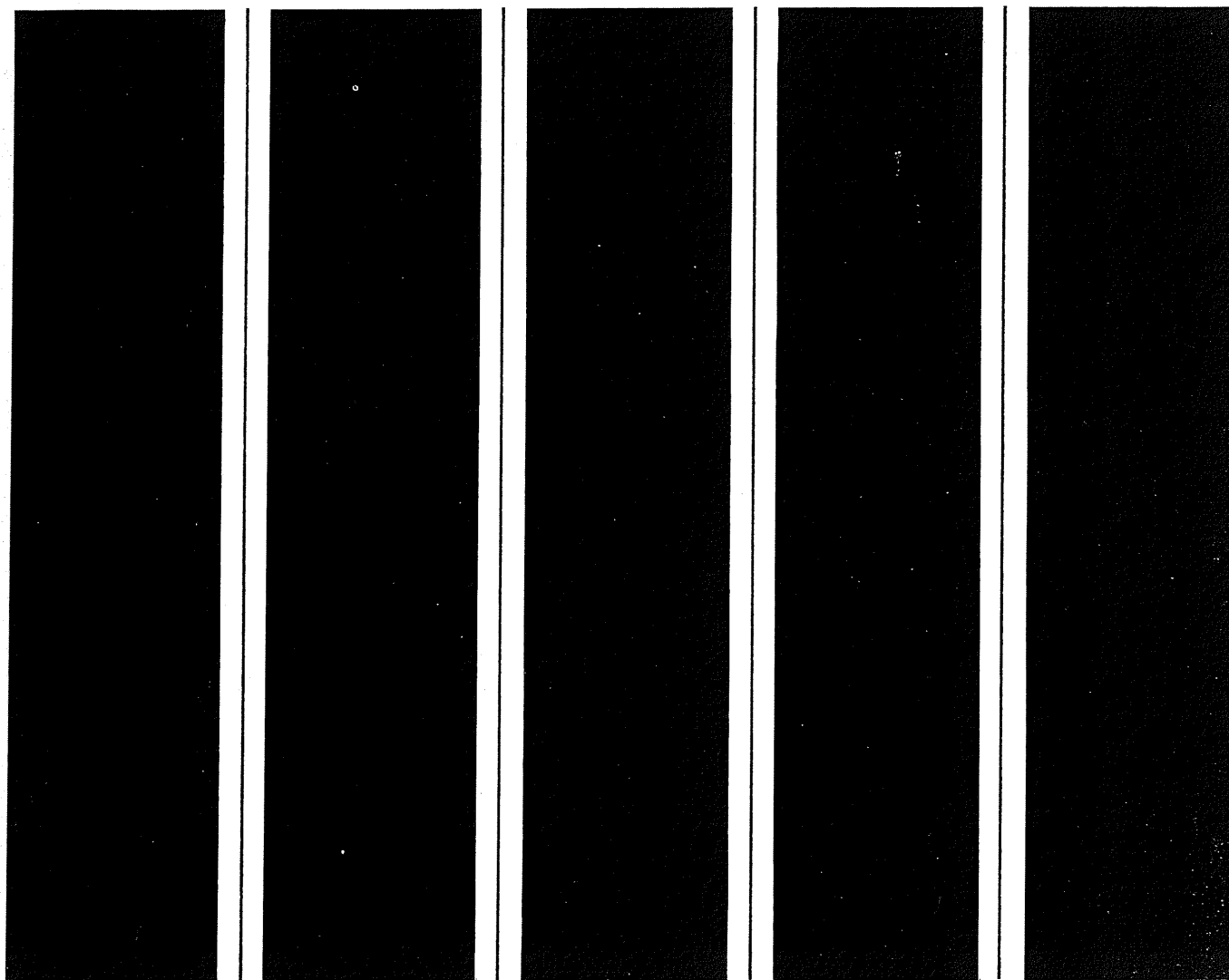


price \$6.00

ENTERED OCT 0 8 1986 **SERVICE MANUAL**
stereo receiver

R 336

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 **SCOTT**[®]
The Name to listen to.

H. H. SCOTT, INC., 20 Commerce Way, Woburn, Mass. 01801, Tel. 617 933-8800

FM TUNER SECTION

Usable Sensitivity	
Mono	10.8 dBf; 1.9 μ V
Stereo	30.3 dBf; 18 μ V
Sensitivity for 50 dB Signal to Noise Ratio	
Mono	16.1 dBf; 3.5 μ V
Stereo	37.2 dBf; 40 mV
Signal to Noise Ratio at 65 dBf	
Mono	68 dB
Stereo	65 dB
Frequency Response	25 to 15,000 Hz +2 dB
Distortion at 65 dBf	
Mono	0.3%
Stereo	0.5%
Capture Ratio	1.5 dB
Alternate Channel Selectivity	55 dB
Image Rejection Ratio	60 dB
Stereo Separation	
100 Hz	36 dB
1,000 Hz	45 dB
10,000 Hz	34 dB
Tuning Range	87.5 to 108 MHz
Spurious Response Rejection Ratio	80 dB
AM Suppression Ratio	50 dB
SCA Rejection Ratio	60 dB
Stereo Threshold (preset)	7 to 15 μ V
Muting Threshold (switchable On-Off)	7 to 15 μ V

AM TUNER SECTION

Tuning Range	535 to 1,605 kHz
Usable Sensitivity	100 μ V/m
Selectivity, Minimum	45 dB
Signal to Noise Ratio	50 dB
Total Harmonic Distortion at 40% Modulation	2%

TEST AND ALIGNMENT PROCEDURES

RECOMMENDED EQUIPMENT

(or equivalent)

1. AC vacuum tube Voltmeter (H.P. 400D)
2. DC millivolt meter (Fluke 8000A)
3. Oscilloscope
4. Volt-Ohm meter (Triplett model 630)
5. Harmonic Distortion meter (H.P. 331A)
6. AM Signal Generator (H.P. 606A)
7. FM Signal Generator (Measurements Corp. model 88)
8. Multiplex Generator (Scott model 830)
9. Audio Oscillator (H.P. 200 CD)
10. Standard AM dummy antenna (200 μ F ceramic or mica capacitor)
11. Standard FM dummy antenna for 300 ohm balanced input
(see circuit, Fig. FM-1)
12. Suitable alignment tools, cables, etc.
13. Two 8 ohm resistive loads, compensated for L & C (min. 50W)
14. Variable power line transformer (GenRad 5A)
15. Suitable line voltage and current monitoring meters

Note: Equipment specifications are minimum.

