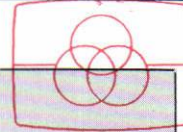




Service Manual

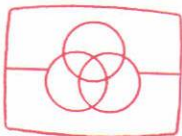


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MODEL SD-308H
(BLACK CABINET)



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MODEL SG-309H
(BLACK CABINET)

SPECIFICATIONS

GENERAL

Circuit (SG-309H): LW/MW/SW/FM (FM-STEREO)
4-band stereo receiver with AFC,
with 4-track cassette tape re-
corder and with semi-automatic
record player

Circuit (SD-308H): LW/MW/SW/FM (FM-STEREO)
4-band stereo receiver with AFC
and with semi-automatic record
player

Semiconductors (SG-309H): 2-IC (Integrated Circuit)
25-transistor
1-FET
20-diode
3-LED

Semiconductors (SD-308H): 2-IC (Integrated Circuit)
12-transistor
1-FET
13-diode
1-LED

Power source: 110/220/240 V, 50 Hz

Dimensions (SG-309H): 755 mm (Width) x 191 mm
(Height) x 340 mm (Depth)

Dimensions (SD-308H): 589 mm (Width) x 191 mm
(Height) x 340 mm (Depth)

Weight (SG-309H): 13 kg

Weight (SD-308H): 11.5 kg

AUDIO SECTION

Music power output: 2 x 15W/4 ohms Both channels
drive

Continuous power output: 2 x 10W/4 ohms Both channels
drive

Frequency response: 30 Hz – 35,000 Hz (–3 dB)

Output impedance 4 ohms

Input sensitivity and

input impedance (SG-309H): MIC: 1 mV, 50K ohms
AUX: 300 mV, 50K ohms

Input sensitivity and
input impedance (SD-308H): TAPE: 300 mV, 50K ohms

Recording output level
(SD-308H only) : 30 mV

FM SECTION

Frequency coverage: 87.6 ~ 108 MHz

Quieting sensitivity: 2 μ V (40 kHz deviation, S/N = 30)

Harmonic distortion: 1%

Stereo separation: 30 dB

AM SECTION

Frequency coverage: LW: 150 ~ 285 kHz

MW: 520 ~ 1620 kHz

SW: 5.95 ~ 18 MHz

Maximum sensitivity LW: 250 μ V/m

MW: 150 μ V/m

SW: 30 μ V

RECORD PLAYER SECTION

Type: Rim driven, semi-automatic

Speed: 33-1/3, 45 r.p.m.

Pickup: Static balancing

Cartridge: Ceramic with Saphir stylus

Motor: AC110 V, 50 Hz 2-pole in-
duction

TAPE RECORDER SECTION – SG-309H only

Type: 4-track 2-channel stereo cassette
tape recorder

Tape: Philips standard compact cas-
sette tape

Tape speed: 4.8 cm/sec

Wow & flutter: 0.35% (DIN standard)

Frequency response: 50 Hz ~ 15 kHz (CrO₂ tape)

50 Hz ~ 10 kHz (Normal
tape)



SD-308H
(WALNUT CABINET)



SG-309H
(WALNUT CABINET)

CABINET DISASSEMBLY

1. Remove the turntable by pulling upward.
2. Lift up the player board at the lefthand and slide the player board to the left.
3. While lifting up the player board at this side, disconnect the pin plugs and phono motor connector.
4. Then, remove the player.
5. Remove four (4) slide volume knobs and tuning knob.
6. Remove the cabinet bottom retaining screw.
7. Remove the screw retaining the control panel.
8. Lift up the control panel at this side and pull out the panel.
9. Remove the screw retaining the switch panel and take out the switch panel. (SG-309H only)
10. Remove the tape deck panel by removing four (4) retaining screws. (SG-309H only)
11. Remove two (2) screws retaining the rear terminal bracket, two (for SD-308H, four for SG-309H) wood screws retaining the chassis and two (2) wood screws retaining the power transformer bracket.

DIAL CORD STRINGING

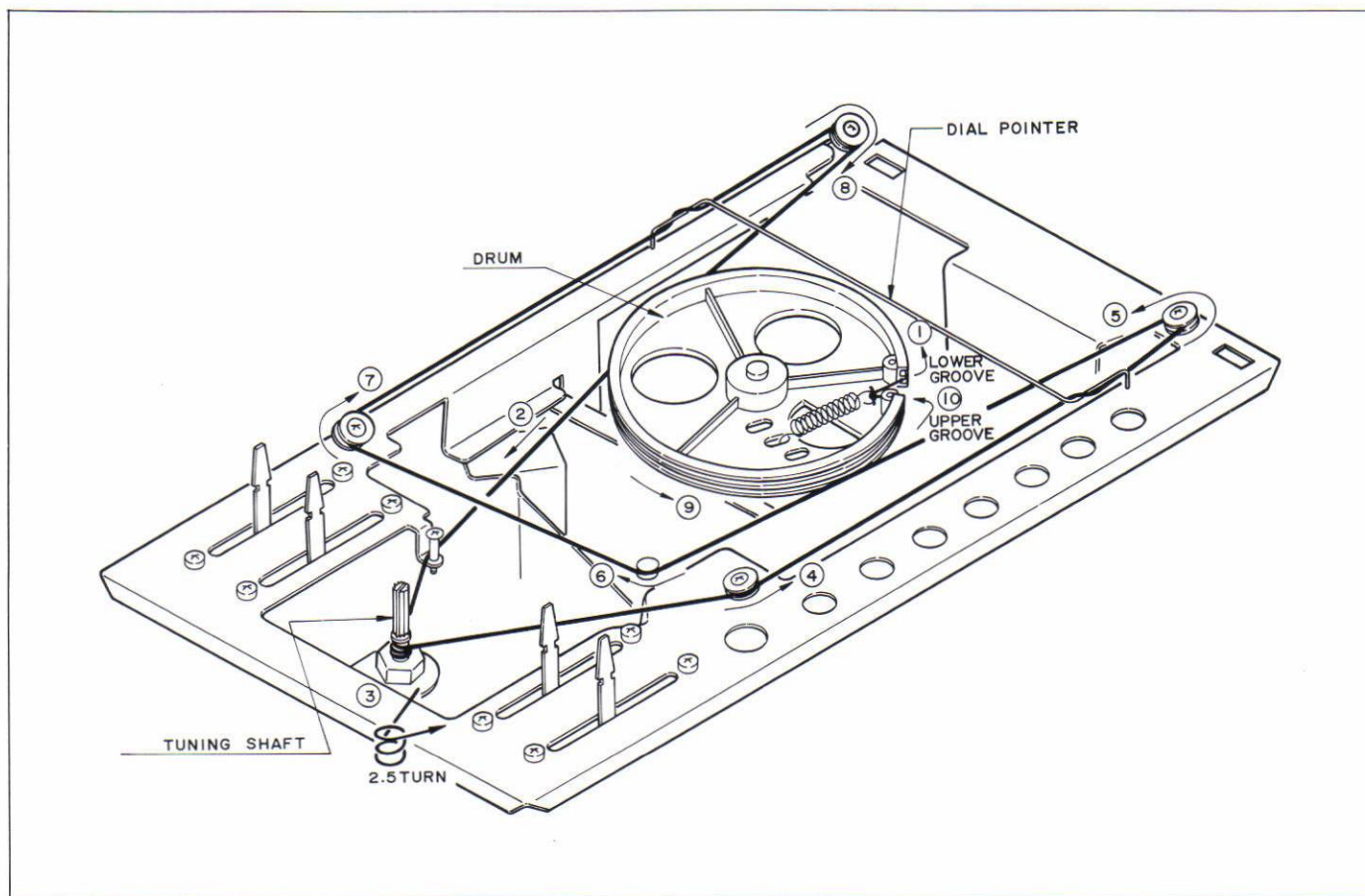


Figure 1

CHECK AND ADJUSTMENT (SG-309H only)

This unit operates on AC 110/220/240V, 50Hz. Check that the power supply is exactly AC 110/220/240V before measurement.

■ TAKE-UP TORQUE IN FAST FORWARD MODE (Refer to Figure 2)

1. Place a test reel on a take-up reel spindle.
2. Put a tension gauge on the test reel.
3. Set the unit in fast forward mode by depressing the FAST FORWARD button.
4. Turn the gauge slowly to counterclockwise direction and read the gauge.
5. The reading on the tension gauge should be 60 – 90gr.

■ REWIND TORQUE IN REWIND MODE (Refer to Figure 2)

1. Place a test reel on a supply reel spindle.
2. Put a tension gauge on the test reel.
3. Set the unit in rewind mode.
4. Turn the gauge slowly to clockwise direction and read the gauge.
5. The reading on the tension gauge should be 55 – 90gr.

■ TAKE-UP TORQUE IN PLAY MODE (Refer to Figure 2)

1. Do the same steps 1 and 2 in "TAKE-UP TORQUE IN FAST FORWARD MODE".
2. Set the unit in playback mode by depressing the PLAY button.
3. Check the take-up torque.
4. The reading on the tension gauge should be 30 – 60gr.

■ PINCH ROLLER PRESSURE (Refer to Figure 3)

1. Set the unit in playback mode.
2. Hook the tension gauge at the pinch roller shaft.
3. Read the gauge when the pinch roller separates from the capstan about 0.5mm distance.
4. The pinch roller pressure should be 400 – 540gr.

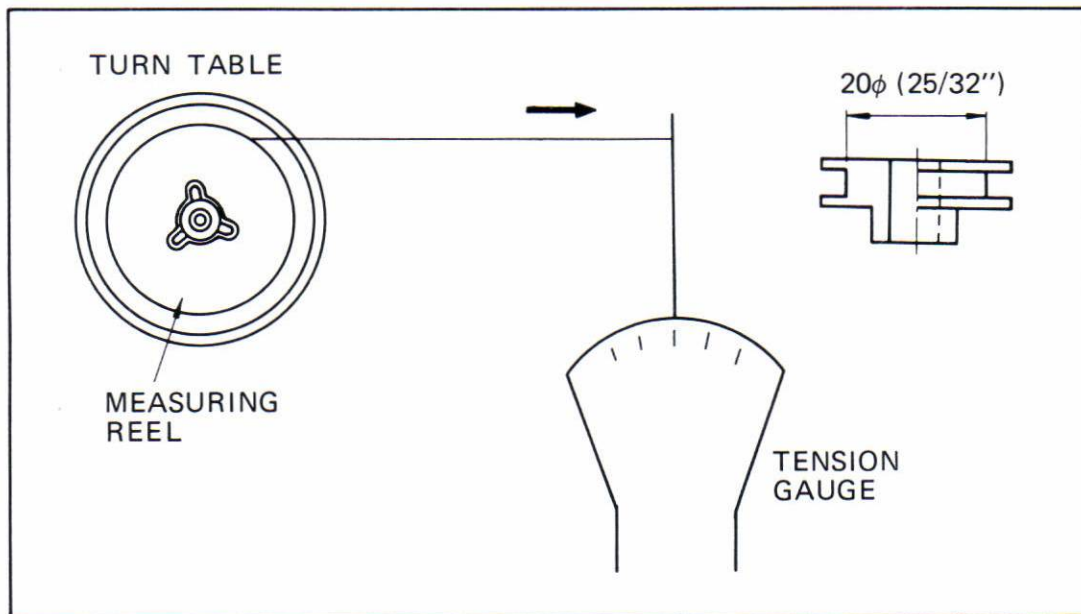


Figure 2

■ FLYWHEEL THRUST CLEARANCE ADJUSTMENT (Refer to Figure 4)

Adjust the thrust gap about 0.1mm to 0.3mm by adjusting screw on the flywheel bracket.. After finished adjustment, apply a drop of lacquer on the screw.

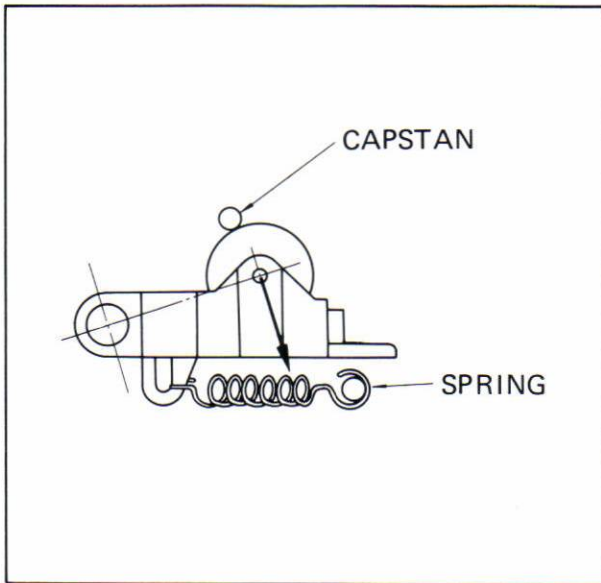


Figure 3

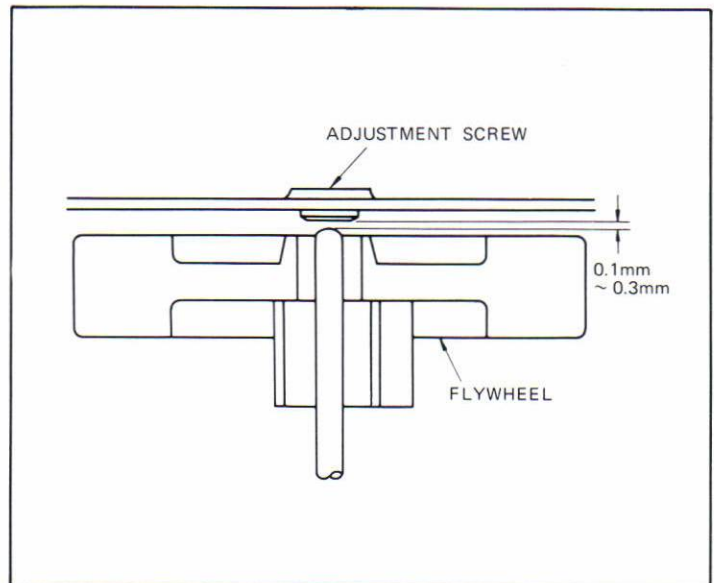


Figure 4

■ TAPE SPEED CHECK (Refer to Figure 5)

1. Connect an 4 ohm dummy load resistor to the speaker output socket (SO504 or SO505).
2. Connect a frequency counter across the 4 ohm resistor.
3. Place the unit in a horizontal position and playback the test tape (TEAC MTT-111, 250 PWB/mm -10 dB, 3 kHz).
4. Ensure that the frequency counter indicates within 3 kHz \pm 75 Hz (2925 ~ 3075 Hz)

If the tape speed is not within this range, clean the belt, flywheel, capstan, pinch roller and the other running parts. Check the torque of take-up turntable and pressure of the pinch roller. Nevertheless good results can not be obtained, replace the motor.

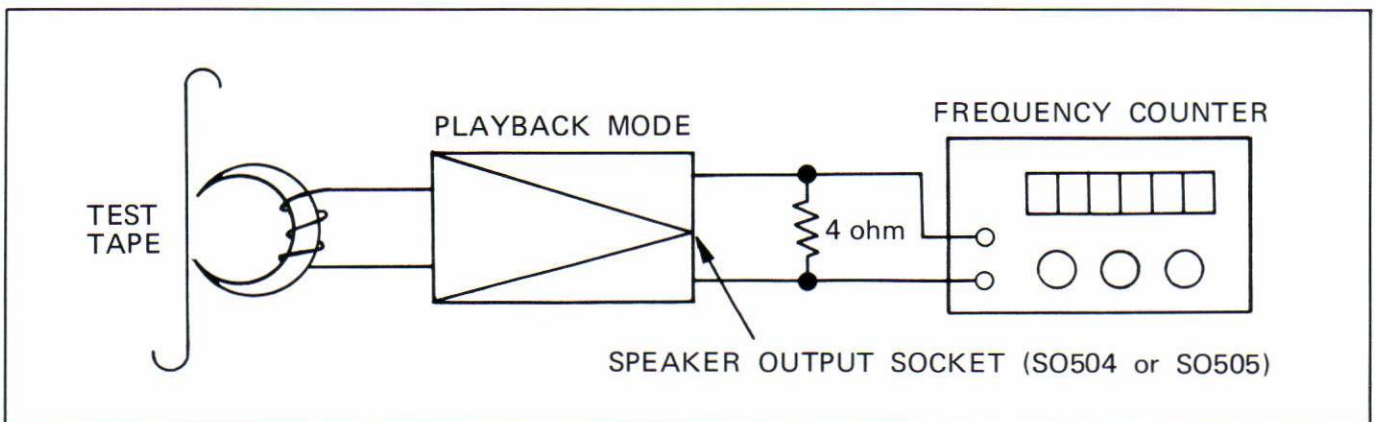


Figure 5

TAPE DECK CIRCUIT ADJUSTMENT (SG-309H only)

■ RECORD AMPLIFIER BIAS OSCILLATOR ADJUSTMENT (Refer to Figure 6)

1. As shown in figure 6, connect the VTVM across the resistors of 100 ohm (R809, R810).
2. Set the unit in "RECORD" mode and RIF switch in upper position.
3. Then, connect the frequency counter to the output terminal of VTVM and adjust the oscillator coil (L805) so that the bias oscillation frequency becomes 53.5 kHz.
4. Adjust the variable resistors (VR801, VR802) so that the VTVM readings becomes 60 mV.

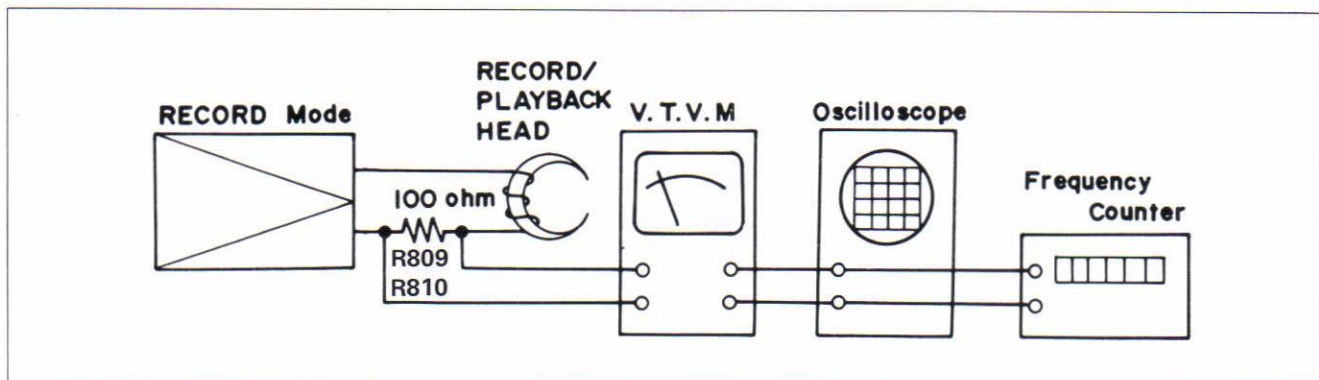


Figure 6

■ RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT (Refer to Figure 7).

1. Connect 4 ohm dummy resistor to the speaker output terminals (SO504 or SO505) and connect the VTVM across the resistor.
2. Playback the test tape (TEAC MTT-114; 250 PWB/mm, -10 dB, 10 kHz).
3. Rotate the adjusting screw so that the playback output voltage becomes maximum in both channels.

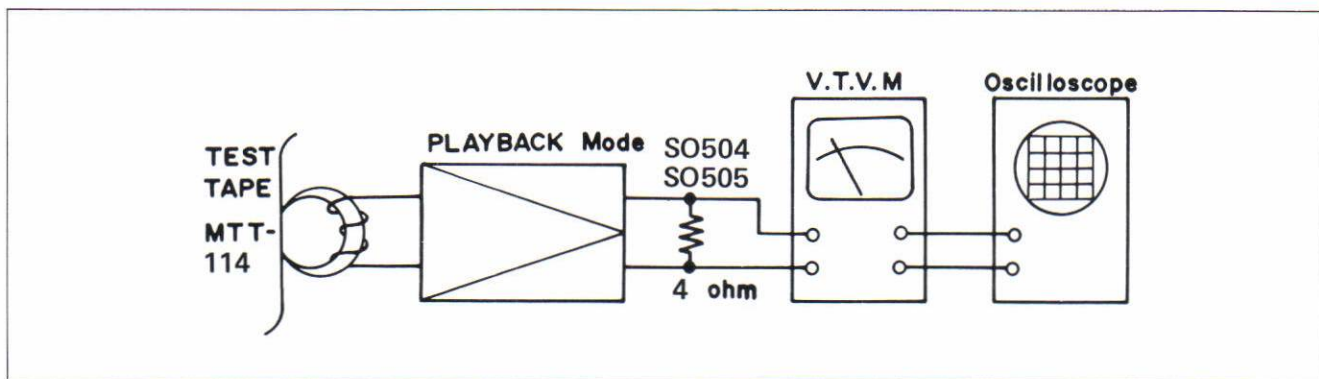


Figure 7

ALIGNMENT INSTRUCTIONS (TUNER)

Alignment is an exacting procedure and should be undertaken only when necessary.

If alignment of AM and FM is required, either section may be done first.

The FM stereo section, however, should be done only if the FM monaural section is properly adjusted.

