

Service Manual

FM/AM STEREO RECEIVER

SA-5360

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

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

AMPLIFIER SECTION

1kHz continuous power:	both channels driven	47W + 47W (4Ω) 42W + 42W (8Ω)
20Hz ~ 20kHz continuous power:	both channels driven	42W + 42W (4Ω) 38W + 38W (8Ω)
Power bandwidth (both channels driven at 8Ω):		7Hz ~ 40kHz, -3 dB
Total harmonic distortion:		0.3% at rated power (20Hz ~ 20kHz) 0.05% at half power (1kHz)
Intermodulation distortion:		0.5%
Damping factor:		40 (8Ω), 20 (4Ω)
Input sensitivity and impedance:	PHONO	2.5mV/47kΩ
	AUX, PLAYBACK	150mV/40kΩ
	REC/PLAY input	180mV/47kΩ
PHONO maximum input voltage:		130mV
S/N (IHF, A):	PHONO	75 dB
	AUX	90 dB
Frequency response:	PHONO	RIAA Standard curve ±0.5dB
	AUX	20Hz ~ 20kHz, +0.5 dB, -0.5 dB
Tone controls:	BASS	50Hz, +13 dB ~ -13 dB
	TREBLE	10kHz + 13 dB ~ -13 dB
Loudness control (volume at -30 dB):		50Hz, +10 dB
Output voltage:	TAPE REC OUT	180mV
	REC/PLAY output	30mV
High filter		7kHz, -6dB/oct.
FM TUNER SECTION		
Frequency range:		88 ~ 108MHz

Antenna impedance:		300Ω (balanced)	75Ω (unbalanced)
Sensitivity:			1.9μV
Total harmonic distortion:	MONO	0.15%	STEREO 0.3%
S/N:	MONO	73dB	STEREO 68 dB
Frequency response:			20Hz ~ 13kHz ±1.0 dB
Alternate channel selectivity:			70 dB
Capture ratio:			1.5 dB
Image rejection at 98MHz:			53 dB
IF rejection at 98MHz:			80 dB
AM suppression:			55 dB
Stereo separation:	1kHz	42 dB	10kHz 35 dB

Leak carrier:

- 37dB(19kHz), - 48dB(38kHz)

AM TUNER SECTION

Frequency range:		525 ~ 1605kHz
Sensitivity:		30μV, 300μV/m
Selectivity:		22 dB
Image rejection at 1000kHz:		45 dB
IF rejection at 1000kHz:		40 dB

GENERAL

Power consumption:		400W
Power supply:		110V/120V/220V/240V
Dimensions (W x H x D)		420 x 142 x 355mm (16-17/32" x 5-19/32" x 13-31/32")
Weight:		9.0kg (19.8 lb.)

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

VERSTÄRKERTEIL

RMS-Dauerleistung bei 1kHz:	beide Kanäle zusammen ausgesteuert	2 x 47W (4Ω) 2 x 42W (8Ω)
RMS-Dauerleistung bei 20Hz ~ 20kHz:	beide Kanäle zusammen ausgesteuert	2 x 42W (4Ω) 2 x 38W (8Ω)
Leistungsbandsbreite (beide Kanäle zusammen ausgesteuert bei 4Ω):		7 Hz ~ 40kHz, -3 dB
Harmonische Verzerrungen:		
Nennleistung bei 40Hz ~ 16,000Hz, 4Ω		0.3%
Intermodulationsverzerrung:		0.5%
Nennleistung bei 250Hz: 8000Hz = 4:1, 4Ω		
Dämpfungsfaktor:		40 (8Ω), 20 (4Ω)
Eingangsempfindlichkeit & Impedanz:	PHONO	2.5 mV/47kΩ
	AUX, PLAYBACK	150mV/40kΩ
	REC/PLAY Wiedergabe	180mV/47kΩ
PHONO Maximale Eingangsspannungen: (1kHz RMS)		130mV
Fremdspannungsabstand:	Nennleistung PHONO	65 dB
	AUX	75 dB
	50mW Ausgangsleistung PHONO	50 dB
	AUX	50 dB
Frequenzgang:	PHONO	RIAA Standardkurve ±0.5 dB
	AUX	20Hz ~ 20kHz, ±0.5 dB
Klangregler:	BASSE	50Hz, +13 dB ~ -13 dB
	HÖHEN	10kHz, +13 dB ~ -13 dB
Gehörgerechte Lautstärkekorrektur (Lautstärke -30 dB):		50Hz, +10 dB
Ausgangsspannungen:	REC OUT	180mV
	REC/PLAY Aufnahme	30mV
Hochtonfilter		7kHz, -6dB/oct
UKW-TUNERTEIL		
Empfangsbereich:		88 ~ 108MHz

Antennenanschluss:	300Ω (symmetrisch)	75Ω (asymmetrisch)
Empfindlichkeit:	1.8μV, 30 dB Fremdspannungsabstand 300Ω	
	1.5μV, 20 dB Fremdspannungsabstand 300Ω	
	1.3μV, 30 dB Fremdspannungsabstand 75Ω	
	0.9μV, 20 dB Fremdspannungsabstand 75Ω	
Harmonische Verzerrung:	MONO	0.15%
	STEREO	0.3%
Fremdspannungsabstand:	MONO	56 dB
	STEREO	54 dB
Frequenzgang:		20Hz ~ 13kHz, ±1.0dB

Selektivität:		70 dB
Gleichwellen-Selektion:		1.5 dB
Spiegelselektion bei 98MHz:		53 dB
ZF-Festigkeit bei 98MHz:		80 dB
AM-Unterdrückung:		55 dB
Stereo Übersprechdämpfung:		42 dB bei 1kHz, 35 dB bei 10kHz
Trägerrest:		- 37dB bei 19kHz, -48 dB bei 38kHz
Begrenzung, Einsatzpunkt:		1.0μV
Bandbreite:	ZF-Verstärker	250kHz
	UKW-Demodulator	1000kHz

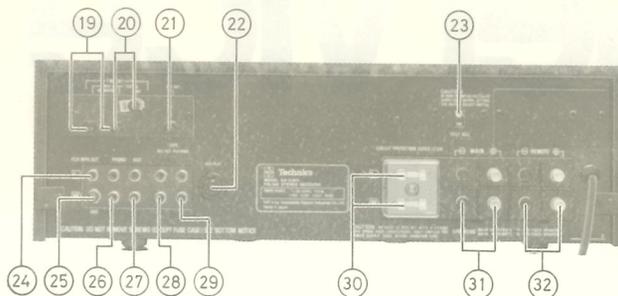
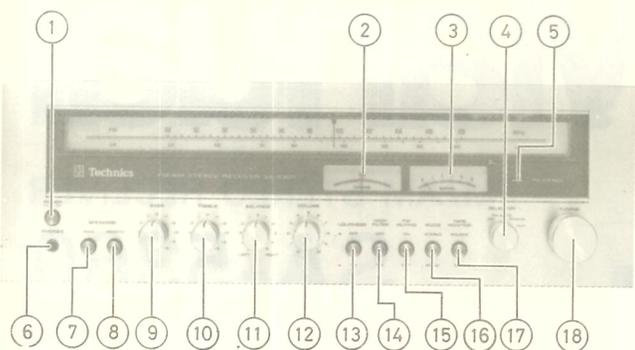
MW-TUNERTEIL

Empfangsbereich:		525 ~ 1605kHz
Empfindlichkeit:		30μV, 300μV/m
Selektivität:		22 dB
Spiegelselektion bei 1000kHz:		45 dB
ZF-Festigkeit bei 1000kHz:		40 dB

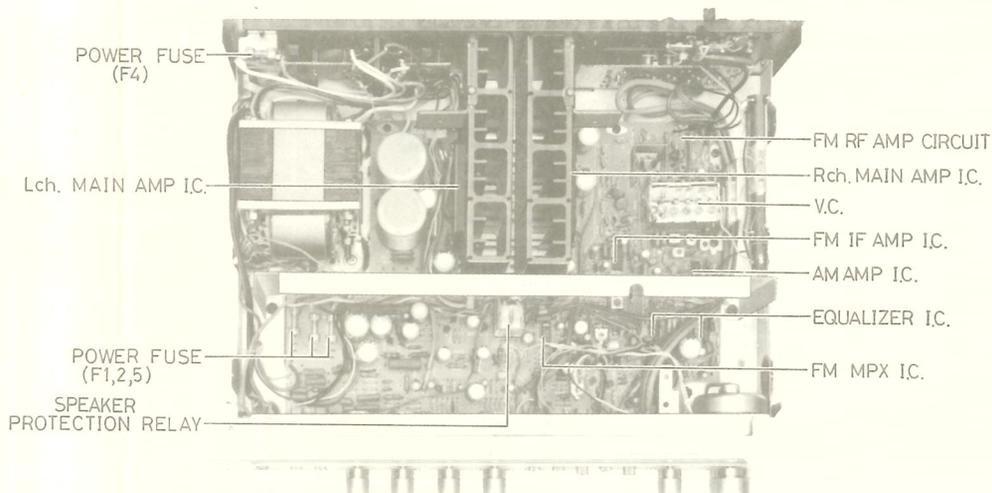
ALLGEMEINE DATEN

Leistungsaufnahme:		400W
Netzspannung umschaltbar:		110V/120V/220V/240V
Abmessungen (B x H x T):		420 x 142 x 355mm
Gewicht:		9.0kg

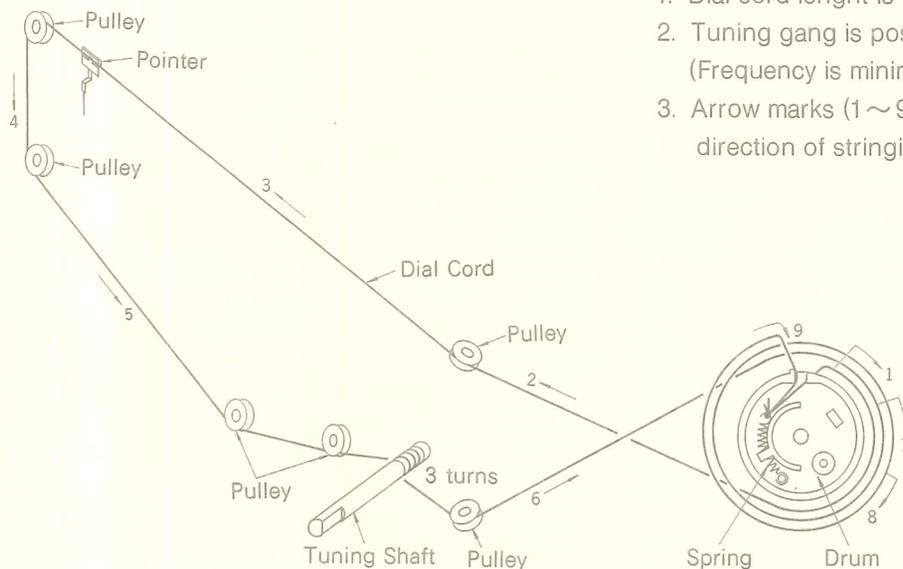
LOCATION OF CONTROLS



- | | | |
|-------------------------|-------------------------------|---|
| ① POWER SWITCH | ⑫ VOLUME CONTROL | ⑳ VOLTAGE SELECTOR SWITCH
(EXCEPT SET FOR AUSTRALIA) |
| ② FM TUNING METER | ⑬ LOUDNESS SWITCH | ㉔ 4CH MPX OUTPUT TERMINAL |
| ③ FM/AM SIGNAL METER | ⑭ HIGH FILTER SWITCH | ㉕ GROUND TERMINAL |
| ④ SELECTOR SWITCH | ⑮ FM MUTING SWITCH | ㉖ PHONO INPUT TERMINALS |
| ⑤ FM STEREO INDICATOR | ⑯ MODE SWITCH | ㉗ AUX INPUT TERMINALS |
| ⑥ HEADPHONES JACK | ⑰ TAPE MONITOR SWITCH | ㉘ TAPE DECK CONNECTION TERMINALS
(REC OUT) |
| ⑦ MAIN SPEAKER SWITCH | ⑱ TUNING CONTROL | ㉙ TAPE DECK CONNECTION TERMINALS
(PLAYBACK) |
| ⑧ REMOTE SPEAKER SWITCH | ㉑ FM ANTENNA TERMINALS (300Ω) | ㉚ SPEAKER CIRCUIT PROTECTION FUSES |
| ⑨ BASS CONTROL | ㉒ FM ANTENNA TERMINALS (75Ω) | ㉛ MAIN SPEAKER TERMINALS |
| ⑩ TREBLE CONTROL | ㉓ AM ANTENNA TERMINAL | ㉜ REMOTE SPEAKER TERMINALS |
| ⑪ BALANCE CONTROL | ㉔ REC/PLAY (DIN) SOCKET | |



DIAL CORD INSTALLATION GUIDE



■ 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.