Set controls to following positions for test procedure. Deviate from these settings as instructed in the test procedures. Return to these settings at the beginning of each new test. All tests are to be made with 117V AC line. Unless otherwise specified, supply input to both channels and read both outputs.

Front Panel

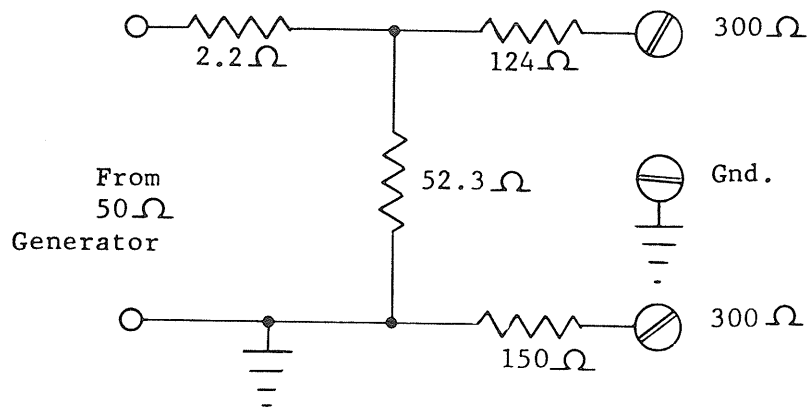
Input Selector	Aux
Tone Controls	Flat (12 O'clock)
Loudness	Minimum (full CCW)
Balance	12 O'clock
Speaker #1	On

Note: When troubleshooting defective power circuits, it is sometimes useful to switch a small line voltage lamp in series with equipment under test before applying power. The lamp will limit the current drawn, thus preventing further damage to circuit components. The variable power line transformer is also useful to determine if additional short circuits exist, if used with a power line current and Volt meter.

Note: When power line voltages other than 120V AC are used for testing, be sure voltage selector in the unit is set to the appropriate position and that equivalent test equipment is used.

Where a standard FM antenna matching network is not available for the particular signal generator in use, a suitable network can be assembled on a small phenolic, or plastic board, using the circuit below.

The completed assembly should use short leads for connection to the receiver antenna terminals. Some generator cables may permit the circuit block to be attached directly to the cable terminals.



Note: All resistors are 1/2 Watt, carbon composition, selected on a DVM, or Wheatstone bridge.

AUDIO TEST PROCEDURE

TEST	INPUT	CONTROL SETTINGS	TEST EQUIPMENT	SCALE SETTINGS	MEASURE AT		READINGS	TOL.
					POSITIVE PROBE	NEGATIVE PROBE		
NPN Output transistor Q807 & Q817	None Unit "OFF"		Triplet 630A	Ohms X 1000	+ Filter Cap	P809 P806	9K	+1K -
NPN Output transistor Q810 & Q820	None Unit "OFF"		Triplet 630A	Ohms X 1000	P809 P806	- Filter Cap	700 ohms	+1K - +200 ohms
B+ Supply	None Unit "ON"	Volume "Minimum" Selector "FM"	Triplet 630A	Volts 60 DC	+ Filter Cap	Chassis	40V	+15% -
B- Supply	None Unit "ON"	Volume "Minimum" Selector "FM"	Triplet 630A	Volts 60 DC	Chassis	- Filter Cap	40V	+15% -
Regulated B+ Voltage	None Unit "ON"	Volume "Minimum" Selector "FM"	Triplet 630A	Volts 60 DC	P901 Regulator/ Supply Board	Chassis	+13V DC	+10% -
Output Offset Voltage	None Unit "ON"	Volume "Minimum" Selector "Aux"	DC Milli-Voltmeter	100 mV	Speaker "A" "L"	Speaker "A" "G"	+100 mV max.	Max.
Bias Check	None Unit "ON"		Triplet 630A	12 mA DC only	"E" of Q807 "E" of Q817	"C" of Q810 "C" of Q820	Adjust potentiometer R809, R834 for 0.2 mA Unit temperature app. 100°F, 40°C	+100% -0

TEST	INPUT	CONTROL SETTINGS	TEST EQUIPMENT	SCALE SETTINGS	MEASURE AT		READINGS	TOL.
					POSITIVE PROBE	NEGATIVE PROBE		
Speaker A Audio Level 8 ohm	1000 Hz Aux	Selector "Aux" Mono Switch "In" Volume "Maximum"	AC VTVM Scope	30V 10V/DIV	Speaker A "L" 8 ohm load high	Speaker A "G" 8 ohm load low	Adjust input signal for output of: 18.3V (no clipping permitted)	+1 dB -0 dB
Tape 1 Inputs Tape 2 Inputs	Tape 1 in 1000 Hz Tape 2 in 1000 Hz	Tape Monitor Switch "Monitor" (Volume Maximum)	AC VTVM	30V	Speaker A "L" 8 ohm load high	Speaker A "G" 8 ohm load low	Same as above	
Tape Monitor Output	Aux	Selector "Aux" Volume "Minimum"	AC VTVM	1V	Tape Out	Ground	Output of 0.15V with input of 0.15V	
Audio Level 8 ohm	Aux 1000 Hz	Selector "Aux" Mono Switch "Mono" Volume "Maximum" Spkr. B On	AC VTVM	30V	Speaker B "L" 8 ohm load high	Speaker B "G" 8 ohm load low	Adjust input signal for output of: 18.3V (no clipping permitted)	
Check Spkr. A & B	Same as above	As above except Spkr. A & B	AC VTVM	30V	Speakers A & B "L" & "R" 8 ohm load high	Speakers A & B "G" 8 ohm load low	Output check only, check at low level	
Frequency Response Power Amp & Tone Control	Aux	Tone Control "Flat" Volume "Maximum" Adjust bal- ance for center	AC VTVM	1V	Speaker A "L" 8 ohm load high	Speaker A "G" 8 ohm load low	Adjust input for 0 dB (.775V) output (3 dB down points should be below 10 Hz and above 30 kHz)	+1 dB

