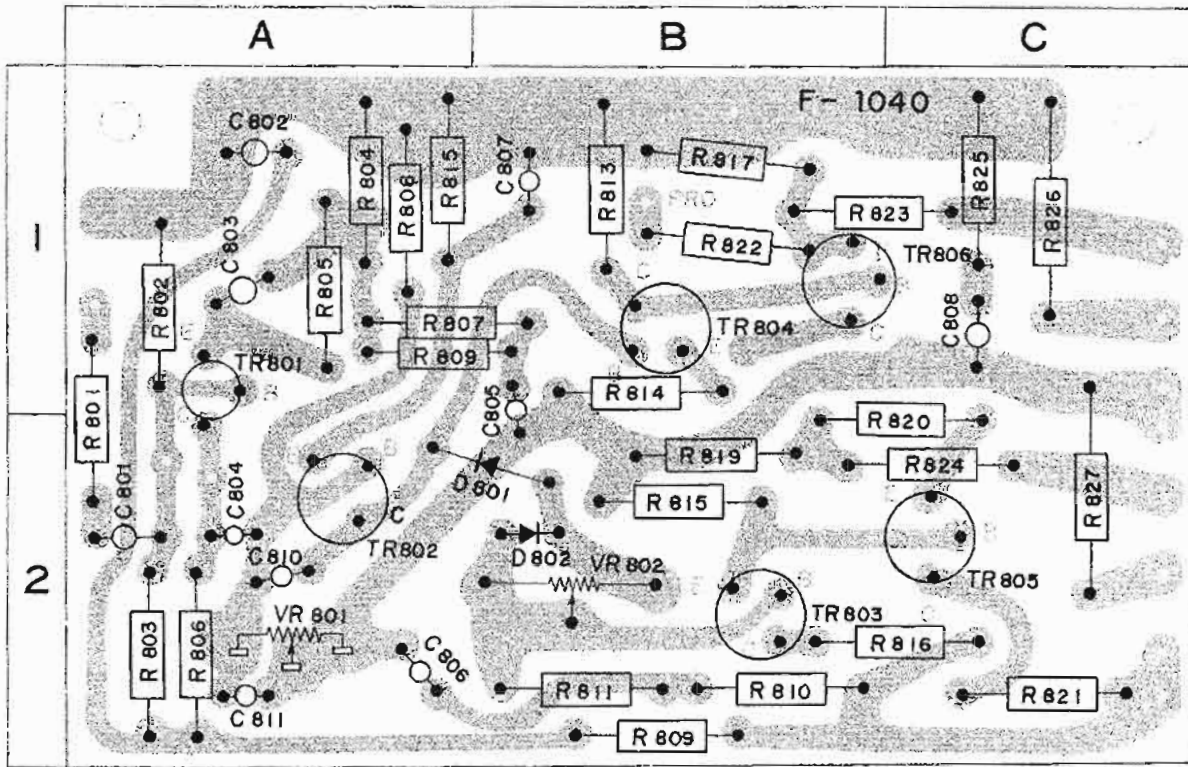
F-1137 RIPPLE FILTER



X	Y	Z
R001	68 Ω 3W \pm 10% WW Fixed	
R002	180 Ω 3W \pm 10% WW Fixed	
R003	3.9k Ω 1/2W \pm 10% WW Solid Fixed	
R004	1.5k Ω 1/2W \pm 10% WW Solid Fixed	
C014	100 μ F 50 VDCW. ELECT.	
C015	330 μ F 16 VDCW. ELECT.	
C016	1000 μ F 10 VDCW. ELECT.	
TR001	2SD72 TR 030812-1	
TR002	2SD223 TR 030823-0-2	
D001	SW-05-02 D 031017	
D002	SW-05-02 D 031017	
D003	SW-05-02 D 031017	
ZD001	Z81-27 031074	
ZD002	Z81-13 031073	

PRINTED CIRCUIT SHEETS AND PARTS LIST

F-1040 < DRIVER AMP. >

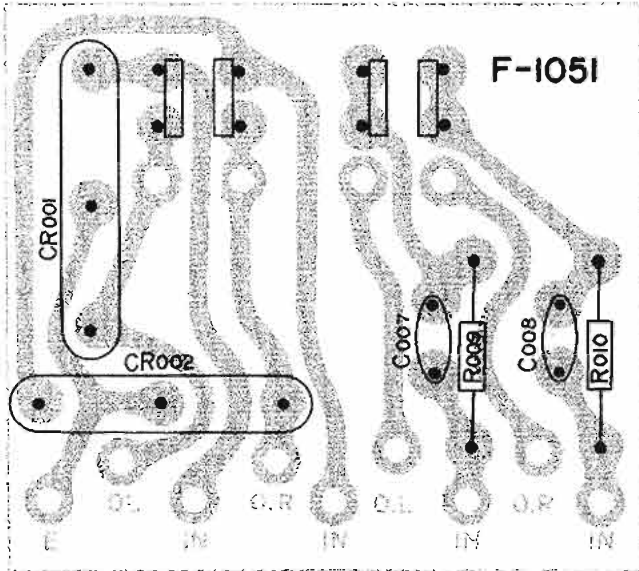


X	Y	Z
R801	2.2kΩ ¼W ±10% COMP. Fixed	1, 2 A
R802	220kΩ ¼W ±10% COMP. Fixed	1 A
R803	560kΩ ¼W ±10% COMP. Fixed	2 A
R804	220Ω ¼W ±10% COMP. Fixed	1 A
R805	2.2kΩ ¼W ±10% COMP. Fixed	1 A
R806	2.7kΩ ¼W ±10% COMP. Fixed	2 A
R807	6.8kΩ ¼W ±10% COMP. Fixed	1 A, B
R808	10kΩ ¼W ±10% COMP. Fixed	1 A
R809	47kΩ ¼W ±10% COMP. Fixed	1 A, B
R810	1kΩ ¼W ±10% COMP. Fixed	
R811	3.3kΩ ¼W ±10% COMP. Fixed	
R812	220Ω ¼W ±10% COMP. Fixed	
R813	120Ω ¼W ±10% COMP. Fixed	1 B
R814	120Ω ¼W ±10% COMP. Fixed	1 B
R815	120Ω ¼W ±10% COMP. Fixed	1 A
R816	33Ω ¼W ±10% COMP. Fixed	
R817	100Ω ¼W ±10% COMP. Fixed	
R818	3.3kΩ ¼W ±10% COMP. Fixed	
R819	100Ω ¼W ±10% COMP. Fixed	
R820	4.7kΩ ¼W ±10% COMP. Fixed	
R821	3.3kΩ ¼W ±10% COMP. Fixed	
R822	1kΩ ¼W ±10% COMP. Fixed	1 B
R823	3.3kΩ ¼W ±10% COMP. Fixed	1 B, C
R824	3.3kΩ ¼W ±10% COMP. Fixed	
R825	22Ω ¼W ±10% COMP. Fixed	