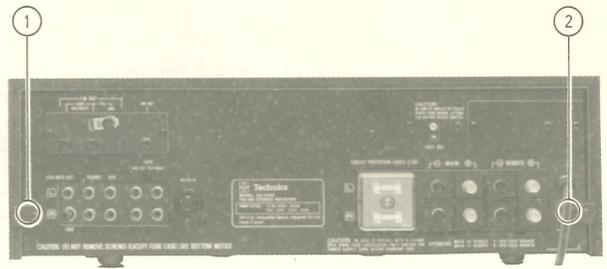


Fig. 1

■ TO REMOVE CHASSIS

1. Remove cabinet.
2. Remove four (4) heat sink-mounting screws, nos. ⑦~⑩ as shown in fig. 4.
3. Remove two (2) heat sink-mounting screws of rear panel, nos. ⑪ and ⑫ as shown in fig. 3.
4. Remove two (2) dial light reflection board-mounting screws, nos. ⑬ and ⑭ as shown in fig. 5.
5. Remove six (6) printed circuit board-mounting screws, nos. ⑮~⑳ as shown in fig. 5.
6. Remove four (4) front panel-mounting screws, nos. ㉑ and ㉒ as shown in fig. 6. (Left and Right side)
7. Hold front panel with both hands and lift carefully that lead wires or other constituent parts be not damaged, as shown in fig. 7.
8. To reassemble, reverse the above procedure. (Replace spacers of screws nos. ⑬ and ⑭ of dial light reflection board, and toothed rings of screws nos. ⑮~⑱.)

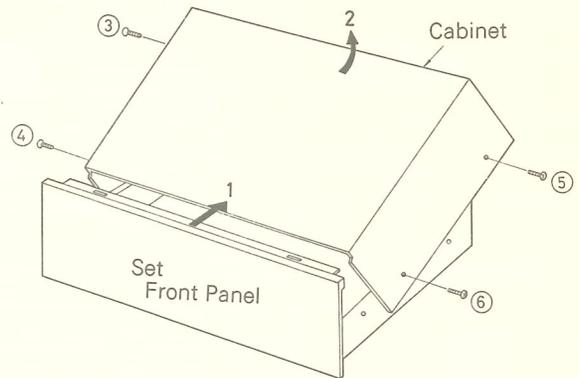


Fig. 2

■ TO REMOVE MAIN AMPLIFIER POWER I.C.'S

1. Remove cabinet from chassis.
2. Remove two (2) IC cover-mounting screws of bottom board, nos. ⑲ and ⑳ as shown in fig. 4.
3. Remove IC cover from bottom board.
4. Unsolder IC legs.
5. Remove ten (10) heat sink-mounting screws, nos. ⑦~⑩ and ㉕~⑳ as shown in fig. 4.
6. Remove two (2) heat sink-mounting screws, nos. ⑪ and ⑫ as shown in fig. 3.
7. Lift heat sink and then remove IC. For Right Channel unscrew the screw of dial light reflection board.

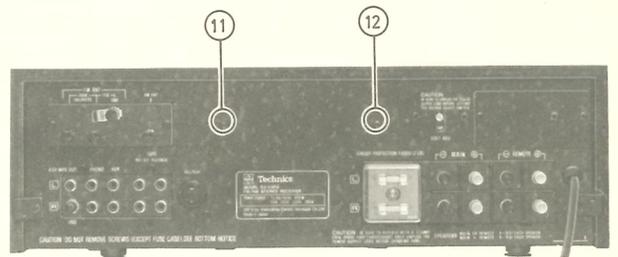


Fig. 3

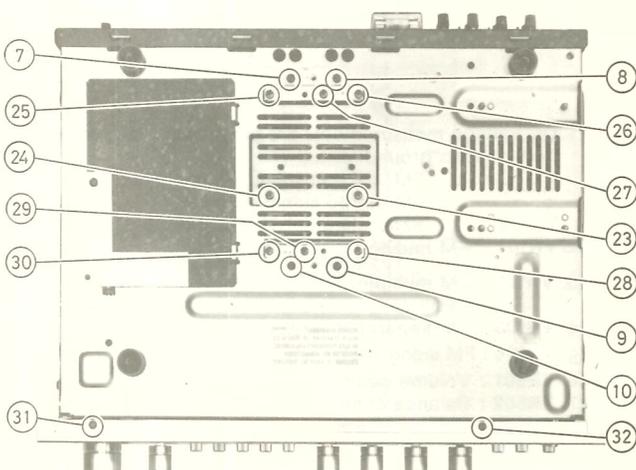


Fig. 4

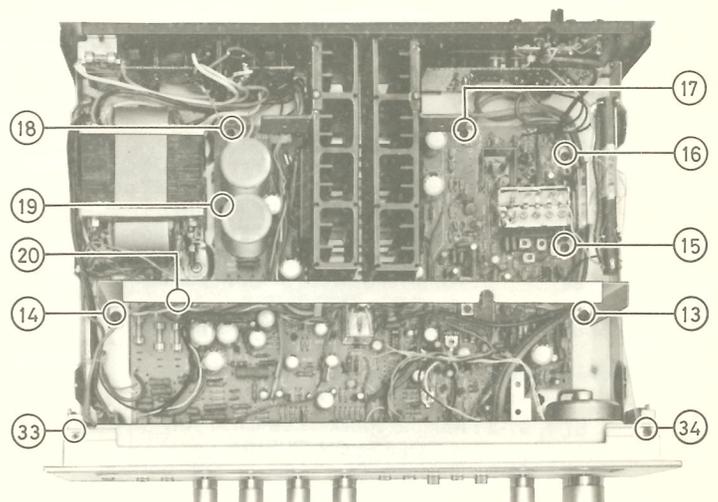


Fig. 5

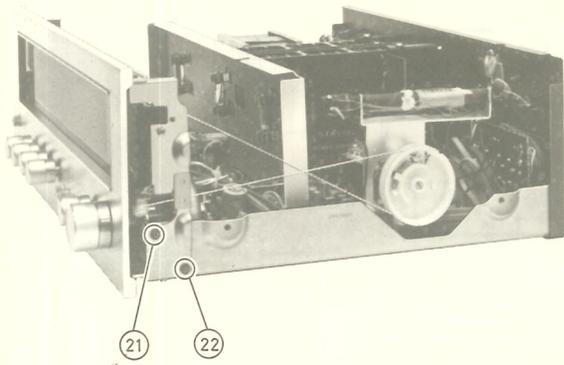


Fig. 6

■ TO REMOVE FRONT PANEL

1. Remove cabinet.
2. Pull out control knobs. (Bass, Treble, Balance, Volume, Selector and Tuning)
3. Remove four (4) front panel-mounting screws, nos. ①~④ as shown in fig. 4 and fig. 5.
4. Take off front panel carefully so that push buttons will not be damaged.

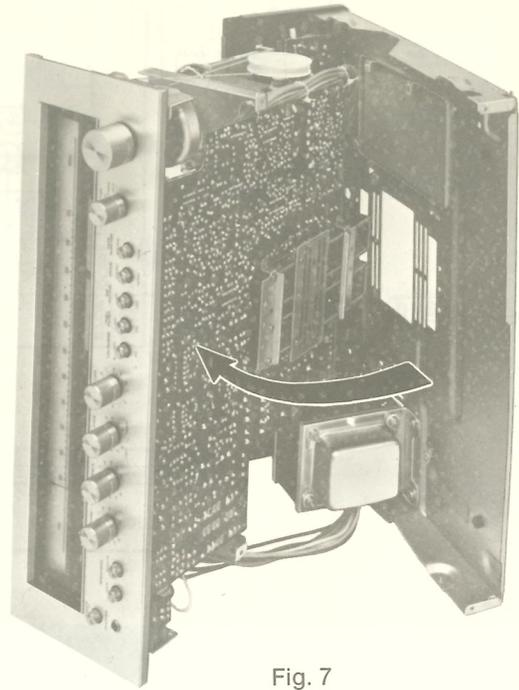
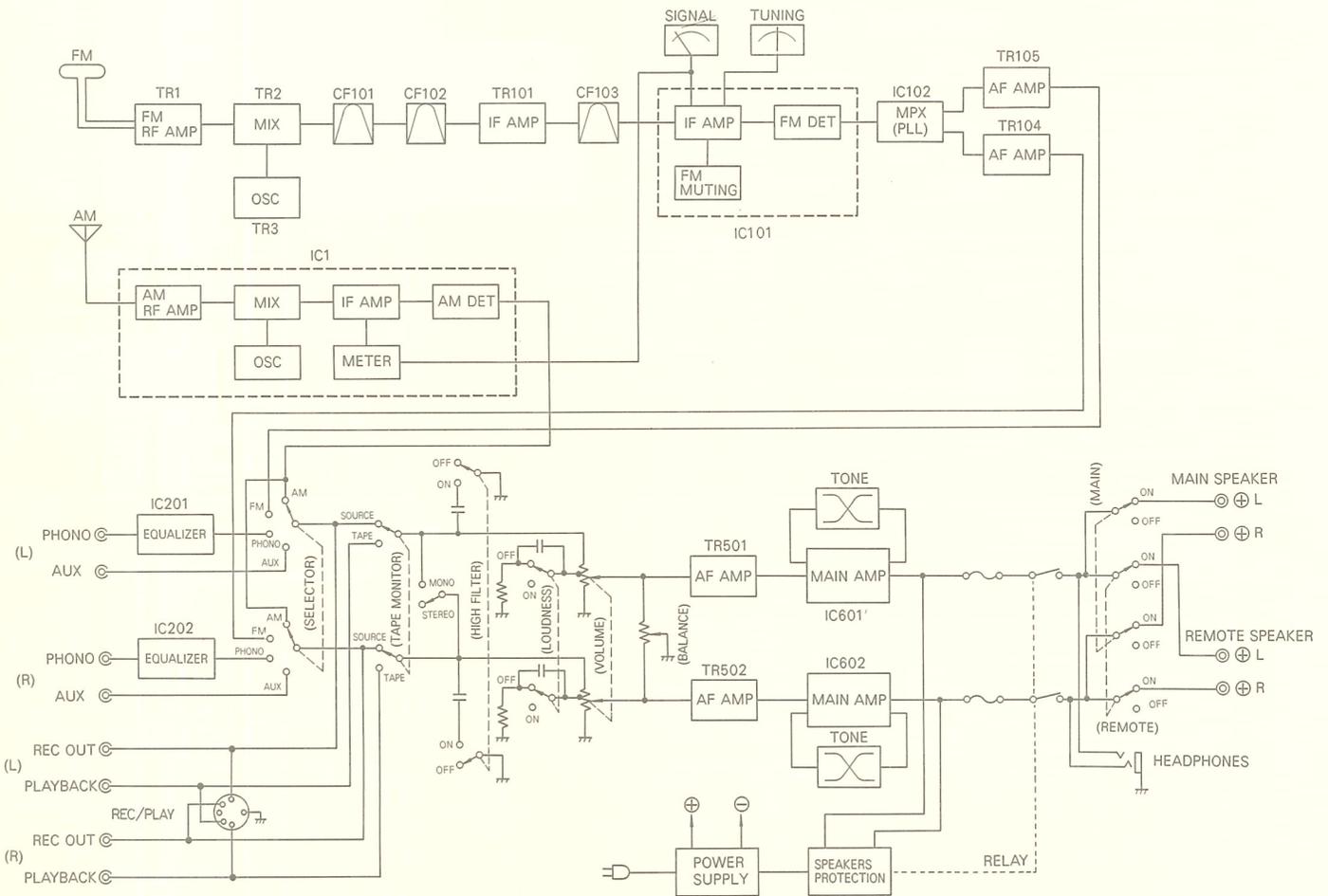


Fig. 7

■ BLOCK DIAGRAM



ALIGNMENT INSTRUCTIONS

Notes :

- | | |
|--|---|
| 1. Muting switch..... OFF | 5. Mode switch MONO |
| 2. Band selector switch..... AM/FM AUTO (FM-RF, FM-IF) | 6. Maintain line voltage at rated voltage. |
| 3. 300Ω FM dummy antenna Refer to fig. 1. | 7. Output of signal generator should be no higher than necessary to obtain an output reading. |
| 4. Speaker switch ON | |

