

Service Manual



FM/AM STEREO RECEIVER

SA-5560

(X), (XG), (XGH), (XSD),
(XSW), (XE), (XAL)

TECHNICAL SPECIFICATIONS (IHF) Specifications are subject to change without notice for further improvement.

AMPLIFIER SECTION

1kHz continuous power:	both channels driven	108W + 108W (4Ω) 93W + 93W (8Ω)
20Hz ~ 20kHz continuous power:	both channels driven	90W + 90W (4Ω) 85W + 85W (8Ω)
Power bandwidth:	both channels driven at 8Ω	10Hz ~ 40kHz, -3dB
Total harmonic distortion:		0.1% at rated power (20Hz ~ 20kHz) 0.05% at half power (1kHz)
Intermodulation distortion:		0.1%
Damping factor:		55 (8Ω), 27.5 (4Ω)
Input sensitivity and impedance:	PHONO	2.5mV/47kΩ
	AUX, TAPE 2 PLAYBACK	150mV/35kΩ
	TAPE 1 PLAYBACK, REC/PLAY input	180mV/40kΩ

PHONO maximum input voltage:	(1kHz, RMS)	150mV
S/N (IHF, A):	PHONO	78 dB
	AUX	95dB
Frequency response:	PHONO	RIAA Standard curve ±0.2dB
	AUX	20Hz ~ 20kHz, ±0.5dB
Tone controls:	BASS	50Hz, +13dB ~ -13dB
	TREBLE	10kHz +12dB ~ -12dB
Loudness control (volume at -30dB):		50Hz, +9dB
Output voltage:	TAPE 1 REC OUT	180mV
	TAPE 2 REC OUT	150mV
	TAPE 1 REC/PLAY output	30mV
High filter:		7kHz -6dB/oct
Low filter:		100Hz, -6dB/oct

FM TUNER SECTION

Frequency range:		88 ~ 108MHz
Antenna terminals:	300Ω (balanced)	75Ω (unbalanced)
Sensitivity:		1.8μV
Total harmonic distortion:	MONO	0.15%
	STEREO	0.25%
S/N:	MONO	75dB
	STEREO	72dB
Frequency response:		20Hz ~ 15kHz, +0.2dB -0.8dB
Alternate channel selectivity:		70dB
Capture ratio:		1.5dB
Image rejection at 98MHz:		53dB
IF rejection at 98MHz:		80dB
AM suppression:		55dB
Stereo separation:	1kHz	45dB
	10kHz	35dB
Leak carrier:	-65dB (19kHz)	-75dB (38kHz)

AM TUNER SECTION

Frequency range:		525 ~ 1605kHz
Sensitivity:		30μV, 20μV/m
Selectivity:		22dB
Image rejection at 1000kHz:		47dB
IF rejection at 1000kHz:		40dB

GENERAL

Power consumption:		650W
Power supply:		110V/120V/220V/240V
Dimensions (W x H x D):	500 x 150 x 420mm (19-11/16" x 5-29/32" x 16-17/32")	
Weight:		16kg (65.3lb.)

TECHNISCHE DATEN (DIN 45 500) Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.

VERSTÄRKERTEIL

RMS-Dauerleistung bei 1kHz:		2 x 108W (4Ω) 2 x 93W (8Ω)
beide Kanäle zusammen angesteuert		
RMS-Dauerleistung bei 20Hz ~ 20kHz:		2 x 90W (4Ω) 2 x 85W (8Ω)
beide Kanäle zusammen angesteuert		
Leistungsbandbreite (beide Kanäle zusammen angesteuert bei 4Ω):		10Hz ~ 40kHz, -3dB
Harmonische Verzerrungen:		
Nennleistung bei 40Hz ~ 16,000Hz, 4Ω		0.1%
Intermodulationsverzerrung:		
Nennleistung bei 250Hz: 8000Hz = 4 : 1 4 Ω		0.1%
Dämpfungsfaktor:		55 (8Ω), 27.5 (4Ω)
Eingangsempfindlichkeit & Impedanz:	PHONO	2.5mV/47kΩ
	AUX, TAPE 2 PLAYBACK	150mV/35kΩ
	TAPE 1 PLAYBACK, REC/PLAY Wiedergabe	180mV/40kΩ
PHONO Maximale Eingangsspannungen: (1kHz RMS)		150mV
Fremdspannungsabstand:	Nennleistung PHONO	65dB
	AUX	80dB
	50mW Ausgangsleistung PHONO	50dB
	AUX	50dB
Frequenzgang:		20Hz ~ 20kHz, ±0.5dB
Klangregler:	BÄSSE	50Hz, +13dB ~ -13dB
	HÖHEN	10kHz, +12dB ~ -12dB
Gehörgerechte Lautstärkekorrektur (Lautstärke -30dB):		50Hz, +9dB
Ausgangsspannungen:	TAPE 1 REC OUT	180mV
	TAPE 1 REC/PLAY Aufnahme	30mV
	TAPE 2 REC OUT	150mV
Hochtonfilter:		7kHz, -6dB/oct
Tiefenfilter:		100Hz, -6dB/oct

UKW-TUNERTEIL

Empfangsbereich:		88 ~ 108MHz
Antennenanschluss:	300Ω (symmetrisch)	75Ω (asymmetrisch)
Empfindlichkeit:		1.8μV, 30dB Fremdspannungsabstand: 300Ω 1.5μV, 20dB Fremdspannungsabstand: 300Ω 1.3μV, 30dB Fremdspannungsabstand: 75Ω 0.9μV, 20dB Fremdspannungsabstand: 75Ω
Harmonische Verzerrung:	MONO	0.15%
	STEREO	0.25%
Fremdspannungsabstand	MONO	56dB
	STEREO	54dB
Frequenzgang:		20Hz ~ 15kHz, +0.2dB -0.8dB
Selektivität:		7.0dB
Gleichwellen-Selektion:		1.5dB
Spiegel Selektion bei 98MHz:		5.3dB
ZF-Festigkeit bei 98MHz:		8.0dB
AM-Unterdrückung:		5.5dB
Stereo Übersprechdämpfung:		45dB bei 1kHz, 35dB bei 10kHz
Trägerrest (19kHz, 30kHz):		-65dB bei 19kHz, -75dB bei 30kHz
Begrenzung, Einsatzpunkt:		1.0μV
Bandbreite:	ZF-Verstärker	50kHz
	UKW-Demodulator	100kHz

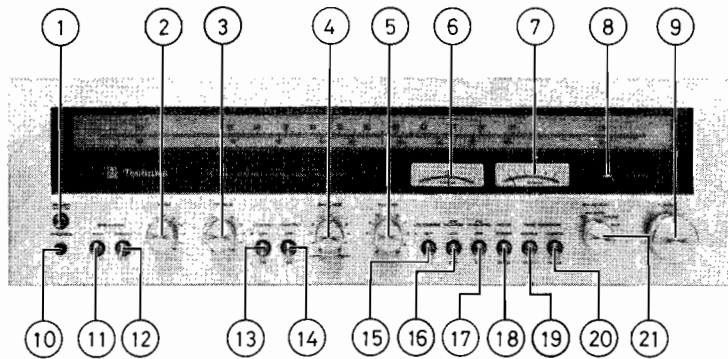
AM-TUNERTEIL

Empfangsbereich:		525 ~ 1605kHz
Empfindlichkeit:		30μV, 20μV/m
Selektivität:		22dB
Spiegel Selektion bei 1000kHz:		4.7dB
ZF-Festigkeit bei 1000kHz:		4.0dB

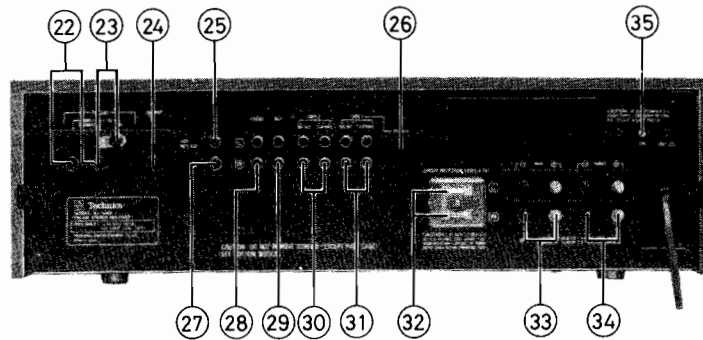
ALLGEMEINE DATEN

Leistungsaufnahme:		650W
Netzspannung umschaltbar:		110V/120V/220V/240V
Abmessungen (B x H x T):		500 x 150 x 420mm
Gewicht:		16kg

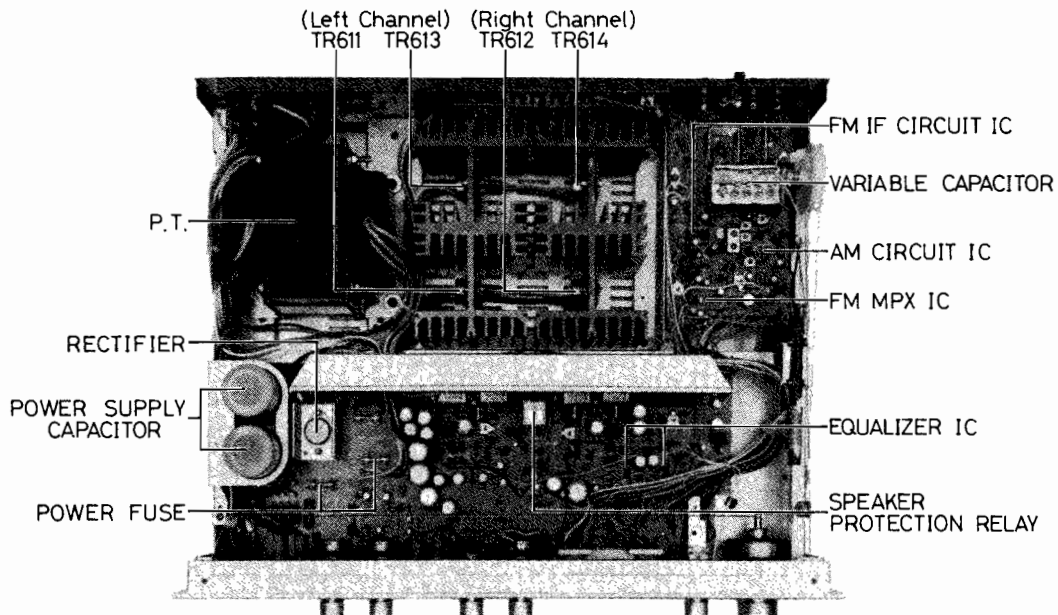
■ LOCATION OF CONTROLS



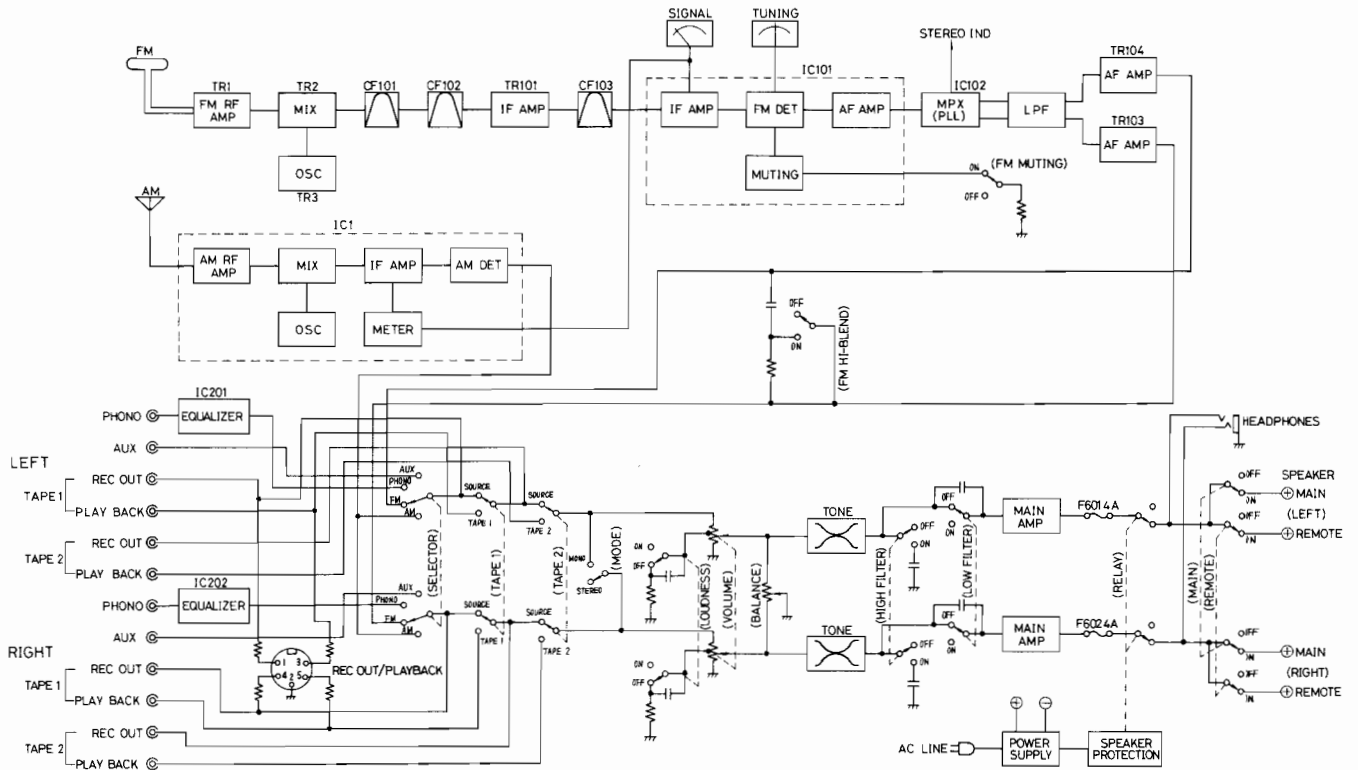
- | | | |
|----------------------|-------------------------|--------------------------------|
| ① POWER SWITCH | ⑧ FM STEREO INDICATOR | ⑮ LOUDNESS SWITCH |
| ② BASS CONTROL | ⑨ TUNING CONTROL | ⑯ FM MUTING SWITCH |
| ③ TREBLE CONTROL | ⑩ HEADPHONES JACK | ⑰ FM HI-BLEND SWITCH |
| ④ BALANCE CONTROL | ⑪ MAIN SPEAKER SWITCH | ⑱ MODE SWITCH |
| ⑤ VOLUME CONTROL | ⑫ REMOTE SPEAKER SWITCH | ⑲ TAPE MONITOR (TAPE 1) SWITCH |
| ⑥ FM TUNING METER | ⑬ LOW FILTER SWITCH | ⑳ TAPE MONITOR (TAPE 2) SWITCH |
| ⑦ FM/AM SIGNAL METER | ⑭ HIGH FILTER SWITCH | ㉑ SELECTOR SWITCH |