AUDIO TEST PROCEDURE

TEST	INPUT	CONTROL SETTINGS	TEST EQUIPMENT	SCALE SETTINGS	MEASURE AT		READINGS	TOL.
					POSITIVE PROBE	NEGATIVE PROBE		
Frequency Response Phono (RIAA)	Phono 1000 Hz	Selector "Phono" Keep setting listed above	AC VTVM	1V	Speaker A "L" 8 ohm load high	Speaker A "G" 8 ohm load low	Adjust input for 0 dB (.775V) output Note: 100 Hz +12.5 dB 10 kHz -13.0 dB	± 1.5 dB
Tone Control Response	Aux 1000 Hz	Selector "Aux" Mode Switch "Mono" Tone Control "Flat"	AC VTVM	3V	Speaker A "L" 8 ohm load high	Speaker A "G" 8 ohm load low	Adjust input for 0 dB (.775V) output Note: @ 100 Hz Bass boost +10 dB Bass cut -10 dB @ 10 kHz Treble boost +10 dB Treble cut -10 dB	± 1.5 dB ± 1.5 dB
Loudness Compensation	Aux 1000 Hz	Selector "Aux" Tone Control "Flat" Volume "11 O'clock" Loudness Sw. "On"	AC VTVM	3V	Speaker A "L" 8 ohm load high	Speaker A "G" 8 ohm load low	Adjust input for 0 dB. Frequency, to 10 kHz; Note 3 dB increase. Frequency to 100 Hz; Note 7 dB increase	± 1 dB ± 1 dB
Crosstalk	Aux Left Channel 10 kHz	Selector "Aux" Tone Control "Flat" Comp. Sw. "Off" Volume "Maximum" Mode Switch "Stereo"	AC VTVM	3V	Speaker A "L" 8 ohm load high	Speaker A "G" 8 ohm load low	Set output for 0 dB Read right channel output 35 dB down	Min.

AUDIO TEST PROCEDURE

TEST	INPUT	CONTROL SETTINGS	TEST EQUIPMENT	SCALE SETTINGS	MEASURE AT		READINGS	TOL.
					POSITIVE PROBE	NEGATIVE PROBE		
Balance Control	Aux Left Channel 1000 Hz	Selector "Aux" Tone Control "Flat" Comp. Sw. "Off" Volume "Maximum" Mode Switch "Mono" Balance CCW Balance CW	AC VTVM	3V	Speaker A "L" 8 ohm load high	Speaker A "G" 8 ohm load low	Set output for 0 dB Note 45 dB drop in output, right channel.	+2 dB
Harmonic* Distortion	Aux 20 Hz 1000 Hz 20,000 Hz	Selector "Aux" Mode Switch "Mono" Balance "Center" Volume "Maximum"	AC VTVM Harmonic Distortion Analyzer	30V	Speaker A "L" 8 ohm load high	Speaker A "G" 8 ohm load low	Note 45 dB drop in output, left chan. Adjust input for output @ both chan. 18.3V	+2 dB 0.5%
*Note: Power line Voltage 120 VAC $\leq$ 2.0% line THD. When transformer primary is connected for other than 120 Volts, use appropriate supply voltage.								
Damping Factor	Aux 1000 Hz	Selector "Aux" Mode Switch "Mono" Balance "Center" Volume "Maximum"	AC VTVM	3V	Speaker A "L" 8 ohm load high	Speaker A "G" 8 ohm load low	Set output to 2.45V (+10 dB) Remove load and note increase in level Max. 0.5 dB	

AM TEST PROCEDURE

STEP	ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	INPUT SELECTOR SWITCH	DIAL SETTING	TEST INSTRUMENTS	ADJUST	REMARKS
1.	Connect external antenna terminal thru 220 pF dummy antenna	External antenna terminal. Keep signal level low.	455 kHz 60% mod. 400 Hz	AM MW	Approx. 600 kHz (No sta.)	Scope, VTVM @ Tape Output	IF coils T207 T208	Adjust for maximum signal output
2.	Same as above	Same as above	600 kHz	Same	600 kHz	Same	AM MW Osc. T203	Adjust for calibration.
3.	Same as above	Same as above	1400 kHz	Same	1400 kHz	Same	AM MW Osc. Trimmer AM 1 (F.E. Assy.)	Adjust for calibration.
4.	Same as above	Same as above	1400 kHz	Same	1400 kHz	Same	MW RF Trimms AM 2, AM 3 (F.E. Assy.)	Adjust for maximum signal
5.	Same as above	Same as above	600 kHz	Same	600 kHz	Same	MW Antenna slider.	Adjust for maximum signal Slider located under tape on antenna tube.
6.	Repeat steps 2, 3, 4, and 5 for maximum.							
7.	Same as step 1	300 μ V	1400 kHz 60% mod.	AM MW	1400 kHz	VTVM & Distortion Analyzer	Detector T209	Adjust for maximum undistorted output (1% or less). Output should fall between 600 and 800 mV.
8.	Whistle filter alignment: Connect output of audio oscillator to junction of R215 & C225. Set oscillator frequency to 1.0 kHz, adjust audio oscillator output for 1.0 Volt at tape output. Change oscillator frequency to 9.5 kHz and adjust T210 for minimum output.							

TEST PROCEDURE

STEP	ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	INPUT SELECTOR SWITCH	DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	Dummy antenna Figure FM-1	External 300 ohm term. Use low signal level	10.7 MHz 100% mod.	FM	Off Station	VTVM @ Tape Output	Front End IF	Adjust for maximum signal strength meter indication
2.	Same as above	Same as above	90 MHz Modulation. Keep generator output low.	Same	90 MHz	Same	Front End	Adjust for dial calibration
3.	Same as above	Same as above	Same	Same	Same	Same	Front End LA LR ₁ LR ₂	Adjust for maximum audio output. Keep signal level low.
4.	Same as above	No output Same as above	Same	Same	Off Station Use noise only	Same	Detector T102	Use center tune meter. Adjust T102 for center tune.
5.	Same as above	External 300 ohm term. Use low signal level.	90 MHz	FM	90 MHz	VTVM @ Tape Output	T101	Adjust for maximum output and minimum distortion.
6.	Same as above	Same as above	106 MHz Keep generator output low.	Same	106 MHz	Same	TCO	Adjust for dial calibration.
7.	Same as above	Same as above	106 MHz	Same	106 MHz	Same	TCA, TCR ₁ and TCR ₂	Adjust for maximum audio output, keep input level low for noisy signal.
8.	Repeat steps 2, 3, 6, and 7 until no further improvement is noted. Check specification.							