SIGNAL GENERATOR or SWEEP GENERATOR		DIAL SETTING [DISTANCE]	INDICATOR (VTVM or SCOPE) [DISTORTION METER]	ADJUSTMENT POINTS	REMARKS						
CONNECTION	FREQUENCY										
AM ALIGNMENT											
1	High side through 0.001 μF to AM antenna 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.					
2	Fashion loop of several turns of wire and radiate signal into loop of tuner.	600kHz (30% Mod. with 400Hz)	600kHz [1 7/32" (45mm)]	Connect VTVM or scope to speaker terminal of receiver.	L8 (OSC Coil) L7 (ANT Coil)	Adjust for maximum output Adjust L7 by moving coil bobbin along ferrite core.					
3	Fashion loop of several turns of wire and radiate signal into loop of tuner.	1500kHz (30% Mod. with 400Hz)	1500kHz [7 5/8" (193.6mm)]	Connect VTVM or scope to speaker terminal of receiver.	CT5 (OSC Trimmer) CT4 (ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).					
FM-IF ALIGNMENT											
4		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											
5	Connect to FM antenna terminal through FM dummy antenna.	90MHz (100% Mod. with 400Hz)	90MHz [1 7/32" (30.5mm)]	Connect VTVM or scope to speaker terminal of receiver.	L6 (OSC Coil) L4 (DET Coil) L2 (ANT Coil)	Adjust for maximum output.					
6	Connect to FM antenna terminal through FM dummy antenna.	106MHz (100% Mod. with 400Hz)	106MHz [7 13/32" (187.5mm)]	Connect VTVM or scope to speaker terminal of receiver.	CT3 (OSC Trimmer) CT2 (DET Trimmer) CT1 (ANT Trimmer)	Adjust for maximum output. Repeat steps (5) and (6)					
FM-MONO DISTORTION ALIGNMENT											
7	Connect to FM antenna terminal through FM dummy antenna.	98MHz (100% Mod. with 400Hz)	98MHz	Connect distortion meter to speaker terminal of receiver.	T101 (DISCRI IFT) (B) Green Core	Adjust for minimum of distortion meter indication.					
SOFT MUTING LEVEL ALIGNMENT											
8	<table border="0"> <tr> <td>① Muting switch to "off".</td> <td>④ Muting switch to "on".</td> </tr> <tr> <td>② Apply a 60 dB (1mV) mono RF FM signal to the antenna terminals.</td> <td>⑤ Reduce FM signal to 19dB (9μV).</td> </tr> <tr> <td>③ Adjust Volume Control of receiver to indicate 0dB on meter across speaker terminals.</td> <td>⑥ Adjust VR101 to -3dB on output meter. Refer to fig. 4.</td> </tr> </table>					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 19dB (9μV).	③ Adjust Volume Control of receiver to indicate 0dB on meter across speaker terminals.	⑥ Adjust VR101 to -3dB on output meter. Refer to fig. 4.
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 19dB (9μV).										
③ Adjust Volume Control of receiver to indicate 0dB on meter across speaker terminals.	⑥ Adjust VR101 to -3dB on output meter. Refer to fig. 4.										
FM MPX PILOT ALIGNMENT											
Using a frequency counter			Using alternate system								
9	① 98MHz Non-modulated mono signal applied to set. ② Muting switch to "on". ③ Connect frequency counter to TP102 through resistor (100kΩ). ④ Adjust VR102 to 19kHz ±30Hz.			① Apply stereo signal from generator or stereo station to receiver. ② Adjust VR102 until stereo indicator lights up. Cement arm of VR102 as shown in fig. 2.							
STEREO SEPARATION ALIGNMENT											
<p>Note :</p> <p>1. Stereo modulator Connect stereo modulator output to EXT. MOD. terminal of signal generator. Internal OSC 1kHz Pilot signal modulation 10%</p> <p>2. Signal generator Frequency approximately 98MHz. Output level 72dB (IHF). Modulation mode to FM.</p> <p>3. Band selector switch FM AUTO</p>											
SIGNAL GENERATOR CONNECTION	STEREO MODULATOR MODE and MOD. RATE	INDICATOR (VTVM or SCOPE)		ADJUSTMENT POINTS	REMARKS						
10	FM antenna terminal through dummy antenna.	L (and R) 30% Modulation.		VR103	Adjust for minimum right (and left) output.						
FM SIGNAL METER ALIGNMENT											
11:	① Apply 98MHz FM signal of 100dB (about 100mV), 400Hz 30% modulation to FM antenna terminal. ② Tuning 98MHz for maximum output at speaker terminal. ③ Adjust VR104 to about 4.7 on signal meter scale.										

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 400Hz)	87.5 MHz [0mm]	Output meter über Lautsprecher-schwingenspule anschließen.	L ₆ (Oszillatorspule)	Auf max. Ausgang abgleichen.
"	90 MHz (")	90 MHz [30.5mm]	"	L ₄ (Zwischenkreis) L ₂ (Antennenspule)	"
"	106 MHz (")	106 MHz [187.5mm]	"	CT ₃ (OSZ. Trimmer) CT ₂ (DET. Trimmer) CT ₁ (ANT. Trimmer)	"

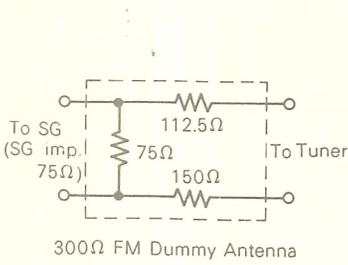


Fig. 1

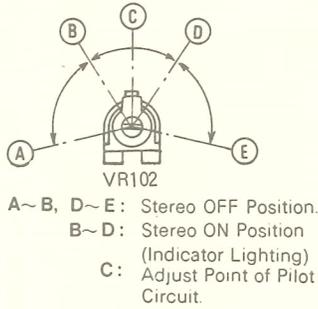


Fig. 2

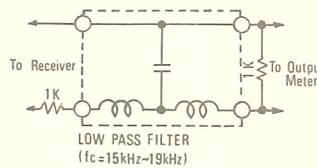


Fig. 3

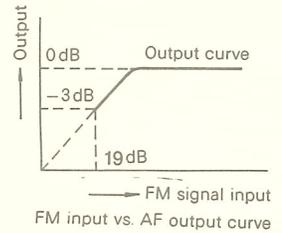
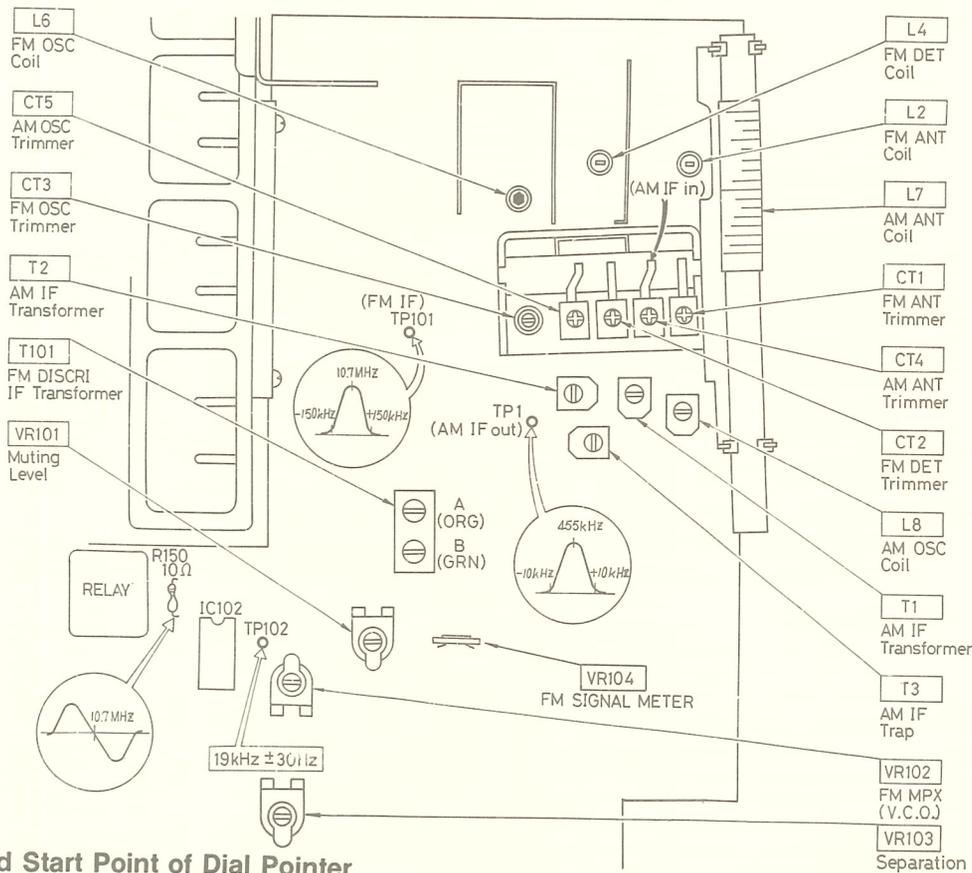
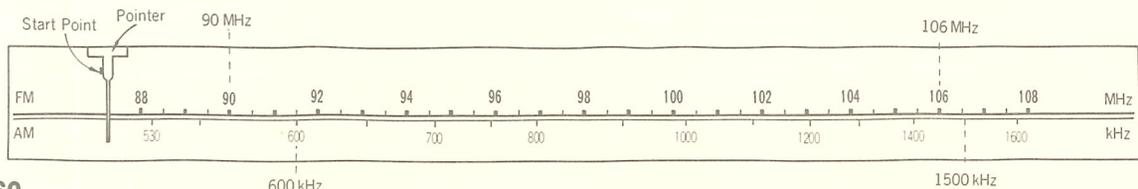