- | | | |
|-------------------------------|------------------------------------|--|
| ㉒ FM ANTENNA TERMINALS (300Ω) | ㉗ GROUND TERMINAL | ㉚ SPEAKER CIRCUIT PROTECTION FUSES |
| ㉓ FM ANTENNA TERMINALS (75Ω) | ㉘ PHONO INPUT TERMINALS | ㉛ MAIN SPEAKER TERMINALS |
| ㉔ AM ANTENNA TERMINAL | ㉙ AUX INPUT TERMINALS | ㉜ REMOTE SPEAKER TERMINALS |
| ㉕ 4CH MPX OUTPUT TERMINAL | ㉚ TAPE DECK 2 CONNECTION TERMINALS | ㉝ VOLTAGE ADJUSTER
(Except Set for Australia [XAL]) |
| ㉖ REC/PLAY (TAPE 1) SOCKET | ㉛ TAPE DECK 1 CONNECTION TERMINALS | |

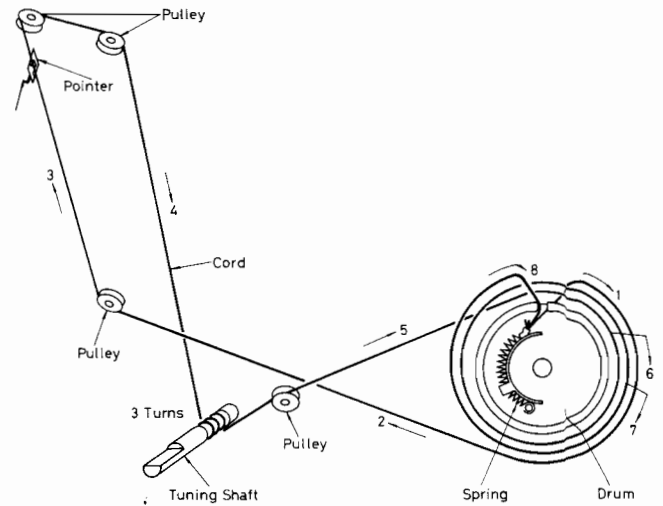


■ BLOCK DIAGRAM



■ DIAL CORD INSTALLATION GUIDE

1. Dial cord length is 91¼" (230cm).
2. Tuning gang is positioned at maximum capacity. (Frequency is minimum)
3. Arrow marks (1~8) indicated correct order and direction of stringing dial cord.



■ TO REMOVE CABINET

1. Loosen two (2) metal clamp-mounting screws, nos. ① and ② as shown in fig. 1.
2. Remove four (4) cabinet-mounting screws, nos. ③~⑥ as shown in fig. 2.
3. Remove cabinet from chassis in arrow direction 1 to 2, as shown in fig. 2.
4. To reassemble, reverse above procedure.



Fig. 1

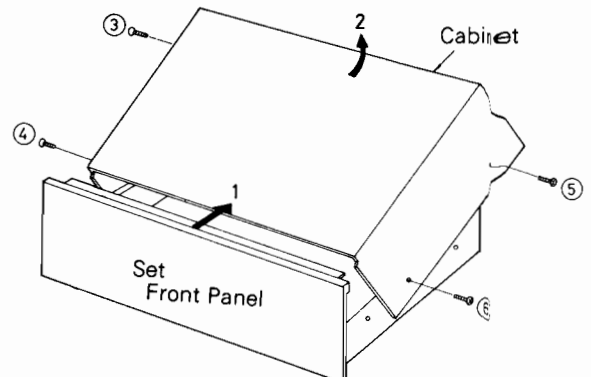
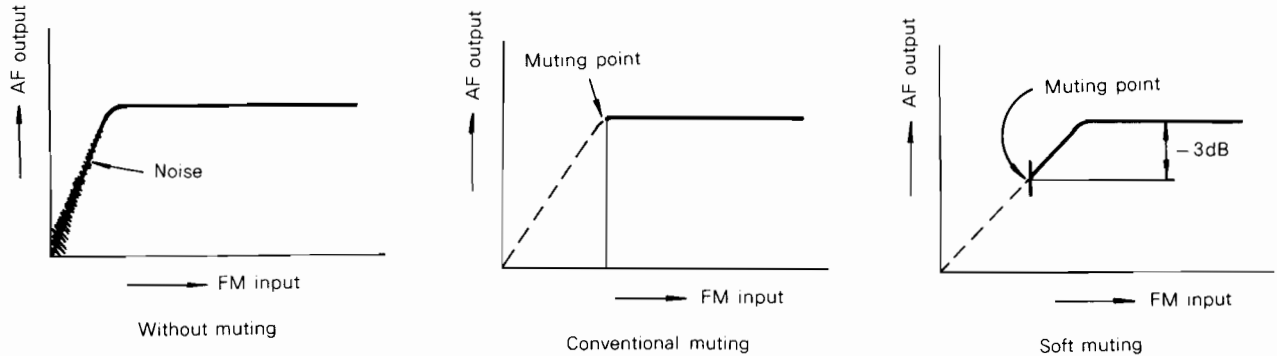


Fig. 2

■ SERVICE AID

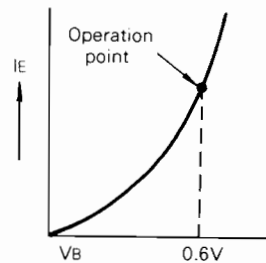
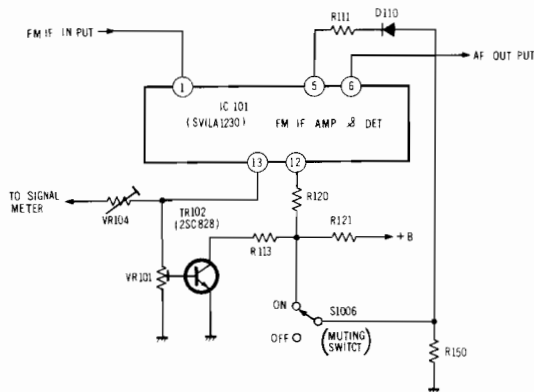
● FM soft muting

When moving the tuning point away from the point of maximum output (optimum tuning) the signal output gradually decreases until it reaches zero output. (between stations.) In conventional muting circuits a sharp "popping" noise is heard when tuning, due to the sudden (switch-like) action of the muting circuit from zero signal to full output. This "Soft muting" circuit lets the sound fade more gradually, making it more natural and pleasant to listen to.



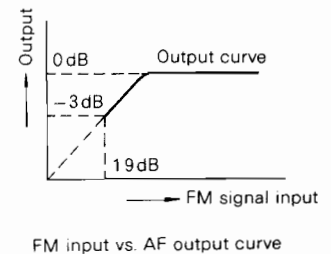
● Circuitry principles

This circuit makes use of the VBE characteristics of TR102 (2SC828). (Refer to fig. 1.) The detected voltage from the FM IF input signal is applied to the base of TR102. When the FM input signal increases this voltage increases, causing the emitter current, to increase, which, in turn, decreases the collector voltage of TR102, making the collector voltage approach ground potential. Because the collector of TR102 is connected to the IC101 IF amplifier through the muting switch, a change in the collector voltage will control the output of the IC101 IF amplifier. When the FM input signal increases to the point that the base voltage of TR102 reaches its operating point (about 0.6V), the output of IC101 reaches maximum.



VBE curve of TR102

Fig. 1.



FM input vs. AF output curve

Fig. 2

■ FM RF ALIGNMENT INSTRUCTIONS Only Set for Germany

ABGLEICHANWEISUNGEN.....VOR DEM ABGLEICH SORGFÄLTIG DURCHLESEN					
MESSENDER		SKALENZEIGER-EINSTELLUNG DES EMPFÄNGERS [ABSTAND]	ANGEIGE (RÖHRENVOLTMETER ODER OSZILLOGRAPH)	ABGLEICH	BEMERKUNGEN
SCHALTUNG	FREQUENZ				
FM HF-ABGLEICH					
Anschluß an den FM Antennenanschluß über die künstliche FM Antenne (Vgl. Abb. 1)	87.5 MHz (100% Mod bei 400 Hz)	87.5 MHz [0mm]	Output meter über Lautsprecher-schwingungspule anschließen.	L5 (Oszillatorspule)	Auf max. Ausgang abgleichen
"	90 MHz (")	90 MHz (17.2mm)	"	L3 (Zwischenkreis) L2 (Antennenspule)	"
"	106 MHz (")	106 MHz (174.1mm)	"	CT3 (OSZ. Trimmer) CT2 (DET. Trimmer) CT1 (ANT. Trimmer)	"

ALIGNMENT INSTRUCTIONS

MAIN AMP (IcQ) ALIGNMENT

Notes:

- The "IcQ" adjustment should be started about 5 minutes after setting the power switch to the ON position.
- Speakers switch to OFF position.

- 1 Connect DC VTVM between TP602 and TP603 (Left channel), TP604 and TP605 (Right channel)
- 2 Adjust VR601 (Left channel) and VR602 (Right channel) to 12mV on DC VTVM indication.

Notes:

- Muting switch OFF
- Band selector switch.....AM/FM AUTO (FM, RF, FM-IF)
- 300Ω FM dummy antenna.....Refer to fig. 3.
- Speaker switch.....ON
- Mode switch..... MONO
- Maintain line voltage at rated voltage.
- Output of signal generator should be no higher than necessary to obtain an output reading.

SIGNAL GENERATOR or SWEEP GENERATOR	DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE) (DISTORTION METER)	ADJUSTMENT POINTS	REMARKS		
					CONNECTION	FREQUENCY
AM ALIGNMENT						
2	High side through 0.001μF to AM antenna trimmer terminal. Common to chassis.	455kHz (Set for England to 470kHz)	Point of non-interference	Connect vertical amplifier of scope to TP1 through 0.1μF.	T1 (1st IFT) (P) T2 (2nd IFT) (S) T3 (IF Trap)	Adjust for maximum output.
3	Fashion loop of several turns of wire and radiate signal into loop of tuner.	600kHz (30% Mod. with 400Hz)	600kHz [1 1/2" (31.5mm)]	Connect VTVM or scope to speaker terminal of receiver.	L6 (OSC Coil) L8 (ANT Coil)	Adjust for maximum output. Adjust L8 by moving coil bobbin along ferrite core.
4	Fashion loop of several turns of wire and radiate signal into loop of tuner.	1500kHz (30% Mod. with 400Hz)	1500kHz [7 1/2" (180.1mm)]	Connect VTVM or scope to speaker terminal of receiver.	CT5 (OSC Trimmer) CT4 (ANT Trimmer)	Adjust for maximum output. Repeat steps (3) and (4).
FM-IF ALIGNMENT						
5	No Signal	Point of non-interference.	Tuning meter of set.		T101 (DISCRI IFT)(A) Orange Core	Adjust for center position of tuning meter.
FM-RF ALIGNMENT						
6	Connect to FM antenna terminal through FM dummy antenna.	90MHz (100% Mod. with 400Hz)	90MHz [3/4" (19.2mm)]	Connect VTVM or scope to speaker terminal of receiver.	L5 (OSC Coil) L3 (DET Coil) L2 (ANT Coil)	Adjust for maximum output.
7	Connect to FM antenna terminal through FM dummy antenna.	106MHz (100% Mod. with 400Hz)	106MHz [6/8" (176.2mm)]	Connect VTVM or scope to speaker terminal of receiver.	CT3 (OSC Trimmer) CT2 (DET Trimmer) CT1 (ANT Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).
FM MONO DISTORTION ALIGNMENT						
8	Connect to FM antenna terminal through FM dummy antenna.	100MHz (100% Mod. with 400Hz)	100MHz	Connect distortion meter to speaker terminal of receiver.	T101 (DISCRI IFT)(B) Green Core	Adjust for minimum distortion meter indication.
FM SIGNAL METER ALIGNMENT						
9	① Apply 100MHz FM signal of 100 dB, 400Hz 30% modulation to FM antenna terminal through FM dummy antenna.		③ Adjust VR104 for about 4.7 point of signal meter indication.			
		② Tuning 100MHz for maximum output by speaker terminal.				
SOFT MUTING LEVEL ALIGNMENT Refer to SERVICE AID on page 4.						
10	① Muting switch to "off".		④ Muting switch to "on".			
		② Apply a 60 dB (1mV) mono RF FM signal to the antenna terminals.		⑤ Reduce FM signal to 19 dB (9μV).		
		③ Adjust Volume Control of receiver to indicate 0 dB on meter across speaker terminals.		⑥ Adjust VR101 to -3 dB on output meter. Refer to fig. 6.		
FM MPX PILOT ALIGNMENT						
Using a frequency counter			Using alternate system			
11	① 98MHz Non-modulated mono signal applied to set.		① Apply stereo signal from generator or stereo station to receiver.			
		② Muting switch to "on".		② Adjust VR102 until stereo indicator lights up. Cement arm of VR102 as shown in fig. 4.		
		③ Connect frequency counter to TP101 through resistor (100kΩ).				
		④ Adjust VR102 to 19kHz ±30Hz.				