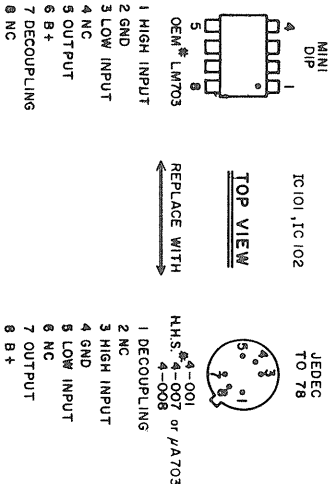
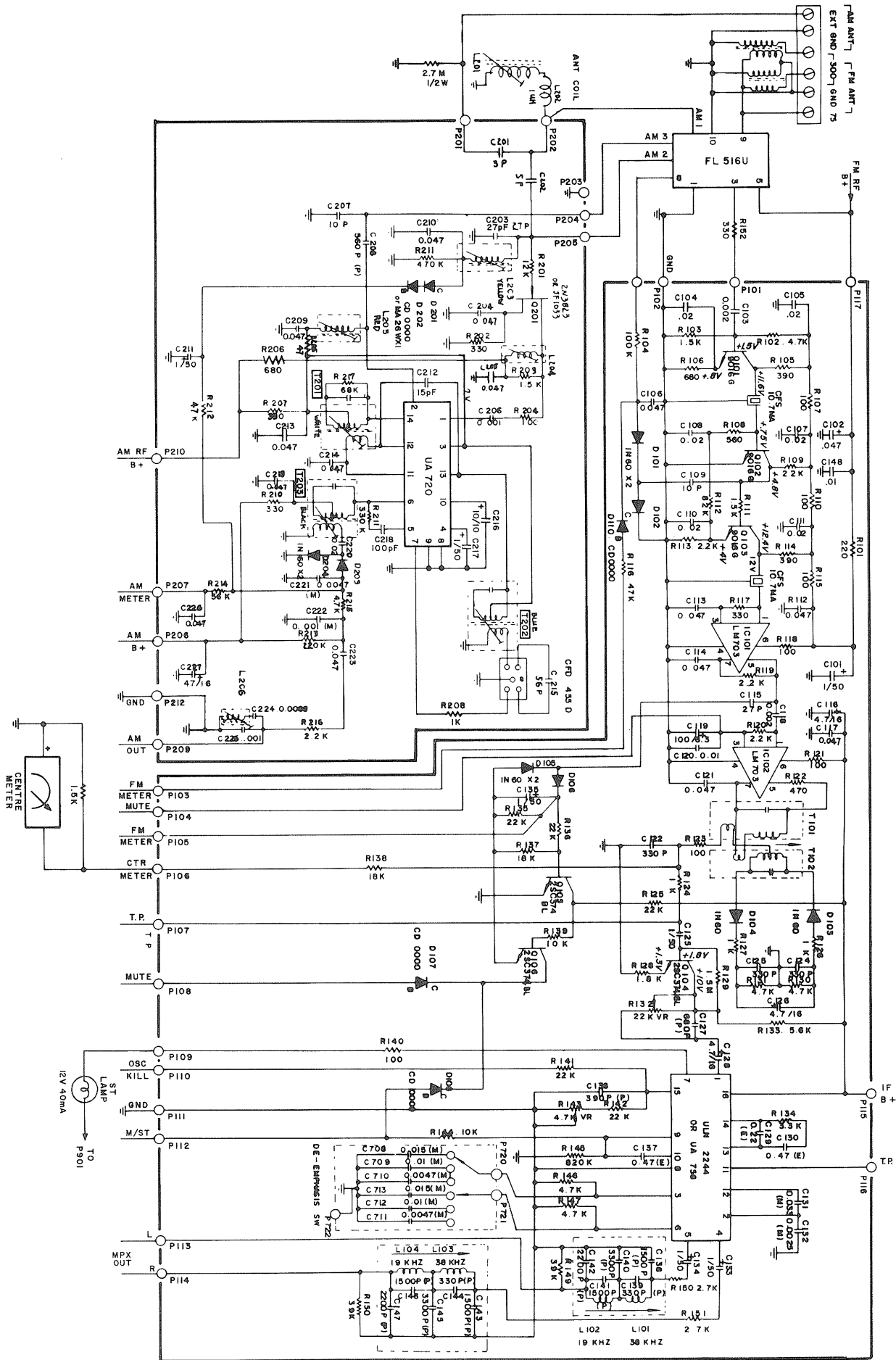
MULTIPLEX
USE 19 kHz OUTPUT OF MX GENERATOR TO TRIGGER OSCILLOSCOPE HORIZONTAL

STEP	ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	INPUT SELECTOR SWITCH	DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	Dummy antenna Figure FM-1	External 300 ohm term.	Use convenient freq.	FM	Tune to Gen.	VTVM @ Tape Output	R143 for stationary waveform	Generator output to zero. Scope vertical to P116. Muting on (19 kHz Osc. adj.)
2.	Same as above	Same as above	Same	FM Stereo	Same	Same		Generator output 1.0 mV Note waveform is synchronized.
3.	Same as above	Same as above	Same	Same	Same	Same	R132	Adjust for maximum separation.
4.	Note: Multiplex filter coils L101, L102, L103 and L104 are pre-aligned. Do not adjust unless circuit component is replaced. If necessary, adjust for null at specified frequency.							

DEEMPHASIS: With output level reference at 400 Hz, switch modulation frequency to 10 kHz.