Fig. 4

Alignment Points

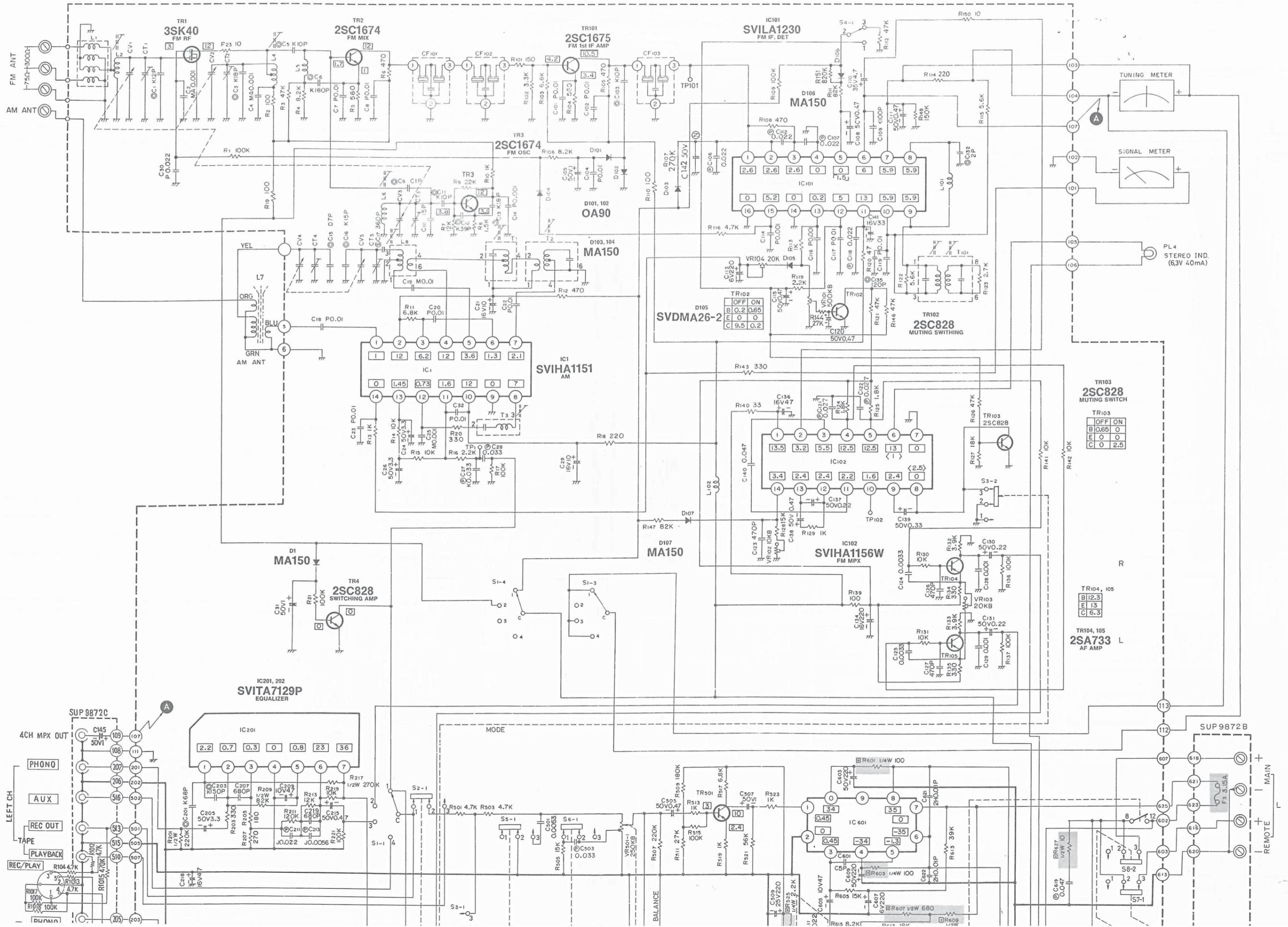


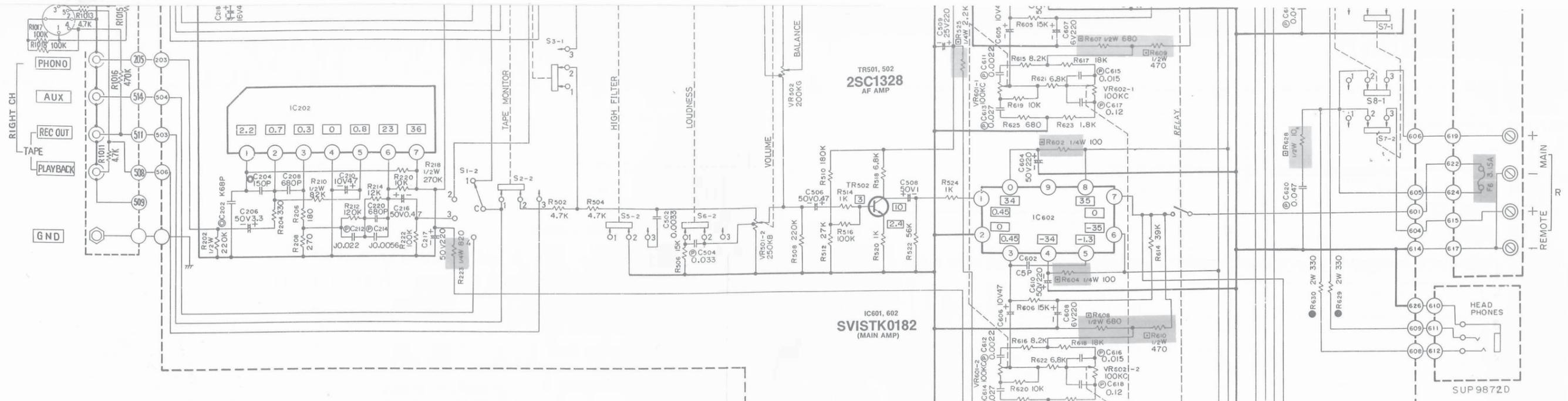
Dial Scale and Start Point of Dial Pointer



Schematic Diagram..... Model SA-5360

[X], [XG], [XGH], [XSD], [XSW] (This schematic diagram may be modified at any time with the development of new technology)

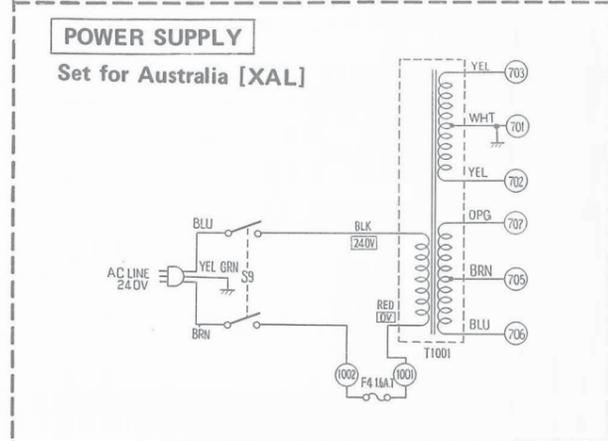
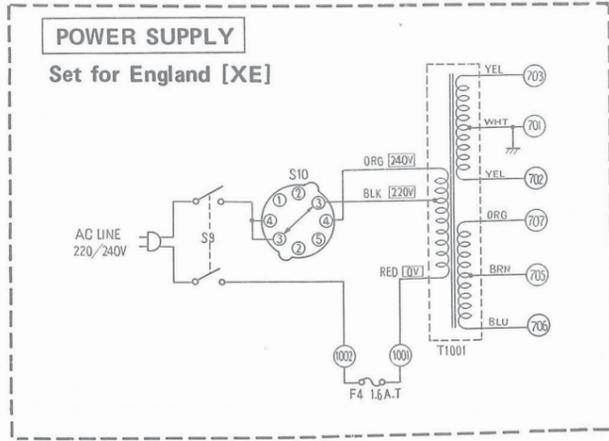
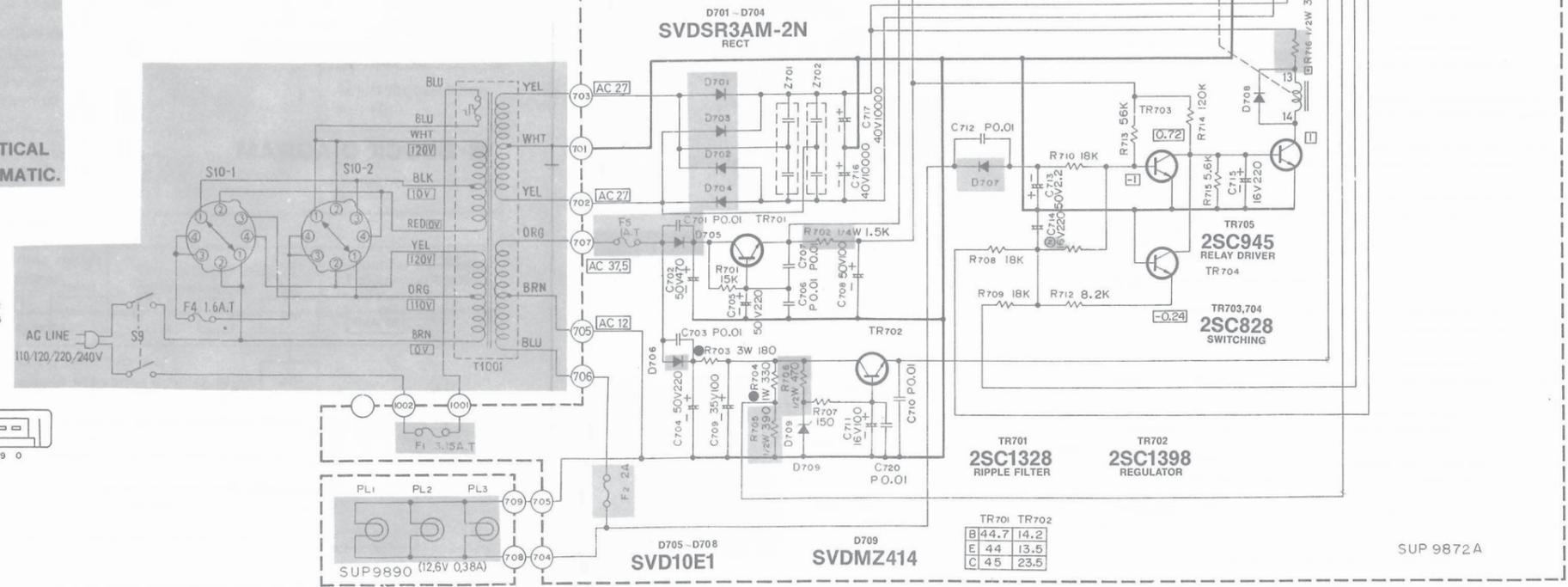
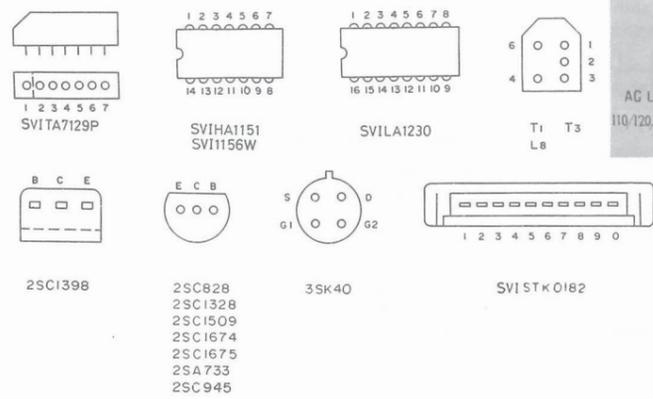




IMPORTANT SAFETY NOTICE

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

BOTTOM VIEW

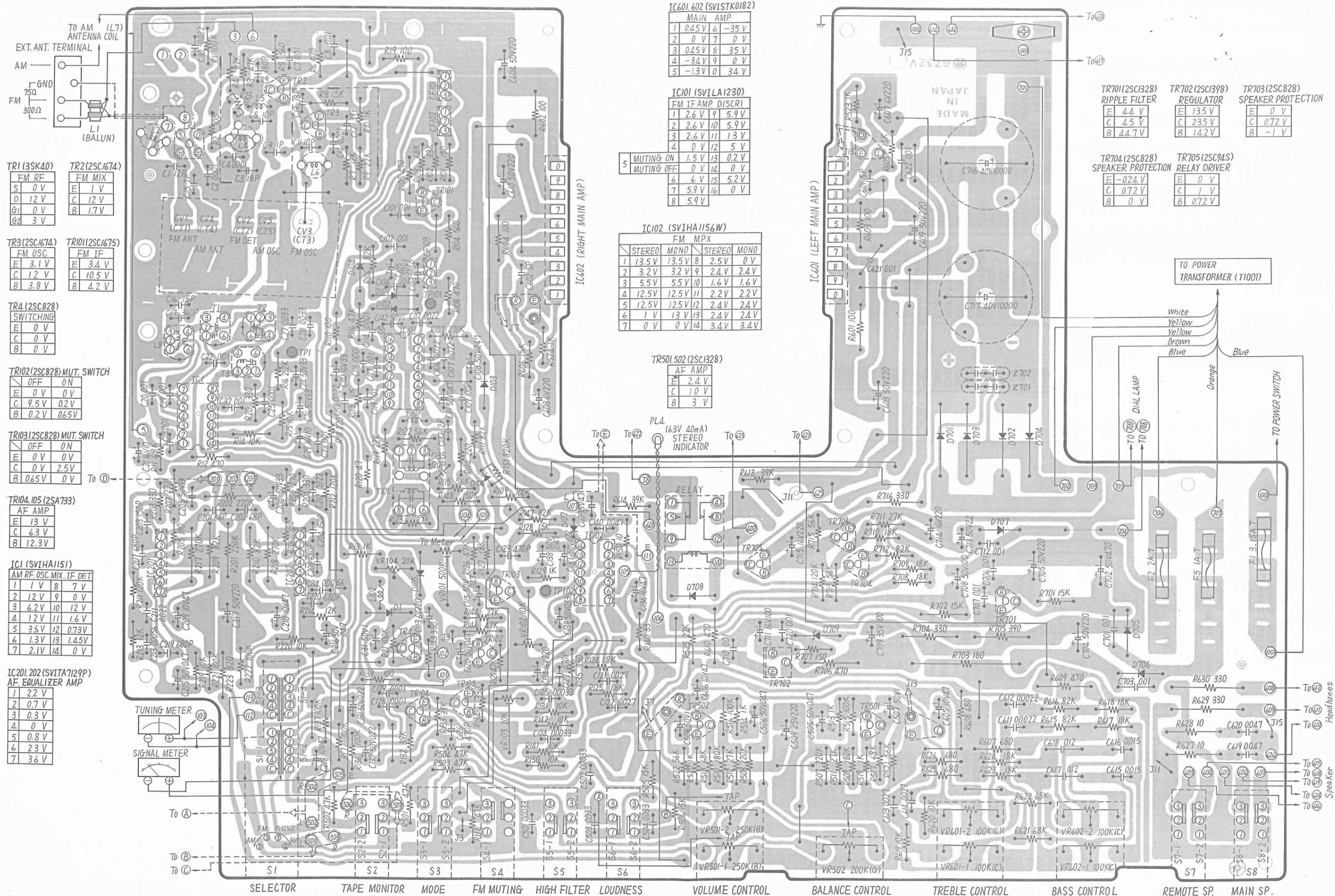


- Notes:**
- S1-1-S1-4: Selector switch in "AM" position.
① AM ↔ ② FM AUTO ↔ ③ PHONO ↔ ④ AUX
 - S2-1, S2-2: Tape monitor switch in "SOURCE" position.
SOURCE ↔ TAPE (PUSH)
 - S3-1, S3-2: Mode switch in "STEREO" position.
STEREO ↔ MONO (PUSH)
 - S4: FM muting switch in "OFF" position.
ON ↔ OFF (PUSH)
 - S5-1, S5-2: High filter switch in "OFF" position.
OFF ↔ ON (PUSH)
 - S6-1, S6-2: Loudness switch in "OFF" position.
OFF ↔ ON (PUSH)
 - S7-1, S7-2: Remote speakers switch in "ON" position.
OFF ↔ ON (PUSH)
 - S8-1, S8-2: Main speakers switch in "ON" position.
OFF ↔ ON (PUSH)
 - S9: Power switch in "OFF" position.
OFF ↔ ON (PUSH)
 - S10: Voltage selector switch in "110V" position.
1 110V ↔ 2 120V ↔ 3 220V ↔ 4 240V

- 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
- VR101: FM muting level adjustment
- VR102: FM multiplex voltage control oscillator (VCO) adjustment.
- VR103: FM separation adjustment.
- VR104: FM signal meter adjustment
- VR501: Volume control
- VR502: Balance control
- VR601: Treble control
- VR602: Bass control
- indicates that only parts specified by the manufacture be used for replacement in critical circuits.