STEREO SEPARATION ALIGNMENT

- Note:**
- Stereo modulator Connect stereo modulator output to EXT. MOD. terminal of signal generator.
Internal OSC..... 1kHz Pilot signal modulation..... 10%
 - Signal generator Frequency approximately 98MHz. Output level 72 dB (IHF). Modulation mode to FM.
 - Band selector switch..... FM AUTO
 - Mode switch..... STEREO

SIGNAL GENERATOR CONNECTION	STEREO MODULATOR MODE and MOD. RATE	INDICATOR (VTVM or SCOPE)	ADJUSTMENT POINTS	REMARKS
12	FM antenna terminal through dummy antenna.	L (and R) 30% Modulation.	VR103	Adjust for minimum right (and left) output.

• Alignment Points (FM/AM RF & IF Circuit)

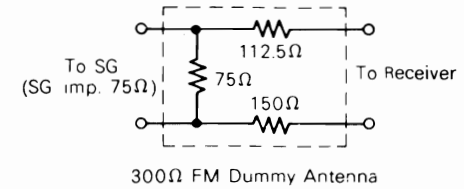
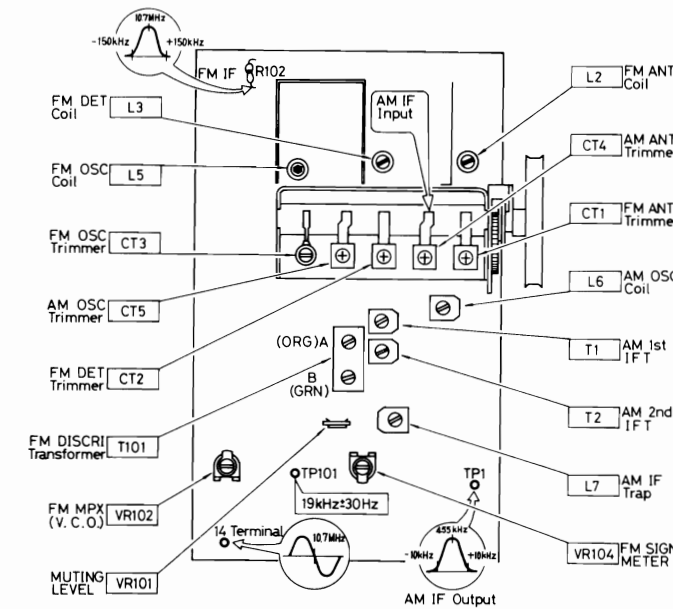
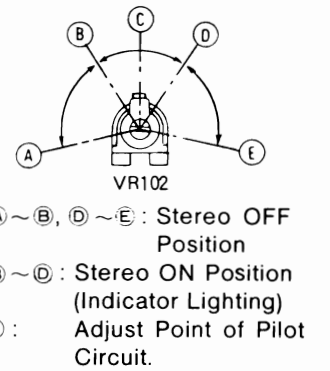


Fig. 3



(A) ~ (B), (D) ~ (E): Stereo OFF Position

(B) ~ (D): Stereo ON Position (Indicator Lighting)

(C): Adjust Point of Pilot Circuit.

Fig. 4

• Alignment Points (AF Amplifier Circuit)

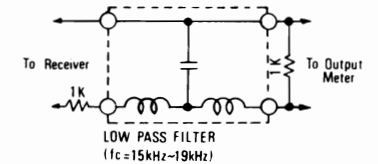
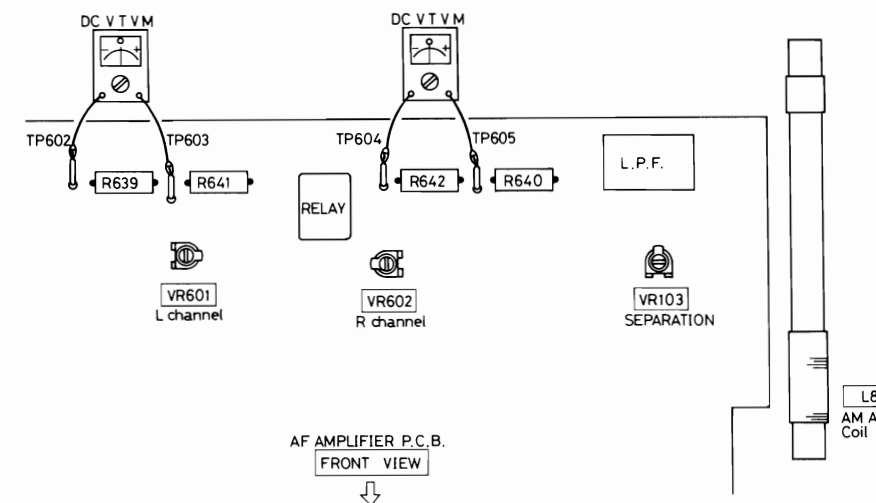


Fig. 5

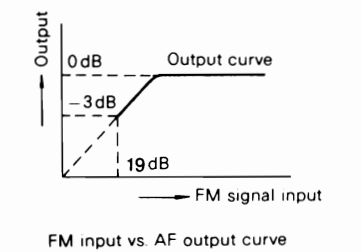
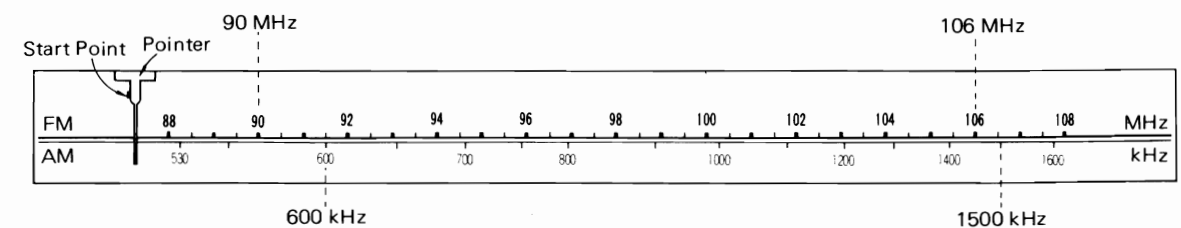


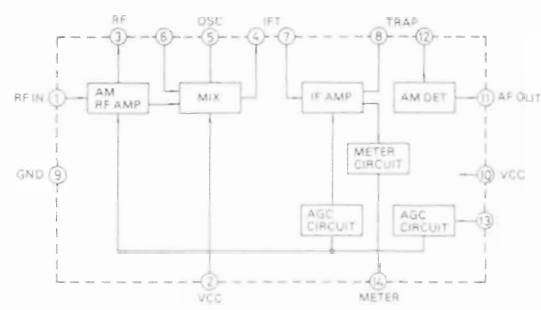
Fig. 6

• Dial Scale and Start Point of Dial Pointer

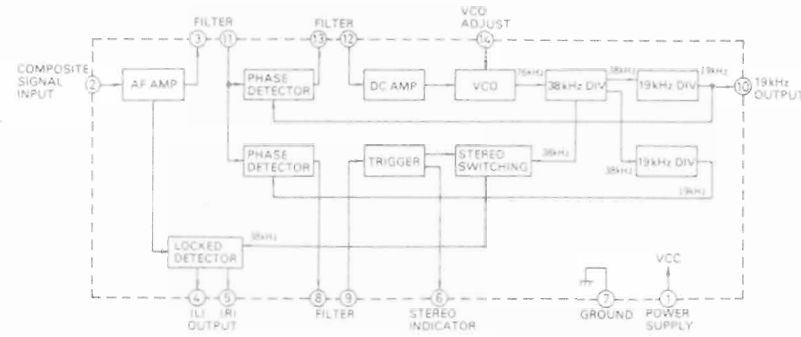


■ BLOCK DIAGRAM OF INTEGRATED CIRCUIT

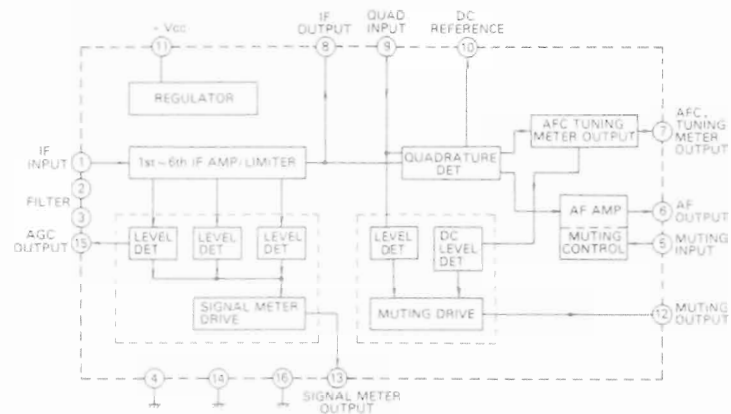
- IC1 (SVIHA1151)
AM RF, OSC, MIX, IF AMP &
AM DETECTOR CIRCUIT



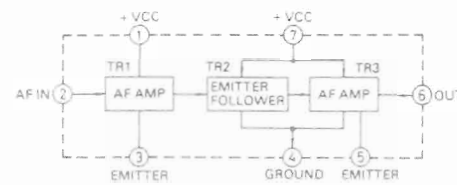
- IC102 (SVIHA1156)
FM MULTIPLEX CIRCUIT



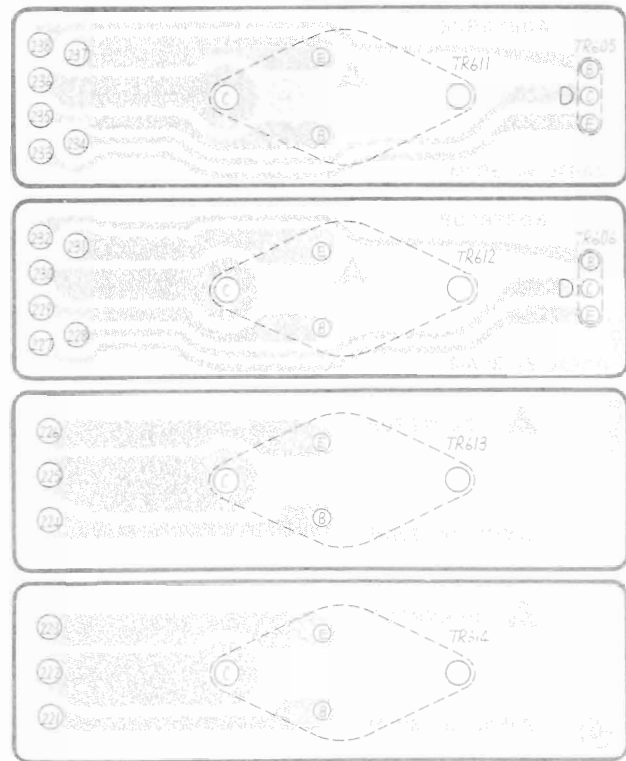
- IC101 (SVILA1230)
FM IF AMP, FM DETECTOR & MUXING CIRCUIT



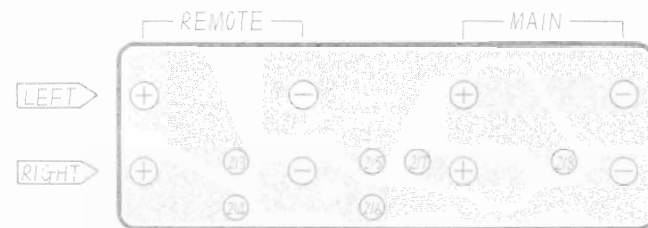
- IC201, 202 (SVITA7129P)
EQUALIZER AMPLIFIER