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

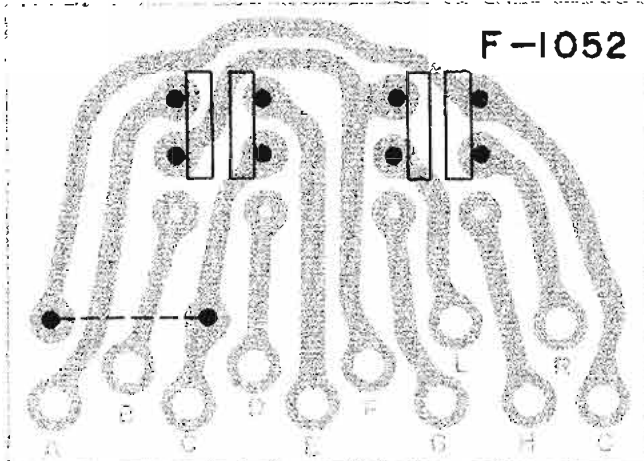
X : Parts No.
 Y : Parts Name
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F-1051 < HIGH-LOW FILTER >

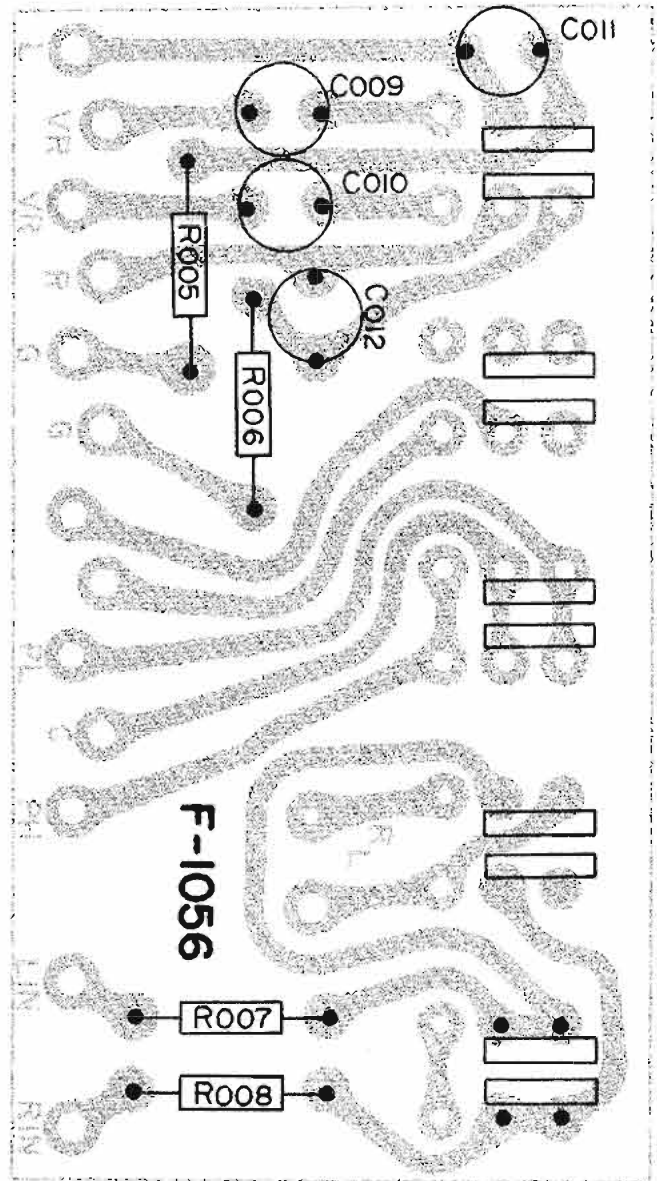


X	Y	Z
R009	470kΩ ¼W ±10% PREC. Fixed	
R010	470kΩ ¼W ±10% PREC. Fixed	
C007	0.0068μF 50 VDCW. My.	
C008	0.0068μF 50 VDCW. My.	
CR001	Low Filter CER.	
CR002	Low Filter CER.	

< TAPE MONITOR SW >



F-1056 < ACCESSORY CIRCUIT >



X	Y	Z
R005	33kΩ ¼W ±10% PREC. Fixed	
R006	33kΩ ¼W ±10% PREC. Fixed	
R007	8.2kΩ ¼W ±10% PREC. Fixed	
R008	8.2kΩ ¼W ±10% PREC. Fixed	
C009	0.022μF 50 VDCW. My.	
C010	0.022μF 50 VDCW. My.	
C011	150pF 50 VDCW. Mc.	
C012	150pF 50 VDCW. Mc.	

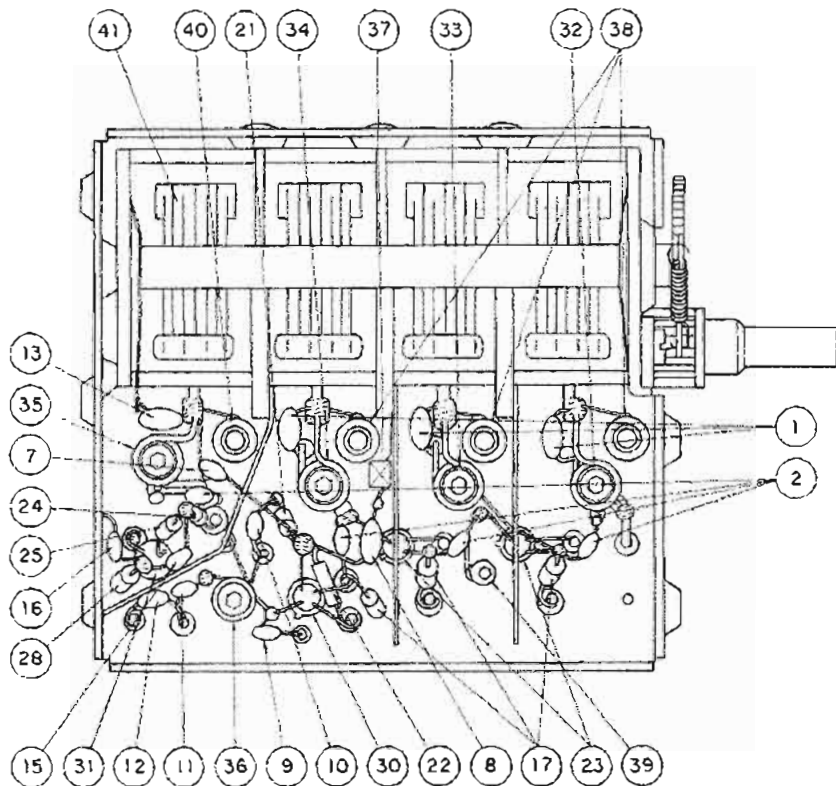
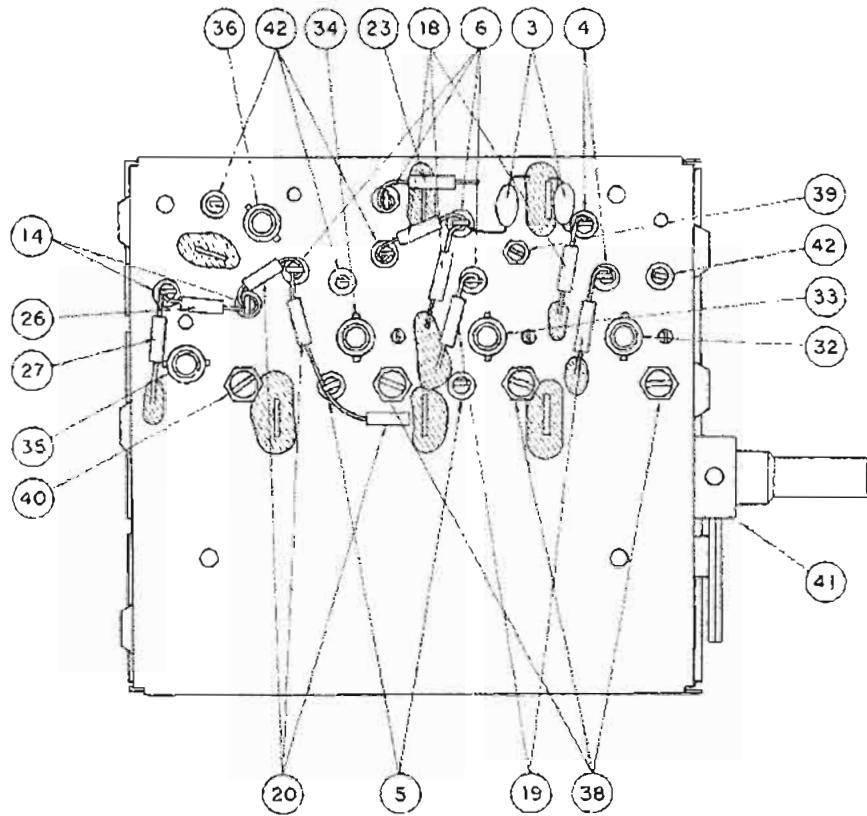
PRINTED CIRCUIT SHEETS AND PARTS LIST