Printed Circuit BoardModel SA-5360

FM/AM TUNER, TONE, MAIN AMP. & POWER SUPPLY



IC601.602 (SVISTK0182)

MAIN AMP	
1	0.45 V
2	0 V
3	0.45 V
4	-3.4 V
5	-1.3 V
6	-35 V
7	0 V
8	35 V
9	0 V
10	3.4 V

IC101 (SVILA1230)

FM IF AMP DISCRI	
1	2.6 V
2	2.6 V
3	2.6 V
4	0 V
5	0 V
6	1.5 V
7	0 V
8	5.9 V
9	5.9 V
10	5.9 V
11	1.3 V
12	5 V
13	0.2 V
14	0 V
15	5.2 V
16	0 V
17	5.9 V

IC102 (SVIHA1156W)

FM MPX			
STEREO	MONO	STEREO	MONO
1	13.5 V	13.5 V	8 2.5 V
2	3.2 V	3.2 V	9 2.4 V
3	5.5 V	5.5 V	10 1.6 V
4	12.5 V	12.5 V	11 2.2 V
5	12.5 V	12.5 V	12 2.4 V
6	1 V	13 V	13 2.4 V
7	0 V	0 V	14 3.4 V
			15 3.4 V

TR501.502 (2SC1328)

AF AMP	
E	2.4 V
C	10 V
B	3 V

TR701 (2SC1328) RIPPLE FILTER

E	4.4 V
C	4.5 V
B	4.4.7 V

TR702 (2SC1398) REGULATOR

E	13.5 V
C	235 V
B	14.2 V

TR703 (2SC828) SPEAKER PROTECTION

E	0 V
C	0.72 V
B	-1 V

TR704 (2SC828) SPEAKER PROTECTION

E	-0.24 V
C	0.72 V
B	0 V

TR705 (2SC94S) RELAY DRIVER

E	0 V
C	1 V
B	0.72 V

TR1 (3SK40) FM RF

S	0 V
D	1.2 V
G1	0 V
G2	3 V

TR2 (2SC1674) FM MIX

E	1 V
C	1.2 V
B	1.7 V

TR3 (2SC1674) FM OSC

E	3.1 V
C	1.2 V
B	3.8 V

TR101 (2SC1675) FM IF

E	3.4 V
C	10.5 V
B	4.2 V

TR4 (2SC828) SWITCHING

E	0 V
C	0 V
B	0 V

TR102 (2SC828) MUT. SWITCH

OFF	ON
E	0 V
C	9.5 V
B	0.2 V
	0.65 V

TR103 (2SC828) MUT. SWITCH

OFF	ON
E	0 V
C	0 V
B	0.65 V
	0 V

TR104.105 (2SA733) AF AMP

E	13 V
C	6.3 V
B	12.3 V

IC1 (SVIHA1151) AM RF. OSC. MIX. IF DET

1	1 V
2	1.2 V
3	6.2 V
4	1.2 V
5	3.5 V
6	1.3 V
7	2.1 V
	1.4 V
	0 V

IC201.202 (SVITA7129P) AF. EQUALIZER AMP

1	2.2 V
2	0.7 V
3	0.3 V
4	0 V
5	0.8 V
6	2.3 V
7	3.6 V

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	SVHA1151	AM RF IF Amp, MIX, OSC, DET	1	
IC101	SVLA1230	FM IF Amp & Discriminator	1	
IC102	SVHA1156W	FM MPX	1	
IC201, 202	SVTA7129P	Equalizer Amplifier	2	
IC601, 602	SVISTK0182	Main Amplifier	2	○
TRANSISTORS				
TR1	3SK40-M	FM RF Amplifier	1	
TR2, 3	2SC1674-M	FM Mixer & FM Oscillator	2	
TR101	2SC1675-L1	FM IF Amplifier	1	
TR104, 105	2SA733-P1	AF Amplifier	2	
TR4, 102, 103, 501, 502, 701, 703, 704	2SC1328-T	Switching, AF Amplifier & Ripple Filter	8	
TR702	2SC1398-Q	Voltage Regulator	1	
TR705	2SC945-R	Relay Driver (in ranks K, Q1 or R)	1	
DIODES				
D1, 103, 104, 106	MA150	AOC & Switching	5	
D107				
D105	SVDMA26-2	Meter Detector	1	
D101, 102	OA90	FM AGC	2	
D701 ~ 704	RVDSR3AM-2N	Rectifier	4	
D705 ~ 708	SVD10E1	Rectifier	4	
D709	SVDMZ414	14V Zener, Voltage Stabilizer	1	
COILS and TRANSFORMERS				
L1	SLAA4W1-3	Balun Coil	1	
L2	SLAA4N9	FM Antenna Coil	1	
L4	SLDA4N18	FM Detector Coil	1	
L5	RLQY15G5	Choke Coil	1	
L6	SLOA4N9	FM Oscillator Coil	1	
L7	SLF2D27	AM Antenna Coil	1	
L8	RLO2M4P	AM Oscillator Coil	1	
L101	SLOX180-1	Choke Coil	1	
L102	SLQX101-2D	Choke Coil	1	
T1	RLI2M201	AM IF Transformer	1	
T2	RLI2M202	AM IF Transformer	1	
T3	SLI2M401	AM IF Filter	1	
T101	SLI4D513	FM IF Transformer	1	
T1001 [X, XG, XGH, XSD, XSW]	SLT5Q39-W	Power Trans, Set for [X], [XG], [XGH], [XSD] & [XSW]	1	○
T1001 [XAL]	SLT5Q43-W	Power Trans, Set for [XAL]	1	○
T1001 [XE]	SLT5Q41-W	Power Trans, Set for [XE]	1	○
CERAMIC FILTERS				
CF101, 102, 103	SVFE107MA8A	FM IF Circuit, Red, 10.7MHz	each	
	SVFE107MA8B	FM IF Circuit, Blue, 10.67MHz	3	
	SVFE107MA8C	FM IF Circuit, Orange, 10.73MHz		
	SVFE107MA8D	FM IF Circuit, Black, 10.64MHz		
	SVFE107MA8E	FM IF Circuit, White, 10.76MHz		
(Use pair ranks as same as CF101, 102 and CF103)				

