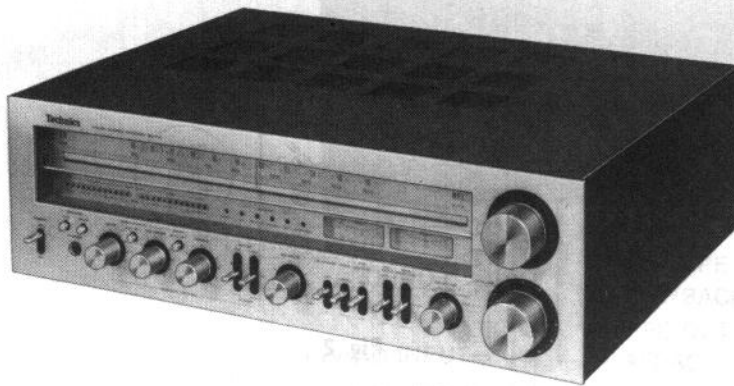


# Service Manual

FM/AM STEREO RECEIVER

## SA-700

(D), (XGH), (XGF), (XSW),  
(XE), (XAL), (XA), (X)

- \* The model SA-700 (D) is available in Scandinavia and European only.
- \* The model SA-700 (XGH) is available in Holland only.
- \* The model SA-700 (XGF) is available in France only.
- \* The model SA-700 (XSW) is available in Switzerland only.
- \* The model SA-700 (XE) is available in United Kingdom only.
- \* The model SA-700 (XAL) is available in Australia only.
- \* The models SA-700 (XA) and SA-700 (X) are available in Asia, Latin America, Middle East and Africa only.

\* Cabinet colour differs according to destination.

### TECHNICAL SPECIFICATIONS

Specifications are subject to change without notice for further improvement.

[DIN 45 500]

#### AMPLIFIER SECTION

1 kHz continuous power output		
both channels driven	2 x 120 W (4Ω), 2 x 110 W (8Ω)	
40 Hz ~ 16 kHz continuous power output		
both channels driven	2 x 110 W (4Ω), 2 x 100 W (8Ω)	
20 Hz ~ 20 kHz continuous power output		
both channels driven	2 x 110 W (4Ω), 2 x 100 W (8Ω)	
Power bandwidth		
both channels driven at 4Ω	10 Hz ~ 40 kHz (-3 dB)	
Total harmonic distortion		
rated power at 1 kHz	0.04% (4Ω, 8Ω)	
rated power at 40 Hz ~ 16 kHz	0.04% (4Ω, 8Ω)	
rated power at 20 Hz ~ 20 kHz	0.04% (4Ω, 8Ω)	
half power at 20 Hz ~ 20 kHz	0.025% (4Ω), 0.015% (8Ω)	
half power at 1 kHz	0.005% (4Ω, 8Ω)	
-26 dB power at 1 kHz	0.04% (4Ω)	
50 mW power at 1 kHz	0.2% (4Ω)	
Intermodulation distortion		
rated power at 250 Hz: 8 kHz = 4:1, 4Ω	0.04%	
rated power at 60 Hz: 7 kHz = 4:1, SMPTE, 8Ω	0.04%	
Damping factor	25 (4Ω), 50 (8Ω)	
Input sensitivity and impedance		
PHONO	2.5 mV/47 kΩ	
AUX	150 mV/47 kΩ	
PLAYBACK (TAPE 1), REC/PLAY input	180 mV/47 kΩ	
PLAYBACK (TAPE 2)	150 mV/47 kΩ	
MAIN IN	1 V/100 kΩ	
PHONO maximum input voltage (1 kHz, RMS)	200 mV	
S/N		
rated power at 4Ω	PHONO 75 dB (IHF, A: 83 dB)	
-26 dB power at 4Ω	AUX 88 dB (IHF, A: 95 dB)	
50 mW power at 4Ω	PHONO 65 dB, AUX 70 dB	
50 mW power at 4Ω	PHONO 55 dB, AUX 55 dB	
Frequency response	PHONO RIAA standard curve	
	30 Hz ~ 15 kHz, ±0.2 dB	
	AUX 20 Hz ~ 20 kHz, +0 dB, -0.3 dB	
	10 Hz ~ 40 kHz, -1 dB	
Tone controls	BASS 50 Hz, +12 dB ~ -12 dB	
	TREBLE 20 kHz, +12 dB ~ -12 dB	
	MIDDLE 1 kHz, +7 dB ~ -7 dB	
Low boost at tone controls "0" position	100 Hz, +6 dB	
High boost at tone controls "0" position	10 kHz, +6 dB	
Low filter	100 Hz, -6 dB/oct.	
High filter	7 kHz, -6 dB/oct.	
Loudness control (volume at -30 dB)	50 Hz, +9 dB	
Output voltage and impedance		
PRE OUT	1 V/4.7 kΩ	
REC OUT (TAPE 1,2)	150 mV	
REC/PLAY output	30 mV/80 kΩ	