F-1085

X	Y	Z
C101	15 pF ± 5% NPO 50 VDCW. CER.	①
C102	1000 pF +100% NPO 50 VDCW. CER.	②
C103	1000 pF +100% NPO 50 VDCW. CER.	④
C104	0.02 μF +100% NPO 50 VDCW. CER.	③
C105	1000 pF +100% NPO 50 VDCW. CER.	④
C106	2000 pF +100% NPO 50 VDCW. CER.	⑤
C107	1000 pF +100% NPO 50 VDCW. CER.	②
C108	15 pF ± 5% NPO 50 VDCW. CER.	①
C109	1000 pF +100% NPO 50 VDCW. CER.	⑥
C110	0.02 μF +100% NPO 50 VDCW. CER.	②
C111	1000 pF +100% NPO 50 VDCW. CER.	⑥
C112	2000 pF +100% NPO 50 VDCW. CER.	⑤
C113	1000 pF +100% NPO 50 VDCW. CER.	②
C114	15 pF ± 5% NPO 50 VDCW. CER.	①
C115	1 pF ± 5% 50 VDCW GIMMICK.	⑦
C116	470 pF ± 20% 50 VDCW. CER.	⑧
C117	1000 pF +100% 50 VDCW. CER.	⑥
C118	120 pF ± 10% 50 VDCW. CER.	⑨
C119	0.02 μF +100% 50 VDCW. CER.	⑩
C120	180 pF ± 10% 50 VDCW. CER.	⑪
C121	330 pF ± 10% 50 VDCW. CER.	⑫
C122	1000 pF +100% 50 VDCW. CER.	⑥
C123	17 pF ± 10% N80 50 VDCW. CER.	⑬
C124	1000 pF +100% 50 VDCW. CER.	②
C125	100 pF +100% 50 VDCW. CER.	⑭
C126	8.2 pF ± 5% NPO 50 VDCW. CER.	⑮
C127	100 pF +100% 50 VDCW. CER.	⑭
C128	22 pF ± 5% NPO 50 VDCW. CER.	⑯
R101	220 kΩ ± 10% 1/4 W SOLID.	⑰
R102	470 kΩ ± 10% 1/4 W SOLID.	⑱
R103	100 Ω ± 10% 1/4 W SOLID.	⑲
R104	220 kΩ ± 10% 1/4 W SOLID.	⑲
R105	470 kΩ ± 10% 1/4 W SOLID.	⑲
R106	100 Ω ± 10% 1/4 W SOLID.	⑲
R107	120 Ω ± 10% 1/4 W SOLID.	⑲
R108	470 kΩ ± 10% 1/4 W SOLID.	⑲
R109	220 kΩ ± 10% 1/4 W SOLID.	⑲
R110	100 kΩ ± 10% 1/4 W SOLID.	⑲
R111	100 kΩ ± 10% 1/4 W SOLID.	⑲
R112	75 kΩ ± 10% 1/4 W SOLID.	⑲
R113	270 Ω ± 10% 1/4 W SOLID.	⑲
R114	120 Ω ± 10% 1/4 W SOLID.	⑲
R115	3.9 kΩ ± 10% 1/4 W SOLID.	⑲
R116	120 Ω ± 10% 1/4 W SOLID.	⑲
R117	6.8 kΩ ± 5% 1/4 W SOLID.	⑲
R118	2.2 kΩ ± 5% 1/4 W SOLID.	⑲
R119	1.5 kΩ ± 10% 1/4 W SOLID.	⑲
FET101	40468 MOS FET (037001)	⑳
FET102	40468 MOS FET (037001)	㉑