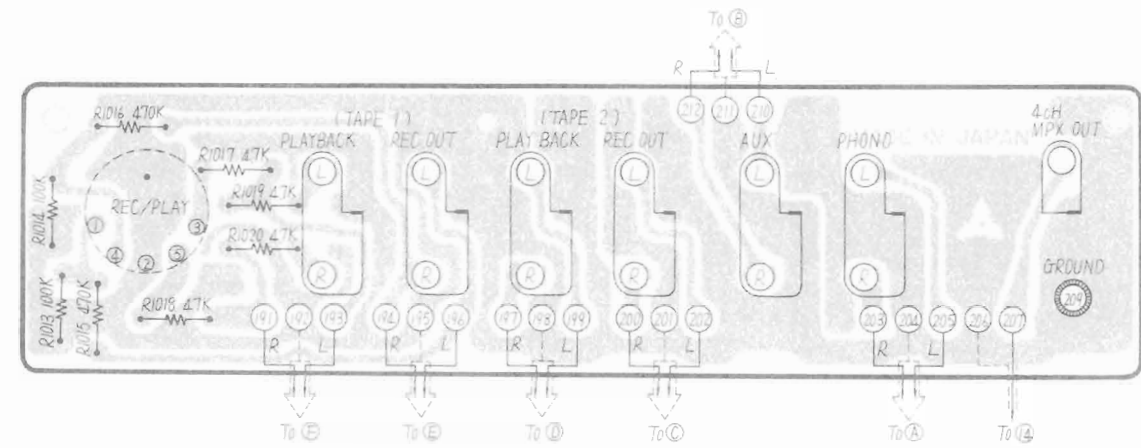
■ POWER TRANSISTOR CIRCUIT BOARD



■ SPEAKERS TERMINAL CIRCUIT BOARD

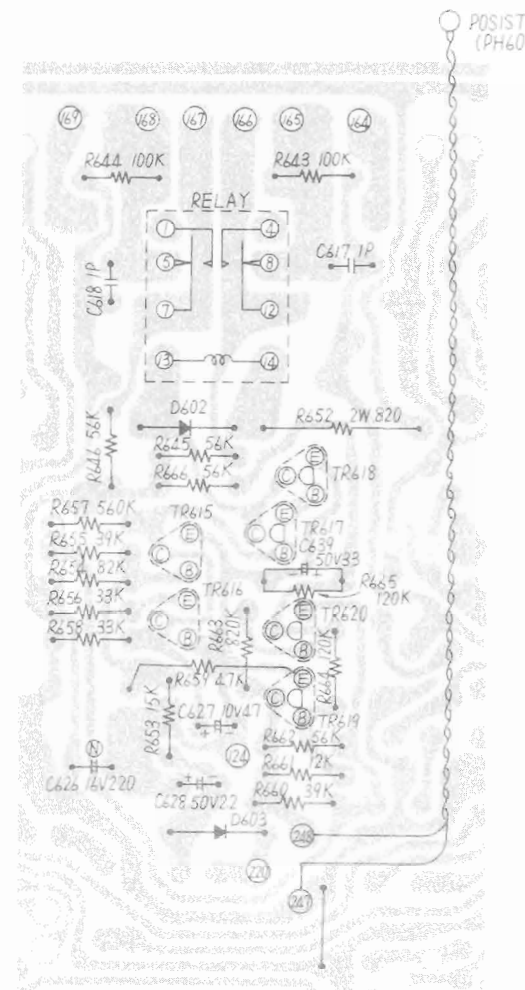


■ INPUT & TAPE DECK CONNECTION TERMINAL CIRCUIT BOARD

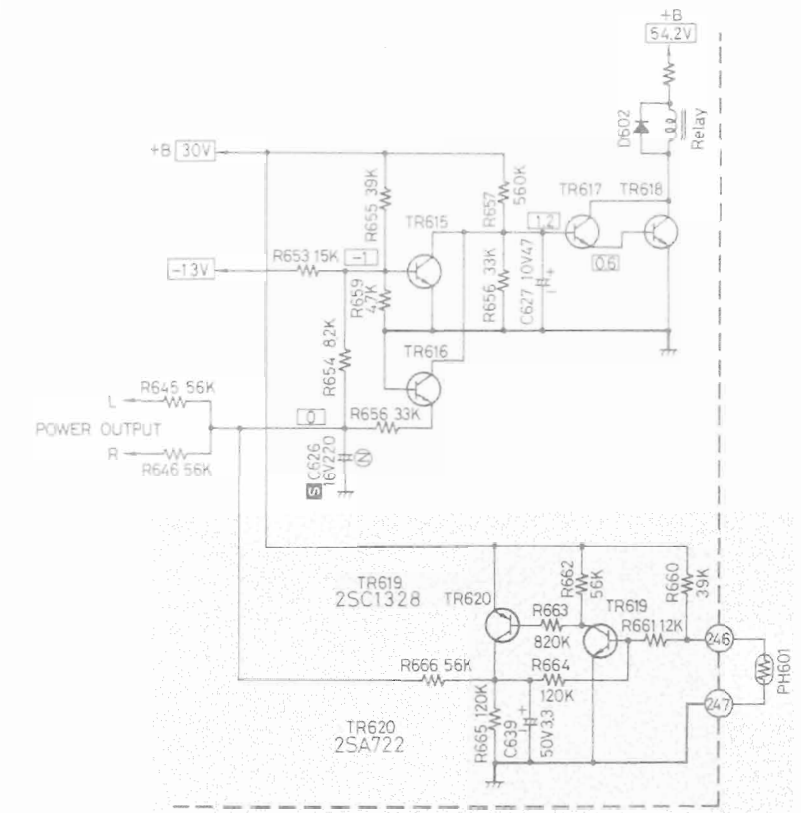


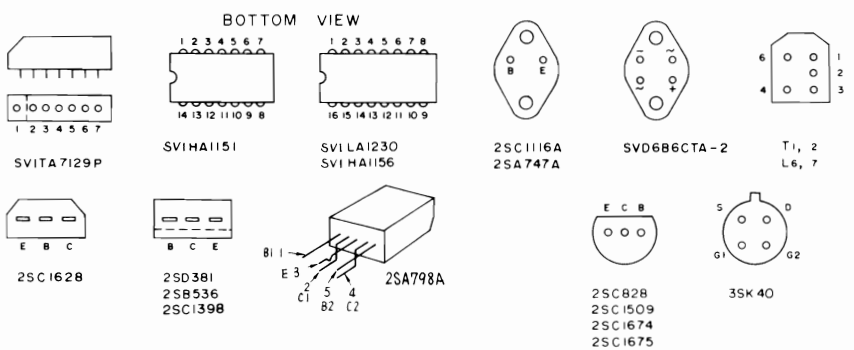
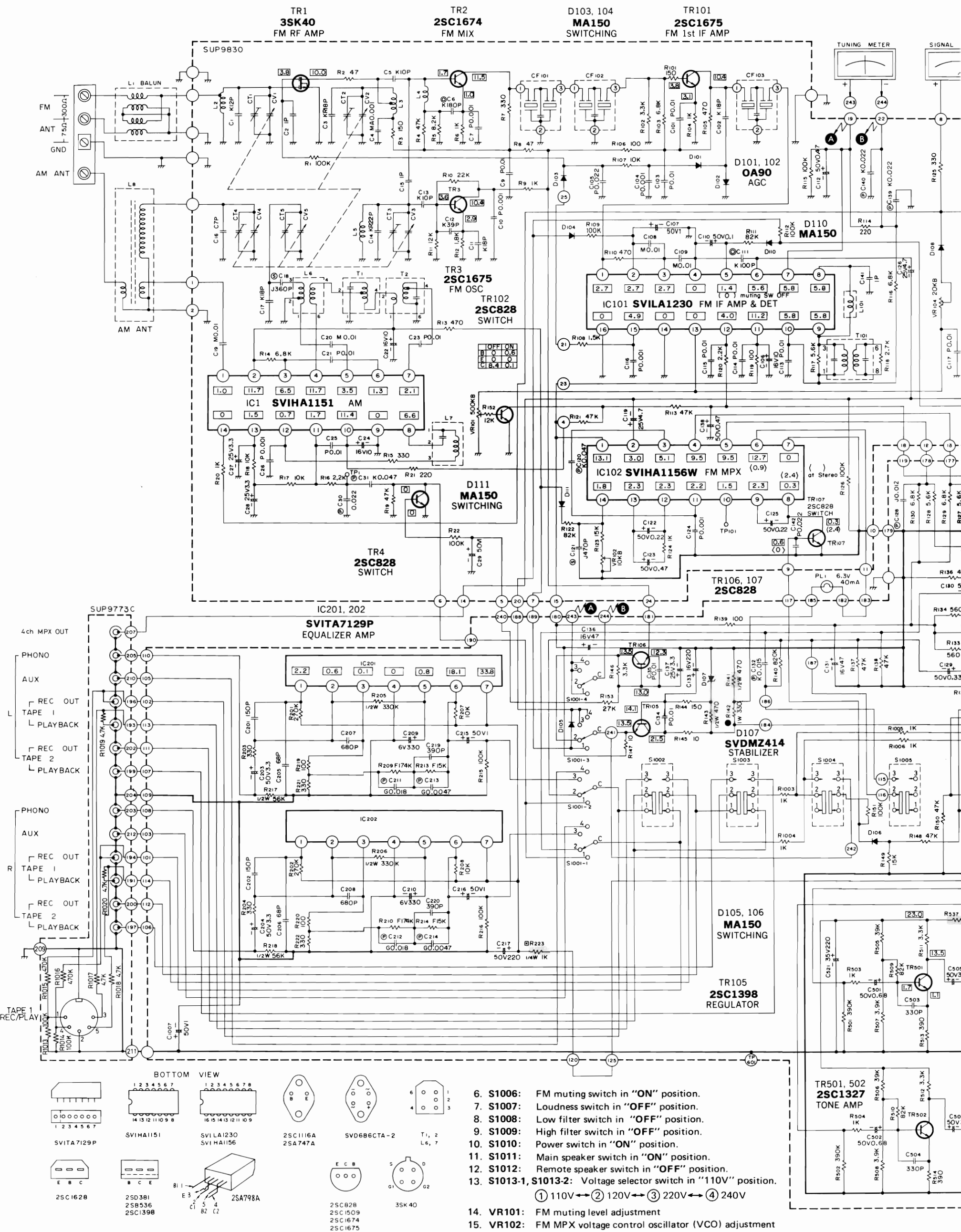
■ SPEAKER PROTECTION CIRCUIT Only Set for England (XE)

- Printed Circuit Board



- Schematic Diagram

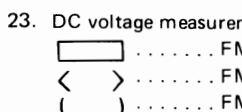




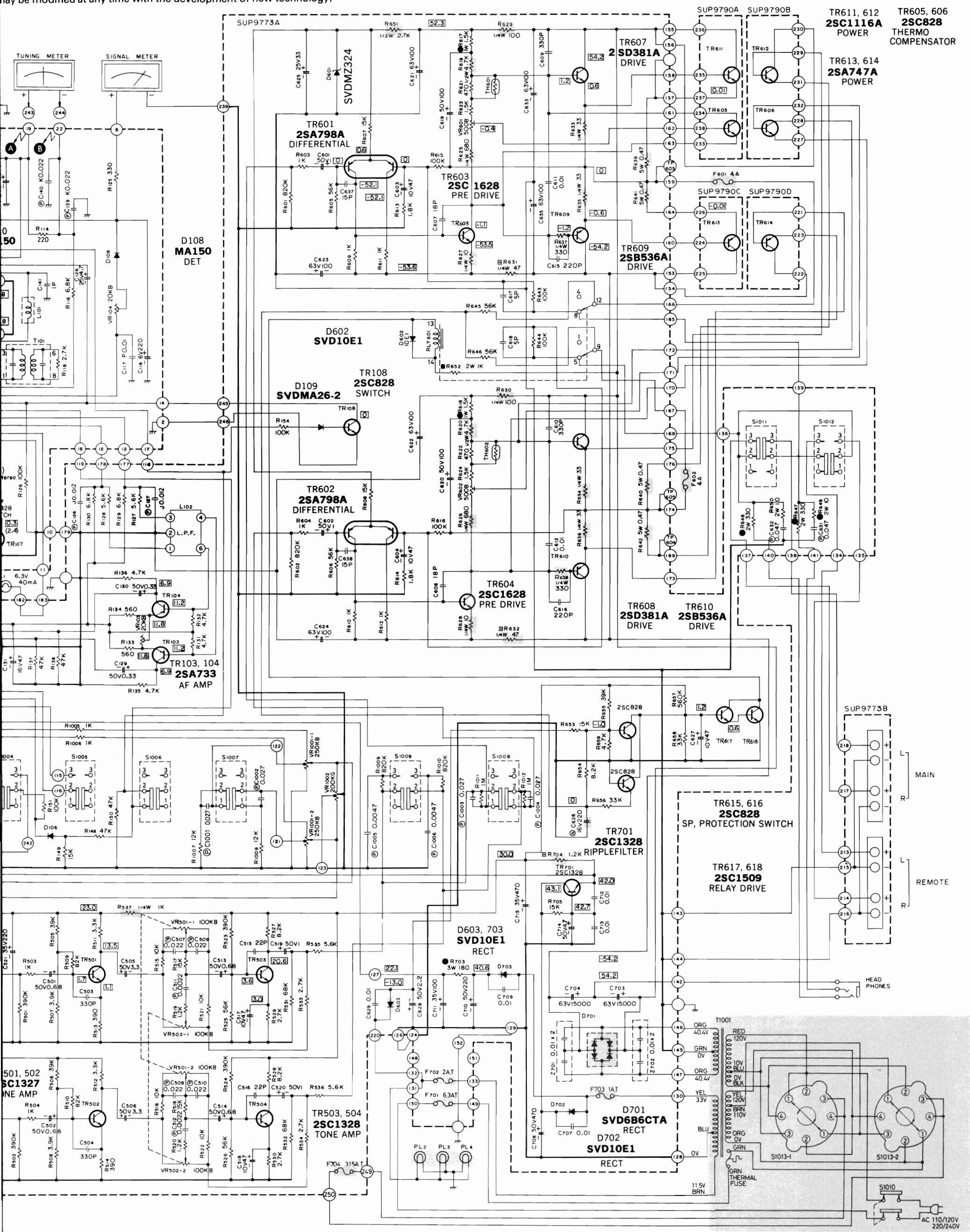
6. S1006: FM muting switch in "ON" position.
7. S1007: Loudness switch in "OFF" position.
8. S1008: Low filter switch in "OFF" position.
9. S1009: High filter switch in "OFF" position.
10. S1010: Power switch in "ON" position.
11. S1011: Main speaker switch in "ON" position.
12. S1012: Remote speaker switch in "OFF" position.
13. S1013-1, S1013-2: Voltage selector switch in "110V" position.
① 110V ↔ ② 120V ↔ ③ 220V ↔ ④ 240V
14. VR101: FM muting level adjustment
15. VR102: FM MPX voltage control oscillator (VCO) adjustment
16. VR103: FM separation adjustment
17. VR104: FM signal meter adjustment
18. VR501: Bass control
19. VR502: Treble control
20. VR601, 602: Power transistor ICQ adjustment
21. VR1001: Volume control
22. VR1002: Balance control
23. DC voltage measurement points

Notes:

1. S1001-1~S1001-4: Selector switch in "FM AUTO" position.
① AM ↔ ② FM AUTO ↔ ③ PHONO ↔ ④ AUX
2. S1001: Tape monitor (TAPE 1) switch in "SOURCE" position.
3. S1003: Tape monitor (TAPE 2) switch in "SOURCE" position.
4. S1004: Mode switch in "STEREO" position.
5. S1005: FM hi-blend switch in "OFF" position.



may be modified at any time with the development of new technology)