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
RESISTORS				
R1	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R2	ERD18TJ101	100Ω, 1/8W, ±5%, Carbon	1	
R3	ERD18TJ473	47kΩ, 1/8W, ±5%, Carbon	1	
R4	ERD18TJ822	8.2kΩ, 1/8W, ±5%, Carbon	1	
R5	ERD18TJ561	560Ω, 1/8W, ±5%, Carbon	1	
R6	ERD18TJ471	470Ω, 1/8W, ±5%, Carbon	1	
R7	ERD18TJ123	12kΩ, 1/8W, ±5%, Carbon	1	
R8	ERD18TJ152	1.5kΩ, 1/8W, ±5%, Carbon	1	
R9	ERD18TJ223	22kΩ, 1/8W, ±5%, Carbon	1	
R10	ERD18TJ102	1kΩ, 1/8W, ±5%, Carbon	1	
R11	ERD18TJ682	6.8kΩ, 1/8W, ±5%, Carbon	1	
R12	ERD18TJ471	470Ω, 1/8W, ±5%, Carbon	1	
R13	ERD18TJ102	1kΩ, 1/8W, ±5%, Carbon	1	
R14	ERD18TJ103	10kΩ, 1/8W, ±5%, Carbon	1	
R15	ERD18TJ103	10kΩ, 1/8W, ±5%, Carbon	1	
R16	ERD18TJ222	2.2kΩ, 1/8W, ±5%, Carbon	1	
R17	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R18	ERD18TJ221	220Ω, 1/8W, ±5%, Carbon	1	
R19	ERD18TJ101	100Ω, 1/8W, ±5%, Carbon	1	
R20	ERD18TJ331	330Ω, 1/8W, ±5%, Carbon	1	
R21	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R23	ERD18TJ100	10Ω, 1/8W, ±5%, Carbon	1	
R101	ERD18TJ151	150Ω, 1/8W, ±5%, Carbon	1	
R102	ERD18TJ332	3.3kΩ, 1/8W, ±5%, Carbon	1	
R103	ERD18TJ682	6.8kΩ, 1/8W, ±5%, Carbon	1	
R104	ERD18TJ561	560Ω, 1/8W, ±5%, Carbon	1	
R105	ERD18TJ471	470Ω, 1/8W, ±5%, Carbon	1	
R106	ERD18TJ822	8.2kΩ, 1/8W, ±5%, Carbon	1	
R107	ERD18TJ274	270kΩ, 1/8W, ±5%, Carbon	1	
R108	ERD18TJ471	470Ω, 1/8W, ±5%, Carbon	1	
R109	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R110	ERD18TJ101	100Ω, 1/8W, ±5%, Carbon	1	
R111	ERD18TJ823	82kΩ, 1/8W, ±5%, Carbon	1	
R112	ERD18TJ473	47kΩ, 1/8W, ±5%, Carbon	1	
R113	ERD18TJ102	1kΩ, 1/8W, ±5%, Carbon	1	
R114	ERD18TJ221	220Ω, 1/8W, ±5%, Carbon	1	
R115	ERD18TJ562	5.6kΩ, 1/8W, ±5%, Carbon	1	
R116	ERD18TJ472	4.7kΩ, 1/8W, ±5%, Carbon	1	
R119	ERD18TJ222	2.2kΩ, 1/8W, ±5%, Carbon	1	
R120	ERD18TJ470	47Ω, 1/8W, ±5%, Carbon	1	
R121	ERD18TJ473	47kΩ, 1/8W, ±5%, Carbon	1	
R122	ERD18TJ562	5.6kΩ, 1/8W, ±5%, Carbon	1	
R123	ERD18TJ272	2.7kΩ, 1/8W, ±5%, Carbon	1	
R124	ERD18TJ182	1.8kΩ, 1/8W, ±5%, Carbon	1	
R125	ERD18TJ182	1.8kΩ, 1/8W, ±5%, Carbon	1	
R126	ERD18TJ473	47kΩ, 1/8W, ±5%, Carbon	1	
R127	ERD18TJ183	18kΩ, 1/8W, ±5%, Carbon	1	
R128	ERD18TJ153	15kΩ, 1/8W, ±5%, Carbon	1	
R129	ERD18TJ102	10kΩ, 1/8W, ±5%, Carbon	1	
R130	ERD18TJ103	10kΩ, 1/8W, ±5%, Carbon	1	
R131	ERD18TJ103	10kΩ, 1/8W, ±5%, Carbon	1	
R132	ERD18TJ392	3.9kΩ, 1/8W, ±5%, Carbon	1	
R133	ERD18TJ392	3.9kΩ, 1/8W, ±5%, Carbon	1	
R134	ERD18TJ331	330Ω, 1/8W, ±5%, Carbon	1	
R135	ERD18TJ331	330Ω, 1/8W, ±5%, Carbon	1	
R136	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R137	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R139	ERD18TJ101	100Ω, 1/8W, ±5%, Carbon	1	
R140	ERD18TJ330	33Ω, 1/8W, ±5%, Carbon	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R141	ERD18TJ103	10kΩ, 1/8W, ±5%, Carbon	1	
R142	ERD18TJ103	10kΩ, 1/8W, ±5%, Carbon	1	
R143	ERD18TJ331	330Ω, 1/8W, ±5%, Carbon	1	
R144	ERD18TJ273	27kΩ, 1/8W, ±5%, Carbon	1	
R146	ERD18TJ473	47kΩ, 1/8W, ±5%, Carbon	1	
R147	ERD18TJ823	82kΩ, 1/8W, ±5%, Carbon	1	
R148	ERD18TJ154	150kΩ, 1/8W, ±5%, Carbon	1	
R150	ERD18TJ100	10Ω, 1/8W, ±5%, Carbon	1	
R151	ERD18TJ824	820kΩ, 1/8W, ±5%, Carbon	1	
R201	ERD12TSJ224	220kΩ, 1/2W, ±5%, Carbon	1	
R202	ERD12TSJ224	220kΩ, 1/2W, ±5%, Carbon	1	
R203	ERD18TJ331	330Ω, 1/8W, ±5%, Carbon	1	
R204	ERD18TJ331	330Ω, 1/8W, ±5%, Carbon	1	
R205	ERD18TJ181	180Ω, 1/8W, ±5%, Carbon	1	
R206	ERD18TJ181	180Ω, 1/8W, ±5%, Carbon	1	
R207	ERD18TJ181	180Ω, 1/8W, ±5%, Carbon	1	
R208	ERD18TJ271	270Ω, 1/8W, ±5%, Carbon	1	
R209	ERD12TSJ823	82kΩ, 1/2W, ±5%, Carbon	1	
R210	ERD12TSJ823	82kΩ, 1/2W, ±5%, Carbon	1	
R211	ERD18TJ124	120kΩ, 1/8W, ±5%, Carbon	1	
R212	ERD18TJ124	120kΩ, 1/8W, ±5%, Carbon	1	
R213	ERD18TJ123	12kΩ, 1/8W, ±5%, Carbon	1	
R214	ERD18TJ123	12kΩ, 1/8W, ±5%, Carbon	1	
R217	ERD12TSJ274	270kΩ, 1/2W, ±5%, Carbon	1	
R218	ERD12TSJ274	270kΩ, 1/2W, ±5%, Carbon	1	
R219	ERD18TJ103	10kΩ, 1/8W, ±5%, Carbon	1	
R220	ERD18TJ103	10kΩ, 1/8W, ±5%, Carbon	1	
R221	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R222	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R223	ERD14FJ1821	820Ω, 1/4W, ±5%, Carbon	1	
R501	ERD18TJ472	4.7kΩ, 1/8W, ±5%, Carbon	1	
R502	ERD18TJ472	4.7kΩ, 1/8W, ±5%, Carbon	1	
R503	ERD18TJ472	4.7kΩ, 1/8W, ±5%, Carbon	1	
R504	ERD18TJ472	4.7kΩ, 1/8W, ±5%, Carbon	1	
R505	ERD18TJ153	15kΩ, 1/8W, ±5%, Carbon	1	
R506	ERD18TJ153	15kΩ, 1/8W, ±5%, Carbon	1	
R507	ERD18TJ224	220kΩ, 1/8W, ±5%, Carbon	1	
R508	ERD18TJ224	220kΩ, 1/8W, ±5%, Carbon	1	
R509	ERD18TJ184	180kΩ, 1/8W, ±5%, Carbon	1	
R510	ERD18TJ184	180kΩ, 1/8W, ±5%, Carbon	1	
R511	ERD18TJ273	27kΩ, 1/8W, ±5%, Carbon	1	
R512	ERD18TJ273	27kΩ, 1/8W, ±5%, Carbon	1	
R513	ERD18TJ102	1kΩ, 1/8W, ±5%, Carbon	1	
R514	ERD18TJ102	1kΩ, 1/8W, ±5%, Carbon	1	
R515	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R516	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R517	ERD18TJ682	6.8kΩ, 1/8W, ±5%, Carbon	1	
R518	ERD18TJ682	6.8kΩ, 1/8W, ±5%, Carbon	1	
R519	ERD18TJ102	1kΩ, 1/8W, ±5%, Carbon	1	
R520	ERD18TJ102	1kΩ, 1/8W, ±5%, Carbon	1	
R521	ERD18TJ563	56kΩ, 1/8W, ±5%, Carbon	1	
R522	ERD18TJ563	56kΩ, 1/8W, ±5%, Carbon	1	
R523	ERD18TJ102	1kΩ, 1/8W, ±5%, Carbon	1	
R524	ERD18TJ102	1kΩ, 1/8W, ±5%, Carbon	1	
R525	ERD14FJ222	2.2kΩ, 1/4W, ±5%, Carbon	1	
R601	ERD14FJ101	100Ω, 1/4W, ±5%, Carbon	1	
R602	ERD14FJ101	100Ω, 1/4W, ±5%, Carbon	1	
R603	ERD14FJ101	100Ω, 1/4W, ±5%, Carbon	1	
R604	ERD14FJ101	100Ω, 1/4W, ±5%, Carbon	1	
R605	ERD18TJ153	15kΩ, 1/8W, ±5%, Carbon	1	
R606	ERD18TJ153	15kΩ, 1/8W, ±5%, Carbon	1	
R607	ERD.2FJ682	680Ω, 1/2W, ±5%, Carbon	1	
R608	ERD12FJ681	680Ω, 1/2W, ±5%, Carbon	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R609	ERD12FJ471	470Ω, 1/2W, ±5%, Carbon	1	
R610	ERD12FJ471	470Ω, 1/2W, ±5%, Carbon	1	
R613	ERD18TJ393	39kΩ, 1/8W, ±5%, Carbon	1	
R614	ERD18TJ393	39kΩ, 1/8W, ±5%, Carbon	1	
R615	ERD18TJ822	8.2kΩ, 1/8W, ±5%, Carbon	1	
R616	ERD18TJ822	8.2kΩ, 1/8W, ±5%, Carbon	1	
R617	ERD18TJ183	18kΩ, 1/8W, ±5%, Carbon	1	
R618	ERD18TJ183	18kΩ, 1/8W, ±5%, Carbon	1	
R619	ERD18TJ103	10kΩ, 1/8W, ±5%, Carbon	1	
R620	ERD18TJ103	10kΩ, 1/8W, ±5%, Carbon	1	
R621	ERD18TJ682	6.8kΩ, 1/8W, ±5%, Carbon	1	
R622	ERD18TJ682	6.8kΩ, 1/8W, ±5%, Carbon	1	
R623	ERD18TJ182	1.8kΩ, 1/8W, ±5%, Carbon	1	
R624	ERD18TJ182	1.8kΩ, 1/8W, ±5%, Carbon	1	
R625	ERD18TJ681	680Ω, 1/8W, ±5%, Carbon	1	
R626	ERD18TJ681	680Ω, 1/8W, ±5%, Carbon	1	
R627	ERD12FJ100	10Ω, 1/2W, ±5%, Carbon	1	
R628	ERD12FJ100	10Ω, 1/2W, ±5%, Carbon	1	
R629	ERG2ANJ331	330Ω, 2W, ±5%, Metallic	1	
R630	ERG2ANJ331	330Ω, 2W, ±5%, Metallic	1	
R701	ERD18TJ153	15kΩ, 1/8W, ±5%, Carbon	1	
R702	ERD14FJ152	1.5kΩ, 1/4W, ±5%, Carbon	1	
R703	ERG3ANJ181	180Ω, 3W, ±5%, Metallic	1	
R704	ERG3ANJ331	330Ω, 1W, ±5%, Metallic	1	
R705	ERD12FJ391	390Ω, 1/2W, ±5%, Carbon	1	
R706	ERD12FJ471	470Ω, 1/2W, ±5%, Carbon	1	
R707	ERD18TJ151	150Ω, 1/8W, ±5%, Carbon	1	
R708	ERD18TJ183	18kΩ, 1/8W, ±5%, Carbon	1	
R709	ERD18TJ183	18kΩ, 1/8W, ±5%, Carbon	1	
R710	ERD18TJ183	18kΩ, 1/8W, ±5%, Carbon	1	
R711	ERD18TJ273	27kΩ, 1/8W, ±5%, Carbon	1	
R712	ERD18TJ822	8.2kΩ, 1/8W, ±5%, Carbon	1	
R713	ERD18TJ563	56kΩ, 1/8W, ±5%, Carbon	1	
R714	ERD18TJ124	120kΩ, 1/8W, ±5%, Carbon	1	
R715	ERD18TJ562	5.6kΩ, 1/8W, ±5%, Carbon	1	
R716	ERD12FJ331	330Ω, 1/2W, ±5%, Carbon	1	
R1011	ERD18TJ472	4.7kΩ, 1/8W, ±5%, Carbon	1	
R1012	ERD18TJ472	4.7kΩ, 1/8W, ±5%, Carbon	1	
R1013	ERD18TJ472	4.7kΩ, 1/8W, ±5%, Carbon	1	
R1014	ERD18TJ472	4.7kΩ, 1/8W, ±5%, Carbon	1	
R1015	ERD18TJ474	470kΩ, 1/8W, ±5%, Carbon	1	
R1016	ERD18TJ474	470kΩ, 1/8W, ±5%, Carbon	1	
R1017	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
R1018	ERD18TJ104	100kΩ, 1/8W, ±5%, Carbon	1	
VARIABLE RESISTORS				
VR101	EVL33AA00B55	500kΩ(B), Muting Level Adj.	1	
VR102	EVL33AA00B14	10kΩ(B), PLL VCO Adj.	1	
VR103	EVL33AA00B24	20kΩ(B), Separation Adj.	1	
VR104	EVL30AA00B24	20kΩ(B), FM Signal Meter Adjustment	1	
VR501	EW55MA037BF5	250kΩ(B), Volume Control	1	
VR502	EVE7DA088G25	200kΩ(G), Balance Control	1	
VR601,602	EW2WA037C15	100kΩ(C), Bass & Treble Control	2	○
CAPACITORS				
C1	ECCD1H120KC	12pF, 50W, ±10%, Ceramic	1	
C2	ECKD1H102MDA	0.001μF, 50W, ±20%, Ceramic	1	
C3	ECCD1H180KC	18pF, 50W, ±10%, Ceramic	1	
C4	ECKD1H102MDA	0.001μF, 50W, ±20%, Ceramic	1	
C5	ECCD1H100KC	10pF, 50W, ±10%, Ceramic	1	
C6	ECCD1H181K	180pF, 50W, ±10%, Ceramic	1	
C7	ECCD1H103PF	0.01μF, 50W, ±10%, Ceramic	1	