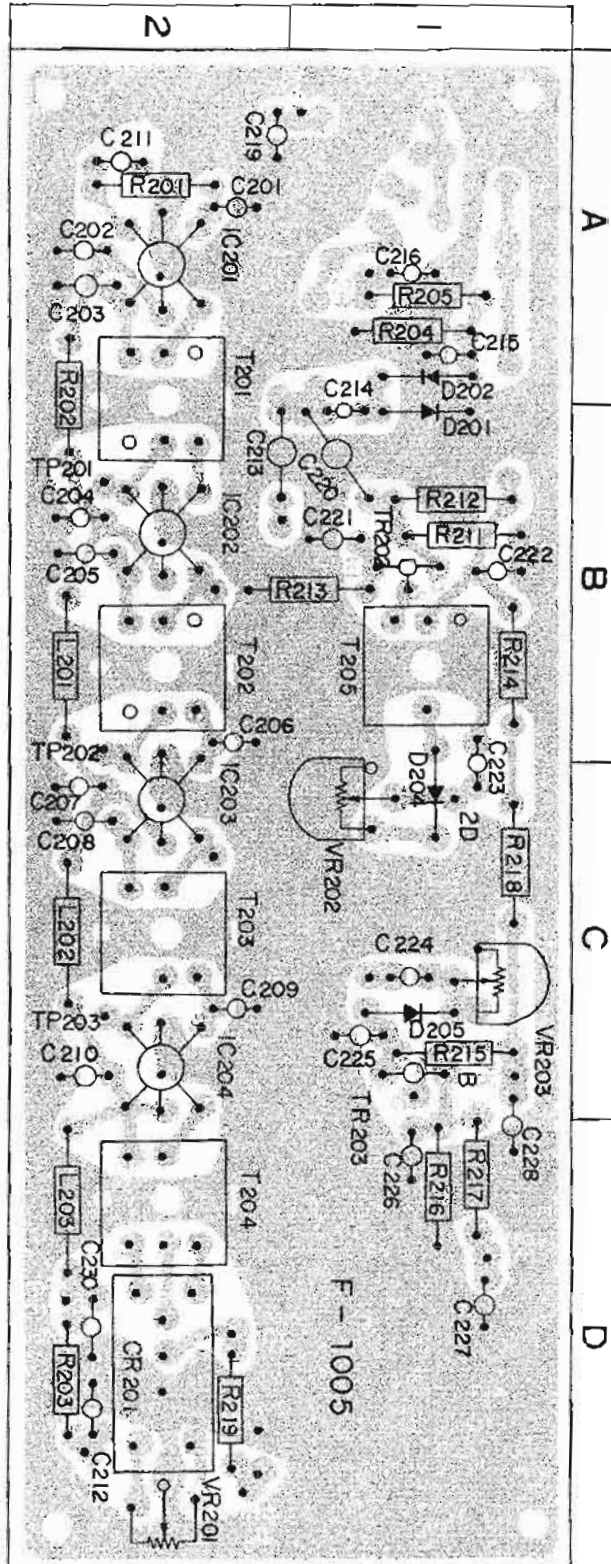
X	Y	Z
FET103	40604 MOS FET (037002)	㉒
TR101	SE 3001 (030541)	㉓
L101	FM ANT COIL	㉔
L102	FM INTERSTAGE COIL	㉕
L103	FM INTERSTAGE COIL	㉖
L104	FM OSC COIL	㉗
L105	FM IF TRANSF	㉘
L106	RF CHOKE COIL	
TC101	2~6 pF TRIM (123004)	㉙
TC102	2~6 pF TRIM (123004)	㉚
TC103	0.5~3 pF TRIM (123002)	㉛
TC104	2~6 pF TRIM (123004)	㉜
TC105	2~5 pF TRIM (123003)	㉝
VC101~104	4 SEC GANG	㉞

X: Parts No.
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PRINTED CIRCUIT SHEETS AND PARTS LIST

F-1005 <FM IF>

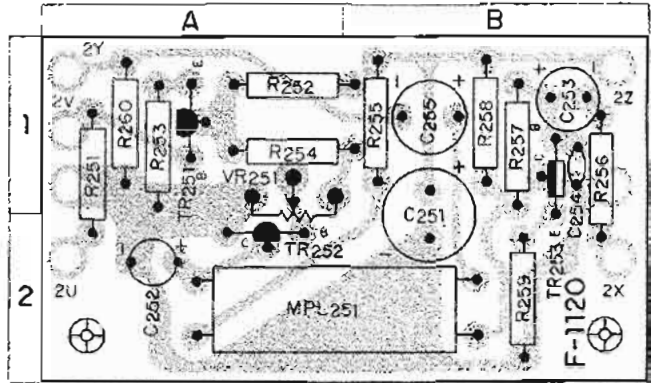


X	Y				Z
R201	1.2k Ω	1/4W	$\pm 10\%$	PREC. Fixed	2A
R202	22 Ω	1/4W	$\pm 10\%$	PREC. Fixed	2A, B
R203	56 Ω	1/4W	$\pm 10\%$	PREC. Fixed	2D
R204	100k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1A
R205	47k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1A
R211	10k Ω	1/4W	$\pm 10\%$	PREC. Fixed	1B
R212	22k Ω	1/4W	$\pm 10\%$	PREC. Fixed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