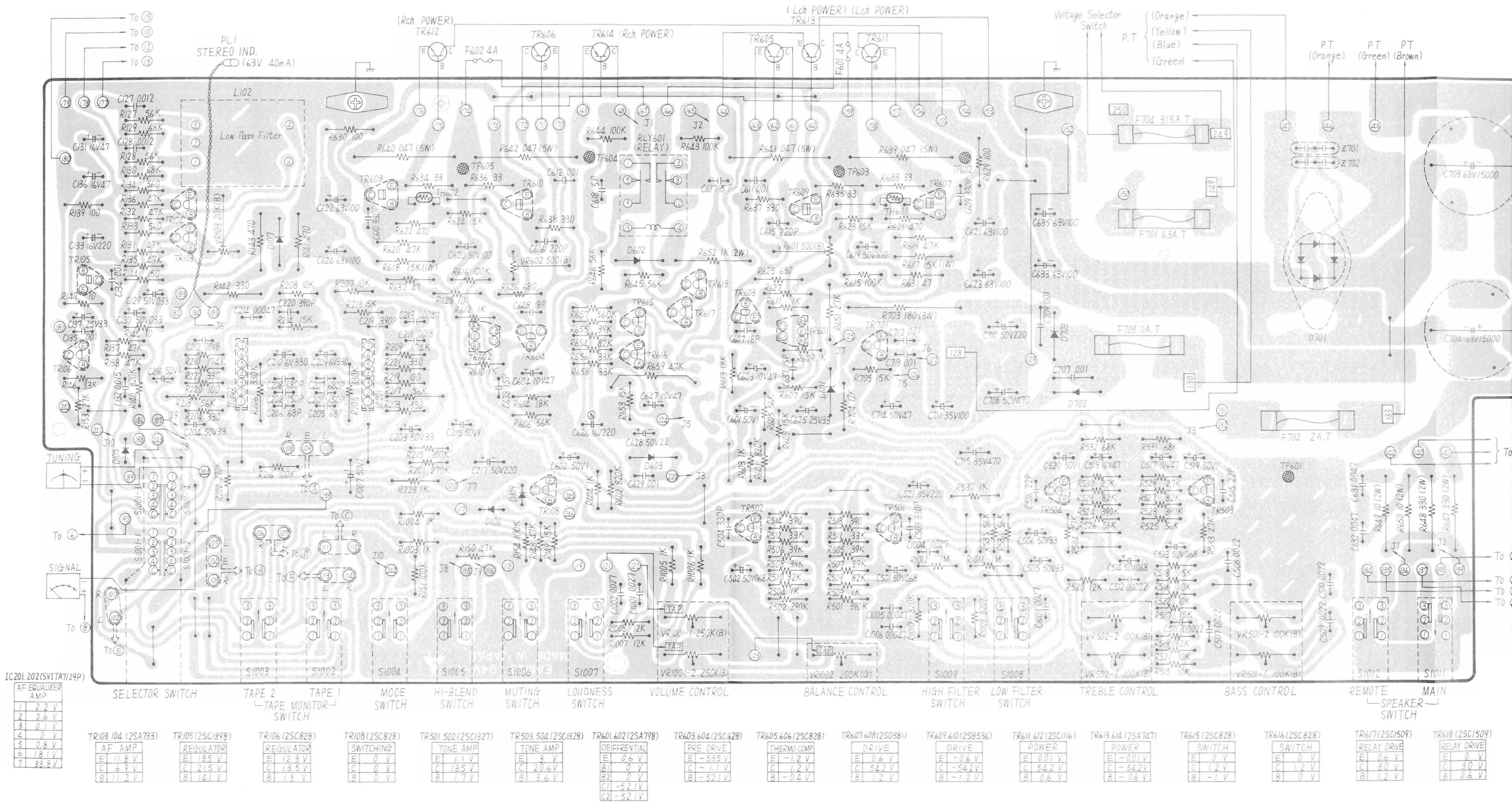


23. DC voltage measurements are taken with DC voltmeter from chassis ground.
 □ FM/AM non signal condition
 < > FM stereo signal reception
 () FM muting to "ON" position

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR SAFETY. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

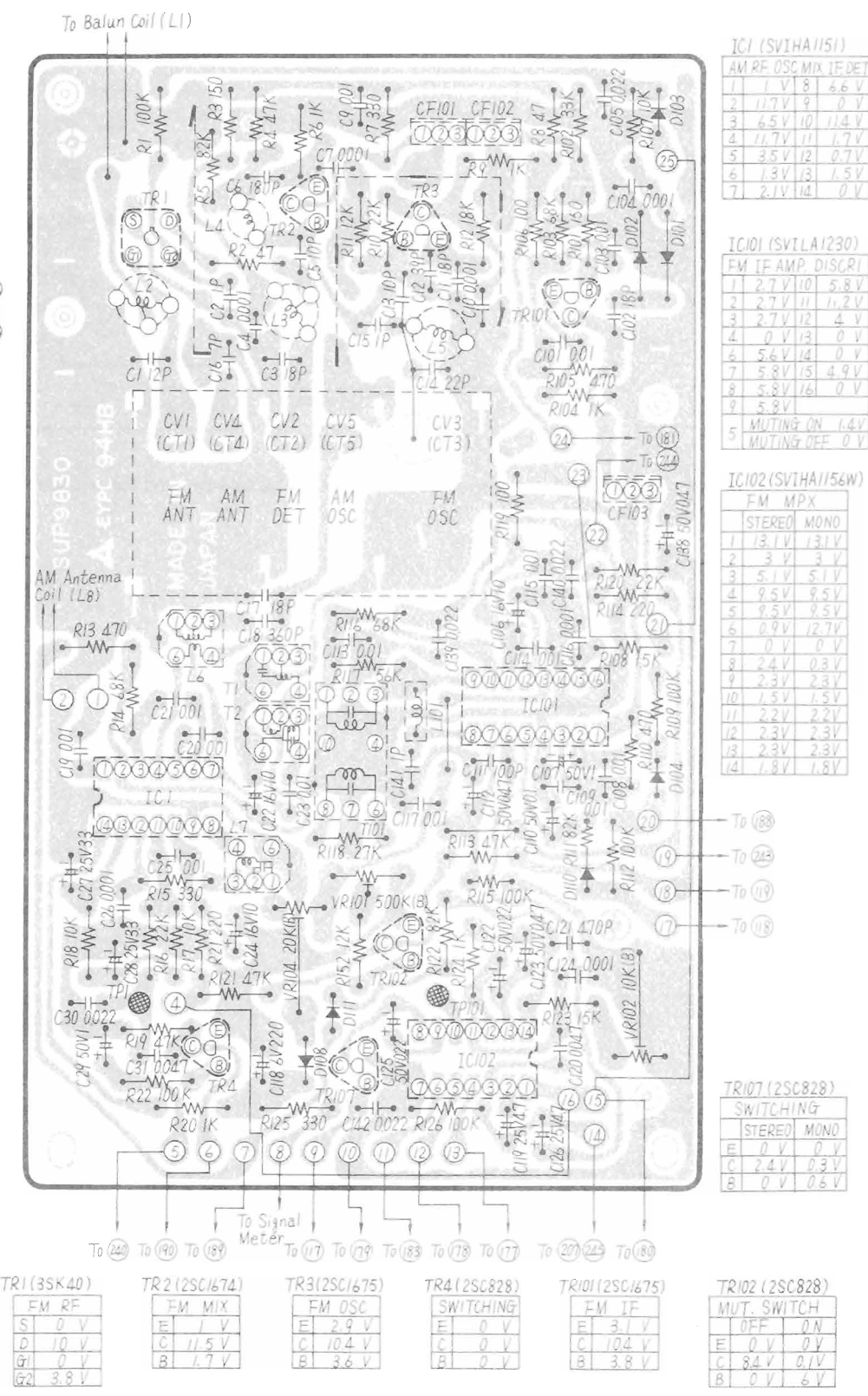
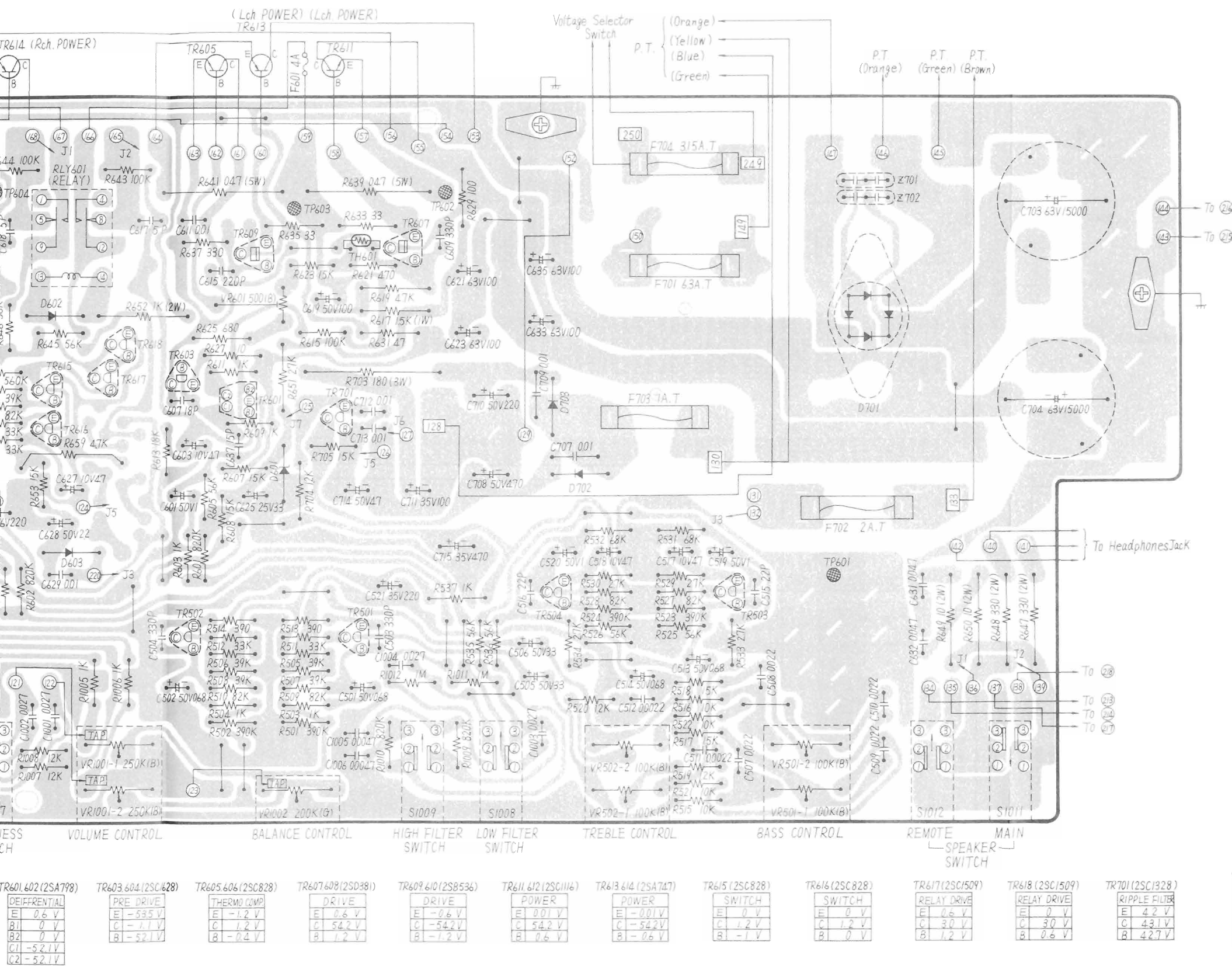
■ EQUALIZER, TONE CONTROL, MAIN AMPLIFIER, SPEAKER PROTECTION & POWER SUPPLY CIRCUIT BOARD



IC201 202(SV1A7124P)

1	2.2 V
2	0.6 V
3	0.1 V
4	0 V
5	0.8 V
6	1.1 V
7	3.3 V

TR103 104 (2SA733)	TR105 (2SC1398)	TR106 (2SC828)	TR108 (2SC828)	TR501 502 (2SC1327)	TR503 504 (2SC1328)	TR601 602 (2SA798)	TR603 604 (2SC428)	TR605 606 (2SC828)	TR607 608 (2SD381)	TR609 610 (2SB536)	TR611 612 (2SC1116)	TR613 614 (2SA747)	TR615 (2SC828)	TR616 (2SC828)	TR617 (2SC1509)	TR618 (2SC1509)
AF AMP	REGULATOR	REGULATOR	SWITCHING	TONE AMP	TONE AMP	DIFFERENTIAL	PRE DRIVE	THERMO COMP	DRIVE	DRIVE	POWER	POWER	SWITCH	SWITCH	RELAY DRIVE	RELAY DRIVE
E 11.8 V	E 13.5 V	E 12.3 V	E 0 V	E 3 V	E 3 V	E 0.6 V	E -53.5 V	E -1.2 V	E 0.6 V	E -0.6 V	E 0.01 V	E -0.01 V	E 0 V	E 0 V	E 0.6 V	E 0.6 V
C 6.9 V	C 21.5 V	C 13.5 V	C 0 V	C 20.6 V	C 3.6 V	B1 0 V	C -1.1 V	C 1.2 V	C 54.2 V	C -54.2 V	C 54.2 V	C -54.2 V	C 1.2 V	C 1.2 V	C 30 V	C 30 V
B 11.2 V	B 14.1 V	B 13 V	B 0 V	B 3.6 V	B 3.6 V	B2 0 V	B -52.1 V	B -0.4 V	B 1.2 V	B -1.2 V	B 0.6 V	B -0.6 V	B 0 V	B 0 V	B 1.2 V	B 0.6 V



Pin	1	2	3	4	5	6	7
V	1.1V	1.7V	4.5V	11.7V	3.5V	1.3V	2.1V
I	8.0V	10.4V	11.9V	12.0V	15.4V	16.0V	14.0V

Pin	1	2	3	4	5	6	7	8	9	10
V	2.7V	2.7V	0V	5.6V	5.8V	0V	5.8V	5.8V	0V	5.8V

Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14
V	13.1V	3.3V	5.1V	9.5V	9.5V	0V	2.4V	2.3V	1.5V	2.2V	2.3V	2.3V	1.8V	1.8V

Pin	E	C	B
V	0V	2.4V	0.6V

Pin	E	C	B
V	0V	8.4V	6V

REPLACEMENT PARTS LIST

Important Safety Notice

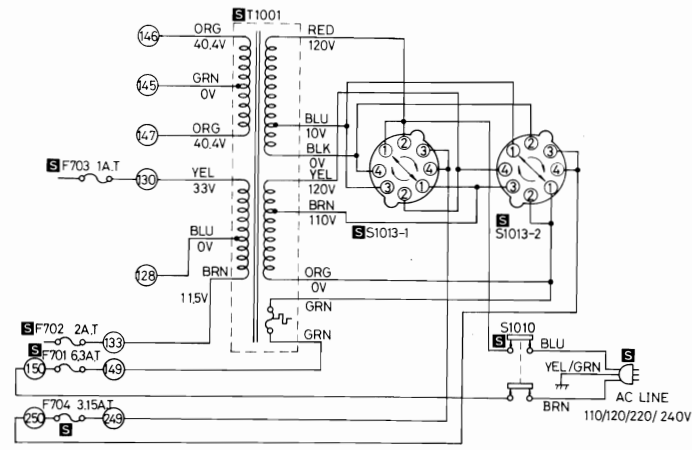
Components identified by shaded area have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

NOTE: 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts orders.