Notes: Don't use a metallic screw driver.

REQUIRED EQUIPMENT:

1. Signal generator with a frequency range of 455 kHz to 1650 kHz: AM
2. Signal generator with a frequency range of 87.4 MHz to 109 MHz: FM
3. Signal generator with a frequency output of 10.7 MHz±0.5 MHz: FM
4. Vacuum tube voltmeter (AC-VTVM)
5. Sweep signal generator with a sweep range of at least 500 kHz and center frequency of 10.7 MHz with at least a 10.7 MHz marker. (Ext. Marker may be used.)
6. Oscilloscope with a wide range amplifier of approximately 100 kHz
7. Test loops, a coil of any size wire, one turn or more.
8. FM stereo signal generator.
9. Audio signal generator with a frequency of 20 Hz to 100 KHz.

Notes: Allow the set at least five minutes to warm up before attempting alignment. During alignment keep the signal generator output at the lowest level that will maintain a usable output from the set, except for FM stereo signal generator. Take much care, lest the grounding of FM sweep signal generator input should make multipaths which made FM IF alignment incorrect. To avoid this the grounding lead may be connected through 0.01–0.04 MFD capacitor to the tuner chassis when sweep generator is connected to the tuner section.

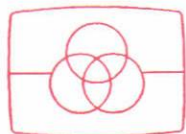
Generator modulation(AM) 30%, 400Hz

Generator modulation(FM) 22.5kHz, 400 Hz

Generator modulation(FM stereo) CH.L. or CH.R. 11.25kHz, 1000Hz Mod.

THE INSTRUCTION OF FREQUENCY ADJUSTMENT

In order to comply with FTZ rule Nr. 358 S757, please fix the low end of dial frequency (87.5 MHz) and the high end of dial frequency (107.9 MHz) on FM band, by adjusting oscillation coil (L104) and oscillation trimmer (TC3), respectively, as illustrated in Figure 8.



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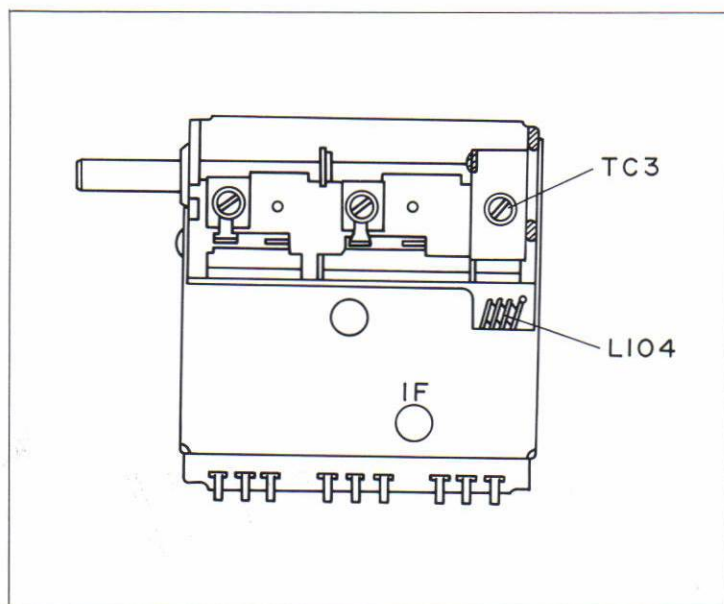


Figure 8

ALIGNMENT PROCEDURE (TUNER)

AM ALIGNMENT

PROCEDURE NUMBER	SIGNAL GENERATOR		DIAL POINTER SETTING	FUNCTION SETTING	METER CONNECTION	ADJUSTMENT	REMARKS	
	CONNECTION	FREQUENCY						
1 (IF)	Thru 0.01 μ F to Q201 base as small as possible	455 kHz (Sweep)	High end of Dial	MW	Oscilloscope connected to TP201	T204 T205 T206	Adjust for maximum output. Repeat 2 or 3 times	
2	Band Coverage	Radiated Signal as small as possible	510 kHz Modulated	Low end of Dial	MW	VTVM connected to TP201	Oscillator coil L204	Same as above
3		Radiated Signal as small as possible	1650 kHz Modulated	High end of Dial	MW	Same as above	Oscillator Trimmer TC8	Same as above
4	Tracking	Radiated Signal as small as possible	1400 kHz	1400 kHz	MW	Same as above	Antenna Trimmer TC5	Same as above
5		Radiated Signal as small as possible	600 kHz	600 kHz	MW	Same as above	Antenna coil L202 (Bobbin of MW)	Same as above
6	Band Coverage	Radiated Signal as small as possible	145 kHz	Low end of Dial	LW	Same as above	Oscillator coil L205	Same as above
7		Radiated Signal as small as possible	295 kHz	High end of Dial	LW	Same as above	Oscillator Trimmer TC9	Same as above
8	Tracking	Radiated Signal as small as possible	280 kHz	280 kHz	LW	Same as above	Antenna Trimmer TC6	Same as above
9		Radiated Signal as small as possible	160 kHz	160 kHz	LW	Same as above	Antenna coil L202 (Bobbin of LW)	Same as above
10	Band Coverage	Thru 10PF to AM EXT ANT. as small as possible	5.9 MHz	Low end of Dial	SW	Same as above	Oscillator coil L203	Same as above
11		Thru 10PF to AM EXT ANT. as small as possible	18.3 MHz	High end of Dial.	SW	Same as above	Oscillator Trimmer TC7	Same as above
12	Tracking	Thru 10PF to AM EXT ANT. as small as possible	16 MHz	16 MHz	SW	Same as above	Antenna Trimmer TC4	Same as above
13		Thru 10PF to AM EXT ANT. as small as possible	6.5 MHz	6.5 MHz	SW	Same as above	Antenna coil L201	Same as above

However, as for the set of UK, adjust IF to 465 kHz.

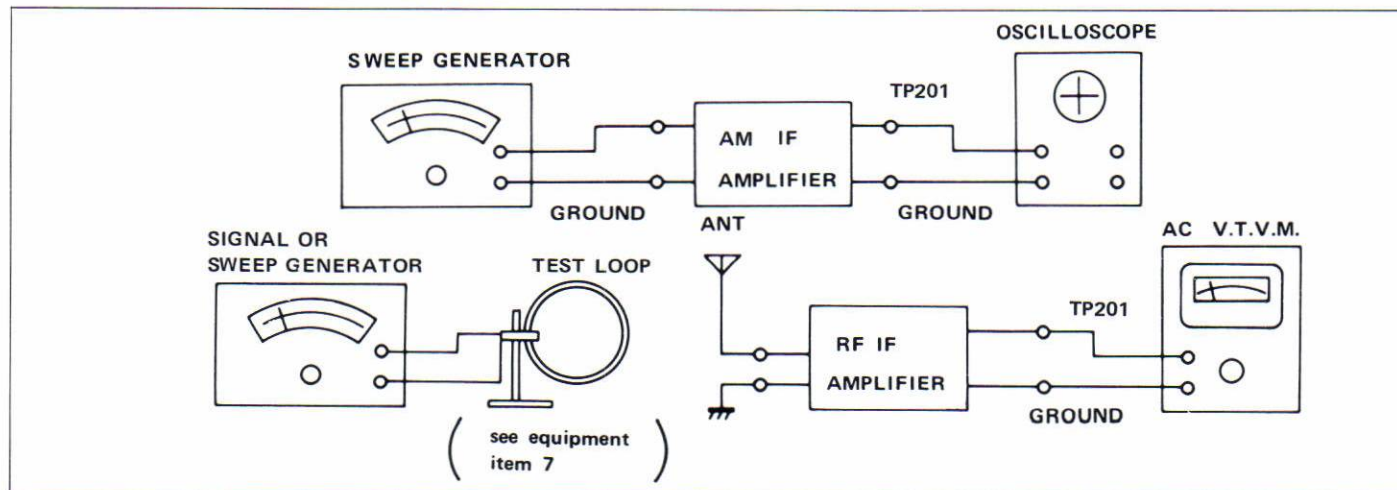


Figure 9 AM ALIGNMENT EQUIPMENT CONNECTIONS

FM IF ALIGNMENT

PROCEDURE NUMBER	SIGNAL GENERATOR		DIAL POINTER SETTING	FUNCTION SETTING	SCOPE CONNECTION	ADJUSTMENT	REMARKS
	CONNECTION	FREQUENCY					
1	Detune the secondary core of T203 completely						
2	Thru 10PFD to base of Q203	10.7 MHz ± 300 kHz	High end of Dial	FM	TP203	T201 T202 the primary core of T203	Set curve at maximum as shown in the Figure A Repeat 2 or 3 times
3	Thru 10PFD to base of Q203	10.7 MHz ± 400 kHz	High end of Dial	FM	TP203	the secondary core of T203	Adjust "S" curve at maximum. Adjust 10.7 MHz at the center of "S" curve.
4	Repeat adjustment to obtain "S" curve as shown in Figure.						

■ PRECAUTIONS ON DETUNING

Turn the core of T203 two or more times.

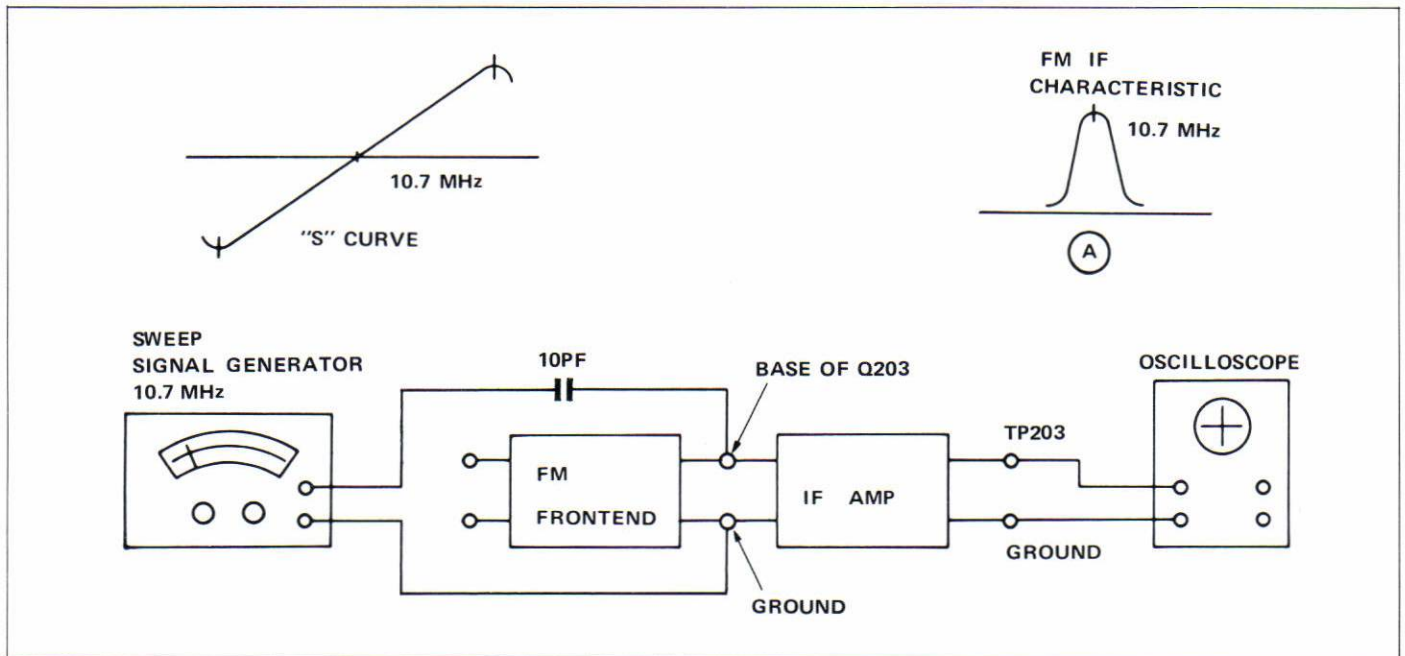


Figure 10 FM IF ALIGNMENT EQUIPMENT CONNECTIONS

FM RF ALIGNMENT

PROCEDURE NUMBER	SIGNAL GENERATOR		DIAL POINTER SETTING	FUNCTION SETTING	METER CONNECTION	ADJUSTMENT	REMARKS	
	CONNECTION	FREQUENCY						
1	Band Coverage	FM ANT terminal (through 300 ohm matching pad)	109 MHz Modulated	High end of Dial	FM	TP203	Oscillator trimmer TC3	Adjust for maximum output.
2		Same as above	87.4 MHz Modulated	Low end of Dial	FM	Same as above	Oscillator coil L104	Same as above
3	Tracking	Same as above	106 MHz	106 MHz	FM	Same as above	RF trimmer TC2 ANT trimmer TC1	Same as above
4		Same as above	90 MHz	90 MHz	FM	Same as above	RF coil L102	Same as above
5	If necessary, repeat step 1 – step 4.							

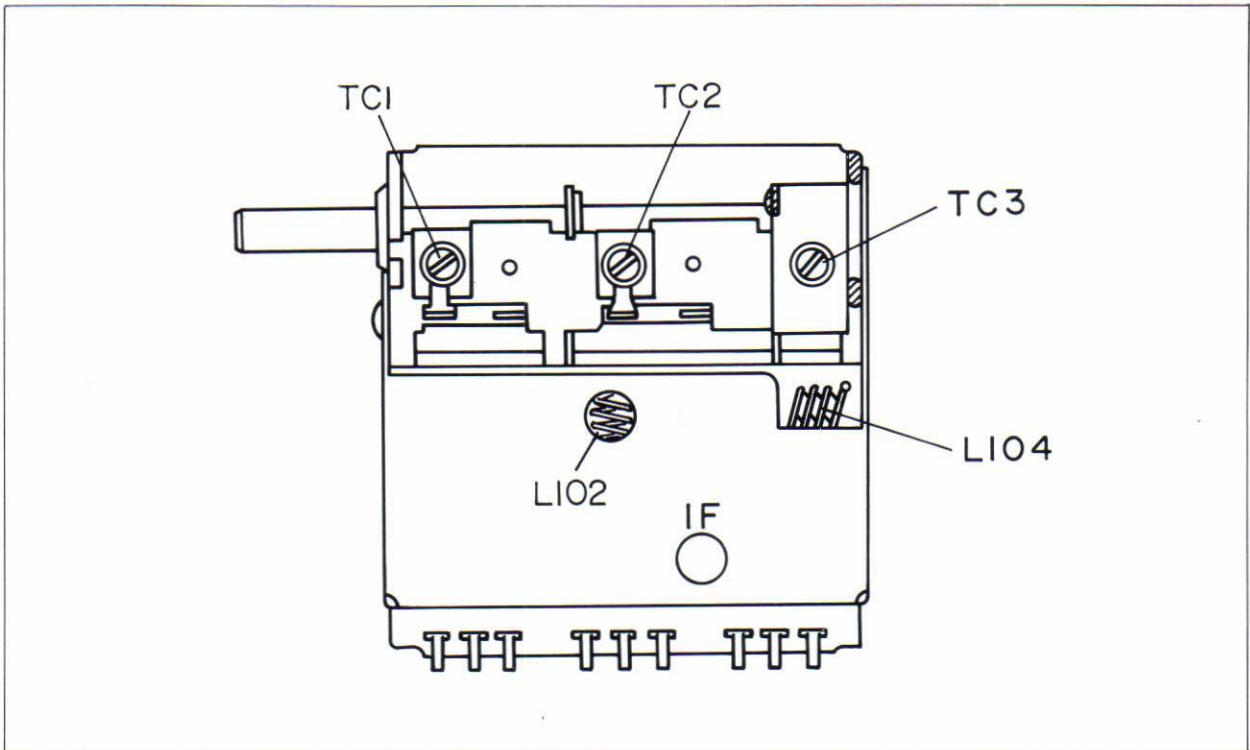


Figure 11 FM RF ALIGNMENT POINTS

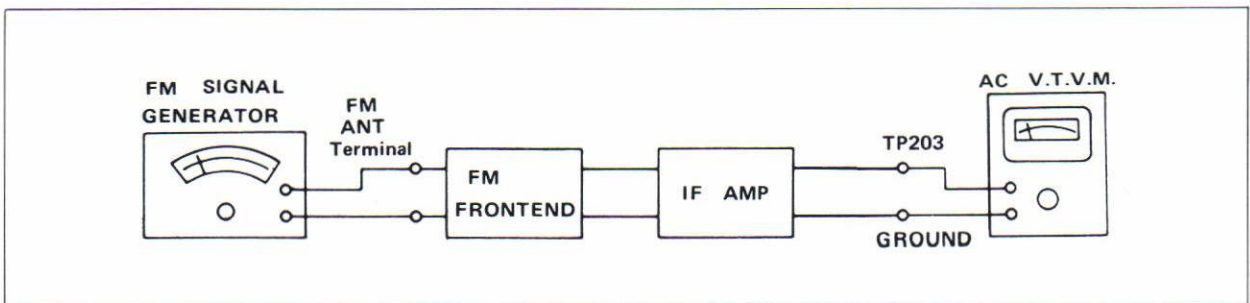


Figure 12 FM RF ALIGNMENT EQUIPMENT CONNECTIONS

PROCEDURE NUMBER	STEREO SIGNAL GENERATOR		TUNING FREQUENCY	FUNCTION SETTING	METER CONNECTION	ADJUSTMENT	REMARKS
	CONNECTION	MOD. FREQUENCY					
1	FM-ANT	19 kHz Mod. level as small as possible	98 MHz	FM & STEREO (MONO: OFF)	TP204	L207 L208	Get the maximum point. Repeat 2 or 3 times.
2	FM-ANT	19 kHz 10% Mod. 1 kHz ch. L only 13.5% Mod.	98 MHz	FM & STEREO (MONO: OFF)	Across ch. R Output Load. (SO-505)	L208 (Readjust)	Get the minimum output point.

Note: Output level of FM Signal Generator which is modulated by a FM Stereo Signal Generator shall be 1 mV (60 dB).