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

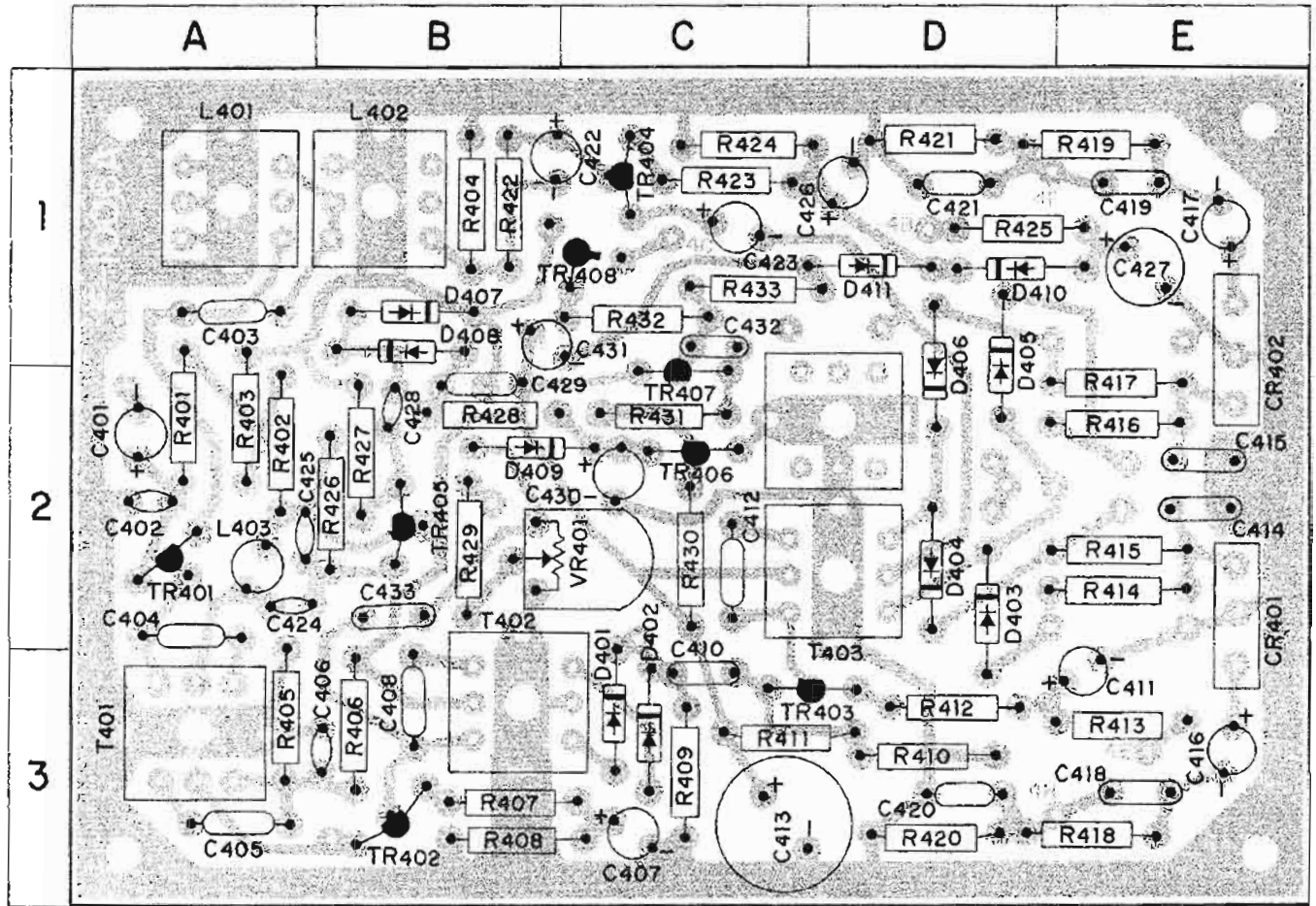
F-1120 ◁ MUTING ▷



X	Y	Z
R251	2.2 kΩ ¼W ±10% Carbon Fixed	1 A
R252	4.7 kΩ ¼W ±10% Carbon Fixed	1 A
R253	680Ω ¼W ±10% Carbon Fixed	1 A
R254	5.6 kΩ ¼W ±10% Carbon Fixed	1 A
R255	270Ω ¼W ±10% Carbon Fixed	1 B
R256	1 kΩ ¼W ±10% Carbon Fixed	1 B
R257	220 kΩ ¼W ±10% Carbon Fixed	1 B
R258	4.7 kΩ ¼W ±10% Carbon Fixed	1 B
R259	1 kΩ ¼W ±10% Carbon Fixed	2 B
R260	4.7Ω ¼W ±10% Carbon Fixed	1 A
C251	47 μF 16 VDCW. ELECT.	2 B
C252	1 μF 50 VDCW. ELECT.	1 A
C253	3.3 μF 25 VDCW. ELECT.	1 B
C254	100 μF ±20% 50 VDCW. CER.	1 B
C255	10 μF 25 VDCW. ELECT.	1 B
MPL251	Cds	2 B
TR251	2SC828T TR (030527)	1 A
TR252	2SC828T TR (030527)	2 A
TR253	2SC458LB TR (030511-1)	2 B
VR251	5 kΩ(B) Semi-Variable (103037)	1 A

PRINTED CIRCUIT SHEETS AND PARTS LIST

F-1006A ◀ MULTIPLEX ▶



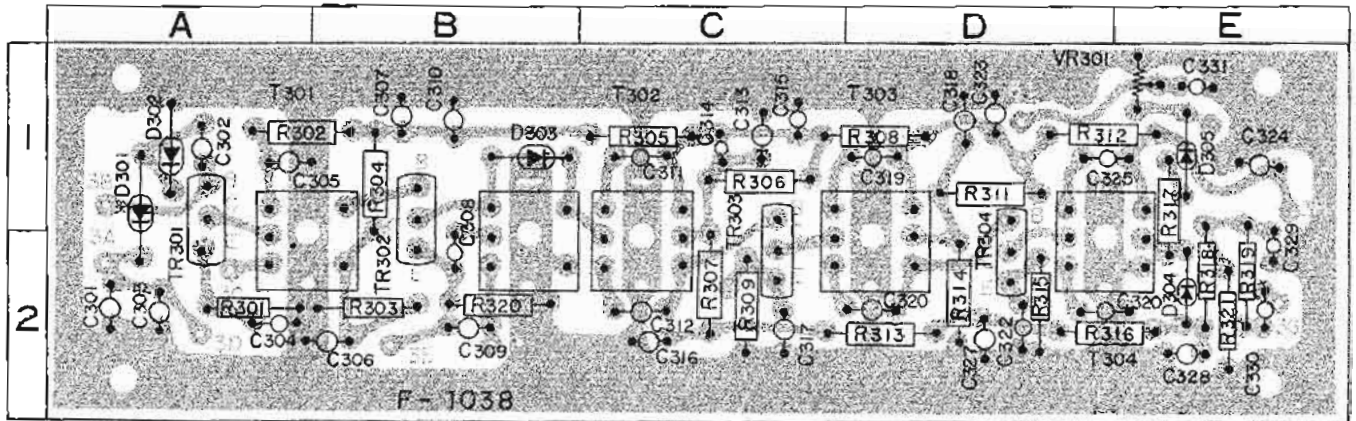
X: Parts No.
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X	Y	Z
R401	47kΩ 1/4W ±10% PREC. Fixed	2A
R402	120kΩ 1/4W ±10% PREC. Fixed	2A
R403	100kΩ 1/4W ±10% PREC. Fixed	2A
R404	2.2kΩ 1/4W ±10% PREC. Fixed	1B
R405	27kΩ 1/4W ±10% PREC. Fixed	3A
R406	330kΩ 1/4W ±10% PREC. Fixed	3B
R407	330Ω 1/4W ±10% PREC. Fixed	3B
R408	1.2kΩ 1/4W ±10% PREC. Fixed	3B
R409	10kΩ 1/4W ±10% PREC. Fixed	3C
R410	27kΩ 1/4W ±10% PREC. Fixed	3D
R411	270kΩ 1/4W ±10% PREC. Fixed	3C, D
R412	680Ω 1/4W ±10% PREC. Fixed	3D
R413	1.2kΩ 1/4W ±10% PREC. Fixed	3E
R414	22kΩ 1/4W ±10% PREC. Fixed	2E
R415	22kΩ 1/4W ±10% PREC. Fixed	2E
R416	22kΩ 1/4W ±10% PREC. Fixed	2E
R417	22kΩ 1/4W ±10% PREC. Fixed	2E
R418	100kΩ 1/4W ±10% PREC. Fixed	3E
R419	100kΩ 1/4W ±10% PREC. Fixed	1E
R420	47kΩ 1/4W ±10% PREC. Fixed	3D
R421	47kΩ 1/4W ±10% PREC. Fixed	1D
R422	39kΩ 1/4W ±10% PREC. Fixed	1B
R423	22kΩ 1/4W ±10% PREC. Fixed	1C
R424	100kΩ 1/4W ±10% PREC. Fixed	1C
R425	15kΩ 1/4W ±10% PREC. Fixed	1D
R426	820kΩ 1/4W ±10% PREC. Fixed	2B
R427	10kΩ 1/4W ±10% PREC. Fixed	2B
R428	220kΩ 1/4W ±10% PREC. Fixed	2B
R429	180kΩ 1/4W ±10% PREC. Fixed	2B
R430	10kΩ 1/4W ±10% PREC. Fixed	2C
R431	22kΩ 1/4W ±10% PREC. Fixed	2C
R432	5.6kΩ 1/2W ±10% PREC. Fixed	1C
R433	10kΩ 1/2W ±10% PREC. Fixed	1C
R434	150kΩ 1/4W ±10% PREC. Fixed	2C, D
VR401	200KΩ(B) (103035)	2B, C
C401	10μF 25 VDCW. ELECT.	2A
C402	42pF 50 VDCW. CER.	2A
C403	2800pF 50 VDCW. Mc.	1A
C404	6800pF 50 VDCW. Mc.	2A
C405	6800pF 50 VDCW. Mc.	3A
C406	0.05μF 50 VDCW. My.	3A, B
C407	1μF 50 VDCW. ELECT.	3C
C408	6800pF 25 VDCW. Mc.	3B
C410	0.05μF 50 VDCW. My.	3C
C411	1μF 50 VDCW. ELECT.	3E
C412	1700pF 50 VDCW. Mc.	2C
C413	220μF 25 VDCW. ELECT.	3C
C414	220pF 50 VDCW. Mc.	2E
C415	220pF 25 VDCW. Mc.	2E
C416	0.047μF 50 VDCW. ELECT.	3E
C417	0.047μF 50 VDCW. ELECT.	1E
C418	390pF 50 VDCW. Mc.	3E
C419	390pF 50 VDCW. Mc.	1E
C420	1800pF 50 VDCW. Mc.	3D
C421	1800pF 50 VDCW. Mc.	1D