Channel balance (250 Hz ~ 6300 Hz), AUX	±1.0 dB
Channel separation at 1 kHz, AUX	63 dB
Headphones output level and impedance	500 mV/330Ω
Load impedance	MAIN or REMOTE 4 ~ 16Ω
	MAIN + REMOTE 8 ~ 16Ω

#### FM TUNER SECTION

Frequency range	88 ~ 108 MHz
Antenna terminals	300Ω (balanced), 75Ω (unbalanced)
Sensitivity (±40 kHz deviation)	
S/N 30 dB	1.8μV (300Ω), 1.3μV (75Ω)
S/N 26 dB	1.6μV (300Ω), 1.2μV (75Ω)
S/N 20 dB	1.5μV (300Ω), 0.9μV (75Ω)
IHF usable sensitivity	1.8μV (IHF '58)
IHF S/N 46 dB stereo quieting sensitivity	18μV (75Ω)
Total harmonic distortion	MONO 0.1%
	STEREO 0.2%
S/N (±40 kHz deviation)	MONO 60 dB (IHF: 77 dB)
	STEREO 58 dB (IHF: 73 dB)
Frequency response	20 Hz ~ 15 kHz, +0.2 dB, -0.8 dB
Alternate channel selectivity	80 dB
Capture ratio	1.0 dB
Image rejection at 98 MHz	85 dB
IF rejection at 98 MHz	100 dB
Spurious response rejection at 98 MHz	100 dB
AM suppression	60 dB
Stereo separation	1 kHz 45 dB, 10 kHz 35 dB
Leak carrier	19 kHz -60 dB (-65 dB, IHF)
	38 kHz -65 dB (-70 dB, IHF)
Limiting point	1.2μV
Bandwidth	IF amplifier 180 kHz
	FM demodulator 1000 kHz
Channel balance (250 Hz ~ 6300 Hz)	±1.5 dB

#### AM TUNER SECTION

Frequency range	525 ~ 1605 kHz
Sensitivity (S/N 20 dB)	30μV, 250μV/m
Selectivity	35 dB
Image rejection at 1000 kHz	50 dB
IF rejection at 1000 kHz	45 dB

#### GENERAL

Power consumption	850 W
Power supply (50 Hz/60 Hz)	110V/120V/220V/240V
Dimensions (W x H x D)	510 x 160 x 390 mm
	(20 3/8" x 6 3/16" x 15 3/8")
Weight	16.1 kg (35.5 lb.)

## TECHNICAL GUIDE

### Power-indication circuitry

The power amplifier output signal is attenuated by the sensitivity selector, and is applied to the logarithmic-compression circuitry. In this circuitry, as shown in figure 1, the output characteristics change logarithmically in relation to input, and the output is applied to the window comparator IC. Here, the pulse waveform becomes as shown in figure 2, and the indicator illuminates according to the input of the IC (the output of the power amplifier).

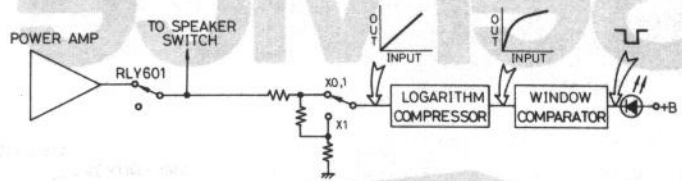


Fig. 1

### Tone-control circuitry

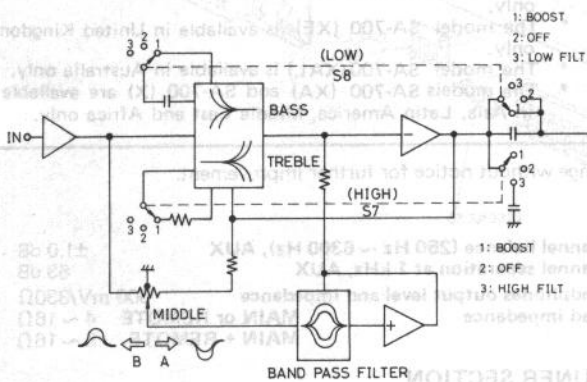


Fig. 3

Configuration is as shown in figure 3. Bass and treble are the BAX type of control circuitry, and a bandpass filter is used for control of intermediate frequencies. If the middle control is moved in direction A, a valley-like characteristic can be obtained. If it is moved in direction B, a peak-like characteristic can be obtained.

## ALIGNMENT INSTRUCTIONS (Main Amplifier Circuitry) — ENGLISH

### Main amplifier (Ic) alignment . . . . . Refer to fig. 4.

1. The "Ic" adjustment should be started about 5 minutes after setting the power switch to the ON position.
2. Speakers switch to "push" position.
3. Connect DC voltmeter between TP601 and ⊕ speaker terminal of right channel.
4. Adjust VR602 to 12 mV on DC voltmeter indication.
5. Connect DC voltmeter between Emitter (TR613) and ⊕ speaker terminal of left channel.
6. Adjust VR601 to 12 mV on DC voltmeter indication.