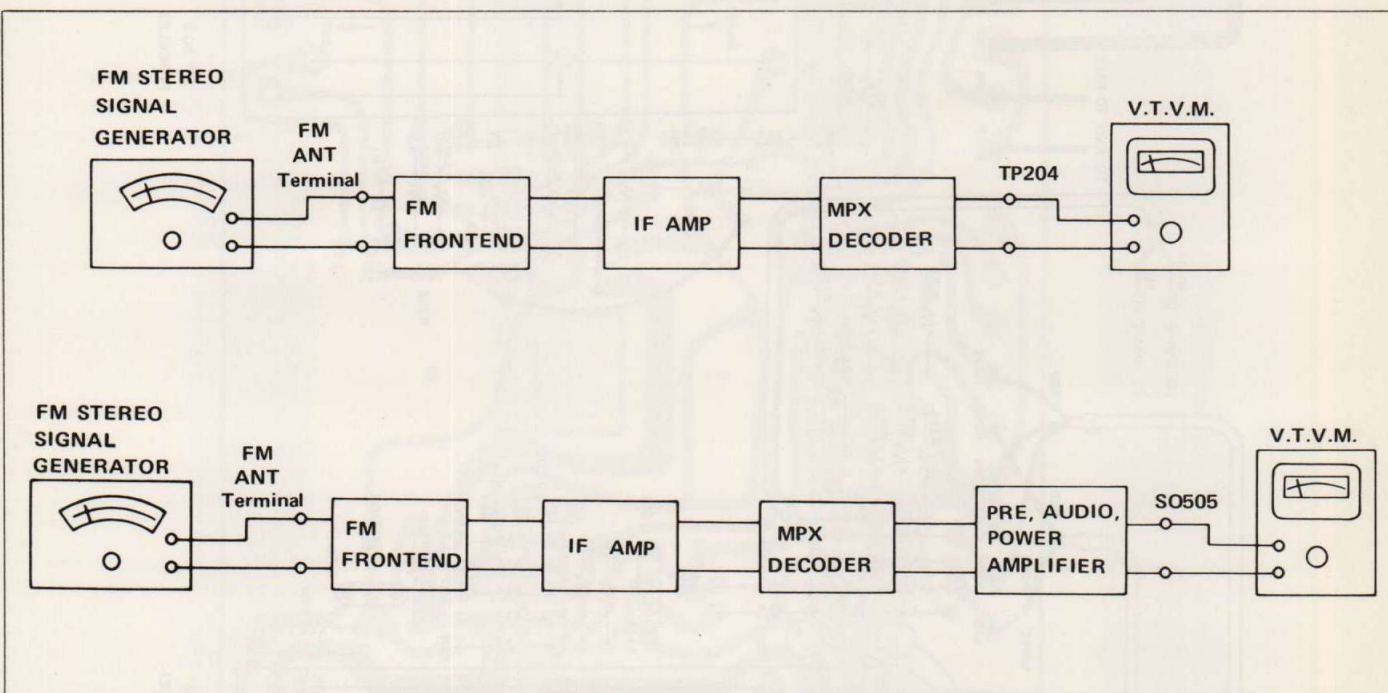


Figure 13 FM STEREO ALIGNMENT EQUIPMENT CONNECTIONS

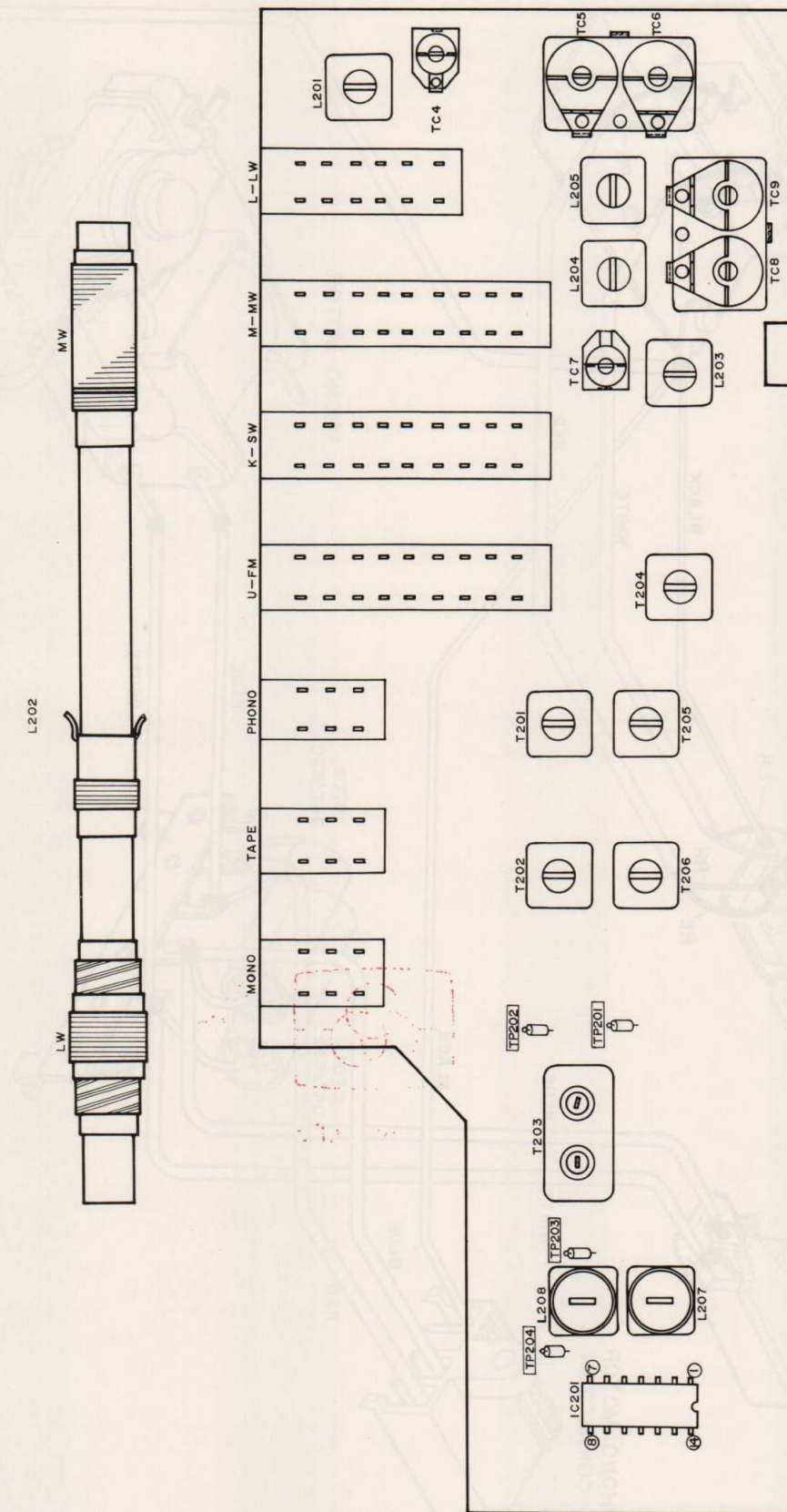


Figure 14 TUNER ALIGNMENT POINT

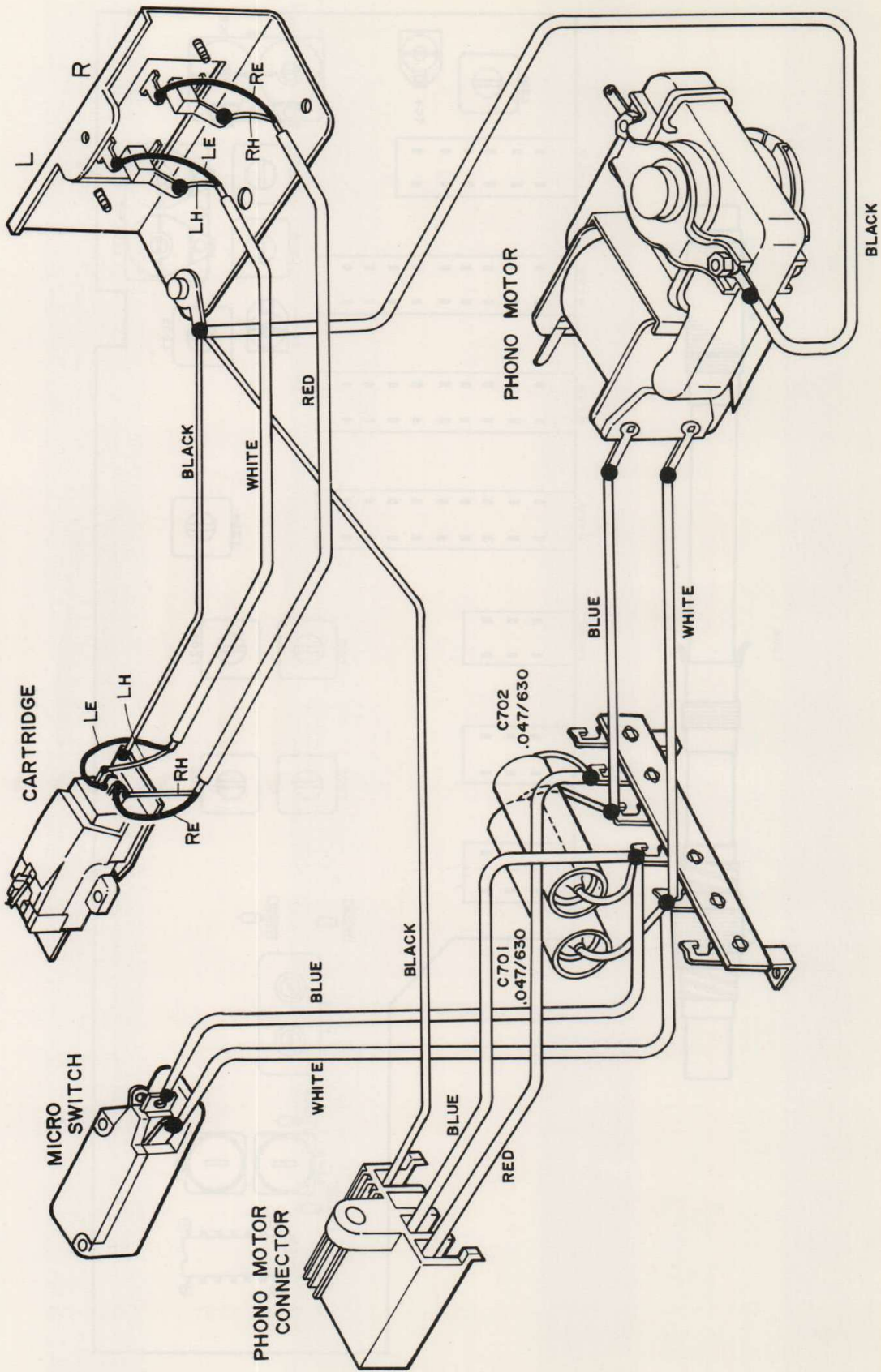


Figure 15 WIRING CONNECTION OF RECORD PLAYER

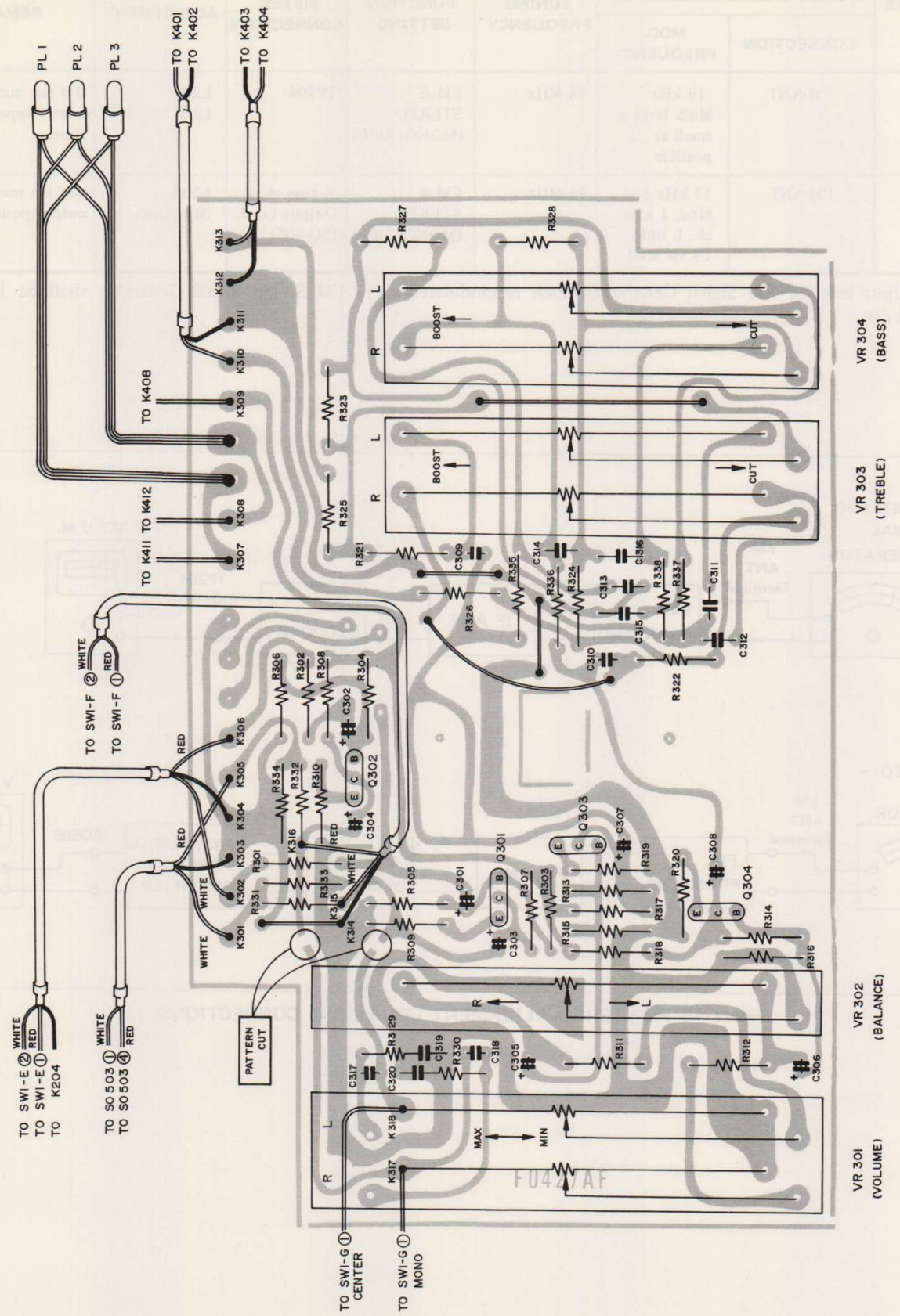
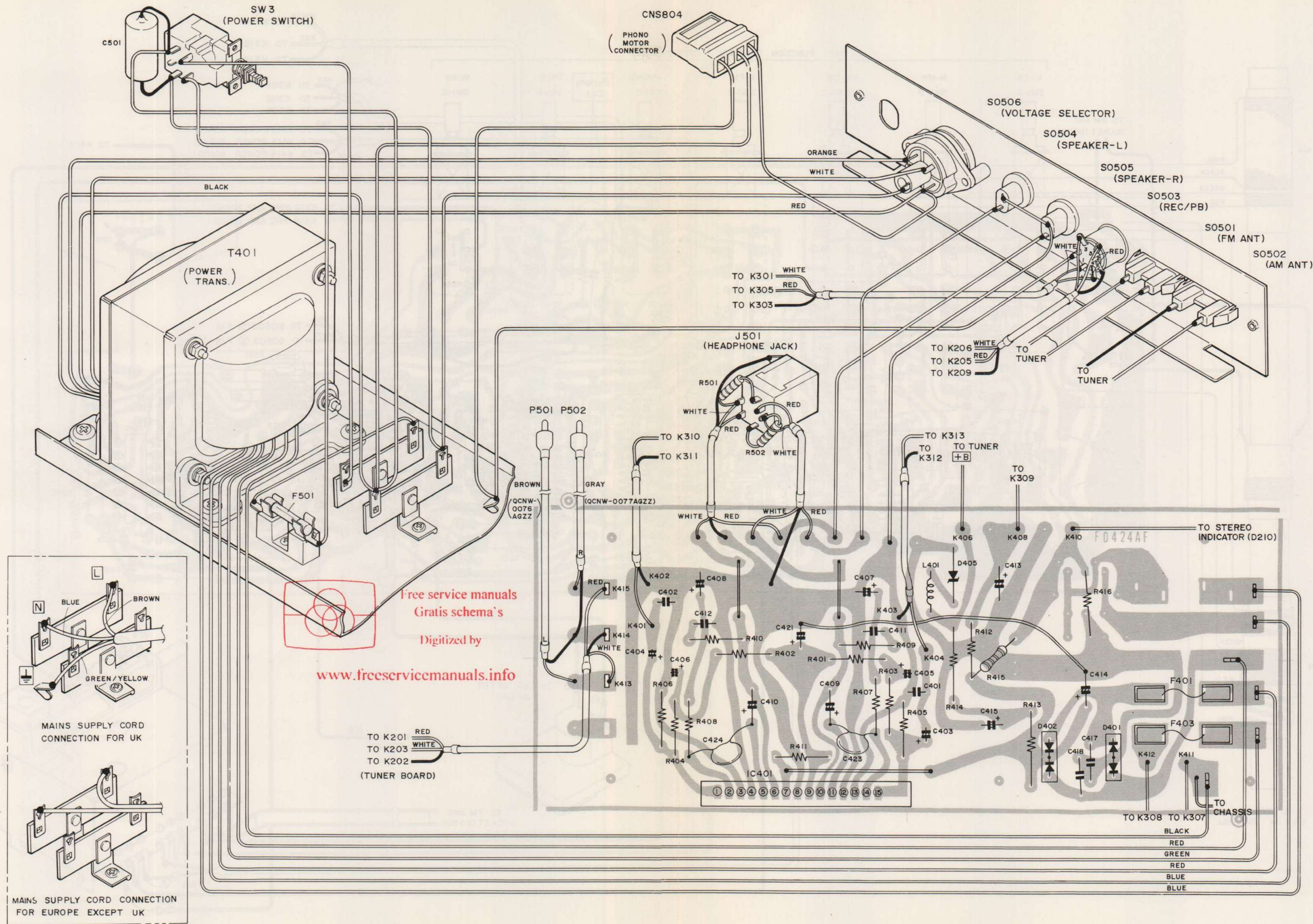


Figure 16 WIRING SIDE OF PRE AMP BOARD (SD-308H)



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Figure 17 WIRING SIDE OF POWER AMP BOARD (SD-308H)

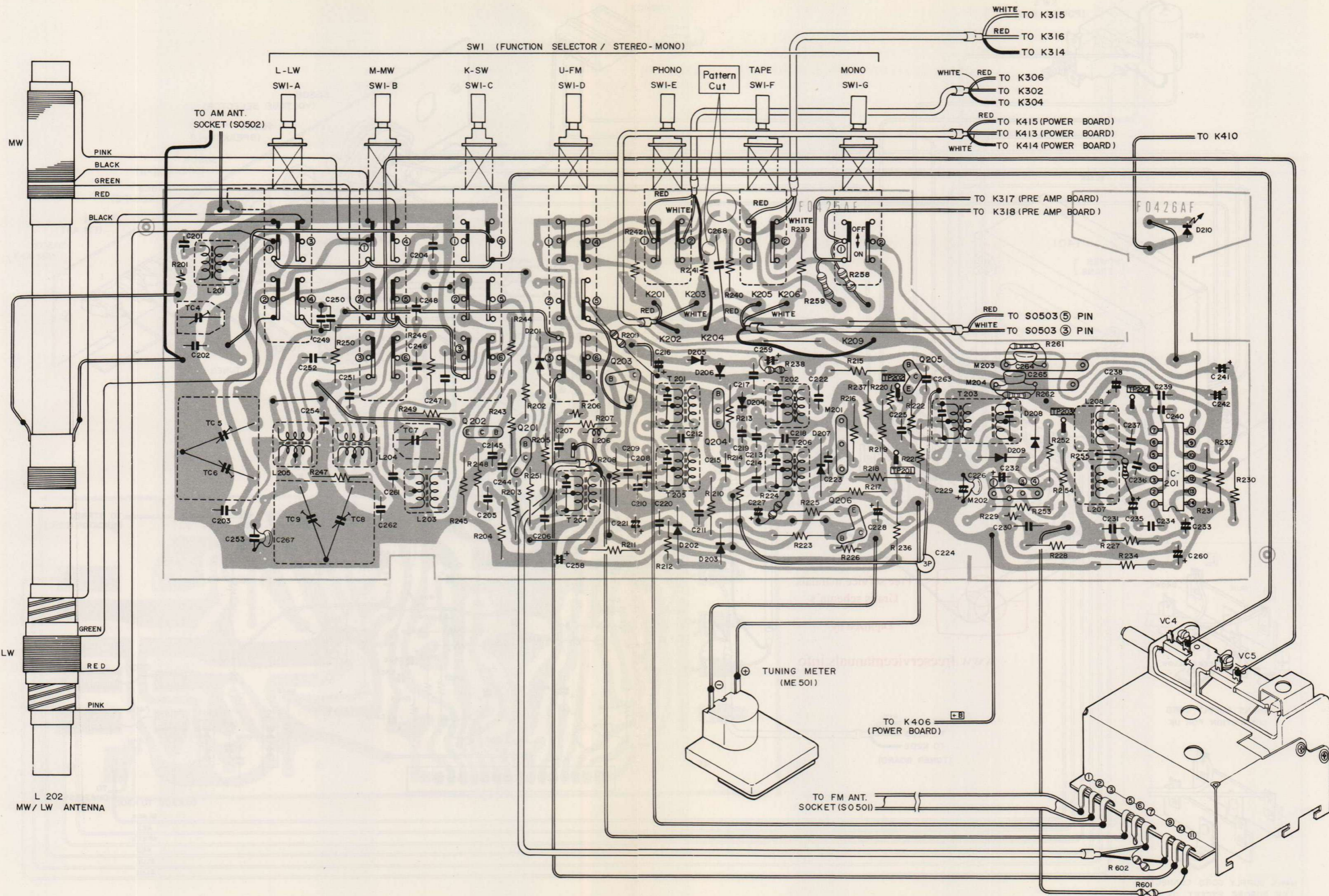
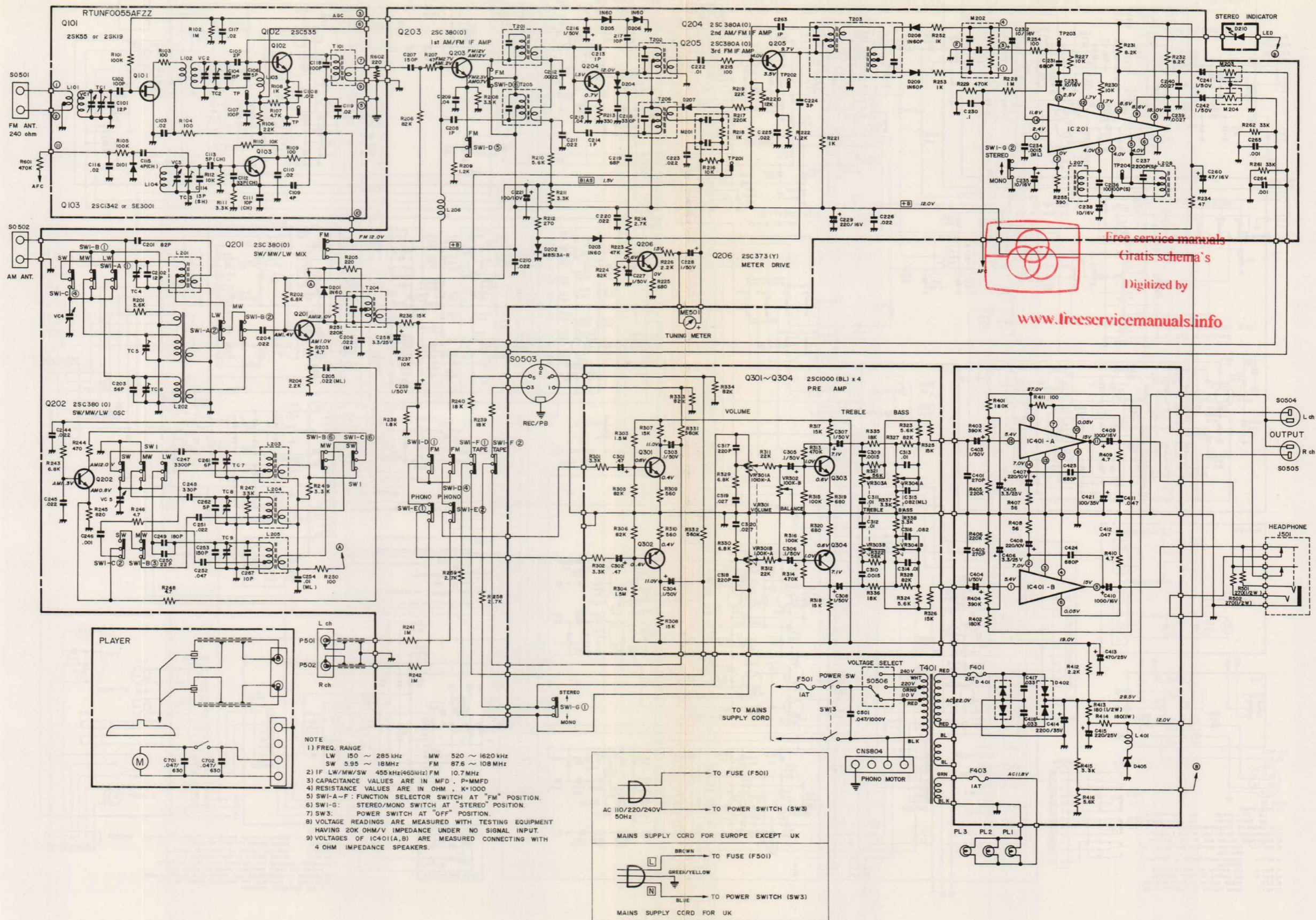