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

PRINTED CIRCUIT SHEETS AND PARTS LIST

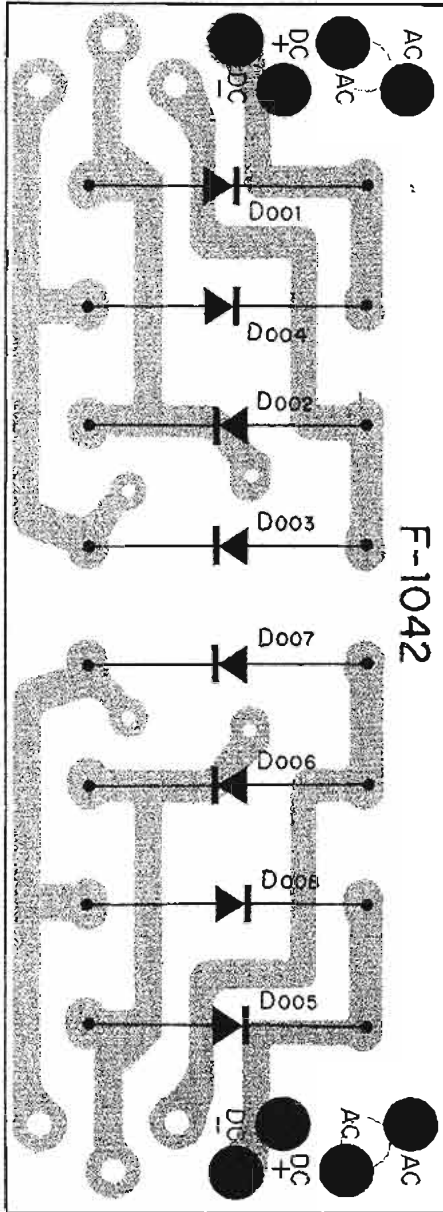
F-1038 <AM IF>



X	Y	Z	X	Y	Z
R301	1kΩ 1/4W ±10% PREC. Fixed	2A	C313	5μF 15 VDCW. ELECT.	1C
R302	100Ω 1/4W ±10% PREC. Fixed	1A, B	C314	0.02μF 50 VDCW. CER.	1C
R303	3.9kΩ 1/4W ±10% PREC. Fixed	2B	C315	0.02μF 50 VDCW. CER.	1C
R304	33kΩ 1/4W ±10% PREC. Fixed	1B	C316	0.04μF 50 VDCW. CER.	2C
R305	100Ω 1/4W ±10% PREC. Fixed	1C	C317	50μF 6 VDCW. ELECT.	2C
R306	68kΩ 1/4W ±10% PREC. Fixed	1C	C318	0.02μF 50 VDCW. CER.	1D
R307	22Ω 1/4W ±10% PREC. Fixed	2C	C319	500 pF 50 VDCW. Mc.	1D
R308	22Ω 1/4W ±10% PREC. Fixed	1D	C320	500 pF 50 VDCW. Mc.	2D
R309	1kΩ 1/4W ±10% PREC. Fixed	2C	C322	0.04μF 50 VDCW. CER.	2D
R311	10kΩ 1/4W ±10% PREC. Fixed	1D	C323	0.02μF 50 VDCW. CER.	1D
R312	22Ω 1/4W ±10% PREC. Fixed	1D, E	C324	200μF 15 VDCW. ELECT.	1E
R313	100Ω 1/4W ±10% PREC. Fixed	2D	C325	500 pF 50 VDCW. Mc.	1D, E
R314	6.8kΩ 1/4W ±10% PREC. Fixed	2D	C326	500 pF 50 VDCW. Mc.	2D, E
R315	470Ω 1/4W ±10% PREC. Fixed	2D	C327	0.02μF 50 VDCW. CER.	2D
R316	8.2kΩ 1/4W ±10% PREC. Fixed	2D, E	C328	0.02μF 50 VDCW. My.	2E
R317	1kΩ 1/4W ±10% PREC. Fixed	1, 2E	C329	0.01μF 50 VDCW. My.	2E
R318	1kΩ 1/4W ±10% PREC. Fixed	2E	C330	0.04μF 50 VDCW. CER.	2E
R319	120kΩ 1/4W ±10% PREC. Fixed	2E	C331	10μF 6 VDCW. ELECT.	1E
R320	1kΩ 1/4W ±10% PREC. Fixed	2B			
R321	47kΩ 1/4W ±10% PREC. Fixed	2E	D301	1N60	1A
VR301	20kΩ (103019)	1E	D302	1N60	1A
C301	0.04μF 50 VDCW. CER.	2A	D303	1N60	1B
C302	0.04μF 50 VDCW. CER.	1A	D304	1N60	2E
C303	100μF 6 VDCW. ELECT.	2A	D308	1N60	1E
C304	0.02μF 50 VDCW. CER.	2A	TR301	2SC460 or 2SC461(C) Si N-P-N	1, 2A
C305	0.04μF 50 VDCW. CER.	1A	TR302	2SC460 Si N-P-N	1, 2B
C306	0.04μF 50 VDCW. CER.	2B	TR303	2SC460 Si N-P-N	1, 2C
C307	100μF 15 VDCW. ELECT.	1B	TR304	2SC460 or 2SC461(C) Si N-P-N	1, 2D
C308	0.01μF 50 VDCW. My.	1B			
C309	430 pF 50 VDCW. Mc.	2B	T301	AMRF (421005)	1, 2A, B
C310	0.02μF 50 VDCW. CER.	1B	T302	AMOSC (422007)	1, 2B
C311	500 pF 50 VDCW. Mc.	1C	T303	AM IFT 455kHz (423019)	1, 2C
C312	500 pF 50 VDCW. Mc.	2C	T304	AM IFT 455kHz (423019)	1, 2C, D
			T305	AM IFT 455kHz (42301B)	1, 2D, E