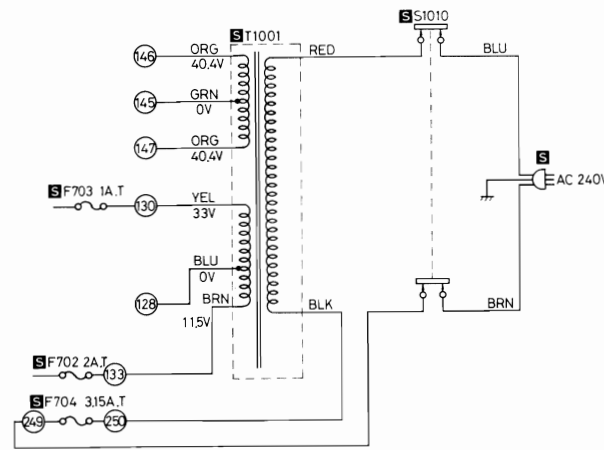
Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
INTEGRATED CIRCUITS				
IC1	SVIHA1151	AM RF, IF Amplifier Mix, Osc & Det	1	
IC101	SVILA1230	FM IF Amplifier & Discriminator	1	
IC102	SVIHA1156W	FM MPX	1	
IC201, 202	SVITA7129P	Equalizer Amplifier	2	
TRANSISTORS				
TR1	3SK40-M	FM RF Amplifier (FET)	1	
TR2	2SC1674-M	FM Mixer	2	
TR3, 101	2SC1675-L1	FM Oscillator & IF Amplifier	13	
TR4, 102, 106	2SC1328-T	Switching, Tone Amplifier, Ripple Filter & Speakers Protection (in ranks S or T).	2	○ ○ ○ ○
502, 503, 504, 615, 616, 619, 701				
TR103, 104	2SA733-P1	AF Amplifier	2	
TR105	2SC1398-Q	Regulator, (ranks Q or R)	1	
TR601, 602	2SA798A-G2	Differential Amplifier (ranks F2 or G2)	2	
TR603, 604	2SC1628-0	Pre Drive Amplifier (ranks O or Y)	2	
TR605, 606	2SC828A-R	Thermo Compensation	2	
TR607, 608	2SD381A-L9	Driver Amp Use in pair ranks (L or M)	2	
TR609, 610	2SB536A-L9	Driver Amp Use in pair ranks (O or Y)	2	
TR611, 612	2SC1116A-0	Power Amp Use in pair ranks (O or Y)	2	
TR613, 614	2SA747A-0	Power Amp Use in pair ranks (O or Y)	2	
TR617, 618	2SA1509F-Q	Relay Driver (in ranks Q or R)	2	
TR620	2SA902-F	Speaker Protection Switching	1	
		Note: TR619 and TR620, Use only set for England [XE].		
DIODES				
D101, 102	OA90	AGC	2	
D103, 104, 105, 106, 108, 110, 111	MA150	Muting Switching	7	
D107	SVDMZ414	14V Zener, Voltage Stabilizer	1	○
D109	SVDMZ26-2	Varistor	1	○
D601	SVDMZ324	24V Zener, Voltage Stabilizer	1	
D602, 603, 702, 703	SVD10E1	Rectifier	4	
D701	SVD686CTA-2	Rectifier	1	
COILS and TRANSFORMERS				
L1	SLAA4W1-3	Balun Coil	1	
L2	SLAA4N9	FM Antenna Coil	1	
L3	SLEA4N18	FM Detector Coil	1	
L4	EL05A77	Choke Coil	1	
L5	SLOA4N9	FM Oscillator Coil	1	
L6	RL02M4P	AM Oscillator Coil	1	
L7	SLI2M401	AM IF Filter Coil	1	
L8	SLE2D27	AM Antenna Coil	1	

CIRCUIT OF POWER SUPPLY

Set for England (XE)



Set for Australia (XAL)