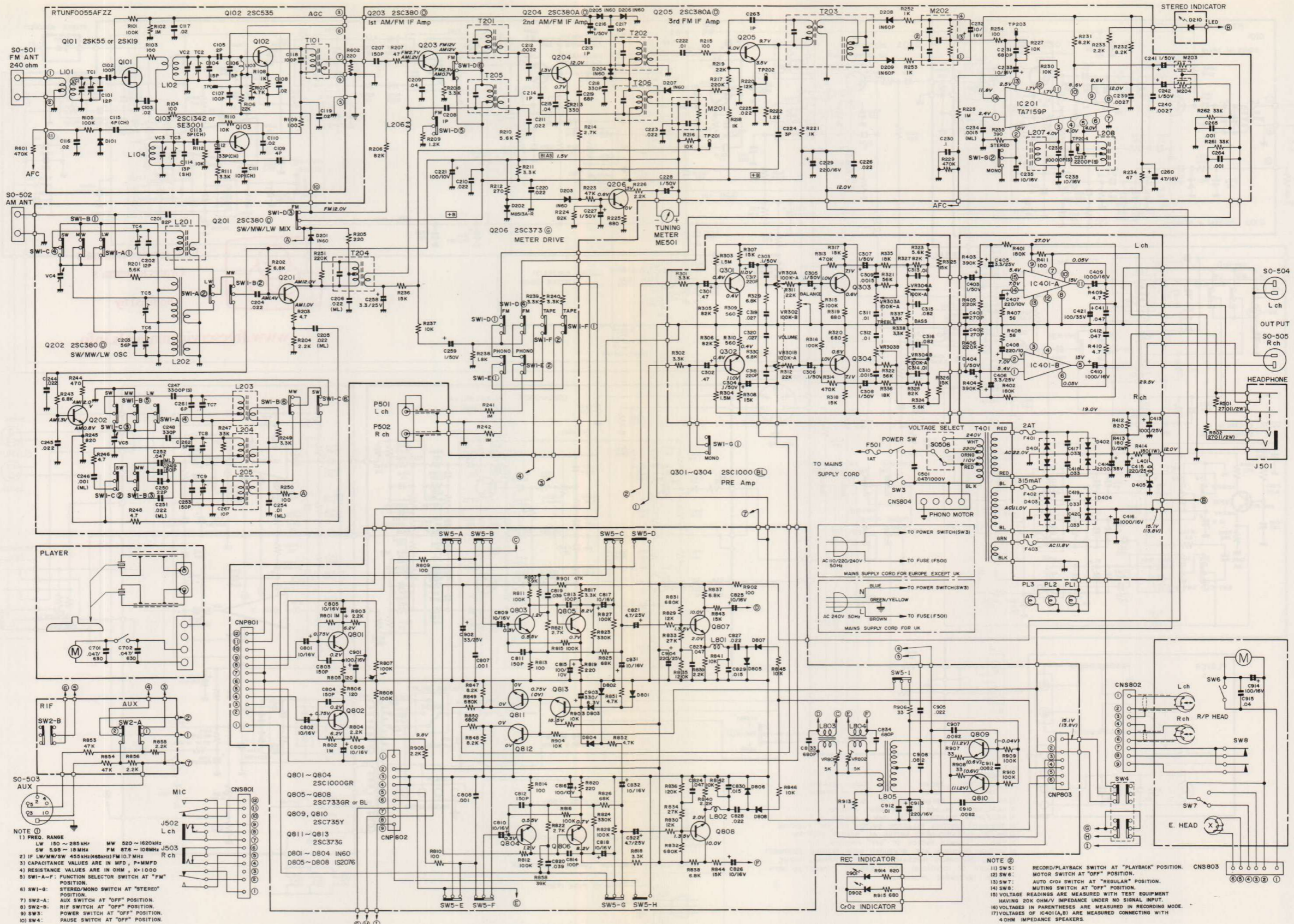
Figure 18 WIRING SIDE OF TUNER AMP BOARD (SD-308H)



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(Specifications or wiring diagrams of this model are subject to change for the improvement without prior notice.)

Figure 19 SCHEMATIC DIAGRAM (SD-308H)



- NOTE ①
- 1) FREQ. RANGE
LW 150 ~ 285 kHz MW 520 ~ 1620 kHz SW 5.95 ~ 18 MHz
 - 2) IF LW/MW/SW 455 kHz (455 kHz) FM 10.7 MHz
 - 3) CAPACITANCE VALUES ARE IN PFD, P-IMPED
 - 4) RESISTANCE VALUES ARE IN OHM, K=1000
 - 5) SW1-A-F: FUNCTION SELECTOR SWITCH AT "FM" POSITION.
 - 6) SW1-G: STEREO/MONO SWITCH AT "STEREO" POSITION.
 - 7) SW2-A: AUX SWITCH AT "OFF" POSITION.
 - 8) SW2-B: RIF SWITCH AT "OFF" POSITION.
 - 9) SW3: POWER SWITCH AT "OFF" POSITION.
 - 10) SW4: PAUSE SWITCH AT "OFF" POSITION.

- NOTE ②
- 1) SW5: RECORD/PLAYBACK SWITCH AT "PLAYBACK" POSITION.
 - 2) SW6: MOTOR SWITCH AT "OFF" POSITION.
 - 3) SW7: AUTO COX SWITCH AT "REGULAR" POSITION.
 - 4) SW8: MUTING SWITCH AT "OFF" POSITION.
 - 5) VOLTAGE READINGS ARE MEASURED WITH TEST EQUIPMENT HAVING 20K OHM/V IMPEDANCE UNDER NO SIGNAL INPUT.
 - 6) VOLTAGES IN PARENTHESES ARE MEASURED IN RECORDING MODE.
 - 7) VOLTAGES OF IC401(A,B) ARE MEASURED CONNECTING WITH 4 OHM IMPEDANCE SPEAKERS.

(Specifications or wiring diagrams of this model are subject to change for the improvement without prior notice.)

Figure 20 SCHEMATIC DIAGRAM (SG-309H)

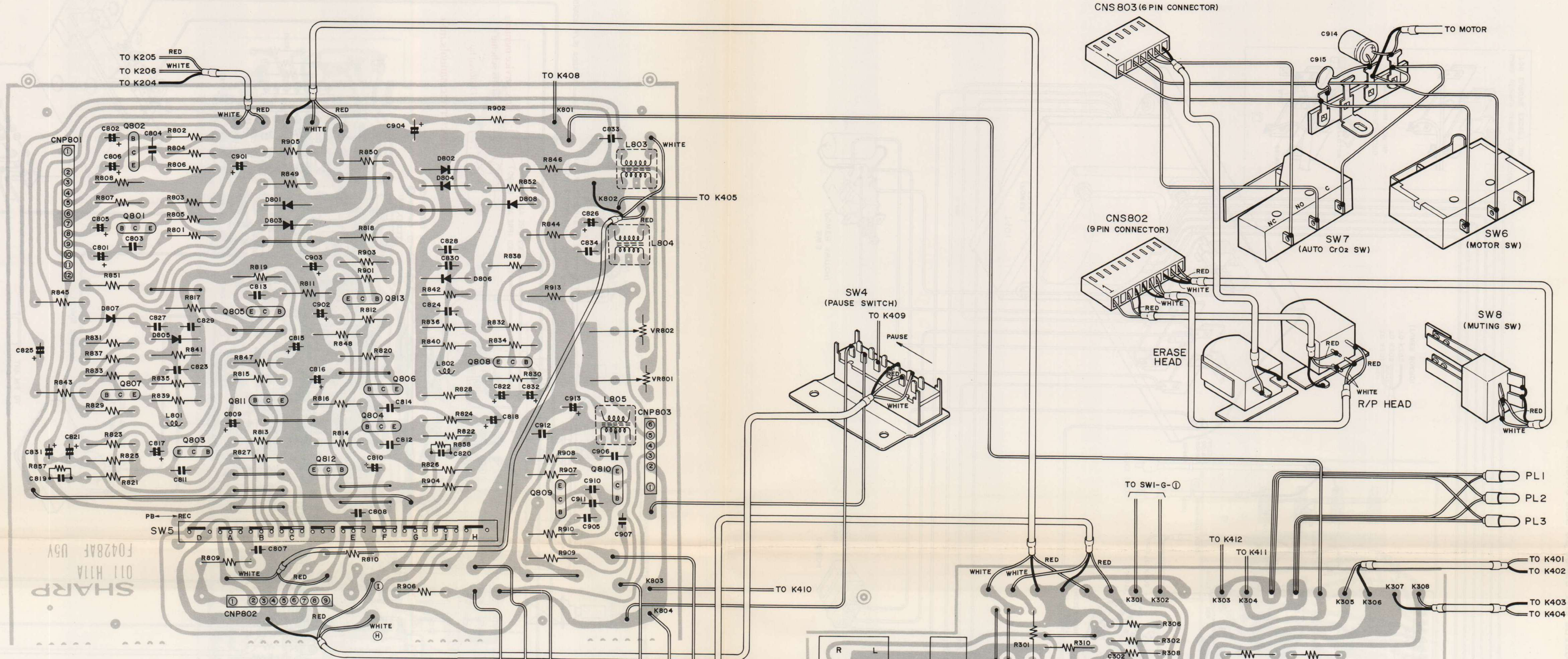
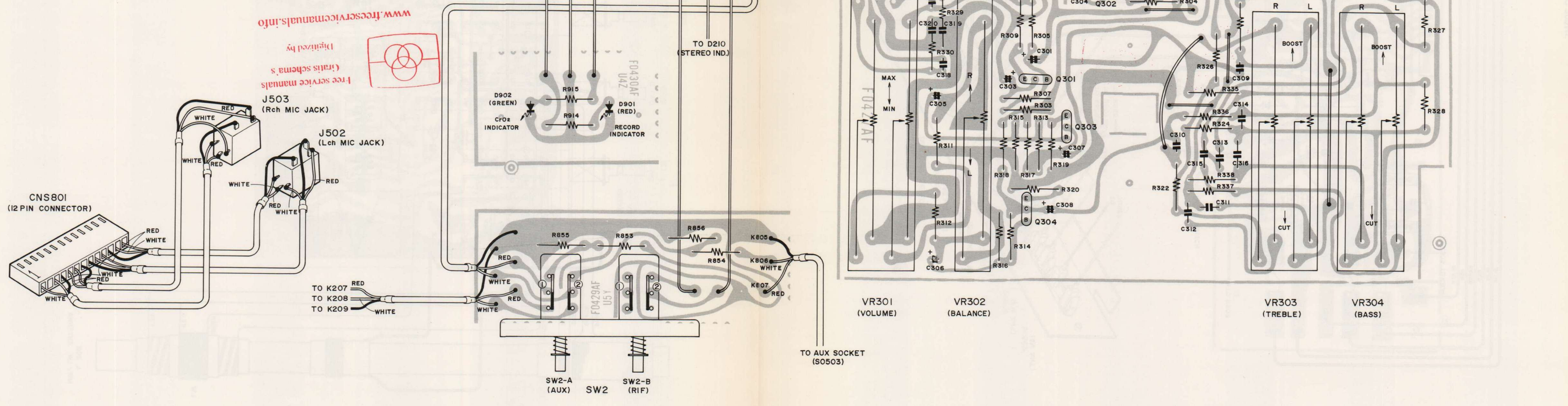
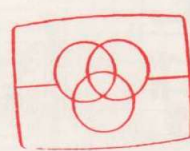


Figure 21 WIRING SIDE OF PRE AMP/DECK AMP BOARDS (SG-309H)



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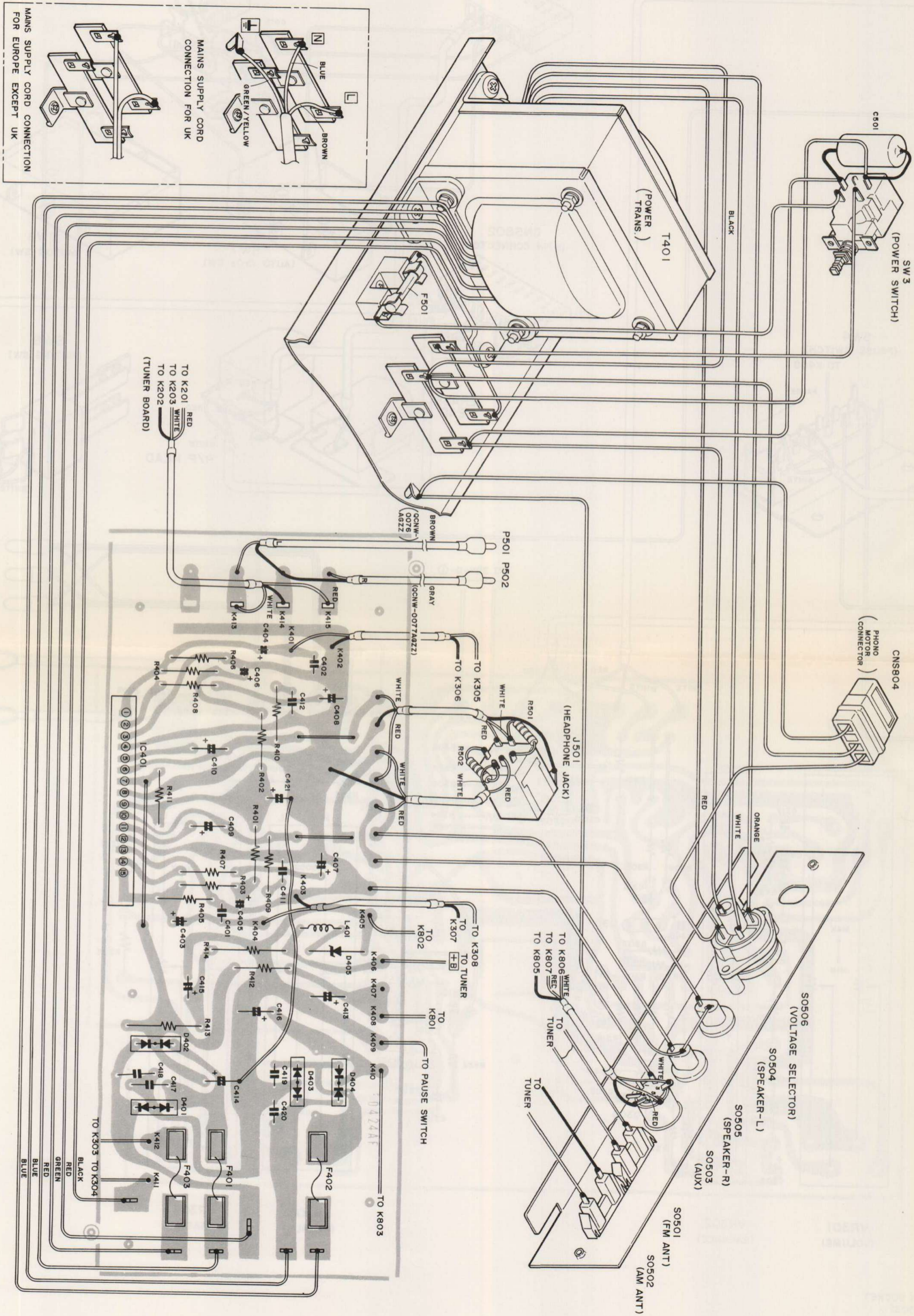


Figure 22 WIRING SIDE OF POWER AMP BOARD (SG-309H)

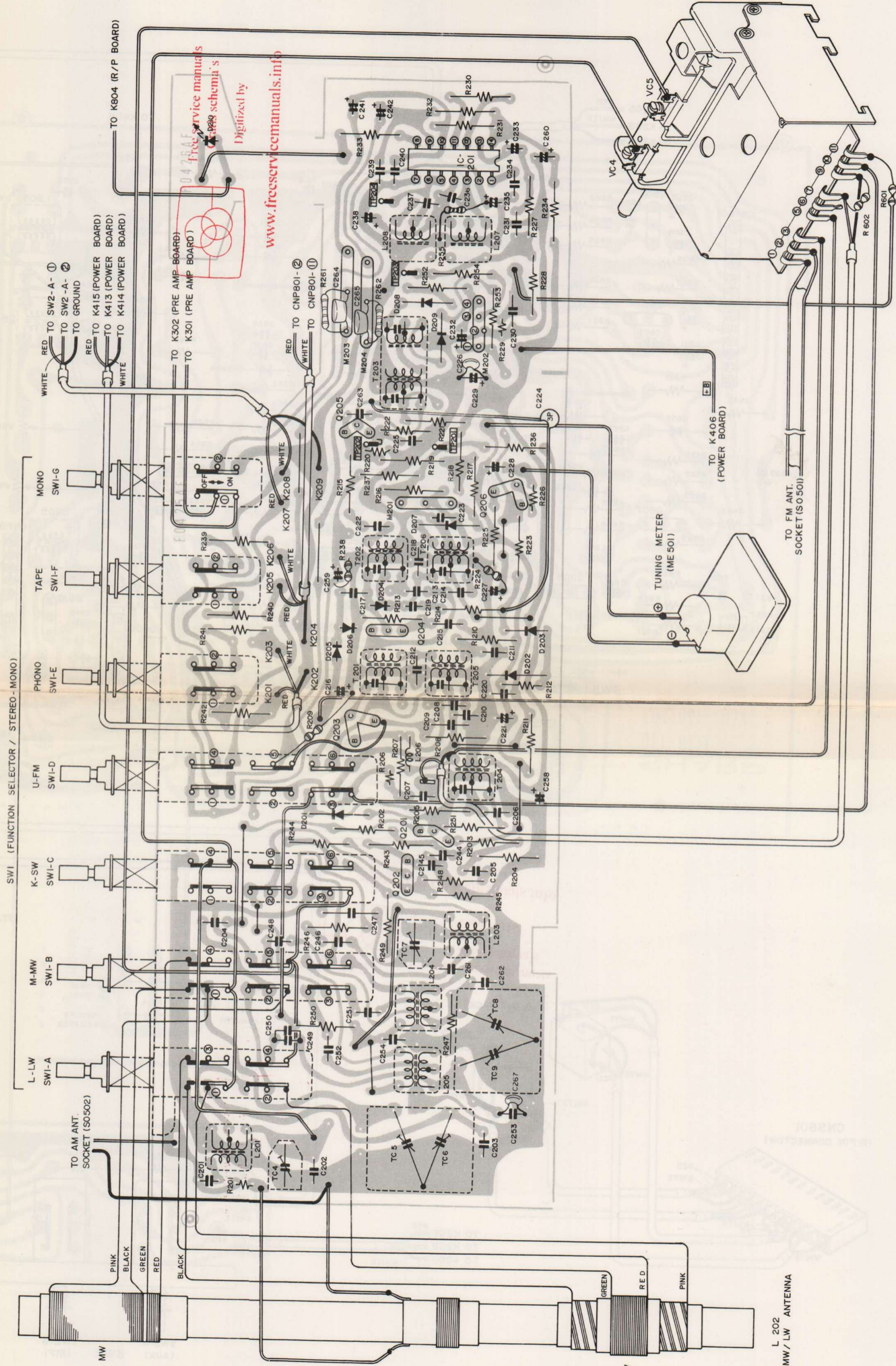
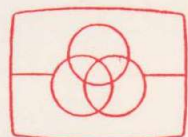
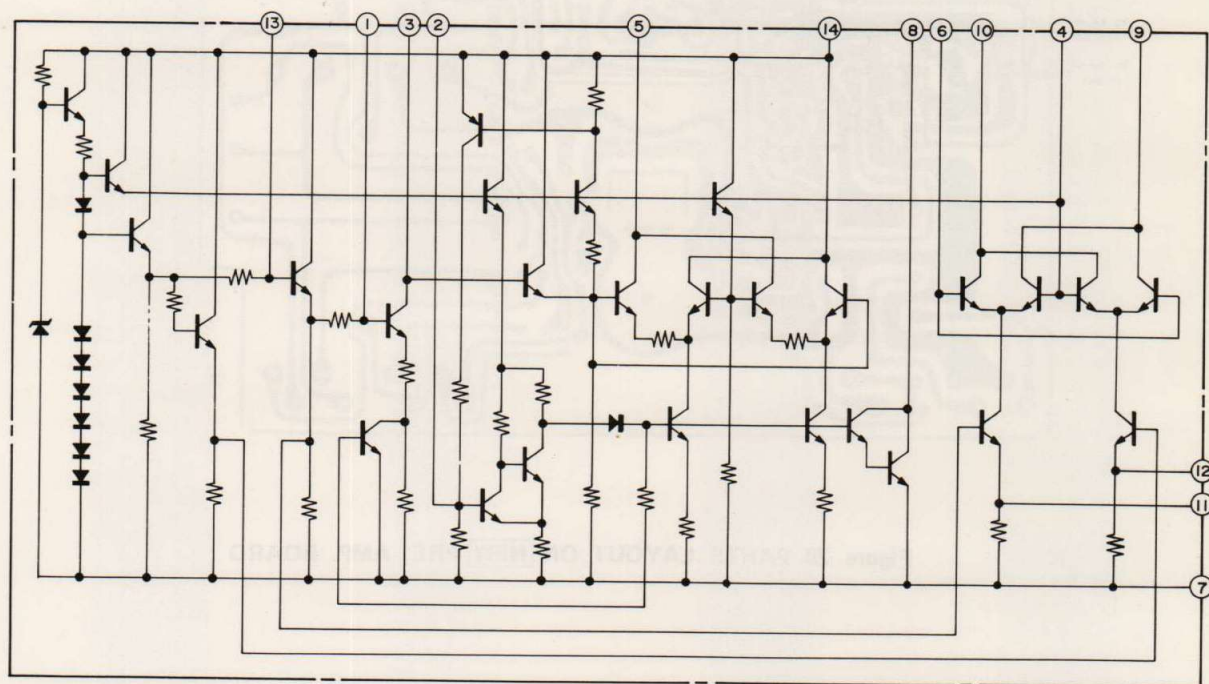