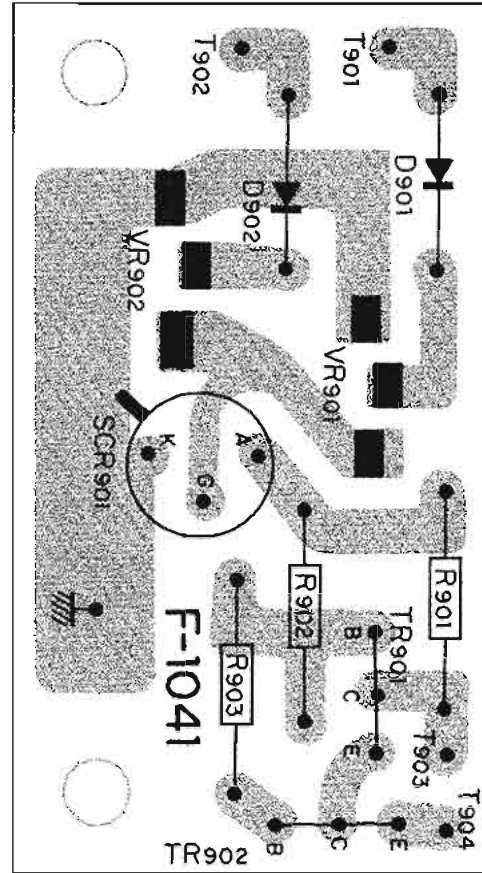
X: Parts No.
 Y: Parts Name
 Z: Co-ordinates in Printed Circuit Sheets

F-1042 <DIODES STACK>



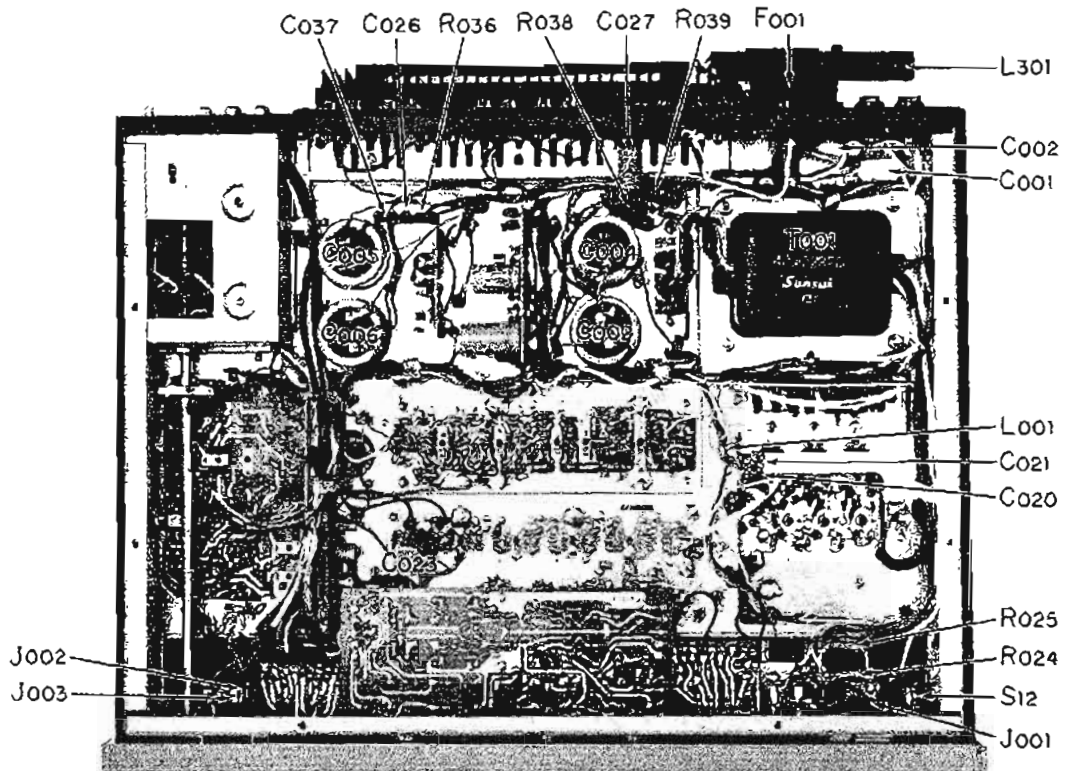
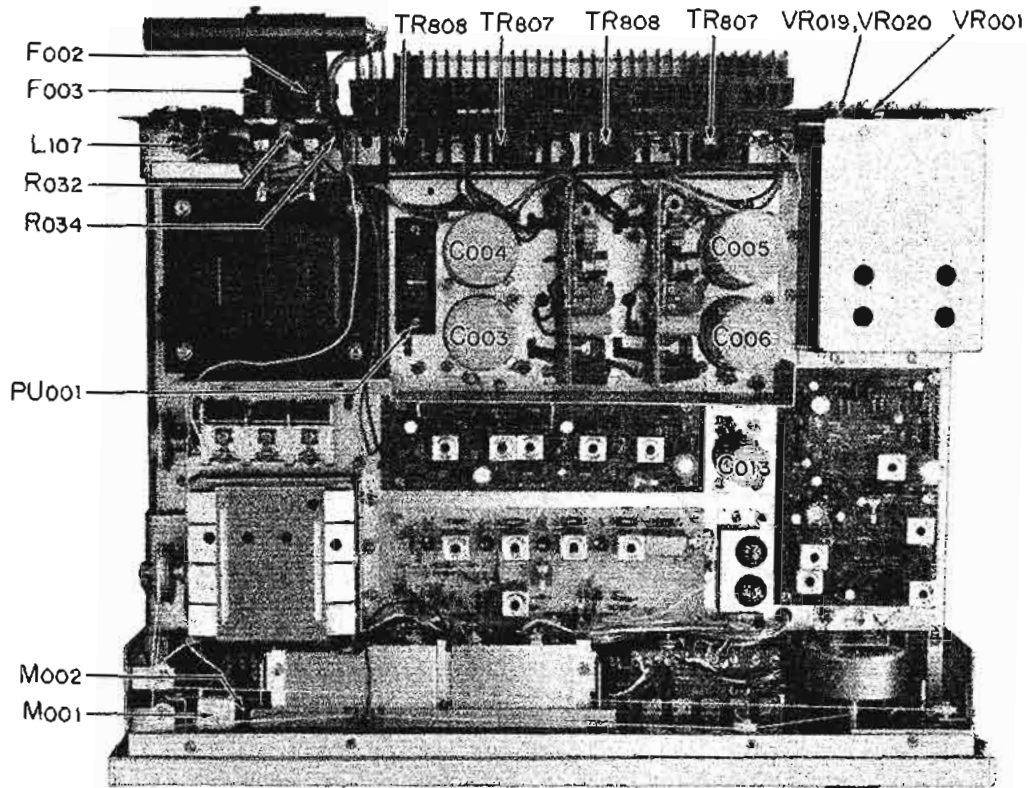
X	Y	Z
D001	SW-1-02 (031055)	
D002	SW-1-02 (031055)	
D003	SW-1-02 (031055)	
D004	SW-1-02 (031055)	
D005	SW-1-02 (031055)	
D006	SW-1-02 (031055)	
D007	SW-1-02 (031055)	
D008	SW-1-02 (031055)	