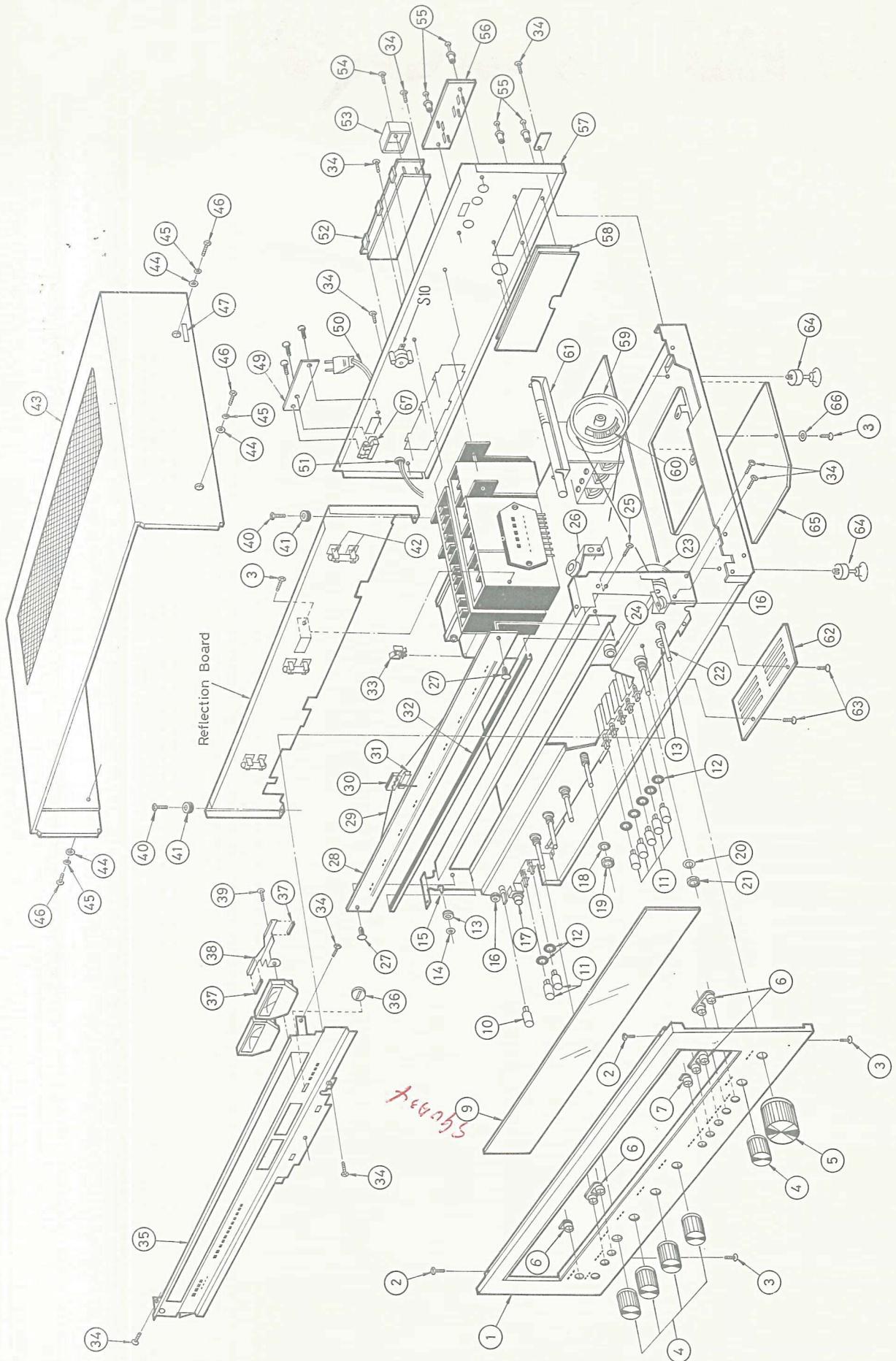
Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C137	ECEA50ZR22	0.22 μ F, 50WV, Electrolytic	1	
C138	ECEA50ZR47	0.47 μ F, 50WV, Electrolytic	1	
C139	ECEA50ZR33	0.33 μ F, 50WV, Electrolytic	1	
C140	ECQM05473KZ	0.047 μ F, 50WV, $\pm 10\%$, Polyester	1	
C141	ECEA16V33V	33 μ F, 16WV, Electrolytic	1	
C142	ECEA50N1V	50WV, Non-Polar Electrolytic	1	
C145	ECEA50V1V	50WV, Electrolytic	1	
C201	ECCD1H680K	68pF, 50WV, $\pm 10\%$, Ceramic	1	
C202	ECCD1H680K	68pF, 50WV, $\pm 10\%$, Ceramic	1	
C203	ECCD1H151K	150pF, 50WV, $\pm 10\%$, Ceramic	1	
C204	ECCD1H151K	150pF, 50WV, $\pm 10\%$, Ceramic	1	
C205	ECEA50M3R3R	3.3 μ F, 50WV, Electrolytic	1	
C206	ECEA50M3R3R	3.3 μ F, 50WV, Electrolytic	1	
C207	ECKD2H681KB	680pF, 500WV, $\pm 10\%$, Ceramic	1	
C208	ECKD2H681KB	680pF, 500WV, $\pm 10\%$, Ceramic	1	
C209	ECEA16V47V	47 μ F, 16WV, Electrolytic	1	
C210	ECEA16V47V	47 μ F, 16WV, Electrolytic	1	
C211	ECQM05223JZ	0.022 μ F, 50WV, $\pm 5\%$, Polyester	1	
C212	ECQM05223JZ	0.022 μ F, 50WV, $\pm 5\%$, Polyester	1	
C213	ECQM05562JZ	0.0056 μ F, 50WV, $\pm 5\%$, Polyester	1	
C214	ECQM05562JZ	0.0056 μ F, 50WV, $\pm 5\%$, Polyester	1	
C215	ECEA50MR47R	0.47 μ F, 50WV, Electrolytic	1	
C216	ECEA50MR47R	0.47 μ F, 50WV, Electrolytic	1	
C217	ECEA50V220V	220 μ F, 50WV, Electrolytic	1	
C218	ECEA16V47V	47 μ F, 16WV, Electrolytic	1	
C219	ECKD2H681KB	680pF, 500WV, $\pm 10\%$, Ceramic	1	
C220	ECKD2H681KB	680pF, 500WV, $\pm 10\%$, Ceramic	1	
C501	ECKD1H332KB	0.0033 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C502	ECKD1H332KB	0.0033 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C503	ECQM05333KZ	0.033 μ F, 50WV, $\pm 10\%$, Polyester	1	
C504	ECQM05333KZ	0.033 μ F, 50WV, $\pm 10\%$, Polyester	1	
C505	ECEA50MR47R	0.47 μ F, 50WV, Electrolytic	1	
C506	ECEA50MR47R	0.47 μ F, 50WV, Electrolytic	1	
C507	ECEA50M1R	1 μ F, 50WV, Electrolytic	1	
C508	ECEA50M1R	1 μ F, 50WV, Electrolytic	1	
C509	ECEA25V220V	220 μ F, 25WV, Electrolytic	1	
C601	ECCD1H050CC	5pF, 50WV, $\pm 0.25pF$, Ceramic	1	
C602	ECCD1H050CC	5pF, 50WV, $\pm 0.25pF$, Ceramic	1	
C603	ECEA50V220V	220 μ F, 50WV, Electrolytic	1	
C604	ECEA50V220V	220 μ F, 50WV, Electrolytic	1	
C605	ECEA16V47V	47 μ F, 16WV, Electrolytic	1	
C606	ECEA16V47V	47 μ F, 16WV, Electrolytic	1	
C607	ECEA6V220V	220 μ F, 6.3WV, Electrolytic	1	
C608	ECEA6V220V	220 μ F, 6.3WV, Electrolytic	1	
C609	ECEA50V220V	220 μ F, 50WV, Electrolytic	1	
C610	ECEA50V220V	220 μ F, 50WV, Electrolytic	1	
C611	ECKD1H222KB	0.0022 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C612	ECKD1H222KB	0.0022 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C613	ECQM05273KZ	0.027 μ F, 50WV, $\pm 10\%$, Polyester	1	
C614	ECQM05273KZ	0.027 μ F, 50WV, $\pm 10\%$, Polyester	1	
C615	ECQM05153KZ	0.015 μ F, 50WV, $\pm 10\%$, Polyester	1	
C616	ECQM05153KZ	0.015 μ F, 50WV, $\pm 10\%$, Polyester	1	
C617	ECQM05124KZ	0.12 μ F, 50WV, $\pm 10\%$, Polyester	1	
C618	ECQM05124KZ	0.12 μ F, 50WV, $\pm 10\%$, Polyester	1	
C619	ECQM05473KZ	0.047 μ F, 50WV, $\pm 10\%$, Polyester	1	
C620	ECQM05473KZ	0.047 μ F, 50WV, $\pm 10\%$, Polyester	1	
C621	ECKD2H103PF	0.01 μ F, 500WV, $\pm 10\%$, Ceramic	1	
C622	ECKD2H103PF	0.01 μ F, 500WV, $\pm 10\%$, Ceramic	1	
C701	ECKD2H103PF	0.01 μ F, 500WV, $\pm 10\%$, Ceramic	1	
C702	ECEA50V470V	470 μ F, 50WV, Electrolytic	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C8	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C9	ECCD1H010CC	1pF, 50WV, $\pm 0.25pF$, Ceramic	1	
C10	ECCD1H150KR	15pF, 50WV, $\pm 10\%$, Ceramic	1	
C11	ECCD1H150KR	15pF, 50WV, $\pm 10\%$, Ceramic	1	
C12	ECCD1H390KC	39pF, 50WV, $\pm 10\%$, Ceramic	1	
C13	ECCD1H180KC	18pF, 50WV, $\pm 10\%$, Ceramic	1	
C14	ECCD1H102PF	0.001 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C15	ECCD1H070DC	7pF, 50WV, $\pm 0.5pF$, Ceramic	1	
C16	ECCD1H150KC	15pF, 50WV, $\pm 10\%$, Ceramic	1	
C17	ECOS1361JZ	360pF, 125WV, $\pm 5\%$, Styrol	1	
C18	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C19	ECKD1H103MD	0.01 μ F, 50WV, $\pm 20\%$, Ceramic	1	
C20	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C21	ECEA16V10V	10 μ F, 16WV, Electrolytic	1	
C22	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C23	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C24	ECEA50V3R3V	3.3 μ F, 50WV, Electrolytic	1	
C25	ECKD1H102MD	0.001 μ F, 50WV, $\pm 20\%$, Ceramic	1	
C26	ECEA50V3R3V	3.3 μ F, 50WV, Electrolytic	1	
C27	ECQM05333KZ	0.033 μ F, 50WV, $\pm 10\%$, Polyester	1	
C28	ECQM05333KZ	0.033 μ F, 50WV, $\pm 10\%$, Polyester	1	
C29	ECEA16V10V	10 μ F, 16WV, Electrolytic	1	
C30	ECKD1H223PF	0.022 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C31	ECEA50V1V	1 μ F, 50WV, Electrolytic	1	
C32	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C101	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C102	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C103	ECCD1H100KC	10pF, 50WV, $\pm 10\%$, Ceramic	1	
C104	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C105	ECEA50V1V	1 μ F, 50WV, Electrolytic	1	
C106	ECQM05223KZ	0.022 μ F, 50WV, $\pm 10\%$, Polyester	1	
C107	ECQM05223KZ	0.022 μ F, 50WV, $\pm 10\%$, Polyester	1	
C108	ECEA50MR47R	0.47 μ F, 50WV, Electrolytic	1	
C109	ECCD1H101K	100pF, 50WV, $\pm 10\%$, Ceramic	1	
C110	ECEA35V4R7V	4.7 μ F, 35WV, Electrolytic	1	
C111	ECEA50ZR47	0.47 μ F, 50WV, Electrolytic	1	
C112	ECQM05223KZ	0.022 μ F, 50WV, $\pm 20\%$, Polyester	1	
C113	ECEA6V220V	220 μ F, 6.3WV, Electrolytic	1	
C114	ECKD1H102PF	0.001 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C115	ECEA50ZR47	0.47 μ F, 50WV, Electrolytic	1	
C116	ECKD1H102PF	0.001 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C117	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C118	ECQM05223KZ	0.022 μ F, 50WV, $\pm 10\%$, Polyester	1	
C119	ECKD1H103PF	0.01 μ F, 50WV, $\pm 100\%$, Ceramic	1	
C120	ECEA50ZR47	0.47 μ F, 50WV, Electrolytic	1	
C121	ECQM05273JZ	0.027 μ F, 50WV, $\pm 5\%$, Polyester	1	
C122	ECQM05273JZ	0.027 μ F, 50WV, $\pm 5\%$, Polyester	1	
C123	ECOS1471JZ-K	470pF, 125WV, $\pm 5\%$, Styrol	1	
C124	ECKD1H332KB	0.0033 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C125	ECKD1H332KB	0.0033 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C126	ECKD2H471KB	470pF, 500WV, $\pm 10\%$, Ceramic	1	
C127	ECKD2H471KB	470pF, 500WV, $\pm 10\%$, Ceramic	1	
C128	ECKD1H102KB	0.001 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C129	ECKD1H102KB	0.001 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C130	ECEA50MR22R	0.22 μ F, 50WV, Electrolytic	1	
C131	ECEA50MR22R	0.22 μ F, 50WV, Electrolytic	1	
C132	ECCD1H020CC	2pF, 50WV, $\pm 0.25pF$, Ceramic	1	
C134	ECEA16V220V	220 μ F, 16WV, Electrolytic	1	
C135	ECCD1H121K	120pF, 50WV, $\pm 10\%$, Ceramic	1	
C136	ECEA16V47V	47 μ F, 16WV, Electrolytic	1	