Figure 23 WIRING SIDE OF TUNER AMP BOARD (SG-309H)

IC201 (RH-IX1003AFZZ) FM MPX



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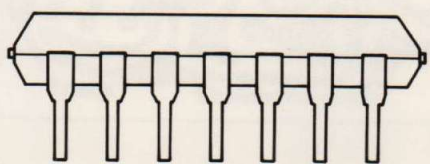
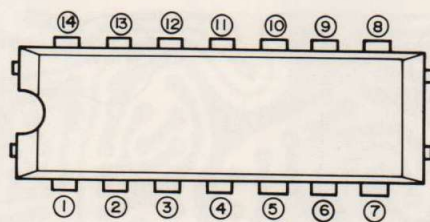


Figure 24 EQUIVALENT CIRCUIT OF IC201

IC401 (RH-IX1009AFZZ) POWER

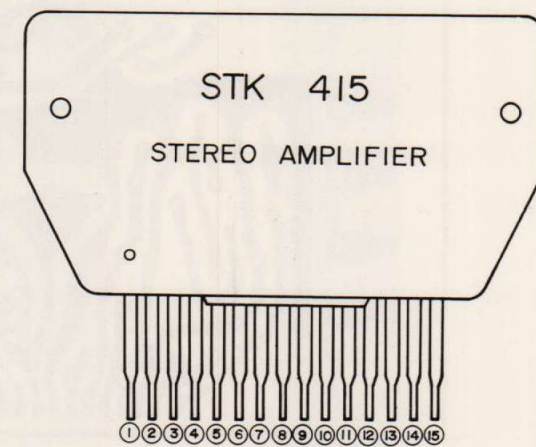
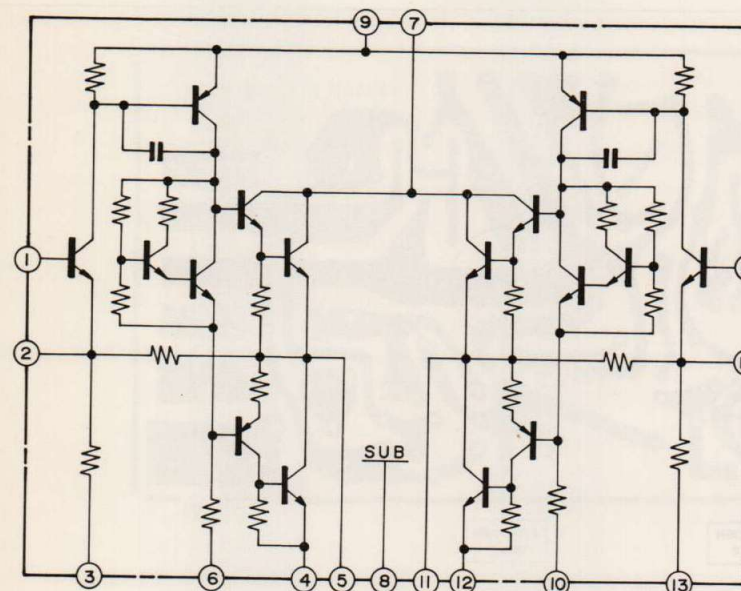
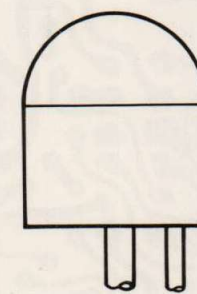


Figure 25 EQUIVALENT CIRCUIT OF IC401

LED



TRANSISTORS

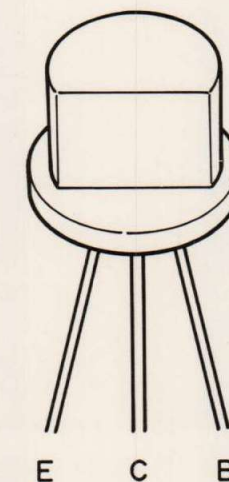


Figure 26 TERMINAL GUIDE OF TRANSISTORS AND LED

TECHNICAL INFORMATION I

As printed wiring boards used in these models have been changed to improve performance and work efficiency, also change the positions of parts illustrated in Figure 27 to Figure 30. When servicing, pay due attention to the printed wiring board.

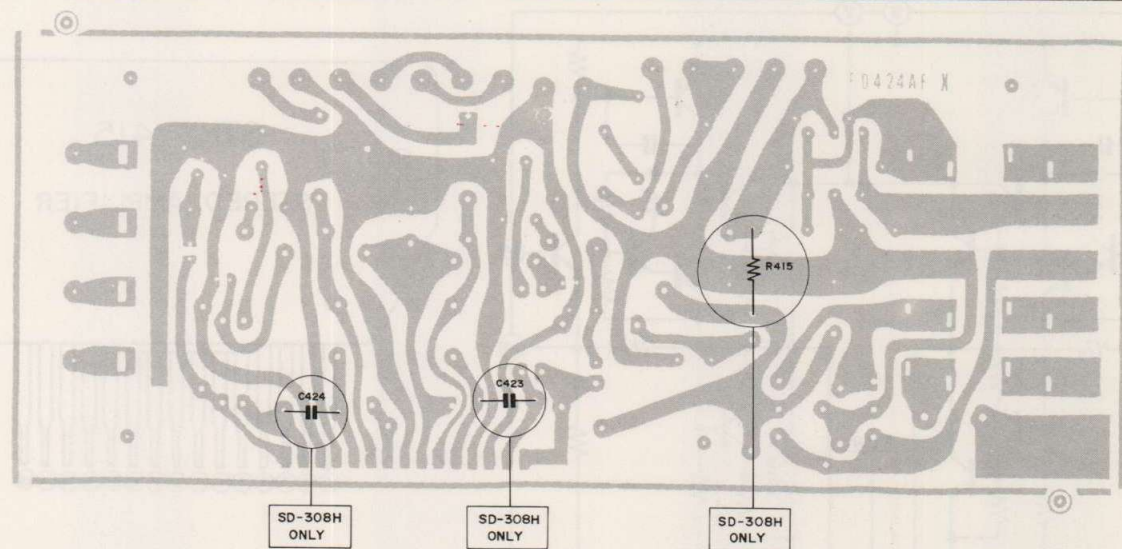


Figure 27 PARTS LAYOUT ON **NEW** POWER AMP BOARD

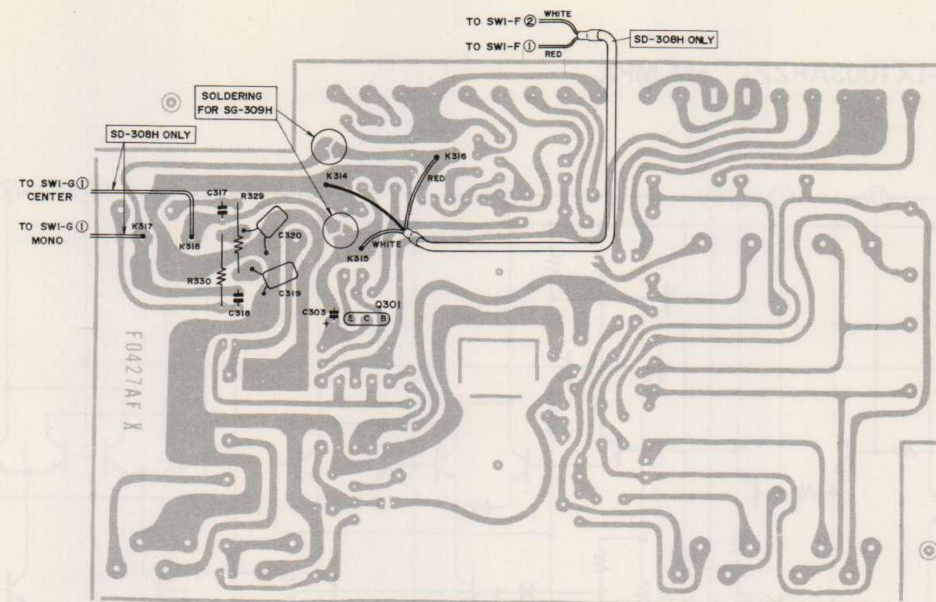


Figure 28 PARTS LAYOUT ON **NEW** PRE. AMP. BOARD

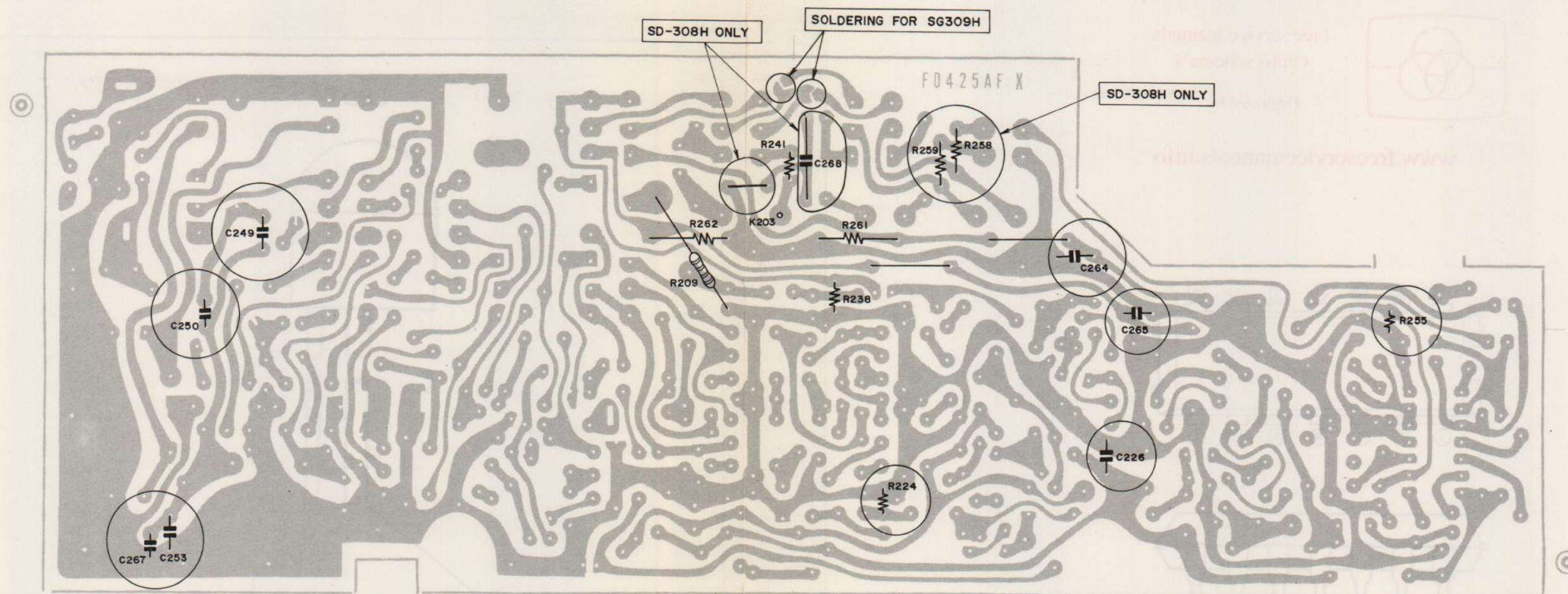


Figure 29 PARTS LAYOUT ON **NEW** TUNER AMP. BOARD

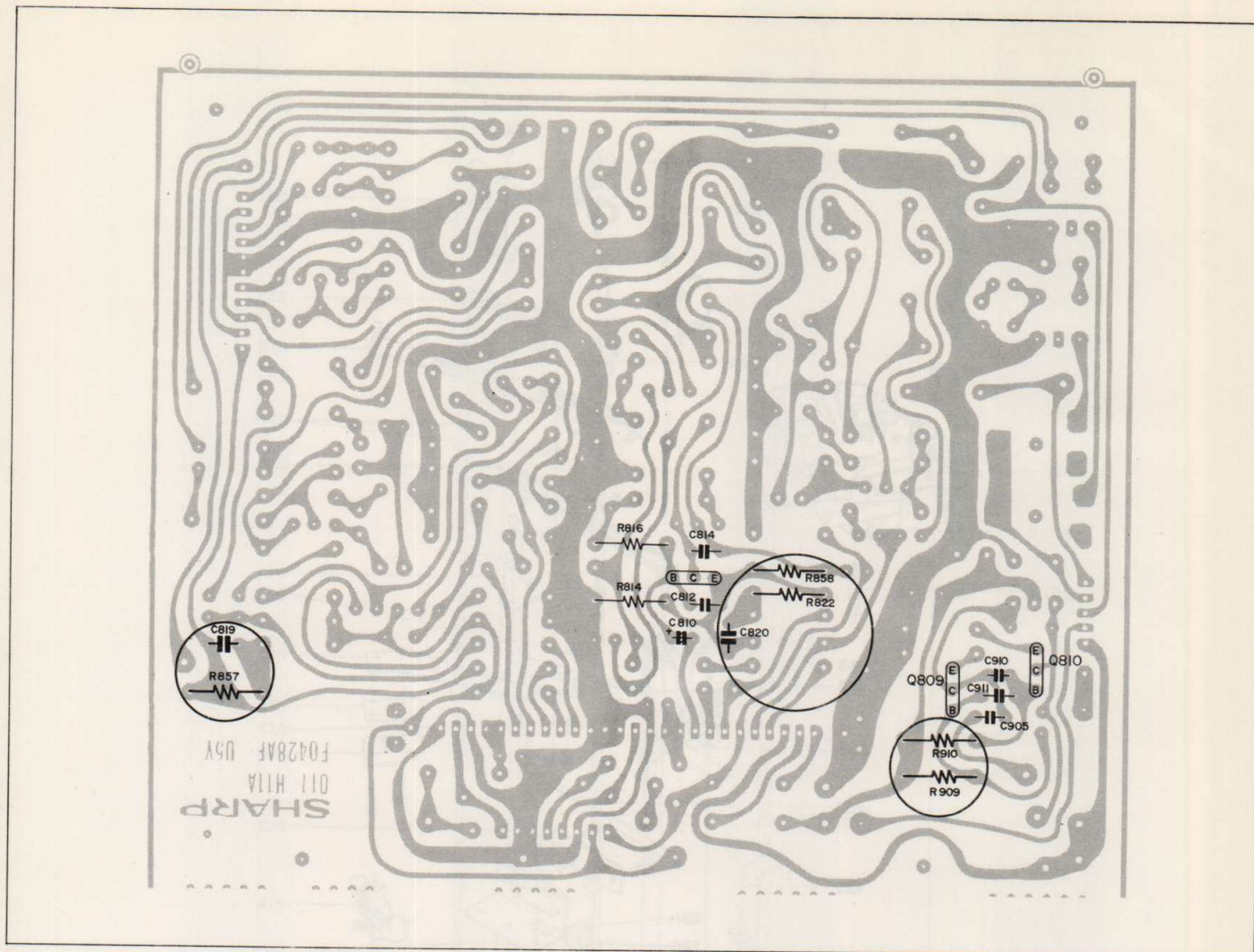


Figure 30 PARTS LAYOUT ON **NEW** TAPE DECK AMP. BOARD

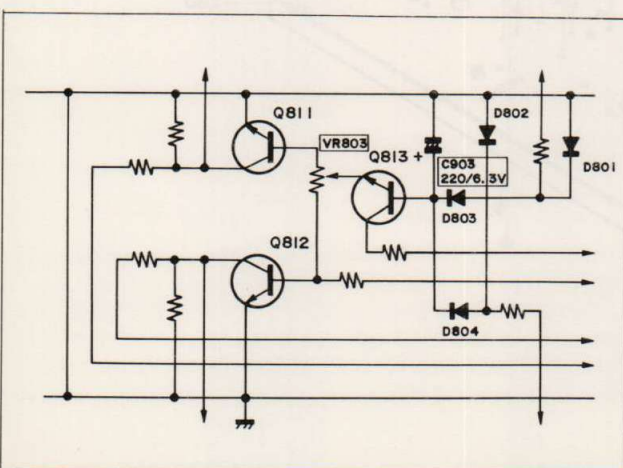


Figure 31

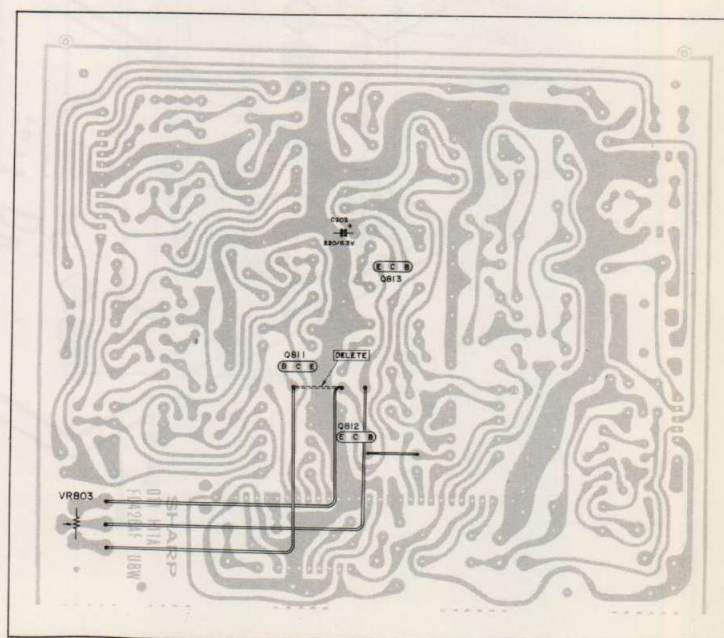


Figure 32

TECHNICAL INFORMATION II

We added the variable resistor to balance the ALC characteristic between left and right channels. Along with this change, the adjusting methods of ALC circuit, schematic diagram and parts to be used of this model are also changed as show below

■ **SCHEMATIC DIAGRAM**

Refer to Figure 31.

■ **WIRING METHOD OF PARTS**

Refer to Figure 32.

■ **PARTS LIST**

REF. NO.	PART NO.	DESCRIPTION	CODE
VR803	RVR-M0015AGZZ	Control, ALC, 10K ohm	AC
C903	VCEAAU0XW227Y	Capacitor, 220MFD, 6.3V, +50 -10%, Electrolytic	AC

■ **ALC CHARACTERISTIC ADJUSTMENT** (Refer to Figure 33)

1. Connect a 33MFD electrolytic capacitor across both terminals of the erase head to stop the bias oscillation.
2. Set the unit in record mode.
3. As shown in figure 33, connect the VTVM across 100 ohm resistors (R809, R810).
4. Rotate the variable resistor (VR803) to its mechanical center position.
5. Input 1 kHz, -70 dB and -40 dB signals to microphone jacks (J502, J503).
6. Adjust the variable resistor so that the difference of the reading on VTVM for -70 dB and -40 dB becomes 3 ± 3 dB at each channel and the difference for left and right channel becomes less than 4 dB.