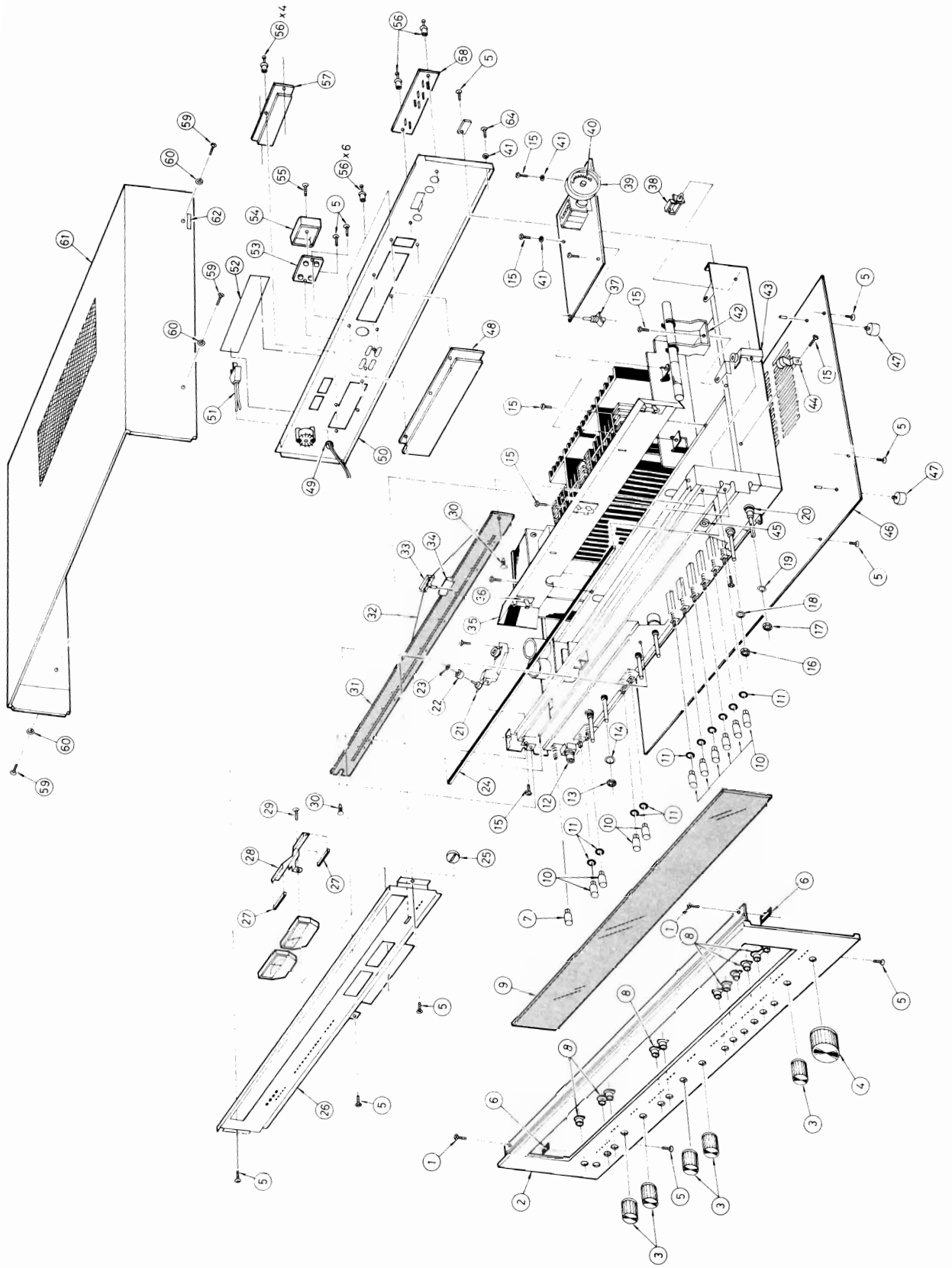
Note: \square indicates that only parts specified by the manufacturer be used for replacement in critical circuits.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
L101	SLOX180-1	Choke Coil	1	
L102	SLMA1Z3-K	Low Pass Filter	1	
T1	RLI2M201	AM IF Transformer	1	
T2	RLI2M202	AM IF Transformer	1	
T101 [XAL]	SUI4D513	FM IF Transformer	1	○
T1001 [XAL, XG, XGH, XE, XSD, XSW]	SLTS519	Power Transformer, Set for [XAL]	1	○
	SLTS515	Power Transformer, Set for [X], [XG], [XGH], [XE], [XSD] & [XSW]	1	
CERAMIC FILTERS				
CF101, 102, 103	SVFE107MAB8	FM IF Circuit, Red, 10.7MHz	each	
	SVFE107MAB9	FM IF Circuit, Blue, 10.67MHz	3	
	SVFE107MAB8	FM IF Circuit, Orange, 10.73MHz		
	SVFE107MAB8	FM IF Circuit, Black, 10.64MHz		
	SVFE107MAB8	FM IF Circuit, White, 10.76MHz		
		(Use pair ranks as same as CF101, 102, and CF103)		
THERMISTORS				
TH601, 602	RRT251	Thermistor, Drive Amplifier Circuit	2	
POSISTOR				
PH601 [XE]	SRP4BC60158	Posistor, Only set for England [XE]	1	
RESISTORS				
R1	ERD25TJ104	100kΩ, 1/4W, Carbon	1	
R2	ERD25TJ470	47Ω, 1/4W, Carbon	1	
R3	ERD25TJ151	150Ω, 1/4W, Carbon	1	
R4	ERD25TJ473	47kΩ, 1/4W, Carbon	1	
R5	ERD25TJ102	1kΩ, 1/4W, Carbon	1	
R6	ERD25TJ331	330Ω, 1/4W, Carbon	1	
R7	ERD25TJ470	47Ω, 1/4W, Carbon	1	
R8	ERD25TJ102	1kΩ, 1/4W, Carbon	1	
R9	ERD25TJ222	22kΩ, 1/4W, Carbon	1	
R10	ERD25TJ123	12kΩ, 1/4W, Carbon	1	
R11	ERD25TJ182	1.8kΩ, 1/4W, Carbon	1	
R12	ERD25TJ471	470Ω, 1/4W, Carbon	1	
R13	ERD25TJ682	6.8kΩ, 1/4W, Carbon	1	
R14	ERD25TJ331	330Ω, 1/4W, Carbon	1	
R15	ERD25TJ222	2.2kΩ, 1/4W, Carbon	1	
R16	ERD25TJ103	10kΩ, 1/4W, Carbon	1	
R17	ERD25TJ103	10kΩ, 1/4W, Carbon	1	
R18	ERD25TJ473	47kΩ, 1/4W, Carbon	1	
R19	ERD25TJ102	1kΩ, 1/4W, Carbon	1	
R20	ERD25TJ221	220Ω, 1/4W, Carbon	1	
R22	ERD25TJ104	100kΩ, 1/4W, Carbon	1	
R101	ERD25TJ151	150Ω, 1/4W, Carbon	1	
R102	ERD25TJ332	330Ω, 1/4W, Carbon	1	
R103	ERD25TJ682	6.8kΩ, 1/4W, Carbon	1	
R104	ERD25TJ102	1kΩ, 1/4W, Carbon	1	
R105	ERD25TJ471	470Ω, 1/4W, Carbon	1	
R106	ERD25TJ101	100Ω, 1/4W, Carbon	1	
R107	ERD25TJ103	10kΩ, 1/4W, Carbon	1	
R108	ERD25TJ152	1.5kΩ, 1/4W, Carbon	1	
R109	ERD25TJ104	100kΩ, 1/4W, Carbon	1	
R110	ERD25TJ471	470Ω, 1/4W, Carbon	1	
R111	ERD25TJ823	82kΩ, 1/4W, Carbon	1	
R112	ERD25TJ823	82kΩ, 1/4W, Carbon	1	
R113	ERD25TJ473	47kΩ, 1/4W, Carbon	1	
R114	ERD25TJ221	220Ω, 1/4W, Carbon	1	
R115	ERD25TJ104	100kΩ, 1/4W, Carbon	1	
R116	ERD25TJ682	6.8kΩ, 1/4W, Carbon	1	
R117	ERD25TJ562	5.6kΩ, 1/4W, Carbon	1	
R118	ERD25TJ272	2.7kΩ, 1/4W, Carbon	1	
R119	ERD25TJ101	100Ω, 1/4W, Carbon	1	
R120	ERD25TJ222	2.2kΩ, 1/4W, Carbon	1	
R121	ERD25TJ473	47kΩ, 1/4W, Carbon	1	
R122	ERD25TJ823	82kΩ, 1/4W, Carbon	1	
R123	ERD25TJ153	15kΩ, 1/4W, Carbon	1	
R124	ERD25TJ102	1kΩ, 1/4W, Carbon	1	
R125	ERD25TJ331	330Ω, 1/4W, Carbon	1	
R126	ERD25TJ104	100kΩ, 1/4W, Carbon	1	
R127	ERD25TJ562	5.6kΩ, 1/4W, Carbon	1	
R128	ERD25TJ562	5.6kΩ, 1/4W, Carbon	1	
R129	ERD25TJ682	6.8kΩ, 1/4W, Carbon	1	
R130	ERD25TJ682	6.8kΩ, 1/4W, Carbon	1	
R131	ERD25TJ472	4.7kΩ, 1/4W, Carbon	1	
R132	ERD25TJ472	4.7kΩ, 1/4W, Carbon	1	
R133	ERD25TJ561	560Ω, 1/4W, Carbon	1	
R134	ERD25TJ561	560Ω, 1/4W, Carbon	1	
R135	ERD25TJ472	4.7kΩ, 1/4W, Carbon	1	
R136	ERD25TJ472	4.7kΩ, 1/4W, Carbon	1	
R137	ERD25TJ473	47kΩ, 1/4W, Carbon	1	
R138	ERD25TJ473	47kΩ, 1/4W, Carbon	1	
R139	ERD25TJ101	100Ω, 1/4W, Carbon	1	
R140	ERD25TJ824	820kΩ, 1/4W, Carbon	1	
R141	ERD12FJ471	470Ω, 1/2W, Carbon	1	
R142	ERD12FJ471	470Ω, 1/2W, Carbon	1	
R143	ERD12FJ471	470Ω, 1/2W, Carbon	1	
R144	ERD25TJ151	150Ω, 1/4W, Carbon	1	
R145	ERD25TJ100	10Ω, 1/4W, Carbon	1	
R146	ERD25TJ332	3.3kΩ, 1/4W, Carbon	1	
R147	ERD25TJ100	10Ω, 1/4W, Carbon	1	
R148	ERD25TJ473	47kΩ, 1/4W, Carbon	1	
R149	ERD25TJ153	15kΩ, 1/4W, Carbon	1	
R150	ERD25TJ473	47kΩ, 1/4W, Carbon	1	
R151	ERD25TJ104	100kΩ, 1/4W, Carbon	1	
R152	ERD25TJ123	12kΩ, 1/4W, Carbon	1	
R153	ERD25TJ273	27kΩ, 1/4W, Carbon	1	
R154	ERD25TJ104	100kΩ, 1/4W, Carbon	1	
R201	ERD12TSJ274	270kΩ, 1/2W, Carbon	1	
R202	ERD12TSJ274	270kΩ, 1/2W, Carbon	1	
R203	ERD25TJ331	330Ω, 1/4W, Carbon	1	
R204	ERD25TJ331	330Ω, 1/4W, Carbon	1	
R205	ERD12TSJ334	330kΩ, 1/2W, Carbon	1	
R206	ERD12TSJ334	330kΩ, 1/2W, Carbon	1	
R207	ERD25TJ103	10kΩ, 1/4W, Carbon	1	
R208	ERD25TJ103	10kΩ, 1/4W, Carbon	1	
R209	ER050CKF1743	174kΩ, 1/4W, Metallic	1	
R210	ER050CKF1743	174kΩ, 1/4W, Metallic	1	
R211	ER050CKF1502	15kΩ, 1/2W, Metallic	1	
R212	ER050CKF1502	15kΩ, 1/2W, Metallic	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R215	ERD25TJ104	100kΩ, 1/4W, ± 5%, Carbon	1	
R216	ERD25TJ104	100kΩ, 1/4W, ± 5%, Carbon	1	
R217	ERD12TSJ563	56kΩ, 1/2W, ± 5%, Carbon	1	
R218	ERD12TSJ563	56kΩ, 1/2W, ± 5%, Carbon	1	
R219	ERD25TJ101	100Ω, 1/4W, ± 5%, Carbon	1	
R220	ERD25TJ101	100Ω, 1/4W, ± 5%, Carbon	1	
R221	ERD25TJ331	330Ω, 1/4W, ± 5%, Carbon	1	
R222	ERD25TJ331	330Ω, 1/4W, ± 5%, Carbon	1	
R223	ERD14FJ102	1kΩ, 1/4W, ± 5%, Carbon	1	
R501	ERD25TJ394	390kΩ, 1/4W, ± 5%, Carbon	1	
R502	ERD25TJ394	390kΩ, 1/4W, ± 5%, Carbon	1	
R503	ERD25TJ102	1kΩ, 1/4W, ± 5%, Carbon	1	
R504	ERD25TJ102	1kΩ, 1/4W, ± 5%, Carbon	1	
R505	ERD25TJ393	39kΩ, 1/4W, ± 5%, Carbon	1	
R506	ERD25TJ393	39kΩ, 1/4W, ± 5%, Carbon	1	
R507	ERD25TJ392	3.9kΩ, 1/4W, ± 5%, Carbon	1	
R508	ERD25TJ392	3.9kΩ, 1/4W, ± 5%, Carbon	1	
R509	ERD25TJ823	82kΩ, 1/4W, ± 5%, Carbon	1	
R510	ERD25TJ823	82kΩ, 1/4W, ± 5%, Carbon	1	
R511	ERD25TJ332	3.3kΩ, 1/4W, ± 5%, Carbon	1	
R512	ERD25TJ332	3.3kΩ, 1/4W, ± 5%, Carbon	1	
R513	ERD25TJ391	390Ω, 1/4W, ± 5%, Carbon	1	
R514	ERD25TJ391	390Ω, 1/4W, ± 5%, Carbon	1	
R515	ERD25TJ103	10kΩ, 1/4W, ± 5%, Carbon	1	
R516	ERD25TJ103	10kΩ, 1/4W, ± 5%, Carbon	1	
R517	ERD25TJ153	15kΩ, 1/4W, ± 5%, Carbon	1	
R518	ERD25TJ153	15kΩ, 1/4W, ± 5%, Carbon	1	
R519	ERD25TJ122	1.2kΩ, 1/4W, ± 5%, Carbon	1	
R520	ERD25TJ122	1.2kΩ, 1/4W, ± 5%, Carbon	1	
R521	ERD25TJ103	10kΩ, 1/4W, ± 5%, Carbon	1	
R522	ERD25TJ103	10kΩ, 1/4W, ± 5%, Carbon	1	
R523	ERD25TJ394	390kΩ, 1/4W, ± 5%, Carbon	1	
R524	ERD25TJ394	390kΩ, 1/4W, ± 5%, Carbon	1	
R525	ERD25TJ563	56kΩ, 1/4W, ± 5%, Carbon	1	
R526	ERD25TJ563	56kΩ, 1/4W, ± 5%, Carbon	1	
R527	ERD25TJ822	8.2kΩ, 1/4W, ± 5%, Carbon	1	
R528	ERD25TJ822	8.2kΩ, 1/4W, ± 5%, Carbon	1	
R529	ERD25TJ272	2.7kΩ, 1/4W, ± 5%, Carbon	1	
R530	ERD25TJ272	2.7kΩ, 1/4W, ± 5%, Carbon	1	
R531	ERD25TJ683	68kΩ, 1/4W, ± 5%, Carbon	1	
R532	ERD25TJ683	68kΩ, 1/4W, ± 5%, Carbon	1	
R533	ERD25TJ272	2.7kΩ, 1/4W, ± 5%, Carbon	1	
R534	ERD25TJ272	2.7kΩ, 1/4W, ± 5%, Carbon	1	
R535	ERD25TJ562	5.6kΩ, 1/4W, ± 5%, Carbon	1	
R536	ERD25TJ562	5.6kΩ, 1/4W, ± 5%, Carbon	1	
R537	ERD14FJ102	1kΩ, 1/4W, ± 5%, Carbon	1	
R601	ERD25TJ824	820kΩ, 1/4W, ± 5%, Carbon	1	
R602	ERD25TJ824	820kΩ, 1/4W, ± 5%, Carbon	1	
R603	ERD25TJ102	1kΩ, 1/4W, ± 5%, Carbon	1	
R604	ERD25TJ102	1kΩ, 1/4W, ± 5%, Carbon	1	
R605	ERD25TJ563	56kΩ, 1/4W, ± 5%, Carbon	1	
R606	ERD25TJ563	56kΩ, 1/4W, ± 5%, Carbon	1	
R607	ERD25TJ153	15kΩ, 1/4W, ± 5%, Carbon	1	
R608	ERD25TJ153	15kΩ, 1/4W, ± 5%, Carbon	1	
R609	ERD25TJ102	1kΩ, 1/4W, ± 5%, Carbon	1	
R610	ERD25TJ102	1kΩ, 1/4W, ± 5%, Carbon	1	
R611	ERD25TJ102	1kΩ, 1/4W, ± 5%, Carbon	1	
R612	ERD25TJ102	1kΩ, 1/4W, ± 5%, Carbon	1	
R613	ERD25TJ182	1.8kΩ, 1/4W, ± 5%, Carbon	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R614	ERD25TJ182	1.8kΩ, 1/4W, ± 5%, Carbon	1	
R615	ERD25TJ104	100kΩ, 1/4W, ± 5%, Carbon	1	
R616	ERD25TJ104	100kΩ, 1/4W, ± 5%, Carbon	1	
R617	ERG1ANJ152	1.5kΩ, 1W, ± 5%, Metallic	1	
R618	ERG1ANJ152	1.5kΩ, 1W, ± 5%, Metallic	1	
R619	ERD12FJ472	4.7kΩ, 1/2W, ± 5%, Carbon	1	
R620	ERD12FJ472	4.7kΩ, 1/2W, ± 5%, Carbon	1	
R621	ERD25TJ471	470Ω, 1/4W, ± 5%, Carbon	1	
R622	ERD25TJ471	470Ω, 1/4W, ± 5%, Carbon	1	
R623	ERD25TJ152	1.5kΩ, 1/4W, ± 5%, Carbon	1	
R624	ERD25TJ152	1.5kΩ, 1/4W, ± 5%, Carbon	1	
R625	ERD14FJ681	680Ω, 1/4W, ± 5%, Carbon	1	
R626	ERD14FJ681	680Ω, 1/4W, ± 5%, Carbon	1	
R627	ERD14FJ100	10Ω, 1/4W, ± 5%, Carbon	1	
R628	ERD14FJ100	10Ω, 1/4W, ± 5%, Carbon	1	
R629	ERD14FJ101	100Ω, 1/4W, ± 5%, Carbon	1	
R630	ERD14FJ101	100Ω, 1/4W, ± 5%, Carbon	1	
R631	ERD14FJ470	47Ω, 1/4W, ± 5%, Carbon	1	
R632	ERD14FJ470	47Ω, 1/4W, ± 5%, Carbon	1	
R633	ERD14FJ330	33Ω, 1/4W, ± 5%, Carbon	1	
R634	ERD14FJ330	33Ω, 1/4W, ± 5%, Carbon	1	
R635	ERD14FJ330	33Ω, 1/4W, ± 5%, Carbon	1	
R636	ERD14FJ330	33Ω, 1/4W, ± 5%, Carbon	1	
R637	ERD14FJ331	330Ω, 1/4W, ± 5%, Carbon	1	
R638	ERD14FJ331	330Ω, 1/4W, ± 5%, Carbon	1	
R639	ERF5AKR47	0.47Ω, 5W, ±10%, Non-Flammable	1	
R640	ERF5AKR47	0.47Ω, 5W, ±10%, Non-Flammable	1	
R641	ERF5AKR47	0.47Ω, 5W, ±10%, Non-Flammable	1	
R642	ERF5AKR47	0.47Ω, 5W, ±10%, Non-Flammable	1	
R643	ERD25TJ104	100kΩ, 1/4W, ± 5%, Carbon	1	
R644	ERD25TJ104	100kΩ, 1/4W, ± 5%, Carbon	1	
R645	ERD25TJ563	56kΩ, 1/4W, ± 5%, Carbon	1	
R646	ERD25TJ563	56kΩ, 1/4W, ± 5%, Carbon	1	
R647	ERG2ANJ331	330Ω, 2W, ± 5%, Metallic	1	
R648	ERG2ANJ331	330Ω, 2W, ± 5%, Metallic	1	
R649	ERX2ANJ100	10Ω, 2W, ± 5%, Metallic	1	
R650	ERX2ANJ100	10Ω, 2W, ± 5%, Metallic	1	
R651	ERD12FJ272	2.7kΩ, 1/2W, ± 5%, Carbon	1	
R652	ERG2ANJ102	1kΩ, 2W, ± 5%, Metallic	1	
R653	ERD25TJ153	15kΩ, 1/4W, ± 5%, Carbon	1	
R654	ERD25TJ822	8.2kΩ, 1/4W, ± 5%, Carbon	1	
R655	ERD25TJ393	39kΩ, 1/4W, ± 5%, Carbon	1	
R656	ERD25TJ564	560kΩ, 1/4W, ± 5%, Carbon	1	
R657	ERD25TJ333	33kΩ, 1/4W, ± 5%, Carbon	1	
R658	ERD25TJ472	4.7kΩ, 1/4W, ± 5%, Carbon	1	
R659	Resistors, only Set for England [XE]			
R660 [XE]	ERD25TJ393	39kΩ, 1/4W, ± 5%, Carbon	1	
R661 [XE]	ERD25TJ123	12kΩ, 1/4W, ± 5%, Carbon	1	
R662 [XE]	ERD25TJ563	56kΩ, 1/4W, ± 5%, Carbon	1	
R663 [XE]	ERD25TJ824	820kΩ, 1/4W, ± 5%, Carbon	1	
R664 [XE]	ERD25TJ124	120kΩ, 1/4W, ± 5%, Carbon	1	
R665 [XE]	ERD25TJ124	120kΩ, 1/4W, ± 5%, Carbon	1	
R666 [XE]	ERD25TJ563	56kΩ, 1/4W, ± 5%, Carbon	1	