Output level as follows: ± 1 dB
75 μ S — 13.7 dB
50 μ S — 9.5 dB
25 μ S — 4.5 dB

SCHEMATIC DIAGRAM
TUNER SECTION



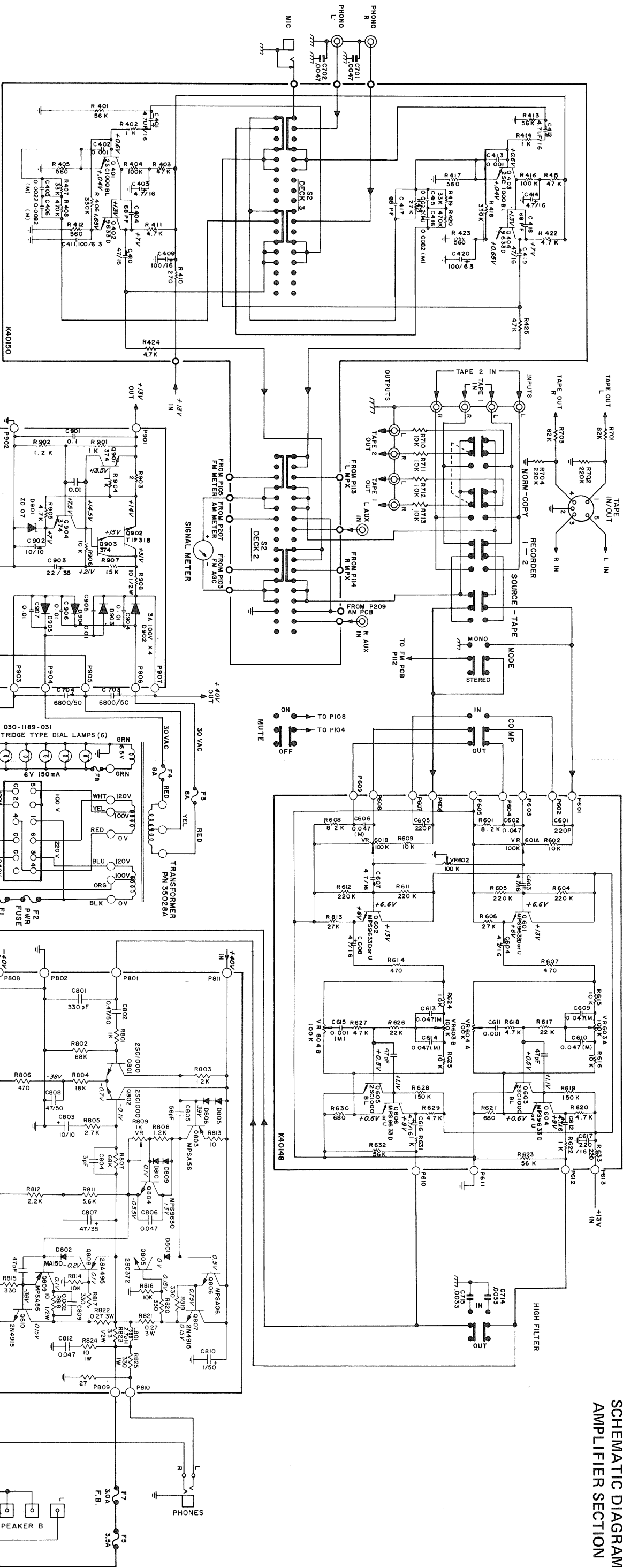
TUNER SECTION SEMICONDUCTOR LIST

Q101, Q102, Q103	CS 9016G or SE 1001
Q104, Q105	2SC 374 or CS 9014C
Q106	2SC 374 or CS 9014C
IC101, IC102	LM 703 or μ A 703
Q201	2N 3823 or JF 1033
AM Integrated Circuit	μ A 720
Multiplex IC	μ A 758 or U1N 2244

DC VOLTAGES AT INTEGRATED CIRCUIT PINS

PIN#	IC101	IC102	μ A 758	μ A 720
1	1.4V	1.4V	3.2V	5V
2	1.4V	1.4V (station)	4.6V	7.3V
3	1.4V	0.9V (mute)	5.2V	7.4V
4	0V	0V	4.5V	5V
5	11.4V	11.4V	4.5V	0.2V
6	13V	13V	5.0V	12V
7	12V	12V	13.7V	0.8V
8			0V	0V
9			1.5V (mono)	0V
10			2.8V (stereo)	0.7V
11			2.8V	1.8V
12			2.7V	0.7V
13			2.8V	12V
14			2.8V	13V
15			2.5V	
16			13.7V	

SCHEMATIC DIAGRAM
AMPLIFIER SECTION

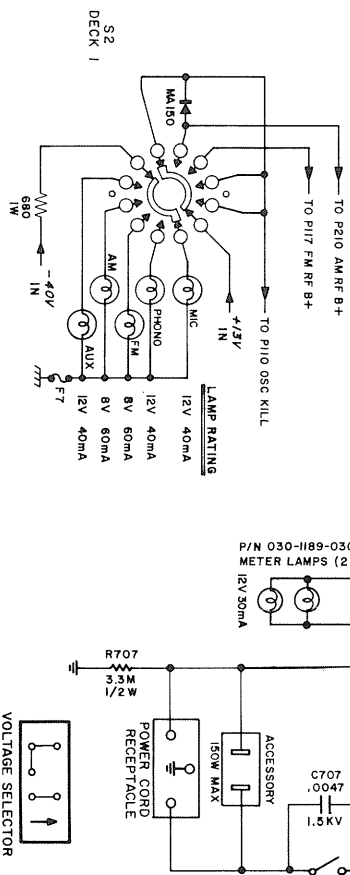


NOTES:

1. Resistance in ohms $\pm 10\%$ 1/4 watt, capacitance in microfarads, unless otherwise specified.
2. Arrowheads indicate main signal path.
3. Unless otherwise specified, all DC voltages $\pm 15\%$ measured with respect to chassis ground, using VTVM, power line 120V AC, 300 ohm external antenna terminal terminated with 300 ohm resistor, tuner off station and input selector in "PM" position. AM voltages measured off station with selector in "AM" position.
4. DC Offset voltage - With no signal read 0 volts at both left and right speaker terminals, ± 25 mV. (for reference when using Triplet 630 or equivalent, 25 mV is 1.25 mA on the 630 12 mA scale).
5. Bias current of output transistors is measured as follows:
Connect D.V.M. across both 2.7 ohm emitter resistors in each channel. Adjust R808 or R834 shown on circuit diagram for 10 mV.
6. FM AGC Voltage (front end AGC terminal) $+10$ to $-2.10V$ with 0 to 100K μV signal fed into 300 ohm external FM antenna.
7. Volume, bass and treble are adjustable but have friction clutch.
8. Rotary switches S-1 and S-2 are shown in maximum counter clockwise position (position 1). Positions are:
 1. MIC
 2. PHONO
 3. PM
 4. AM
 5. AUX

9. Power switch is mechanically ganged to speaker selector switch.
10. Fuses:

Speaker 3.5A Rear Panel
Dial and Function Lamp . . . Suitable lengths of #38 SWG copper wire (0.006 inch 0.15 mm dia.)
Power F-1 100-120V . . . 4A Normal blow type
Power F-2 220-240V . . . 2A Normal blow type
Power F-3, F-4 4A Normal blow type with pigtail leads wired internally.
(may not be used in all production units)
F-3, F-4 8A Normal blow type