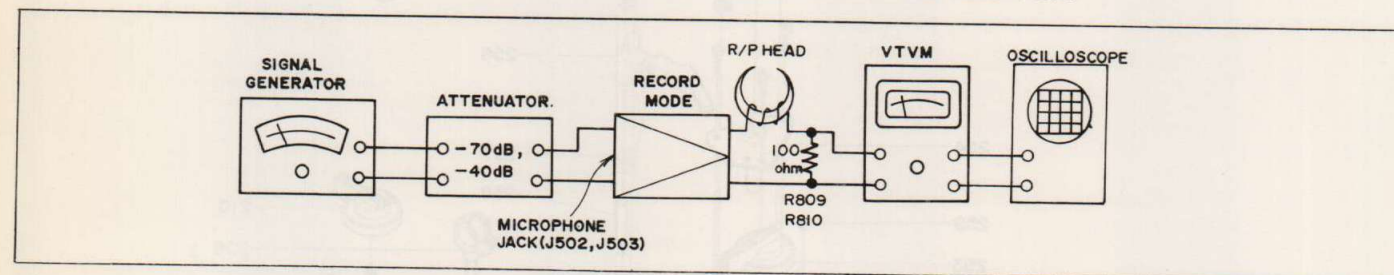


Figure 33

TECHNICAL INFORMATION III

We change the form of tuning knob and tuning shaft for easily operation. Along with this change, form and parts number are changed as shown below.

	TUNING KNOB		TUNING SHAFT	
	OLD/NEW	OLD	NEW	NEW
PART NO.		JKNBN0197AFSD	JKNBN0297AFSA	NSFTD0161AFFW
ILLUSTRATIONS				

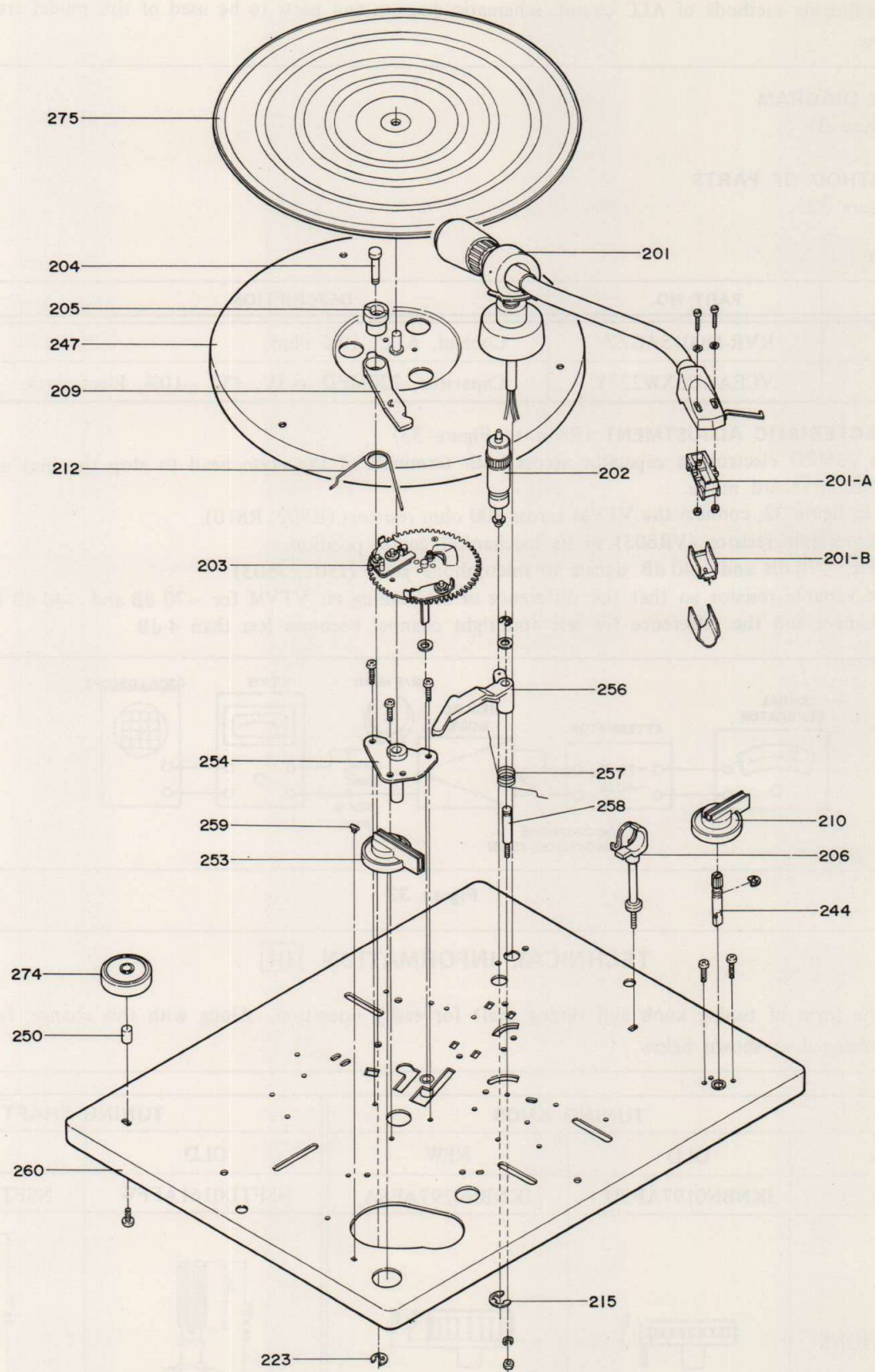


Figure 34 PLAYER EXPLODED TOP VIEW

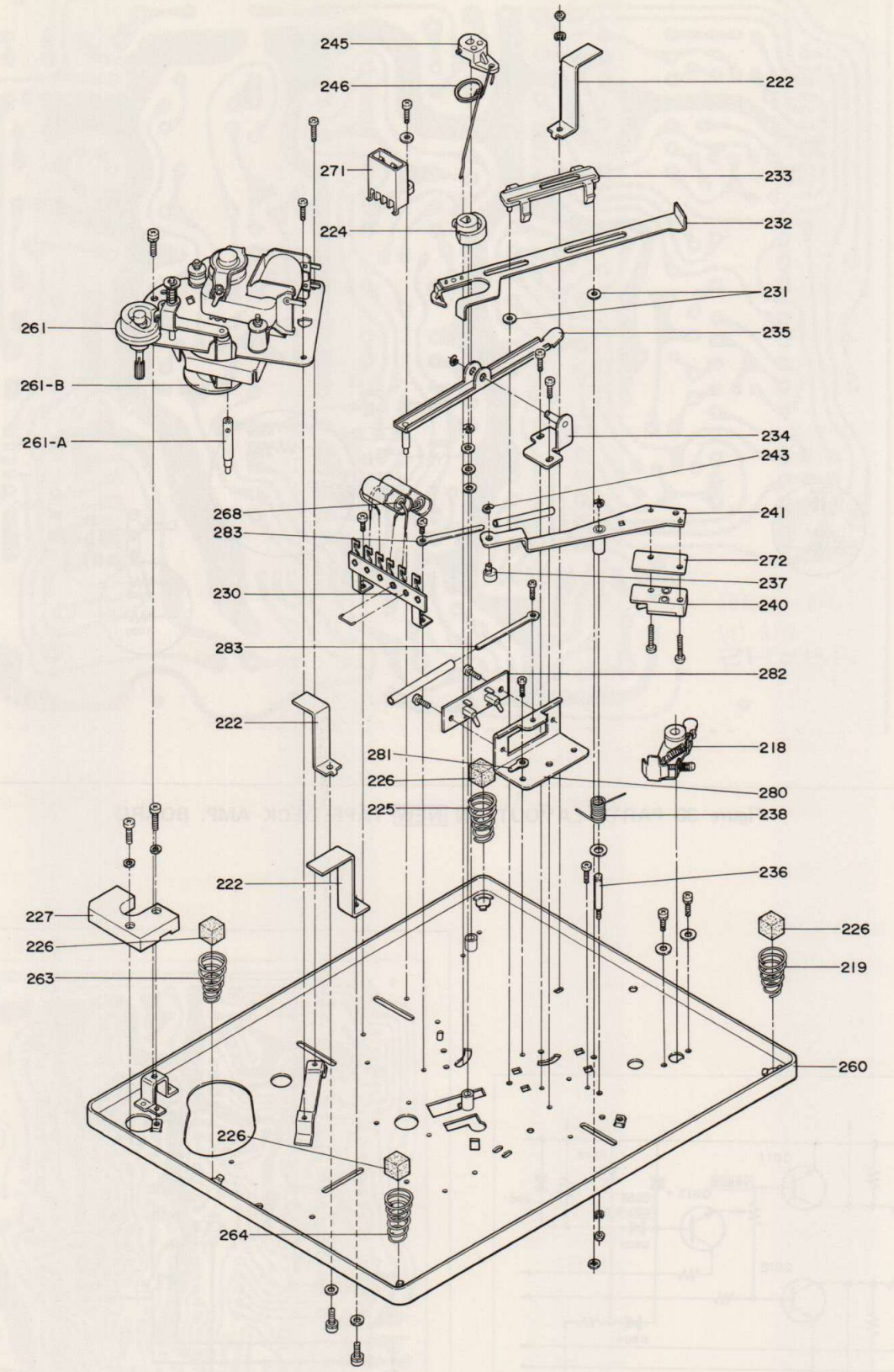


Figure 35 PLAYER EXPLODED BOTTOM VIEW

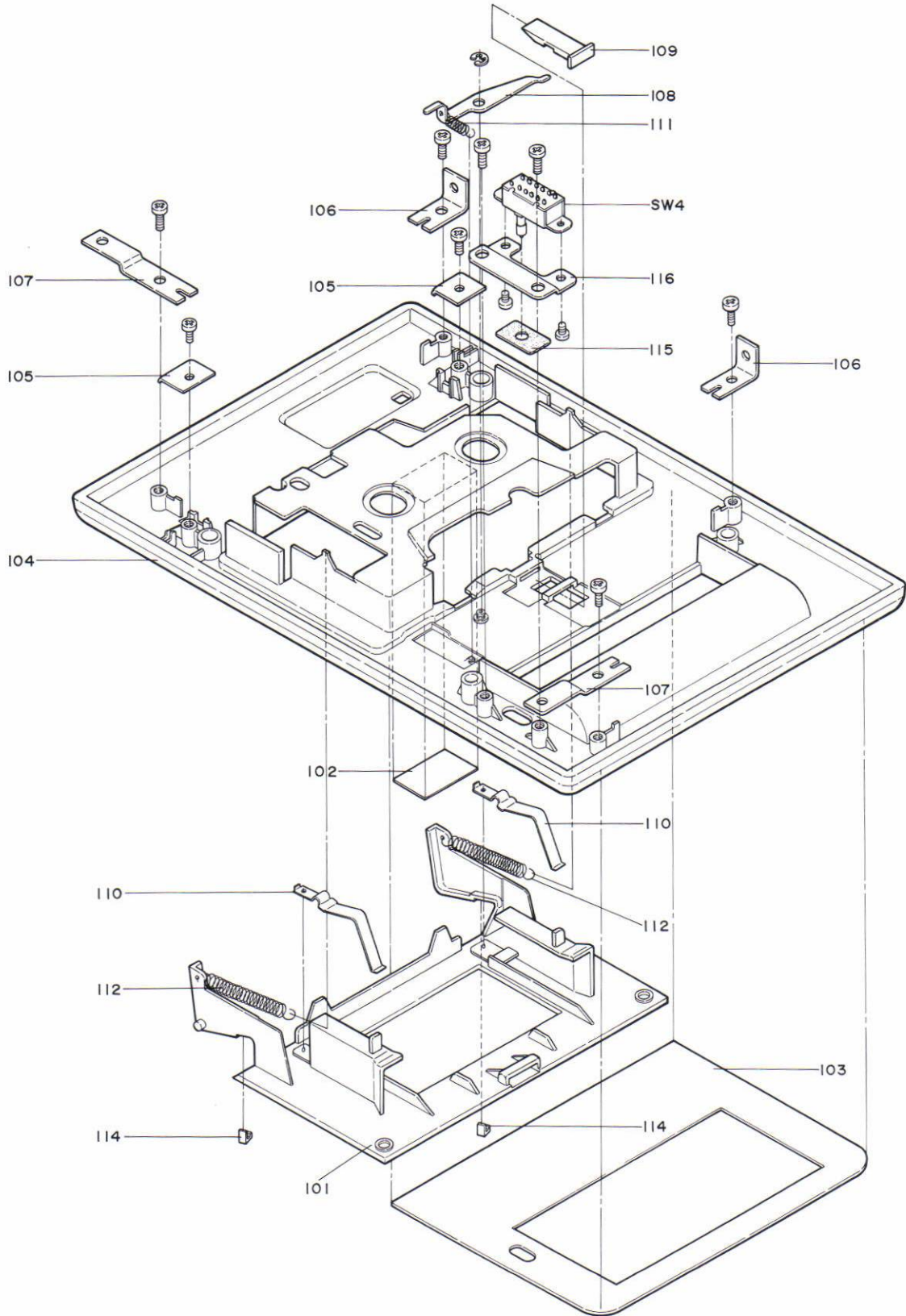
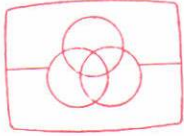


Figure 36 TAPE DECK PANEL EXPLODED VIEW (SG-309H ONLY)



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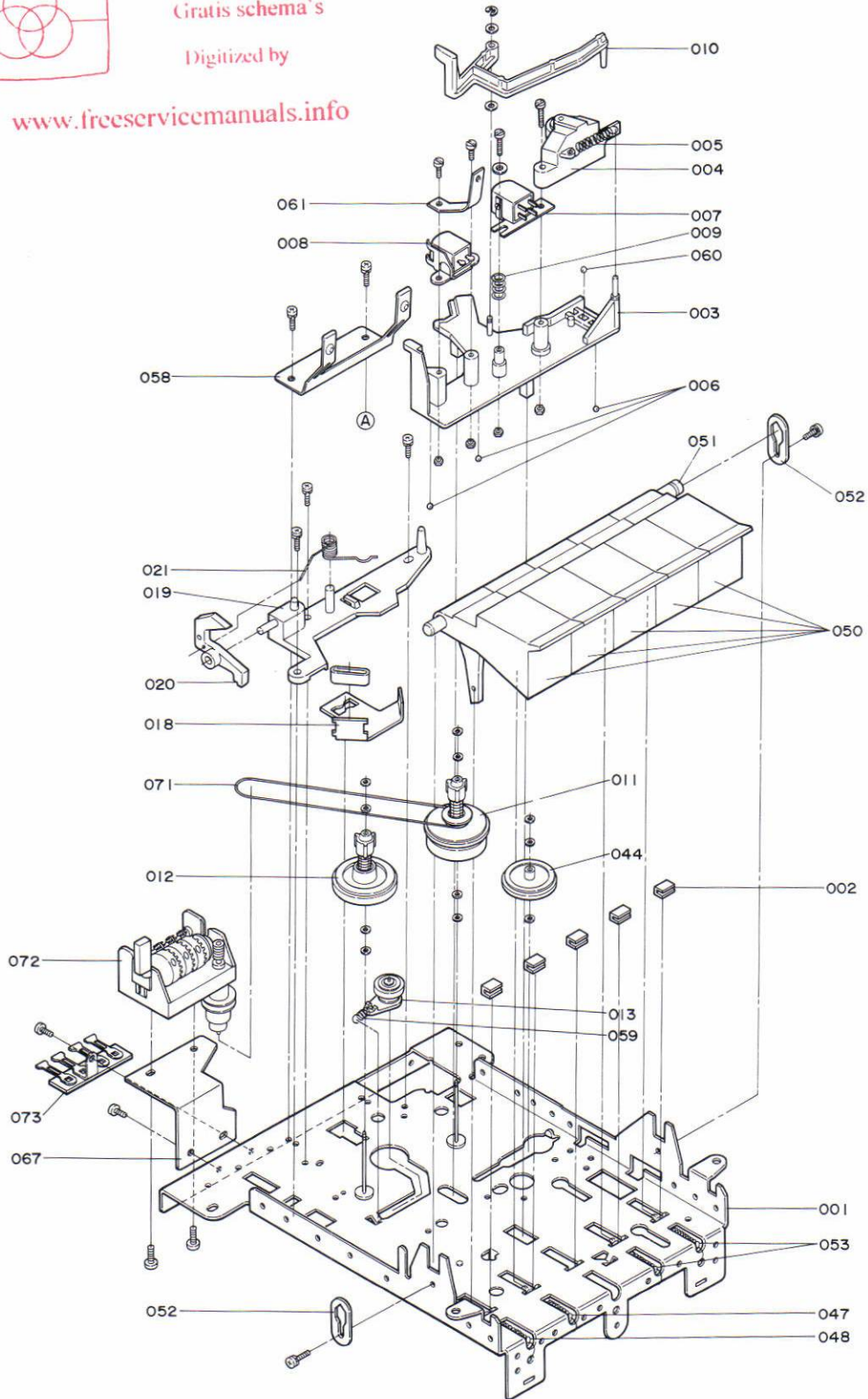


Figure 37 TAPE DECK MECHANISM EXPLODED TOP VIEW (SG-309H ONLY)

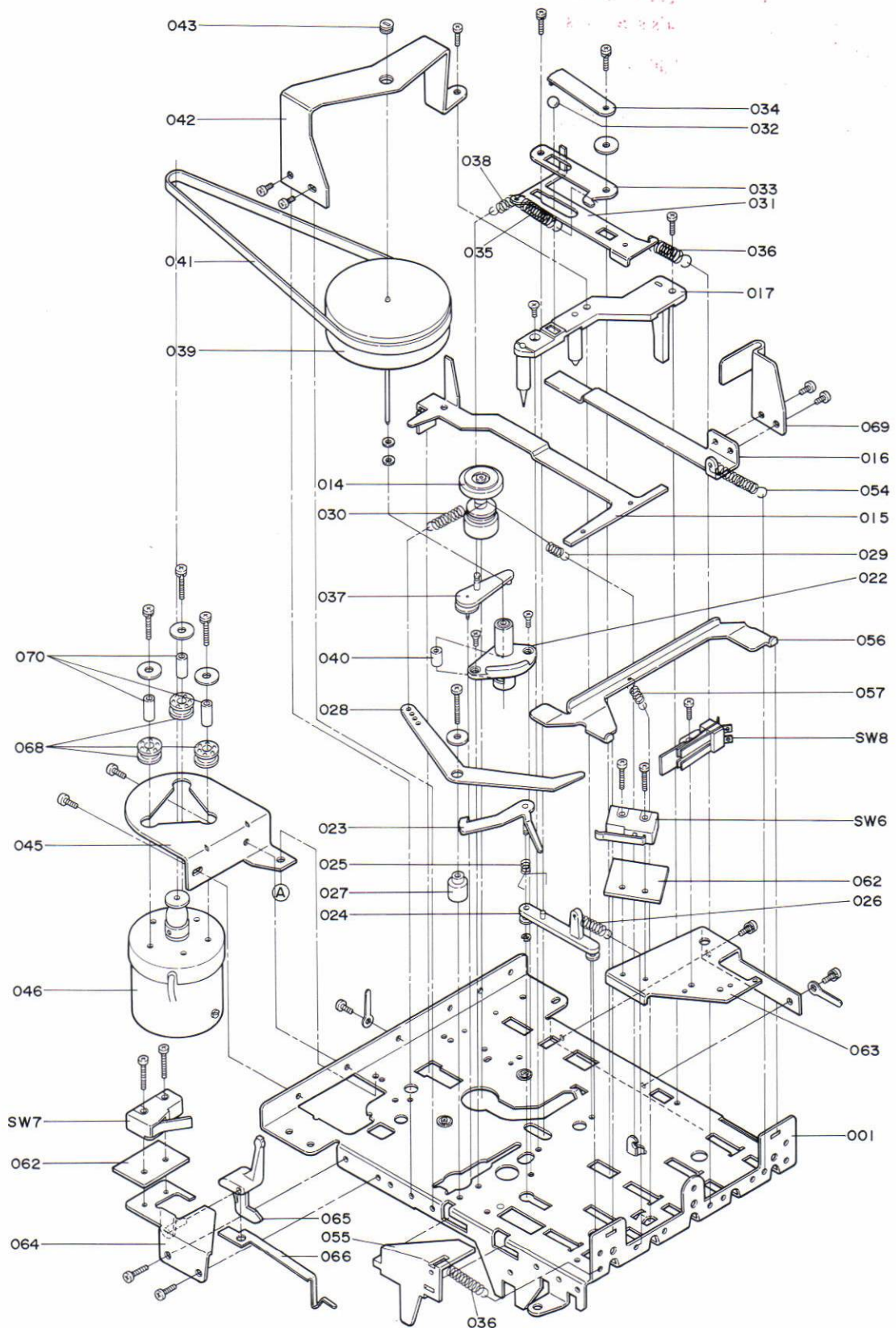


Figure 38 TAPE DECK MECHANISM EXPLODED BOTTOM VIEW (SG-309H ONLY)