F-1041 <PROTECTOR>



X	Y	Z
R901	2.2Ω 1/4W ±10% COMP. Fixed	
R902	10Ω 1/4W ±10% COMP. Fixed	
R903	10Ω 1/4W ±10% COMP. Fixed	
VR901	2kΩ (B) Semi-Variable	
VR902	2kΩ (B) Semi-Variable	
D901	1N60 (031033)	
D902	1N60 (031033)	
SCR901	2SF521 (035003)	
TR901	2SC458 L (B) (030542)	
TR902	2SC458 L (B) (030542)	

OTHER PARTS CHART AND PARTS LIST



X: Parts No.
Y: Parts Name

X	Y			
R005	33kΩ	¼W	±10%	PREC. Fixed
R006	33kΩ	¼W	±10%	PREC. Fixed
R007	8.2kΩ	¼W	±10%	PREC. Fixed
R008	8.2kΩ	¼W	±10%	PREC. Fixed
R009	470kΩ	¼W	±10%	PREC. Fixed
R010	470kΩ	¼W	±10%	PREC. Fixed
R011	150kΩ	¼W	±10%	PREC. Fixed
R012	150kΩ	¼W	±10%	PREC. Fixed
R013	12kΩ	¼W	±10%	PREC. Fixed
R014	12kΩ	¼W	±10%	PREC. Fixed
R015	22kΩ	¼W	±10%	PREC. Fixed
R017	22kΩ	¼W	±10%	PREC. Fixed
R018	22kΩ	¼W	±10%	PREC. Fixed
R019	22kΩ	¼W	±10%	PREC. Fixed
R020	22kΩ	¼W	±10%	PREC. Fixed
R022	68kΩ	¼W	±10%	PREC. Fixed
R023	68kΩ	¼W	±10%	PREC. Fixed
R024	680Ω	1W	±10%	Carbon Fixed
R025	680Ω	1W	±10%	Carbon Fixed
R026	18Ω	¼W	±10%	PREC. Fixed
R027	100kΩ	¼W	±10%	PREC. Fixed
R028	100kΩ	¼W	±10%	PREC. Fixed
R029	470kΩ	¼W	±10%	PREC. Fixed
R030	470kΩ	¼W	±10%	PREC. Fixed
R031	680Ω	¼W	±10%	PREC. Fixed
R032	56Ω	¼W	±10%	PREC. Fixed
R033	0.3Ω	5W	±10%	WW
R034	0.3Ω	5W	±10%	WW
R035	1kΩ	¼W	±10%	PREC. Fixed
R036	6.8kΩ	¼W	±10%	PREC. Fixed
R037	6.8kΩ	¼W	±10%	PREC. Fixed
R038	680Ω	3W	±10%	WW
R039	150Ω	½W	±10%	PREC. Fixed
R040	33kΩ	¼W	±10%	PREC. Fixed
R041	33kΩ	¼W	±10%	PREC. Fixed
R042	47Ω	¼W	±10%	PREC. Fixed
C001	0.033μF	±20%	600 VDCW.	Oil
C002	0.0047μF	±20%	600 VDCW.	Oil
C003	2200μF	+100% -0%	80 VDCW.	ELECT.
C004	2200μF	+100% -0%	80 VDCW.	ELECT.
C005	2200μF	+100% -0%	80 VDCW.	ELECT.
C006	2200μF	+100% -0%	80 VDCW.	ELECT.
C007	0.0047μF	±10%	50 VDCW.	My.
C008	0.0047μF	±10%	50 VDCW.	My.
C009	150pF	±10%	50 VDCW.	Mc.
C010	150pF	±10%	50 VDCW.	Mc.
C011	0.02μF	±10%	50 VDCW.	My.
C012	0.02μF	±10%	50 VDCW.	My.
C013	1000μF	+100% -0%	35 VDCW.	ELECT. (020528)
C019	0.002μF	±10%	50 VDCW.	ELECT.
C020	220μF	+100% -0%	16 VDCW.	ELECT.
C021	0.04μF	+100% -0%	50 VDCW.	CER.
C022	470μF	+100% -0%	25 VDCW.	ELECT.
C023	470μF	+100% -0%	15 VDCW.	ELECT.

X	Y		
C024	1μF	+100% -0%	50 WV ELECT.
C025	70pF	+100% -0%	50 WV CER.
C026	70pF	+100% -0%	50 WV CER.
C027	330μF	+100% -0%	16 WV ELECT.
TR007,808	2SD118	Si N-P-N	
TR007,808	2SD118	Si N-P-N	
D004	1N60	Ge Diode	
D005	1N60	Ge Diode	
Z003	ZBI-14		
PL001	25V 90mA	Protector Indicator	(040007)
PL002	8V 150mA	Stereo Indicator Lamp	(340005)
PL003	6.3V 250mA	Power Indicator Lamp	(040009)
PL004	6.3V 250mA	Power Indicator Lamp	(040009)
PL005	6.3V 250mA	Tape Indicator Lamp	(040009)
PL006	6.3V 250mA	Phono Indicator Lamp	(040009)
PL007	6.3V 250mA	Dial Indicator Lamp	(040009)
PL008	6.3V 250mA	Dial Indicator Lamp	(040009)
PL009	6.3V 250mA	Dial Indicator Lamp	(040009)
PL010	6.3V 250mA	Dial Indicator Lamp	(040009)
PL011	6.3V 250mA	Dial Indicator Lamp	(040009)
PL012	6.3V 250mA	Aux Indicator Lamp	(040009)
PL013	5V 60mA	Needle Indicator Lamp	(040010)
CO001	AC Outlet	(245002)	
CO002	AC Outlet	(245002)	
PU001	Line Voltage Controller	(241008, 241009)	
M001	100μA Tune Meter	(090012)	
M002	100μA Signal Meter	(090011)	
L001	AM Ferrite Bar Antenna	240μH (420014)	
T001	Power Transformer	(400025)	
F001	5A Power Fuse	(043006)	
F002	5A Quick Acting Fuse	(043014)	
F003	5A Quick Acting Fuse	(043014)	
S(1~10)	Selector	(110504)	
S1a	Muting		
S2a	FM Stereo Only		
S3(a~b)	Tape Monitor A	} (113007)	
S4(a~b)	Tape Monitor B		
S5(a~b)	Reverse		
S6(a~b)	Mono		
S7(a~b)	Loudness		
S8(a~b)	HIGH filter	} (113007)	
S9(a~b)	Low Filter		
S10	FM Attenuator	(111004)	
S11	Damping Switch	(111009)	
S2a~b	Speaker Selector Switch	(110208)	
S12	Power Switch	(113009)	
J001	Head Phone Jack	(243007)	
J002	Tape Recording Jack B	(243006)	
J003	Tape Monitor Jack B	(243006)	
VR001	5kΩ(B) Separation Adjust	(100501)	
VR019	50kΩ(B) Level Adjust	(101501)	
VR020			