AUDIO AMPLIFIER TRANSISTOR LIST	
MODEL NO.	R336
120V 4A F.B.	F-1
4A F.B.	F-2

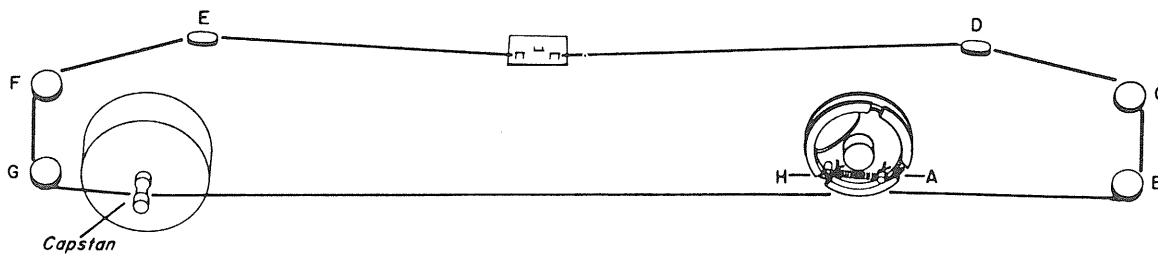
0401, 402, 403, 404	2SC 1000 BL, BC 109 or NPS 9633
0601, 602, 603, 604	NPS 9633 or 2SC 1000
0801, 802, 811, 812	2SC 374, BC 521 or 2SC 1000
0803, 809, 813, 819	2SA 661 or NPS A56
0804, 814	NPS 9630 or 2SC 372
0806, 816	NPS A06 or FCS 1860
0805, 815	NPS 9630 or 2SC 372
0808, 818	NPS 9630 or 2SA 495
0807, 810, 817, 820	2N 4915 or 2SC 793
0901, 903, 904	2SC 374 or BC 521
0902	TIP 31B or 2N 6123

ALL DIODES (except zeners and power rectifiers): MA 150 or 1N 4148.

NOTE: ALTERNATE DEVICES ARE FOR USE IN THIS AMPLIFIER ONLY, THEY ARE NOT NECESSARILY APPLICABLE TO OTHER CIRCUITS.

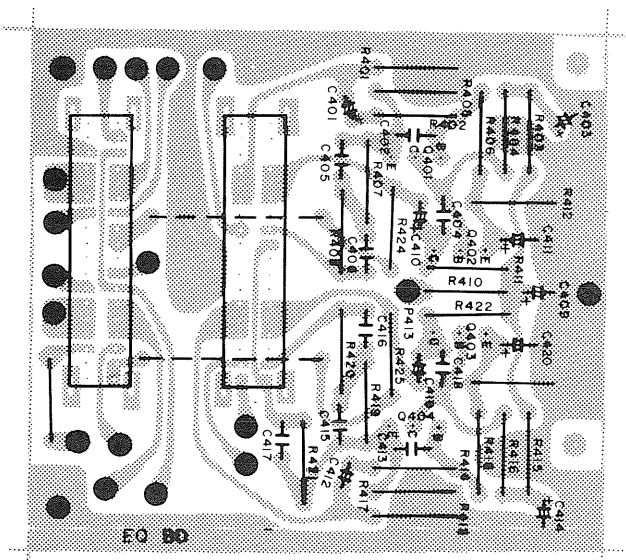
DIAL CORD STRINGING INSTRUCTIONS

1. Set tuning capacitor plates "out" (minimum capacitance).
2. Tie dial cord to pulley boss "A".
3. Wind one turn of dial cord around tuning drum counter-clockwise, as viewed from rear of unit.
4. Continue over pulleys "B", "C", "D", "E", "F" & "G".
5. Wind three turns of dial cord around flywheel capstan counter-clockwise, when viewed from rear of unit.
6. Continue to tuning drum and install $1 \frac{3}{4}$ turns of dial cord around drum, counter-clockwise. Attach cord to tension spring and enter drum opening at point "H" as shown. Attach spring to pulley boss "A".
7. Attach dial cord to pointer assembly, rotate dial knob to fully "mesh" tuning capacitor plates (low frequency end of dial).
8. Position pointer assembly on "O" log.
9. Rotate tuning knob in both directions to check for satisfactory dial drive operation, adjust tension as necessary. Apply suitable cement to dial cord knots and at dial pointer clips.