MODEL
SD-308H
SG-309H

SHARP

PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
TRANSISTORS							
Q201	VS2SC380-O/-1	SW/MW/LW Mixer (2SC380Ⓒ)	AF	D404	RH-DX1003AFZZ	Rectifier, Power, SG-309H only	AD
Q202	VS2SC380-O/-1	SW/MW/LW Oscillator (2SC380Ⓒ)	AF	D405	VHECZ-122//1G	Zener	AG
Q203	VS2SC380-O/-1	1st AM/FM IF Amp. (2SC380Ⓒ)	AF	D801, D802	VHD1N60////-1	ALC, SG-309H only (1N60)	AC
Q204	VS2SC380AO/-1	2nd AM/FM IF Amp. (2SC380AⒸ)	AF	D803, D804	VHD1N60////-1	ALC, SG-309H only (1N60)	AC
Q205	VS2SC380AO/-1	3rd AM/FM IF Amp. (2SC380AⒸ)	AF	D805, D806	VHD1S2076// -1	CrO ₂ Auto Selector, SG-309H only (1S2076)	AB
Q206	VS2SC373-G/-1	Meter Drive (2SC373Ⓒ)	AF	D807, D808	VHD1S2076// -1	CrO ₂ Auto Selector, SG-309H only (1S2076)	AB
Q301, Q302, Q303, Q304	VS2SC1000BL-1	Pre Amp. (2SC1000Ⓒ)	AF	D901	VHPGL30PR// -1	Indicator, Record, Red, SG-309H only	AE
Q801, Q802	VS2SC1000GR-1	1st Audio Amp., SG-309H only (2SC1000Ⓒ)	AF	D902	VHPGL30PG// -1	Indicator, CrO ₂ Green, SG-309H only	AE
Q803, Q804	VS2SC1000GR-1	2nd Audio Amp., SG-309H only (2SC1000Ⓒ)	AF	IC (Integrated Circuit)			
Q805, Q806	VS2SC733GR/-1	3rd Audio Amp., SG-309H only (2SC733Ⓒ)	AF	IC201	RH-IX1003AFZZ	FM MPX	AM
Q807, Q808	VS2SC733GR/-1	Record Amp., SG-309H only (2SC733Ⓒ)	AF	IC401	RH-IX1009AFZZ	Power Amp.	AX
Q809, Q810	VS2SC735-Y/-1	Bias Oscillator, SG-309H only (2SC735Ⓒ)	AF	COILS			
Q811, Q812	VS2SC373-G/-1	ALC, SG-309H only (2SC373Ⓒ)	AF	L201	RCILA0365AFZZ	SW Antenna	AD
Q813	VS2SC373-G/-1	ALC, SG-309H only (2SC373Ⓒ)	AF	L202	RCILA0364AFZZ	LW/MW Antenna	AL
DIODES				L203	RCILB0366AFZZ	SW Oscillator	AD
D201	VHD1N60////-1	AM Overload (1N60)	AC	L204	RCILB0043AFZZ	MW Oscillator	AE
D202	VHVM8513A-R-1	Voltage Regulator (M8513A-R)	AC	L205	RCILB0072AFZZ	LW Oscillator	AD
D203	VHD1N60////-1	Meter Rectifier (1N60)	AC	L206	RCILC0017AFZZ	Choke	AC
D204	VHD1N60////-1	Overload (1N60)	AC	L207	RCILM0050AFZZ	FM MPX, 19 kHz Signal	AE
D205	VHD1N60////-1	FM AGC (1N60)	AC	L208	RCILM0051AFZZ	FM MPX, 38 kHz Signal	AE
D206	VHD1N60////-1	FM AGC (1N60)	AC	L401	VP-LH101K0000	Choke, 100 μH	AB
D207	VHD1N60////-1	AM Detector (1N60)	AC	L801, L802	RCILZ0019AGZZ	Peaking, 6.8 mH, SG-309H only	AD
D208, D209	VHD1N60////-3	FM Detector (Matched Pair) (1N60Ⓒ)	AB	L803, L804	RCILB0087AGZZ	Bias Trap, SG-309H only	AF
D210	VHPREDLIT503F	Light Emitting, Stereo indicator, Red	AF	L805	RCILB0085AGZZ	Bias Oscillation, SG-309H only	AE
D401	RH-DX1002AFZZ	Rectifier, Power	AE	TRANSFORMERS			
D402	RH-DX1001AFZZ	Rectifier, Power	AE	T201	RCILI0059AGZZ	2nd FM IF	AG
D403	RH-DX1004AFZZ	Rectifier, Power, SG-309H only	AD	T202	RCILI0059AGZZ	3rd FM IF	AG
				T203	RCILD0006AGZZ	FM Discriminator	AG
				T204	RCILIO135AFZZ	1st AM IF	AD
				T205	RCILIO136AFZZ	2nd AM IF	AD
				T206	TCILIO161AFZZ	3rd AM IF	AD
				T401	RTRNP0397AFZZ	Power	BA

SHARP

PARTS LIST

MODEL
SD-308H
SG-309H

REF. NO.	PART NO.	DESCRIPTION	CODE
CONTROLS			
TC4	RTO-H1004AFZZ	Trimmer, SW Antenna	AC
TC5, TC6	RTO-H2011AGZZ	Trimmer Assembly TC5: MW Antenna Trimmer TC6: LW Antenna Trimmer	AD
TC7	RTO-H1004AFZZ	Trimmer, SW Oscillator	AC
TC8, TC9	RTO-H2011AGZZ	Trimmer Assembly TC8: MW Oscillator Trimmer TC9: LW Oscillator Trimmer	AD
VR301	RVR-P0053AFZZ	Volume, 100K ohm	AL
VR302	RVR-Q0050AFZZ	Balance, 100K ohm	AH
VR303	RVR-P0052AFZZ	Treble, 100K ohm	AL
VR304	RVR-P0052AFZZ	Bass, 100K ohm	AL
VR801, VR802	RVR-M0049AGZZ	5K ohm, Bias Current Adjust, SG-309H only	AC
VR803	RVR-M0015AGZZ	ALC, 10K ohm, SG-309H only, Refer to TECHNICAL INFORMATION II on page 33	AD

PACKAGED CIRCUITS

M201	RMPTA0011AFZZ	Capristor, 470 ohm + .02MFD x 2	AC
M202	RMPTA0084AFZZ	Capristor, 4.7K ohm x 2 +330PF x 3	AC
M203, M204	RMPTA0064AFZZ	Capristor, 38kHz Filter	AE

ELECTROLYTIC CAPACITORS

(Unless otherwise specified capacitors are +50 -10%, Electrolytic type.)

C216	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C221	VCEAAU1AW107Y	100MFD, 10V	AB
C227	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C228	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C229	VCEAAU1CW227Y	220MFD, 16V	AC
C232	VCEAAU1CW106Y	10MFD, 16V	AB
C233	VCEAAU1CW106Y	10MFD, 16V	AB
C235	VCEAAU1CW106Y	10MFD, 16V	AB
C238	VCEAAU1CW106Y	10MFD, 16V	AB
C241, C242	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C258	VCEAAU1EW335A	3.3MFD, 25V, +75 -10%	AB
C259	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C260	VCEAAU1CW476Y	47MFD, 16V	AC
C301, C302	VCEALU1HW474M	.47MFD, 50V, ±20%	AB
C303, C304	VCEALU1HW104M	.1MFD, 50V, ±20%	AB
C305, C306	VCEALU1HW104M	.1MFD, 50V, ±20%	AB
C307, C308	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C403, C404	VCEAAU1HW105A	1MFD, 50V, +75 -10%	AB
C405, C406	VCEAAU1EW335A	3.3MFD, 25V, +75 -10%	AB

REF. NO.	PART NO.	DESCRIPTION	CODE
C407, C408	VCEAAU1AW227Y	220MFD, 10V	AC
C409, C410	VCEAAU1CW108Y	1000MFD, 16V	AE
C413	VCEAAU1EW477Y	470MFD, 25V (SD-308H)	AD
C413	VCEAAU1EW108Y	1000MFD, 25V (SG-309H)	AF
C414	VCEAAU1VW228Y	2200MFD, 35V	AK
C415	VCEAAU1EW227Y	220MFD, 25V	AC
C416	VCEAAU1CW108Y	1000MFD, 16V, SG-309H only	AE
C421	VCEAAU1VW107Y	100MFD, 35V	AD
C801, C802	VCEAAU1CW106Y	10MFD, 16V, SG-309H only	AB
C805, C806	VCEAAU1CW106Y	10MFD, 16V, SG-309H only	AB
C809, C810	VCEALU1CC106Y	10MFD, 16V, SG-309H only	AC
C815, C816	VCEAAU1AW107Y	100MFD, 10V, SG-309H only	AB
C817, C818	VCEAAU1CW106Y	10MFD, 16V, SG-309H only	AB
C821, C822	VCEAAU1EW475A	4.7MFD, 25V, +75 -10%, SG-309H only	AB
C825, C826	VCEAAU1CW106Y	10MFD, 16V, SG-309H only	AB
C831, C832	VCEAAU1CW106Y	10MFD, 16V, SG-309H only	AB
C901	VCEAAU1CW107Y	100MFD, 16V, SG-309H only	AC
C902	VCEAAU1EW336Y	33MFD, 25V, SG-309H only	AC
C903	VCEAAU0XW337Y	330MFD, 6.3V, SG-309H only	AC
C904	VCEAAU1EW227Y	220MFD, 25V, SG-309H only	AC
C913	VCEAAU1CW227Y	220MFD, 16V, SG-309H only	AC
C914	VCEAAU1CW107Y	100MFD, 16V, SG-309H only	AC

CAPACITORS

(Unless otherwise specified capacitors are 50V, ±10%, Mylar type.)

C201	VCCSBU1HL820J	82PF, 50V, ±5%, Ceramic	AA
C202	VCCSPU1HL120J	12PF, 50V, ±5%, Ceramic	AA
C203	VCCSBU1HL560J	56PF, 50V, ±5%, Ceramic	AA
C204	VCKZPU1HF223Z	.022MFD, 50V, +80 -20%, Ceramic	AA
C205, C206	VCQYKU1HM223K	.022MFD	AB
C207	VCCSBU1HL151J	150PF, 50V, ±5%, Ceramic	AA
C208	VCCSPU1HL1R0C	1PF, 50V, ±.25PF, Ceramic	AA
C209	VCKZPU1HF403Z	.04MFD, 50V, +80 -20%, Ceramic	AB
C210	VCQYKU1HM223K	.022MFD	AB
C211	VCKZPU1HF223Z	.022MFD, 50V, +80 -20%, Ceramic	AA
C212	VCQYKU1HM222M	.0022MFD, 50V, ±20%, Mylar	AB
C213, C214	VCCSPU1HL1R0C	1MFD, 50V, ±.25PF, Ceramic	AA
C215	VCKZPU1HF403Z	.04MFD, 50V, +80 -20%, Ceramic	AB
C217	VCCSPU1HL100C	10PF, 50V, ±.25PF, Ceramic	AA
C218	VCCSBU1HL331J	330PF, 50V, ±5%, Ceramic	AA
C219	VCCSPU1HL680K	68PF, 50V, ±10%, Ceramic	AA
C220	VCQYKU1HM223K	.022MFD	AB

MODEL
SD-308H
SG-309H

SHARP

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
C222	VCKZPU1HF103Z	.01MFD, 50V, +80 -20%, Ceramic	AA	C807, C808	VCKZPU1HB102K	.001MFD, 50V, ±10%, Ceramic, SG-309H only	AB
C223	VCKZPU1HF223Z	.022MFD, 50V, +80 -20%, Ceramic	AA	C811, C812	VCCSPU1HL151K	150PF, 50V, ±10%, Ceramic, SG-309H only	AA
C224	VCCSPU1HL3R0C	3PF, 50V, ±.25PF, Ceramic	AA	C813, C814	VCCSPU1HL101K	100PF, 50V, ±10%, Ceramic, SG-309H only	AA
C225, C226	VCKZPU1HF223Z	.022MFD, 50V, +80 -20%, Ceramic	AA	C819, C820	VCQYKU1HM393K	.039MFD, SG-309H only	AC
C230	VCQYKU1HM104K	.1MFD	AC	C823, C824	VCQYKU1HM473K	.047MFD, SG-309H only	AC
C231	VCCSBU1HL681J	680PF, 50V, ±5%, Ceramic	AA	C827, C828	VCQYKU1HM223J	.022MFD, 50V, ±5%, Mylar, SG-309H only	AC
C234	VCQYKU1HM152K	.0015MFD	AB	C829, C830	VCQYKU1HM153K	.015MFD, SG-309H only	AB
C236	VCQSMT1HS103J	10000PF, 50V, ±5%, Styrol	AC	C833, C834	VCCSPU1HL681K	680PF, 50V, ±10%, Ceramic, SG-309H only	AA
C237	VCQSMT1HS222J	2200PF, 50V, ±5%, Styrol	AB	C905	VCQYKU1HM223J	.022MFD, 50V, ±5%, Mylar, SG-309H only	AC
C239, C240	VCQYKU1HM272K	.0027MFD	AB	C906	VCQYKU1HM823K	.082MFD, SG-309H only	AC
C244	VCKZPU1HF223Z	.022MFD, 50V, +80 -20%, Ceramic	AA	C907	VCQYKU1HM822K	.0082MFD, SG-309H only	AB
C245	VCQYKU1HM223K	.022MFD	AB	C910	VCQYKU1HM822K	.0082MFD, SG-309H only	AB
C246	VCQYKU1HM102K	.001MFD	AB	C911	VCQYKU1HM822K	.0082MFD, SG-309H only	AB
C247	VCQSMT1HS332J	3300PF, 50V, ±5%, Styrol	AB	C912	VCKZPU1EF103Z	.01MFD, 25V, +80 -20%, Ceramic, SG-309H only	AC
C248	VCCSBU1HL331J	330PF, 50V, ±5%, Ceramic	AA	C915	VCKZPU1HF403Z	.04MFD, 50V, +80 -20%, Ceramic, SG-309H only	AB
C249	VCCSBU1HL181J	180PF, 50V, ±5%, Ceramic	AA				
C250	VCCSPU1HL220J	22PF, 50V, ±5%, Ceramic	AA				
C251	VCQYKU1HM223K	.022MFD	AB				
C252	VCQYKU1HM473K	.047MFD	AC				
C253	VCCSBU1HL151J	150PF, 50V, ±5%, Ceramic	AA				
C254	VCQYKU1HM103K	.01MFD	AB				
C261	VCCSPU1HL6R0C	6PF, 50V, ±.25PF, Ceramic	AA				
C262	VCCSPU1HL5R0C	5PF, 50V, ±.25PF, Ceramic	AA				
C263	VCCSPU1HL1R0C	1PF, 50V, ±.25PF, Ceramic	AA				
C264, C265	VCQYKU1HM102K	.001MFD	AB				
C267	VCCSPU1HL100C	10PF, 50V, ±.25PF, Ceramic	AA				
C268	VCKZPU1EF104K	Shield, SD-308H only	AB				
C309, C310	VCQYKU1HM152K	.0015MFD	AB				
C311, C312	VCQYKU1HM103K	.01MFD	AB				
C313, C314	VCQYKU1HM103K	.01MFD	AB				
C315, C316	VCQYKU1HM823K	.082MFD	AC				
C317, C318	VCCSPU1HL221K	220PF, 50V, ±10%, Ceramic	AB				
C319, C320	VCQYKU1HM273K	.027MFD	AB				
C401, C402	VCCSPU1HL271K	270PF, 50V, ±10%, Ceramic	AB				
C411, C412	VCQYKU1HM473M	.047MFD, 50V, ±20%, Mylar	AC				
C417, C418	VCKZPU1HF333P	.033MFD, 50V, +100 -0%, Ceramic	AB				
C419, C420	VCKZPU1HF333P	.033MFD, 50V, +100 -0%, Ceramic, SG-309H only	AB				
C423, C424	VCCSBU1HL681K	680PF, 50V, ±10%, Ceramic, SD-308H only	AA				
C501	VCPOAT3AC473M	.047MFD, 1000V, ±20%, Oil	AD				
C701, C702	891575	.047MFD, 630V					
C803, C804	VCCSPU1HL151K	150PF, 50V, ±10%, Ceramic, SG-309H only	AA				

RESISTORS

(Unless otherwise specified resistors are 1/4W, ±5%, Carbon type.)

R201	VRD-SU2EY562J	5.6K ohm	AA
R202	VRD-ST2EE682J	6.8K ohm	AA
R203	VRD-ST2EE4R7J	4.7 ohm	AA
R204	VRD-ST2EE222J	2.2K ohm	AA
R205	VRD-ST2EE221J	220 ohm	AA
R206	VRD-SU2EY823J	82K ohm	AA
R207	VRD-ST2EE470J	47 ohm	AA
R208	VRD-ST2EE332J	3.3K ohm	AA
R209	VRD-SU2EY122J	1.2K ohm	AA
R210	VRD-ST2EE562J	5.6K ohm	AA
R211	VRD-ST2EE332J	3.3K ohm	AA
R212	VRD-SU2EY271J	270 ohm	AA
R213	VRD-ST2EE331J	330 ohm	AA
R214	VRD-ST2EE272J	2.7K ohm	AA
R215	VRD-ST2EE101J	100 ohm	AA
R216	VRD-ST2EE103J	10K ohm	AA
R217	VRD-ST2EE224J	220K ohm	AA
R218	VRD-ST2EE102J	1K ohm	AA
R219	VRD-ST2EE223J	22K ohm	AA
R220	VRD-SU2EY123J	12K ohm	AA
R221	VRD-ST2EE102J	1K ohm	AA
R222	VRD-ST2EE122J	1.2K ohm	AA
R223	VRD-ST2EE473J	47K ohm	AA
R224	VRD-SU2EY823J	82K ohm	AA
R225	VRD-ST2EE681J	680 ohm	AA
R226	VRD-SU2EY222J	2.2K ohm	AA
R227	VRD-ST2EE103J	10K ohm	AA
R228	VRD-ST2EE105J	1 Meg ohm	AA
R229	VRD-SU2EY474J	470K ohm	AA
R230	VRD-ST2EE103J	10K ohm	AA
R231, R232	VRD-ST2EE822J	8.2K ohm	AA

SHARP

PARTS LIST

MODEL
SD-308H
SG-309H

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
R233	VRD-ST2EE222J	2.2K ohm, SG-309H only	AA	R335,	VRD-ST2EE183J	18K ohm	AA
R234	VRD-ST2EE470J	47 ohm	AA	R336			
R236	VRD-ST2EE153J	15K ohm	AA	R337,			
R237	VRD-ST2EE103J	10K ohm	AA	R338	VRD-ST2EE332J	3.3K ohm	AA
R238	VRD-SU2EY182J	1.8K ohm	AA	R401,			
R239,	VRD-ST2EE183J	18K ohm, SD-308H	AA	R402	VRD-ST2EE184J	180K ohm	AA
R240							
R239,	VRD-ST2EE332J	3.3K ohm, SG-309H	AA	R403,			
R240						R404	VRD-ST2EE394J
R241	VRD-SU2EY105J	1 Meg ohm	AA	R405,			
R242	VRD-ST2EE105J	1 Meg ohm	AA	R406	VRD-ST2EE224J	220K ohm	AA
R243	VRD-ST2EE682J	6.8K ohm	AA	R407,			
R244	VRD-ST2EE471J	470 ohm	AA	R408	VRD-ST2EE560J	56 ohm	AA
R245	VRD-ST2EE821J	820 ohm	AA	R409,			
R246	VRD-ST2EE4R7J	4.7 ohm	AA	R410	VRD-ST2EE4R7J	4.7 ohm	AA
R247	VRD-ST2EE333J	33K ohm	AA	R411	RR-XZ1006AFZZ	100 ohm, 1/4W, Fusible	AB
R248	VRD-ST2EE4R7J	4.7 ohm	AA	R412	VRD-ST2EE222J	2.2K ohm, SD-308H	AA
R249	VRD-ST2EE332J	3.3K ohm	AA	R412	VRD-ST2EE821J	820 ohm, SG-309H	AA
R250	VRD-ST2EE101J	100 ohm	AA	R413	RR-XZ1007AFZZ	180 ohm, 1/2W, Fusible	AB
R251	VRD-ST2EE224J	220K ohm	AA	R414	VRS-PT3AB181K	180 ohm, 1W, ±10%, Oxide Film	AB
R252,	VRD-ST2EE102J	1K ohm	AA	R415	VRD-ST2EE332J	3.3K ohm, SD-308H only	AA
R253						R416	VRD-ST2EY562J
R254	VRD-ST2EE101J	100 ohm	AA	R501,			
R255	VRD-SU2EY391J	390 ohm	AA	R502	VRC-MT2HG271J	270 ohm, 1/2W, ±5%, Carbon	AB
R258,	VRD-SU2EY272J	2.7K ohm, SD-308H only	AA	R601	VRD-ST2EY474J	470K ohm	AA
R259						R602	VRD-ST2EY221J
R261,	VRD-ST2EE333J	33K ohm	AA	R801,			
R262						R802	VRD-ST2EE105J
R301,	VRD-ST2EE332J	3.3K ohm	AA	R803,			
R302						R804	VRD-ST2EE222J
R303,	VRD-ST2EE155J	1.5 Meg ohm	AA	R805,			
R304						R806	VRD-ST2EE121J
R305,	VRD-ST2EE823J	82K ohm	AA	R807,			
R306						R808	VRD-ST2EE104J
R307,	VRD-ST2EE153J	15K ohm	AA	R809,			
R308						R810	VRD-ST2EE101J
R309,	VRD-ST2EE561J	560 ohm	AA	R811,			
R310						R812	VRD-ST2EE104J
R311,	VRD-ST2EE223J	22 K ohm	AA	R813,			
R312						R814	VRD-ST2EE101J
R313,	VRD-ST2EE474J	470K ohm	AA	R815,			
R314						R816	VRD-ST2EE104J
R315,	VRD-ST2EE104J	100K ohm	AA	R817,			
R316						R818	VRD-ST2EE332J
R317,	VRD-ST2EE153J	15K ohm	AA	R819,			
R318						R820	VRD-ST2EE221J
R319,	VRD-ST2EE681J	680 ohm	AA	R821,			
R320						R822	VRD-ST2EE272J
R321,	VRD-ST2EE563J	56K ohm	AA	R823,			
R322						R824	VRD-ST2EE334J
R323,	VRD-ST2EE562J	5.6K ohm	AA	R825,			
R324						R826	VRD-ST2EE683J
R325,	VRD-ST2EE153J	15K ohm	AA	R827,			
R326						R828	VRD-ST2EE104J
R327,	VRD-ST2EE823J	82K ohm	AA	R829,			
R328						R830	VRD-ST2EE123J
R329,	VRD-ST2EE682J	6.8K ohm	AA	R831,			
R330						R832	VRD-ST2EE684J
R331,	VRD-ST2EE564J	560K ohm, SD-308H only	AA	R833,			
R332						R834	VRD-ST2EE273J
R333,	VRD-ST2EE823J	82K ohm, SD-308H only	AA	R835,			
R334						R836	VRD-ST2EE124J