■ CABINET & CHASSIS PARTS

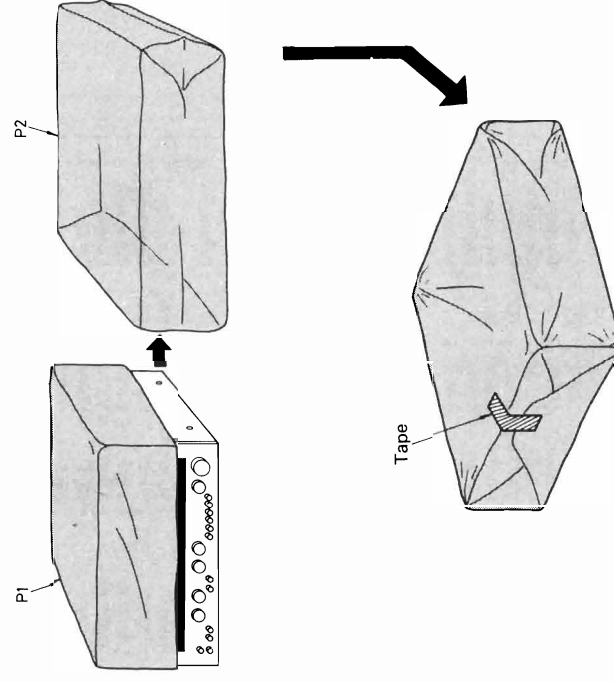


Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
S1013 [X, XG, XGH, XSD, XSW, XE]	SSR53S	Voltage Selector Switch, Except Set for Australia [XAL]	1	
FLY601	SSY13	RELAY Relay, Speakers Protection	1	
	SSM77 SSM79	METERS Meter, Signal Meter, Tuning	1 1	
CABINET and CHASSIS PARTS				
1	XTS3+8CFZ	Screw, Front Panel M'tg	2	○
2	SGW7370	Panel, Front	1	○
3	SN583	Knob, Tone, Volume, Balance, Selector	5	○
4	SN585-2	Knob, Tuning	1	○
5	XTB3+8BFZ	Screw, Chassis M'tg	23	
6	SHP641	Spacer, Front Panel	2	
7	SBC147	Button, Power Push Switch	5%	○
8	SGX6455	Sleeve, Push Switch Buttons	10	○
9	SGU13	Button, Push Switches	10	○
10	SBC149	Button, Push Switches	10	○
11	XCJ6N11B-A	Jack, Headphones	1	
12	XNS8	Nut, Tone, Balance & Volume Control	4	
13	XWV8	Spring Washer, Tone, Balance & Volume	4	
14	XTV3+8C	Screw, Chassis M'tg	11	
15	XNS7	Nut, Selector Switch M'tg	1	
16	XNS9	Nut, Tuning Control M'tg	1	
17	XWV7	Spring Washer, Selector Switch	1	
18	XWV9	Spring Washer, Tuning Control	1	
19	SOT8007-1	Shaft, Tuning Control Ass'y	1	
20	SDX751S	Flywheel, Tuning	1	○
	XXAS3K5S	Screw, Flywheel M'tg	2	
21	SXE727	Shaft, Dial Cord Ass'y	1	○
22	DRR20	Pulley, Dial Cord	4	
23	RNW150-2	Washer, Pulley Lock	4	
24	SUM7	Bracket, Dial Scale	1	○
25	SGL51	Orange Filter, Stereo Indicator	1	
26	SDH351	Plate, Dial Light	1	
27	RHG109	Rubber Cushion, Meter	2	
28	MMMA10-2	Bracket, Meter	1	
29	XTV3+6C	Screw, Meter Bracket M'tg	1	
30	SHRA916-1	Lock Pin, Dial Scale	2	○
31	SKD2570	Scale, Dial	1 roll	
32	SDZ6-1	Cord, Dial, 91 1/2" (230cm)	1	
33	SDPA8	Pointer, Dial	1	
34	SHPA4	Paper, Pointer Slide	1	
35	SMP245	Reflection Board, Dial Light	1	○
36	SJF109-2	Holder, Dial Light	3	
37	SRP3X5	Rivet, Dial Light Holder M'tg	3	
38	SHRA2	Spacer, FM/AM Tuner P.C.B.	1	
39	SHRA307	Clamp, Lead Wire	4	
40	SDD47-1	Drum, Dial Cord	1	
41	SWSA4121	Spring, Dial Cord	1	
42	XWC3B SMA209	Toothed Ring, P.C.B. M'tg Bracket, AM Antenna Coil	3 1	○

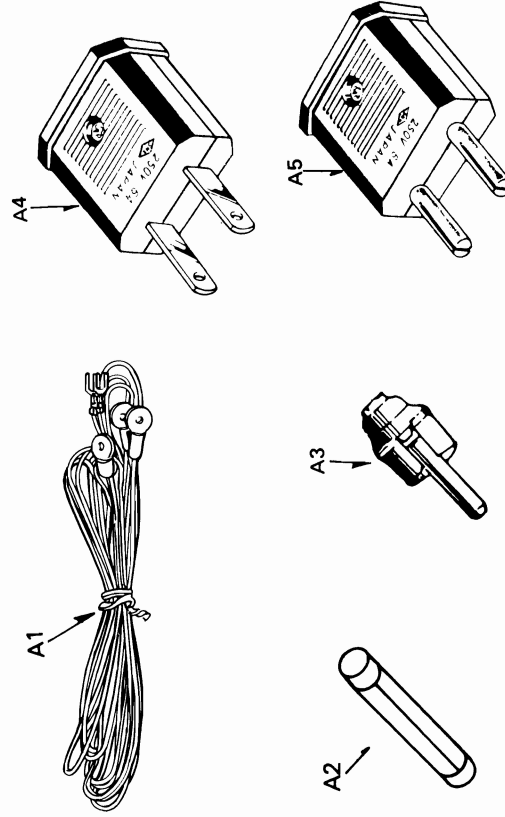
Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
43	RHG109	Rubber Cushion, AM Antenna Coil	2	○
44	SXE715	Shaft, Dial Cord Ass'y	1	○
45	SHGA204	Rubber Bracket, Stereo Indicator	1	○
46	SKU5750	Bottom Board	1	○
47	SKL145	Foot, Set (with Lock Pin)	4	○
48	SJF3015	Terminal, Input & Tape Deck	1	
49 [X, XG, XGH, XSD, XSW]	SJ56501	Socket, Tape Deck Connector (DIN)	1	
49 [X, XG, XGH, XSD, XSW]	SHR131	Bushing, AC Cord, Set for [X] & [XAL]	1	
50 [XAL]	SHR127	Bushing, AC Cord, Set for [X], [XG], [XGH], [XSW] & [XSD]	1	
50 [XAL]	SGP330-3J	Rear Panel, Set for [XAL]	1	○
50 [XAL]	SGP330-3GE	Rear Panel, Set for [XAL]	1	○
50 [X, XG, XGH]	SGP330-2GX	Rear Panel, Set for [X], [XG] & [XGH]	1	○
50 [XSD, XSW]	SGP330-2GD	Rear Panel, Set for [XSD] & [XSW]	1	○
51 [XAL]	SJA79	(with Name Plate SGT12491)	1	
51 [XAL]	SJA79	AC Cord, Set for [XAL]	1	
51 [X, XG]	SJA97	AC Cord, Set for [X] & [XG]	1	
51 [XGH, XSD]	SJA81	AC Cord, Set for [XGH] & [XSD]	1	
51 [XSW]	SJA68	AC Cord, Set for [XSW]	1	
52	SUE3	Cover, Hole	1	
53	SJF205	Holder, Circuit Protection Fuse	1	
54	SJFA5202-1	Cover, Fuse Holder	1	
55	XSN264-12	Screw, Fuse Cover M'tg	12	
56	SHR401-1	Lock Pin, Terminal M'tg	1	
57	SJF4803-1	Terminal, Speakers	1	
58	SJFA4402	Terminal, Antenna	1	
59	XTB4+12FFZ	Screw, Cabinet M'tg	4	
60	XWG5FZ	Washer, Cabinet Screw	4	
61 [XE]	SKA8590	Cabinet, Brown Wood, Set for [XE]	1	○
61 [X, XAL]	SKA8510	Cabinet, Brown Wood, Set for [X] & [XAL]	1	○
61 [XG, XGH, XSD, XSW]	SKA8511	Cabinet, Black Wood, Set for [XG], [XGH], [XSD] & [XSW]	1	○
62	SQXA4112	Caution Label, Cabinet Screw	1	
64	XTW3+8EFZ	Screw, Rear Panel M'tg	1	
ACCESSORIES				
A1	SSA251	Cord, 75Ω, FM Antenna	1	
A2	XBA2C40SS0	4A Fuse, Speaker Circuit Protection	2	
A3	RJP5	Pin Plug	4	
A4 [X]	SJP5213	AC Plug, Only Set for [X]	1	
A5 [X]	SJP5215	AC Plug, Only Set for [X]	1	
PACKING PARTS				
P1	SPPA87	Soft Cover	1	○
P2	SPPA65	Polyethylene Bag	1	○
P3	SPS381-1	Pad, Left Side	1	○
P4	SPS383-1	Pad, Right Side	1	○
P5 [XE]	SPS497	Pad, Corner, Set for [XE]	4	○
P5 [X, XAL]	SPS529	Pad, Corner, Set for [X] & [XAL]	4	○
P5 [XG, XGH, XSD, XSW]	SPS533	Pad, Corner, Set for [XG], [XGH], [XSD] & [XSW]	4	○
P6 [X, XAL]	SPS477	Pad, Bottom, Set for [X] & [XAL]	1	○

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
P6 [XG, XGH, XSD, XSW]	SPS531	Pad, Bottom, Set for [XG], [XGH], [XSD] & [XSW] (Except Set for [XE])	1	○
P7 [X, XAL]	SPN5169	Carton Box, Inner, Set for [X] & [XAL]	1	○
P8 [X, XAL]	SPG723	Carton Box, Outer, Set for [X] & [XAL]	1	○
P8 [XE]	SPG769	Carton Box, Outer, Set for [X] & [XE]	1	○
P8 [XG, XGH, XSD, XSW]	SPG727	Carton Box, Set for [XG], [XGH], [XSD] & [XSW]	1	○
P9 [XAL]	SQF1319	Printed Matter, Only Set for [XAL]	1	○
P9 [XE]	SQF1349	Printed Matter, Only Set for [XE]	1	○
P9 [X, XG, XGH, XSD, XSW]	SQF1279	Printed Matter, Set for [X], [XG], [XGH], [XSD] & [XSW]	1	○
<p>Notes: Set for [X] are European, Asia, Latin America, Oceania, Middle East and Africa. Set for [XG] are European Set for [XGH] is Holland Set for [XSD] are Denmark, Sweden, Norway and Finland. Set for [XSW] is Swiss Set for [XAL] is Australia. Set for [XE] is England.</p>				

PACKINGS



ACCESSORIES



A4 & A5 Set for (X)

Parts Change Notice

FM/AM STEREO RECEIVER

SA-5560 (X),(XG),(XGH),(XSD),(XSW),
(XGF),(XE),(XAL),(ES),(FE),(XM)
SA-5560A (FEE)

Re : Modification of Replacement Part

This is to advise you that part numbers of replacement parts have been changed on the following stereo models.

New part numbers (listed here in) are different from the replacement parts list of the stereo service manual.

Please revise the replacement parts list of the service manual or price list, and use new part numbers when placing replacement part orders.

Explanation of Notes :

Year	Month	Interchangeability	Reason of Change	New Suffix of set
5 1975	1 JAN.	A Part (OLD) → Set (OLD) (NEW) → (NEW)	1 To improve performance	New Suffix of set
6 1976	2 FEB.		2 Change of material or dimension	
7 1977	3 MAR.	B (OLD) → (OLD) (NEW) → (NEW)	3 To meet approved specification	
8 1978	4 APR.		4 Standardization of parts	
• •	5 MAY.	C (OLD) → (OLD) (NEW) → (NEW)	5 Addition of part	
• •	6 JUN.		6 Deletion of part	
• •	7 JUL.	D (OLD) → (OLD) (NEW) → (NEW)	7 Correction	
• •	8 AUG.		8 Other	
	J OCT.			
	K NOV.			
	L DEC.			

Notes :

How to use the interchangeability chart

- The arrows indicate which sets the part can be used in.
- For parts classified A, both the old and the new parts can be used in both the old and the new sets.
- For parts classified B, old parts cannot be used in new sets.
- For parts classified A and B, gradually new parts only should be stocked.
- For parts classified C, the use of old parts should be discontinued, for reasons of performance, etc.
- For parts classified D, both new parts and old parts should be stocked because old and new are not interchangeable.

SA-5560(X), (XG), (XGH), (XSD), (XSW), (XGF), (XGE), (XAL), (ES), (A-FEE), (FE), (XM)

Stereo Department

Additional changes: see ↴

Refer to cover page ↴

Line ↓	Description	Ref. No.	Service Manual Part No.	Notes →	Change - 1, (3)		Notes →	Change - 2, (4)		Line/ Page
					Part No.	Price		Part No.	Price	
1	Resistors	R203, 204	ERD18ZJ331B	6KC1	ERD25TJ102					
2	Resistors	R209, 210	ER050CK1743	72C3	ER025CKF1743					
3	Resistors	R213, 214	ER050CK1502	72C8	ER025CKF1502					
4	Resistors	R623, 624	ERD25TJ152	67C3	ERD14FJ152					
5	Capacitor (A-FEE Only)	C2	ECCD1H0101CC	67C7	ECCD1H010CC					
6	Meter (XG, XGH, XSD, XSW)	-----	SSM77	75C2	SSM111					
7	Meter (XG, XGH, XSD, XSW)	-----	SSM79	68C2	SBN653S					
8	Knob (XE, XG, XGH, XSD, XSW)	4	SBN585-2	76C5	SPG1255					
9	Carton (XGF Only)	P8	Addition							
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										