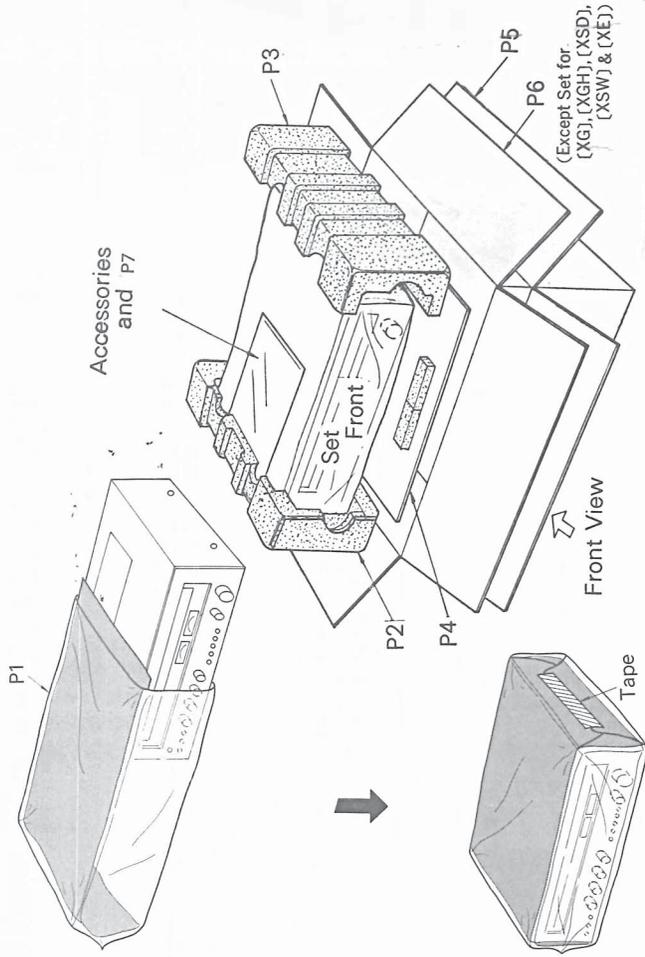
Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C703	ECKD2H103PF	0.01 μ F, 500WV, $\pm 10\%$, Ceramic	1	
C704	ECEA50V220V	220 μ F, 50WV, Electrolytic	1	
C705	ECEA50V220V	220 μ F, 50WV, Electrolytic	1	
C706	ECKD1H103PF	0.01 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C707	ECKD1H103PF	0.01 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C708	ECEA50V100V	100 μ F, 35WV, Electrolytic	1	
C709	ECEA35V100V	100 μ F, 35WV, Electrolytic	1	
C710	ECKD1H103PF	0.01 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C711	ECEA16V100V	100 μ F, 16WV, Electrolytic	1	
C712	ECKD1H103PF	0.01 μ F, 50WV, $\pm 10\%$, Ceramic	1	
C713	ECEA50Z2R2	2.2 μ F, 50WV, Electrolytic	1	
C714	ECEA16N220V	220 μ F, 16WV, Non-Polar, Electrolytic	1	
C715	ECEA16V220V	220 μ F, 16WV, Electrolytic	1	
C716	ECET40R103Y	10000 μ F, 40WV, Electrolytic	1	○
C717	ECET40R103Y	10000 μ F, 40WV, Electrolytic	1	○
C720	ECKD1H103PF	0.01 μ F, 50WV, $\pm 10\%$, Ceramic	1	
VARIABLE CAPACITOR				
CV1~5	ECV5MD34X67G	Tuning Gang, FM and AM with Trimmer	1	
COMPONENT COMBINATIONS				
Z701, 702	RXAF103P22HD	0.01 μ F (X2), Hum Cancel	2	
LAMPS				
PL1, 2, 3	XAMR54T	Lamp, Dial & Meter (12.6V 0.38A)	3	
PL4	XAMR38S200	Lamp, Stereo, Indicator (6.3V 40mA)	1	
FUSES				
F1 (X, XG, XGH) XSD, XSW	XBA2C31TRO	Fuse, 3.15A.T, Power Source (Except Set for (XAL) & (XE))	1	
F2	XBA2C20TRO	Fuse, 2A.T, Power Source	1	
F3, 6	XBA2C31SSO	Fuse, 3.15A, Speaker Circuit Protection	2	
F4	XBA2C16TRO	Fuse, 1.6A.T, Power Source	1	
F5	XBA2C10TRO	Fuse, 1A.T, Power Source	1	
SWITCHES				
S1	SSR33	Selector Switch	1	
S2, 3, 4, 5, 6	SSH513S	Push Switch, Tape, Mode, Muting, High-Filter & Loudness	1	○
S7, 8	SSH223S	Push Switch, Speakers	1	
S9 (X, XG, XGH, XSD, XSW)	ESB7075	Power Switch, Set for (X), (XG), (XGH), (XSD) & (XSW)	1	
S9 (XE, XAL)	ESB7083	Power Switch, Set for (XE) & (XAL)	1	
S10 (X, XG, XGH, XSD, XSW)	SSR53S	Voltage Selector Switch, Set for (X), (XG), (XGH), (XSD), & (XSW) (Except Set for (XAL))	1	
S10 (XE)	SSR53-1S	Voltage Selector Switch, Set for (XE)	1	○
RELAY				
	SSY13	Relay, Speakers Protection	1	
METERS				
	SSM77	Meter, Signal	1	
	SSM79	Meter, Tuning	1	
CABINET and CHASSIS PARTS				
1	SGW7410	Panel, Front	1	
2	XTS3+8CFZ	Screw, Front Panel M'tg	2	○
3	VTY3+8C	Screw, Panel & Reflection Board M'tg	4	
4	SBN589	Knob, Bass, Treble, Balance, Volume Control & Selector Switch	5	
5	SBN587	Knob, Tuning Control	1	
6	SGX6455	Sleeve, Push Switches Buttons	4	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
9	SGUA39 → 36 0374	Glass Plate, Front Panel	1	
10	SBC147	Button, Power Switch	1	
11	SBC149	Button, Push Switches	7	
12	SHG1339	Rubber Bushing, Push Switch Buttons	7	
13	RDR20	Pulley, Dial Cord	4	
14	RNW150-2	Washer, Pulley Lock	4	
15	RDY34	Shaft, Pulley (RDR20)	3	
16	SDR3	Pulley, Dial Cord	2	
	SDY9	Bracket, Pulley Shaft (SDY11)	2	
	SDY11	Shaft, Pulley (SDR3)	2	
17	XCJ6P11B-A	Jack, Headphones	1	○
18	XW8	Spring Washer, Tone, Balance & Volume	4	
19	XNS8	Nut, Tone, Balance & Volume	4	
20	XW7	Spring Washer, Selector Switch	1	
21	XNS7	Nut, Selector Switch	1	
22	SDT8011-3	Shaft, Tuning Control Assy	1	○
23	SDX751S	Flywheel, Tuning	1	
	XXAS3K5S	Screw, Flywheel M'tg	2	
24	SHGA204	Rubber Bracket, Stereo Indicator	1	
25	XYN3+C6S	Screw, Shaft Assy M'tg	1	
26	SXE723S	Shaft, Dial Cord Assy	1	○
27	SHRA916-1	Lock Pin, Dial Scale	2	
28	SKD2670	Scale, Dial	1	○
29	SDZ051(1)2	Cord, Dial (190cm)	1 roll	
30	SDP8	Pointer, Dial	1	
31	SHPA4	Paper, Pointer Slide	1	
32	SUMA8-2	Bracket, Dial Scale	1	
33	SHRA306	Clamp, Lead Wire	3	
34	XTB3+8BFZ	Screw, Dial Plate & Chassis M'tg	11	
35	SDH347	Plate, Dial Light	1	○
36	SGL51	Orange Filter, Stereo Indicator	1	
37	RHG109	Rubber Cushion, Meter	2	
38	SMMA10-2	Bracket, Meter	1	
39	XTV3+6C	Screw, Meter Bracket M'tg	1	○
40	XTB3+8FFZ	Screw, Reflection Board M'tg	2	
41	SUD153	Spacer, Reflection Board M'tg	2	
42	SJT345	Holder, Dial Lamp & Fuse	10	○
43 (X, XAL)	SKA8490	Cabinet, Brown Wooden, Set for (X) & (XAL)	1	○
43 (XG, XGH, XSD, XSW)	SKA8491	Cabinet, Black Wooden, Set for (XG), (XGH), (XSD) & (XSW)	1	○
43 (XE)	SKA8530	Cabinet, Brown Wooden, Set for (XE)	1	○
44	XWG4FZ	Washer, Cabinet Screw	4	
45	XWA4BFZ	Spring Washer, Cabinet Screw	4	
46	XTB4+12FFZ	Screw, Cabinet M'tg	4	
47	SQXA4112	Caution Label, Cabinet Screw	1	
49	SGP9021	Cover, Hole (Except Set for (XAL))	1	○
49 (XAL)	SUE3	Cover, Hole (Only Set for (XAL))	1	
50 (X, XG)	SJA95	AC Cord, Set for (X) & (XG)	1	
50 (XGH, XSD)	SJA81	AC Cord, Set for (XGH) & (XSD)	1	
50 (XSW)	SJA68	AC Cord, Set for (XSW)	1	
50 (XAL)	SJA79	AC Cord, Set for (XAL)	1	
50 (XE)	SJA99	AC Cord, Set for (XE)	1	
51 (X, XG, XGH, XSD, XSW)	SHR127	Bushing, Set for (X), (XG), (XGH), (XSD) & (XSW)	1	
51 (XAL)	SHR131	Bushing, Set for (XAL)	1	
51 (XE)	SHR129	Bushing, Set for (XE)	1	
52	SJF4805-1	Terminal, Speaker & Fuse Holder	1	○
53	SUV337	Cover, Circuit Protection Fuse	1	
54	XTN3+8B	Screw, Fuse Cover M'tg	1	
55	SHR401-1	Lock Pin, Input & Antenna Terminal	7	
56	SJFA4402	Terminal, Ext. Antenna	1	
57 (X, XG, XGH)	SGP370-1E	Rear Panel, Set for (X), (XG), & (XGH)	1	○
57 (XSD, XSW)	SGP370-1ED	Rear Panel, With Name Plate (SGTI2590) Set for (XSD) & (XSW)	1	○

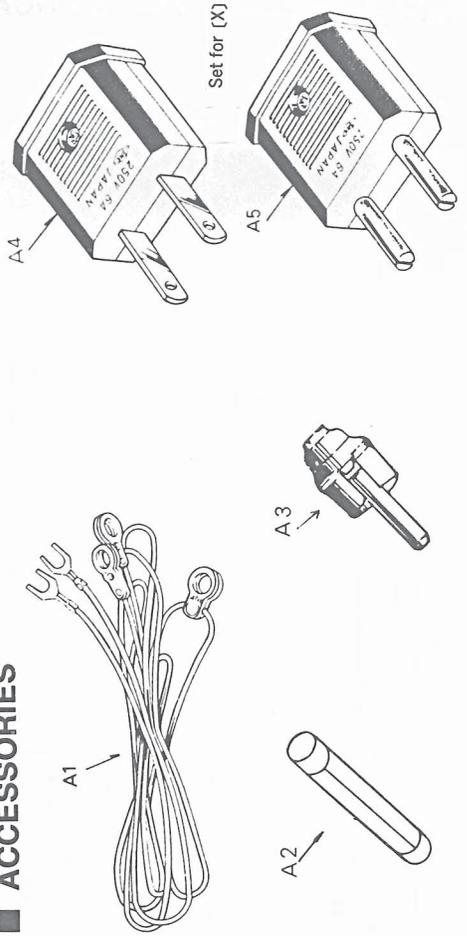
CABINET & CHASSIS PARTS LOCATION



PACKINGS



ACCESSORIES



Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
57 (XAL)	SGP370-2EL	Rear Panel, With Name Plate (SGT12630) Set for (XAL)	1	○
57 (XE)	SGP370-1EE	Rear Panel, With Name Plate (SGT12650) Set for (XE)	1	○
58	SJF3019	Terminal, Input & Tape Deck	1	○
59	SJS6501	Socket, DIN (Tape Deck Connector)	1	○
60	SDD47-1	Drum, Dial Cord	1	○
61	SDSA4121	Spring, Dial Cord	1	○
62	SMA213	Bracket, AM Antenna Coil	1	○
63	RHG109	Rubber Cushion, AM Antenna Coil	2	○
64	SUV343	Cover, Main Amplifier I.C.	2	○
65	XTB3 + 8BFYR	Red Screw, I.C. Cover M'tg	4	○
66	SKU149	Foot, Set	1	○
66	SKU5830-1	Bottom Cover	1	○
67 (X, XG, XGH)	XWG3	Washer, Bottom Cover Screw	1	○
XSD, XSW)	SJFA5101	Holder, Fuse (Except Set for (XAL)& (XE))	1	○
ACCESSORIES				
A1	SSA251	Cord, 75Ω, FM Antenna	1	○
A2	XBA2C31SS0	3-15A, Fuse, Speaker Circuit Protection	2	○
A3	RJP5	Pin Plug	4	○
A4 (X)	RJP16AS	AC Plug, Only Set for (X)	1	○
A5 (X)	RJP17AS	AC Plug, Only Set for (X)	1	○
PACKING PARTS				
P1	SPP495	Soft Cover	1	○
P2 (X, XAL)	SPS1-2	Pad, Left Side, Set for (X) & (XAL)	1	○
(XG, XGH, XSD, XSW, XE)	SPS1-1	Pad, Left Side, Set for (XG), (XGH), (XSD), (XSW) & (XE)	1	○
P3 (X, XAL)	SPS3-2	Pad, Right Side Set for (X) & (XAL)	1	○
(XG, XGH, XSD, XSW, XE)	SPS3-1	Pad, Right Side, Set for (XG), (XGH), (XSD), (XSW) & (XE)	1	○
P4 (X, XAL)	SPS553-1	Pad, Lower, Set for (X) & (XAL) (Except Set for (XG), (XGH), (XSD), (XSW) & (XE))	1	○
P5 (X, XAL)	SPG777	Carbon Box, Outer, Set for (X), (XAL)	1	○
(XG, XGH, XSD, XSW)	SPG773	Carbon Box, Set for (XG), (XGH), (XSD) & (XSW)	1	○
P5 (XE)	SPG775	Carbon, Box Set for (XE)	1	○
P6 (X, XAL)	SPN5187	Carton, Box, Inner, Set for (X) & (XAL) (Except Set for (XG), (XGH), (XSD), (XSW) & (XE))	1	○
P7 (X, XG, XSD, XSW)	SQF1271	Printed Matter, Set for (X), (XG), (XSD) & (XSW)	1	○
P7 (XAL)	SQF1381	Printed Matter, Set for (XAL)	1	○
P7 (XE)	SQF1301	Printed Matter, Set for (XE)	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>				