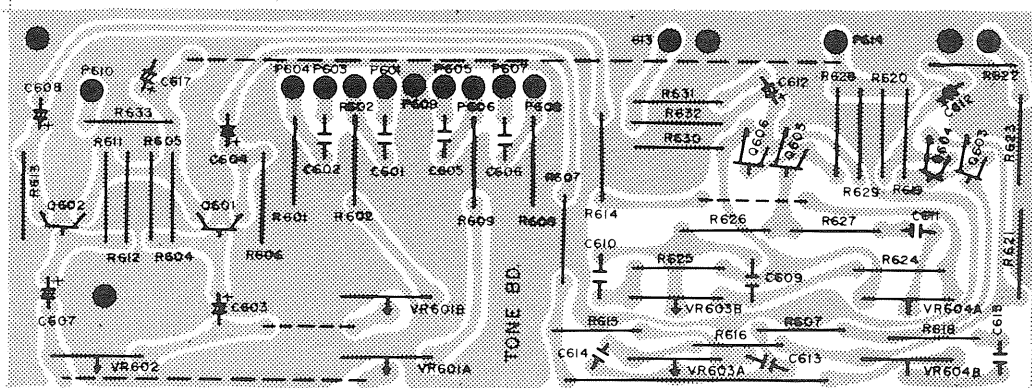
RECEIVER PREAMP BOARD NO. K40150A

ASSY. NO. 100-1333-037



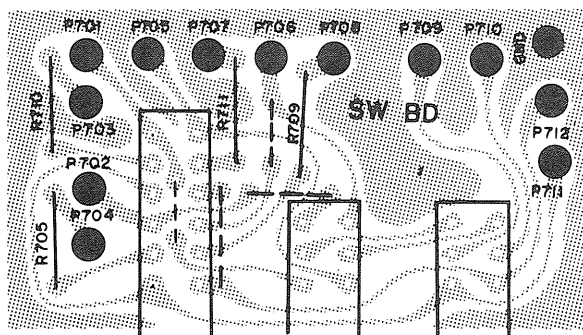
RECEIVER TONE CONTROL BOARD NO. K40148A

ASSY. NO. 100-1334-030



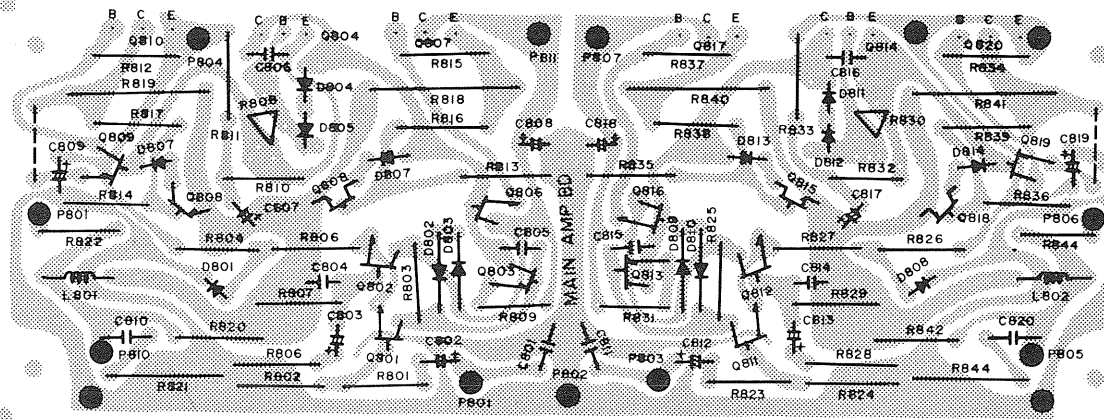
PUSH BUTTON SW BOARD K40161

ASSY. NO. 100-1352-034



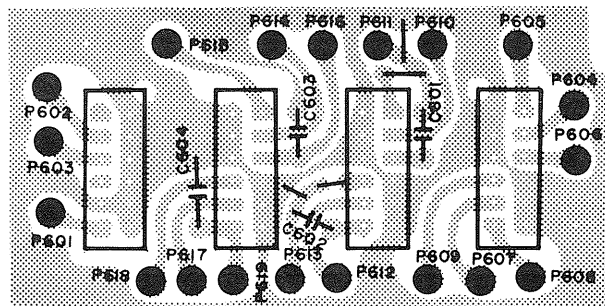
POWER BOARD NO. K40140B

ASSY. NO. 100-1335-018



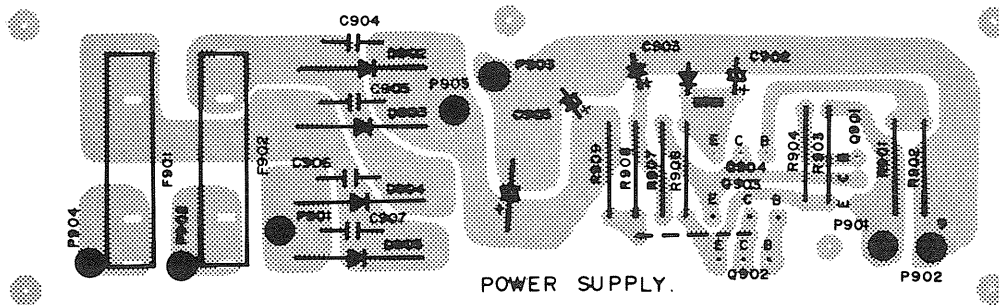
LOUD, FILTER & MODE BOARD NO. K40151

ASSY. NO. 100-1352-030



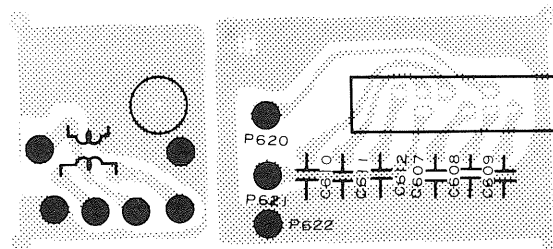
POWER SUPPLY REGULATOR BOARD NO. K40149A