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REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
R837, R838	VRD-ST2EE682J	6.8K ohm, SG-309H only	AA	SW2 (A, B)	QSW-P0117AFZZ	Push Switch Assembly, SG-309H only SW2-A: AUX Switch SW2-B: RIF Switch	AH
R839, R840	VRD-ST2EE222J	2.2K ohm, SG-309H only	AA				
R841, R842	VRD-ST2EE103J	10K ohm, SG-309H only	AA	SW3	QSW-P0119AFZZ	Switch, Power	AM
R843, R844	VRD-ST2EE153J	15K ohm, SG-309H only	AA	SW4	QSW-S0153AFZZ	Switch, Pause, SG-309H only	AG
R845, R846	VRD-ST2EE103J	10K ohm, SG-309H only	AA	SW5	QSW-S0163AFZZ	Switch, Record/Playback, SG-309H only	AK
R847, R848	VRD-ST2EE822J	8.2K ohm, SG-309H only	AA	SW6	QSW-M0012AGZZ	Switch, Motor, SG-309H only	AF
R849, R850	VRD-ST2EE684J	680K ohm, SG-309H only	AA	SW7	QSW-M0050AFZZ	Switch, Auto CrO ₂ , SG-309H only	AG
R851, R852	VRD-ST2EE472J	4.7K ohm, SG-309H only	AA	SW8	QSW-F0101AFZZ	Switch, Muting, SG-309H only	AE
R853, R854	VRD-ST2EE473J	47K ohm, SG-309H only	AA	F401	QFS-C202CAGNI	Fuse, 2A	AE
R855, R856	VRD-ST2EE222J	2.2K ohm, SG-309H only	AA	F402	QFS-C321CAGNI	Fuse, 315mA, SG-309H only	AE
R857, R858	VRD-ST2EE393J	39K ohm, SG-309H only	AA	F403	QFS-C102AAGNI	Fuse, 1A	AE
R901	VRD-ST2EE473J	47K ohm, SG-309H only	AA	F501	QFS-C102CAGNI	Fuse, 1A	AE
R902	VRD-ST2EE101J	100 ohm, SG-309H only	AA	PL1, PL2, PL3	RLMPM0019AG01	Lamp, Dial Illumination, Meter Illumination	AE
R903, R904	VRD-ST2EE103J	10K ohm, SG-309H only	AA				
R905	VRD-ST2EE222J	2.2K ohm, SG-309H only	AA	CNP801	QCNCM1201AGZZ	Connector Plug, 12-Pin	AE
R906	RR-XZ1005AFZZ	33 ohm, 1/4W, Fusible, SG-309H only	AB	CNP802	QCNCM0902AGZZ	Connector Plug, 9-Pin	AE
R907, R908	VRD-ST2EE330J	33 ohm, SG-309H only	AA	CNP803	QCNCM0604SGZZ	Connecting Plug, 6-Pin	AD
R909, R910	VRD-ST2EE104J	100K ohm, SG-309H only	AA	CNS801	QCNCW1201AGZZ	Connecting Socket, 12-Pin	SG-309H only AC
R913	VRD-ST2EE1R0J	1 ohm, SG-309H only	AA	CNS802	QCNCW0902AGZZ	Connecting Socket, 9-Pin	AC
R914	VRD-ST2EE821J	820 ohm, SG-309H only	AA	CNS803	QCNCW0603SGZZ	Connecting Socket, 6-Pin	AB
R915	VRD-ST2EE681J	680 ohm, SG-309H only	AA	CNS804	QPLGI0415AGZZ	Connecting Socket, Phono Motor	AD
MISCELLANEOUS				ME501	RMTRE0053AFZZ	Meter, Tuning	AQ
J501	QJAKJ0001SGZZ	Jack, Headphones	AG		QACCB0050AF0V	Power Supply Cord (BS)	AM
J502, J503	QJAKE0001SGZZ	Jack, Microphone, SG-309H only	AG		LBSHC0002AGZZ	Bushing, BS Power Cord	AB
SO501	QSOCJ0204SEZZ	Socket, FM Antenna Terminal	AD		QACCS9001SE00	Power Supply Cord (SEV)	AG
SO502	QSOCJ0205SEZZ	Socket, AM Antenna Terminal	AD		LBSHC0007AFZZ	Bushing, SEV Power Cord	AB
SO503	QSOCD0501SEZZ	Socket, AUX (SG-309H) REC/PB (SD-308H)	AD		QACCV0001AGZZ	Power Supply Cord (KEMA)	AN
SO504, SO505	QSOCD0201SEZZ	Socket, Speaker Output	AD		QACCN0001AGZZ	Power Supply Cord (SEMKO)	AP
SO506	QSOCE0410AGZZ	Socket, Voltage Selector	AH		LBSHC0004AGZZ	Bushing, KEMA/SEMKO Power Cord	AC
SW1 (A ~ G)	QSW-P0118AFZZ	Push Switch Assembly SW1-A: LW Switch SW1-B: MW Switch SW1-C: SW Switch SW1-D: FM Switch SW1-E: PHONO Switch SW1-F: TAPE Switch SW1-G: STEREO/MONO Switch	AT		QPLGA0205AGZZ	Plug, SEV Power Supply Cord	AK
					GCAB-5074AFSA	Cabinet, Grained Wood	SD-308H BL
					GCAB-5074AFSB	Cabinet, Black	BL
					GCAB-5070AFSA	Cabinet, Grained Wood	SG-309H BM
					GCAB-5070AFSB	Cabinet, Black	BM
					GCOVA1060AFSA	Dust Cover, SD-308H	BE
					GCOVA1057AFSA	Dust Cover, SG-309H	BF
					GCOVD9001AFZZ	Cover, Panel Slit	AC
					HDALP0326AFSA	Dial, Tuning	AN
					HDAP-0155AFSA	Plate, Tuning Dial Back, Black	AF
					HINDM1043AFSA	Indication Metal, Model No. SD-308H	AB
					HINDM1015AFSA	Indication Metal, Model No. SG-309H	AA
					HPNLC1206AFSA	Panel, Volume/Tuning/ Function Control	AR

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REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
	HPNLC1208AFSA	Panel, RIF/AUX Switch, SG-309H only	AK	P501	QCNW-0076AGZZ	Cord, Player Connecting, Brown	AE
	HSSND0206AFSA	Pointer, Dial	AD	P502	QCNW-0077AGZZ	Cord, Player Connecting, Gray	AE
	JKNBM0223AFSA	Knob, Volume/Balance/Bass/Treble Control	AD	QFSHC0003AGZZ		Holder, Fuse (F501)	AD
	JKNBM0224AFSA	Knob, Push Switch	AC	QFSHD1001AGZZ		Holder, Fuse, Power Board	AB
	JKNBN0197AFSD or JKNBN0297AFSA	Knob, Tuning, (Refer to TECHNICAL INFORMATION [III] on Page 34)	AE	QLUGL0250AFZZ		Terminal Strip, 2-lug	AA
	LANGF0321AFZZ	Bracket, Main Chassis and Power Transformer Bracket (SG-309H only)	AB	QPWBF0424AFZZ		P.W. Board, Power	AH
	LANGK0160AFZZ	Bracket, Tuning Meter	AE	QPWBF0425AFZZ		P.W. Board, Tuner	AL
	LANGK0161AFZZ	Bracket, Player	AD	QPWBF0426AFZZ		P.W. Board, Stereo Indicator	AE
	LANGQ0435AFZZ	Bracket, Jack	AC	QPWBF0427AFZZ		P.W. Board, Controls	AK
	LANGQ0441AFZZ	Bracket, Rear Terminal	AD	QPWBF0428AFZZ		P.W. Board, Tape Deck, SG-309H only	AM
	LANGQ0442AFZZ	Bracket, Power Switch	AD	QPWBF0429AFZZ		P.W. Board, AUX/RIF Switch, SG-309H only	AC
	LANGR0373AFZZ	Bracket, Tuner	AE	QPWBF0430AFZZ		P.W. Board, RECORD/CrO ₂ Indicator, SG-309H only	AB
	LANGT0502AFZZ	Bracket, Dial Cord Pulley	AB	RTUNF0055AFZZ		FM Front-end Unit	BB
	LANGT0505AFZZ	Dial Cord Pulley with Bracket	AD				
	LBSHZ0001AF00	Holder, Lamp	AA	PLAYER PARTS			
	LCHSM0220AFZZ	Chassis, Main, SD-308H	AM	201	850678	Pick-up Ass'y, with Cartridge	
	LCHSM0212AFZZ	Chassis, Main, SG-309H	AP	201-A	CART-717	Cartridge with Stylus	
	LCHSM0213AFZZ	Bracket, Power Transformer	AH	201-B	STY-717	Stylus	
	LHLDA1001SG00	Holder, Bar Antenna	AC	202	891199	Arm Lifter	AR
	LX-BZ0004SGFD	Thumbscrew, Player Board Retaining	AA	203	891707	Return Gear, Ass'y	AR
	LX-BZ0069AFFD	Screw, Cabinet Bottom Retaining	AB	204	890620	Stud, Gear Stopper	AB
	LX-BZ0211AFZZ	Shaft, Dial Cord Pulley	AA	205	890619	Shaft, Eccentric	AB
	LX-BZ0213AFFD	Thumbscrew, Turntable Retaining	AB	206	890680	Rest Stand, Ass'y	AK
	LX-NZ0109AFFN	Nut, Headphone Jack	AB	209	890618	Arm, Gear Stopper	AC
	MLEVF0530AFZZ	Lever, Power Switch Connecting	AE	210	891195	Cut Lever, Ass'y	AK
	MSPRT0001SGZZ	Spring, Dial Cord	AB	212	890628	Spring, Gear Stopper	AB
	NDRM-0001SGZZ	Drum, Dial Cord	AE	215	813157	"E" Stopring, 8 ϕ	AA
	NPLYB0001AFZZ	Pulley, Dial Cord	AB	218	891219	Control Arm, Ass'y	AH
	NPLYC0101AFFD	Guide Shaft, Dial Cord	AA	219	E-825183	Spring, Player Board	AB
	NSFTD0161AFFW	Shaft, Dial Cord Drive (Refer to TECHNICAL INFORMATION [III] on Page 34)	AF	222	890825	Stopper	
	NSFTP0050AFZZ	Shaft Assembly, Power Switch	AD	223	813153	"E" Stopring, 4 ϕ	
	PCOVU7103AFZZ	Cover, Illumination Lamp	AB	224	890684	Switch Lever, Ass'y	AE
	PCUSS0059AF00	Cushion, Tuning Meter	AA	225	E-825182	Spring, Player Board	AB
	PCUSS0062AF00	Rubber, Shading	AA	226	890432	Cushion, Player Board Spring	
	PFLT-0256AF00	Felt, Slide Volume	AA	227	891566	Weight	AW
	PRDAR0112AFFW	Heat Sink, Power IC	AH	230	891849	Terminal Strip, 4-lugs	AC
	PSPAB0103AFFW	Collar, Voltage Selector Socket	AA	231	890765	Washer, Operation Arm	
	PSPAD0001AFZZ	Spacer, Microphone Jack, SG-309H only	AA	232	890709-3	Operation Arm, Ass'y	AH
	PSPAN0002SEZZ	Spacer, Headphone Jack	AB	233	870038	Base, Operation Arm	AH
	PSPAZ0057AFZZ	Spacer, Turntable Retaining	AB	234	890767	Bracket, Seesaw Arm	AH
	PZETF0112AFZZ	Insulating Sheet, Jack, SD-308H	AA	235	830151	Seesaw Arm, Ass'y	AG
	PZETF0110AFZZ	Insulating Sheet, Jack, SG-309H	AA	236	890322-2	Shaft, Switch Arm	AD
	QANTW0054AFZZ	FM Antenna, T-shape	AL	237	890995	Shaft, Eccentric	AG
				238	892331	Spring, Switch Arm	
				240	890334	Micro Switch	AH
				241	890994	Switch Arm, Ass'y	AH
				243	813152	"E" Stopring, 3 ϕ	
				244	891511	Shaft, Cut Lever	AE
				245	890792	Cut Lever Arm	AE
				246	890364-1	Spring, Cut Lever	AB
				247	703549	Turntable	
				250	890675	Shaft, EP Adaptor	AC
				253	891196	Speed Selector Lever	AF
				254	E-830310	Bearing, Turntable, Ass'y	
				256	891190	Kick Lever	AF
				257	891191	Spring, Kick Lever	

[NOTE] PARTS CODE OF PLAYER PARTS

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REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
258	890322-1	Shaft, Kick Lever	AD	034	MSPRP0093AGFW	Retainer, Sub-chassis (40A132-A)	AB
259	E-821121	Pointer, Speed Selector Lever		035	MSPRT0250AGFJ	Spring, Over Stroke (40A133)	AA
260	850710	Player Board		036	MSPRT0252AGFJ	Spring, Sub-chassis Return, Eject Lever (40A134)	AA
261	630923	Motor Assembly, with Motor Pulley and Idler Pulley, Motor		037	MLEVP0031AGZZ	Guide, Take-up Idler (40A135)	AE
261-A	701354			038	MSPRT0257AGFJ	Spring, Take-up Idler (40A136)	AA
261-B	I-704	Idler		039	NFLYC0051AFZZ	Flywheel	AK
263	E-825184	Spring, Player Board		040	NPLYR0050AFZZ	Pulley, Take-up	AD
264	E-825186	Spring, Player Board	AB	041	NBLTH0005AGZZ	Belt, Drive	AE
268	891575	Capacitor, .047MFD, 630V (C701, C702)		042	LANGF0263AGZZ	Bracket, Flywheel (40A140)	AC
271	893584	Phono Motor Connector		043	LX-BZ0108AGZZ	Screw, Flywheel Thrust Adjust (40A141)	AB
272	890735-1	Insulator, Micro Switch	AB	044	NIDR-0021AGZZ	Idler, Take-up (40A142-A)	AD
274	890876	EP Adaptor	AC	045	LANGT0492AFFW	Bracket, Motor	AC
275	870365	Turntable Sheet		046	RMOTM0053AFZZ	Motor with Pulley	AW
280	893492	Bracket, 2-pin Jack		047	MSPRT0258AGFJ	Spring, Rewind Button	AA
281	E-313110	Lug		048	MSPRT0266AGFJ	Spring, Record Button	AA
282	893493	2-pin Jack		050	JKNBR0100AFSB	Push Button	AH
283	890755	Wire Holder		051	NSFTT0070AGFD	Shaft, Push Button	AE
				052	LSTPF0002AGFD	Retainer, Push Button Shaft (40A150)	AA
TAPE DECK MECHANICAL PARTS (SG-309H only)							
001	LCHSM0230AFZZ	Chassis, Mechanism	AN	053	MSPRT0254AGFJ	Spring, Stop/Eject and FF Button Returning	AA
002	—	Rubber, Push Button Cushion, Part of 001	—	054	MSPRT0253AGFJ	Spring, Record Connecting Lever (40A152)	AA
003	LCHSS0092AGZZ	Sub-Chassis (40A102-A)	AF	055	MLEVP0038AG00	Lever, Eject (40A153)	AC
004	DROLP0020AGZZ	Pressure Roller Assembly (40A103)	AG	056	MLEVF0445AGFN	Lock, Push Buttons	AC
005	MSPRT0264AGFJ	Spring, Pressure Roller	AA	057	MSPRT0259AGFJ	Spring, Push Button Lock (40A155)	AA
006	NBALS0004AGFJ	Steel Ball, 2.5φ (40A105)	AA	058	MSPRP0094AGFW	Spring, Cassette Retaining	AB
007	RHEDH0051AFZZ	Head, Record/Playback	AW	059	MSPRT0189AGFJ	Spring, Rewind Idler	AA
008	RHEDA0050AFZZ	Head, Erase	AN	060	NBALS0006AGFJ	Steel Ball, 2φ (40A159)	AA
009	MSPRC0031AGMN	Spring, Head Azimuth (40A107)	AA	061	LHLDW3024AGFD	Wire Holder (36A0057)	AA
010	MLEVP0033AGZZ	Lever, Tape End Sensing (40A108)	AC	062	PCOVW9057AG00	Insulator, Main Switch and CrO ₂ Switch	AA
011	NDAIR0100AFSA	Turntable, Take-up	AG	063	LANGT0494AFFW	Bracket, Main and Muting Switch	AE
012	NDAIR0060AGSA	Turntable, Supply	AD	064	LANGQ0440AFZZ	Bracket, CrO ₂ Switch	AD
013	DROLR0014AGZZ	Idler, Rewind (40A111-A)	AH	065	MLEVP0051AFZZ	Lever, CrO ₂ Tape Detection	AC
014	NROLF0050AFZZ	Roller, Fast Forward	AK	066	MLEVF0532AFFW	Plate Spring, CrO ₂ Tape Detection Lever Operation	AC
015	MLEVF0441AGFD	Lever, Brake Connecting	AC	067	LANGT0493AFFW	Bracket, Tape Counter	AB
016	MLEVF0448AGFD	Lever, Recording	AC	068	LBSHS0001AG00	Rubber, Motor Cushion	AA
017	LANGF0261AGZZ	Block, Guide (40A115)	AE	069	MLEVF0534AFFW	Plate Spring, R/P Switch	AC
018	MLEVF0440AGZZ	Lever, Brake	AC	070	PSDAA0001AGFJ	Sleeve, Motor Cushion Rubber	AB
019	LANGF0260AGZZ	Block, Record Safety Lever	AD	071	NBLTM0029AG00	Belt, Tape Counter	AD
020	MLEVP0032AGZZ	Lever, Record Safety (40A118-A)	AB	072	KCOUB0031AGZZ	Tape Counter	AN
021	MSPRD0088AGFJ	Spring, Record Safety Lever (40A119-B)	AB	073	QLUGL0302SEZZ	Terminal Strip, 3-lug	AA
022	NBRGP0012AGZZ	Bearing, Capstan Shaft (40A120-A)	AH	101	GCABC0181AGSA	Holder, Cassette	AG
023	MLEVF0443AGZZ	Lever, Auto Stop	AC	102	HDECB0018AGS	Mirror, Cassette Compartment	AA
024	MLEVP0034AGZZ	Lever, Auto Stop (40A122)	AB	103	HINDM1040AFSA	Indication Metal, Tape Deck Control	AF
025	MSPRD0089AGFJ	Spring, Auto Stop Lever (40A123-A)	AB	104	HPNLC1207AFSA	Panel, Tape Deck	AP
026	MSPRT0256AGFJ	Spring, Auto Stop Lever Return (40A124)	AA	105	LANGA0029AGZZ	Retainer, Cassette Holder	AA
027	PGIDS0006AGFW	Spacer, Fast Forward Lever (40A125)	AB	106	LANGK0162AFZZ	Bracket, Tape Deck Panel	AA
028	MLEVF0439AGFD	Lever, Fast Forward	AB	107	LANGK0163AFZZ	Bracket, Tape Deck Panel	AB
029	MSPRT0262AGFJ	Spring, Fast Forward Roller (40A127-B)	AC	108	MLEVF0400AGZZ	Lever, Lock Connecting	AB
030	MSPRT0263AGFJ	Spring, Fast Forward Roller (40A128)	AA	109	MLEVP0025AG00	Lever, Lock	AB
031	MLEVF0546AFFD	Lever, Over Stroke	AB	110	MSPRP0089AGFW	Plate Spring, Cassette Holder	AB
032	NBALS0010AGFJ	Steel Ball, 3/16"φ (40A130)	AA	111	MSPRT0238AGFJ	Spring, Lock Connecting Lever	AA
033	MLEVF0446AGFD		AB	112	MSPRT0242AGFJ	Spring, Cassette Holder	AB
				114	PGUMM0055AG00	Cushion, Rubber, Cassette Holder	AA
				115	PSHEF0105AF00	Felt, Pause Switch	AA
				116	LANGQ0443AFZZ	Bracket, Pause Switch	AB