ASSY. NO. 100-1340-039



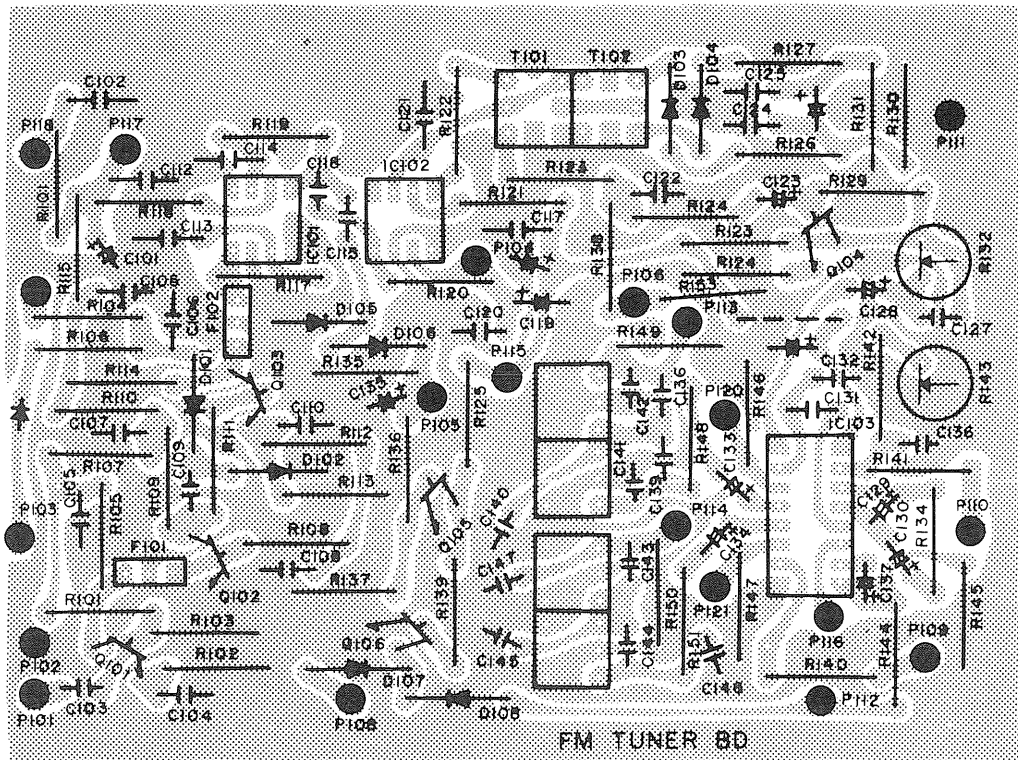
DEEMPHASIS BOARD NO. K40152

ASSY. NO. 100-1348-005



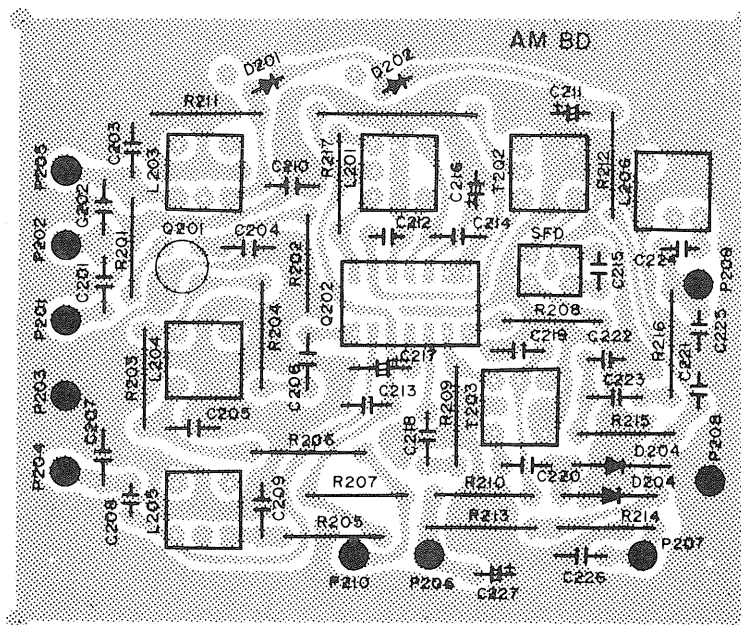
FM TUNER BOARD NO. K40145A

ASSY. NO. 100-1351-004



AM TUNER BOARD NO. K40146A

ASSY. NO. 100-1351-003



PARTS LIST

H.H. SCOTT PART NUMBER

DESCRIPTION

011-1004-030	Capacitor, Electrolytic, Can	6800 μ F 50V
012-1020-004	Diode	1N 60
012-1021-001	Diode, SI	MA162, 1N4148, MA150
012-1021-004	Diode, SI	CD0000 NC
012-1023-011	Diode, Zener	FZD-07
012-1024-013	Diode, Rectifier	3A 100V
013-1031-026	Fuse, Fast-Blo	8A 125V
013-1031-027	Fuse, Fast-Blo	3.5A 125V
013-1031-029	Fuse, Slo-Blo (Europe)	1.75A 250V
013-1031-035	Fuse, Normal-Blo	4A 125V
015-1061-014	Jack, Phone	
015-1061-015	Jack, Mic	
016-1092-037	Inductor	2 mH (CLN K1074 HM)
016-1093-046	Inductor	50 mH (CLN K1075 HM)
016-1093-049	Coil, MPX	19 kHz White
016-1093-050	Coil, MPX	38 kHz Blue
016-1093-051	Coil, Osc.	Red
017-1095-038	Meter, Signal Strength	
017-1095-039	Meter, Center Tune	
018-1100-178	Knob, Volume	
018-1100-179	Knob, Control	
018-1100-180	Knob, Push Switch	
018-1100-181	Knob, Lever	
018-1100-183	Knob, Tuning	
018-1100-185	Knob, Double, Bass & Treble	
018-1102-164	Panel, Front	
018-1104-099	Glass Lens	
018-1105-113	Dial Glass	
020-1110-054	Transistor	2SC 374(BL), 2SC 733
020-1110-055	Transistor	2SA 495Y, MPS 9680U
020-1110-058	Transistor	2SC 1000, BC 318C
020-1110-061	Transistor	FCS 9016G, MPS 9427B
020-1110-062	Transistor	BC 318C, MPS 9633C
020-1111-047	Transistor	2SA 682Y, MPSA 56
020-1111-048	Transistor	2SC 1382, 2SC 1567
020-1111-049	Transistor	2N 4915, 2SC 793
020-1111-051	Transistor	TIP 31B
020-1112-008	Transistor	2N 3823, JF 1033 Blue
020-1114-025	Integrated Circuit	LM 703, μ A 703
020-1114-031	Integrated Circuit	μ A 720, MC 1320
020-1114-032	Integrated Circuit	μ A 758, ULN 2244N
020-1110-053	Transistor	2SC 372, MPS 9630
020-1110-057	Transistor	MPS A06

PARTS LIST

Est

H.H. SCOTT PART NUMBER

DESCRIPTION

021-1125-137	Potentiometer, Balance	} CONTROL
021-1125-138	Potentiometer, Volume	
021-1125-144	Potentiometer, Tone	
023-1135-041	Switch, Slide, Deemphasis	
023-1136-013	Switch, Lever	
023-1137-085	Switch, Rotary, Function	
023-1137-086	Switch, Rotary, Speaker	
023-1138-056	Switch, Push	
024-1140-079	Transformer	
024-1142-021	Coil, AM, IFT (Blue)	
024-1142-026	Coil, AM, IFT (Black)	
024-1142-028	Coil, FM, Discriminator A (Pink)	
024-1142-029	Coil, FM, Discriminator B (Blue)	
024-1142-030	Coil, AM, RF (Yellow)	
024-1142-031	Coil, AM, IFT (White)	
024-1144-011	Filter	SFD 455B
024-1144-012	Filter, Ceramic	10.7 MA
027-1157-043	Cabinet, Wood	
030-1187-032	Terminal, Speaker	
030-1187-033	Terminal, Ground Assy.	
030-1189-028	Lamp, Lead Type	8V 60 mA
030-1189-029	Lamp, Lead Type	12V 40 mA
030-1189-030	Lamp, Lead Type	12V 30 mA
030-1189-031	Lamp, Fuse Type	8V 150 mA
030-1192-010	Fuse Holder	
031-1198-025	Dial Pointer	
031-1200-008	Feet	
035-1276-014	Antenna, AM Assembly	
100-1330-038	Assembly, Front End	FL 516U
100-1333-037	Assembly, Preamp	
100-1334-030	Assembly, Tone Control	
100-1335-018	Assembly, Power Amp Driver	
100-1340-039	Assembly, Regulator	
100-1348-005	Assembly, Balun/Deemphasis	
100-1351-003	Assembly, AM Tuner	
100-1351-004	Assembly, FM Tuner	
100-1352-030	Assembly, Lever Switch	
100-1356-015	Assembly, Dial Lamp	
100-1352-034	Assembly, Push Switch	