### Power level indication alignment . . . . . Refer to fig. 4.

1. Connect AC VTVM to speakers terminal. (Left and Right channels)
2. Power display switch to "ON" position and display range switch to "X0.1" position.
3. Selector switch to "AUX" position.
4. Apply a 1 kHz signal to "AUX" terminal. (Left and Right channels)
5. Volume control to maximum position of set.
6. Adjust supply signal level to 12.6V ~ 12.7V output of speaker terminal.
7. Adjust VR801 (Left channel) and VR802 (Right channel) until "200W" indicator lights up.

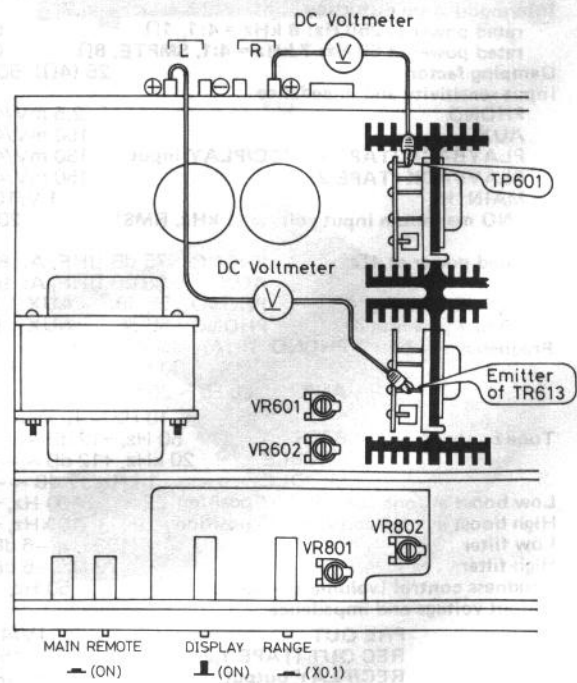
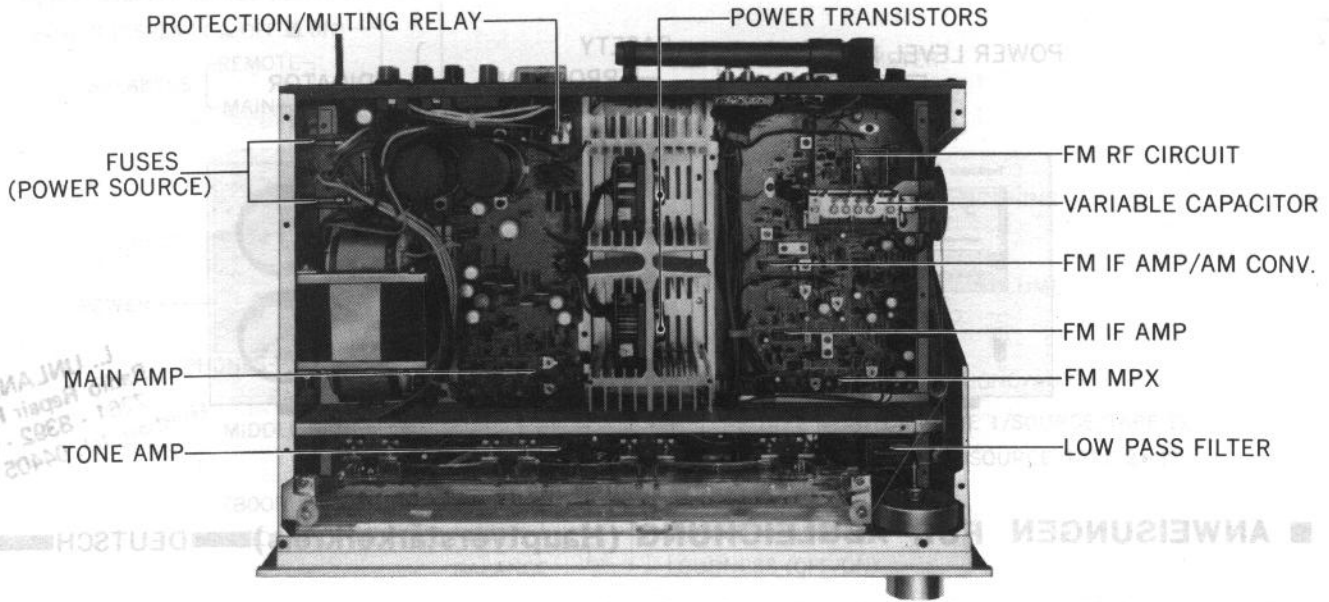


Fig. 4 (Abb. 4)

■ CHASSIS VIEW



■ **NOTE** The unit is provided with the speaker circuit protection fuses at the right and left channels respectively. The fuse is to prevent the power transistor from destruction, should the speaker terminals be short-circuited. Accordingly, if the unit fails to function upon completion of the speaker connections, check the speaker circuit protection fuses first of all for possible blowing.

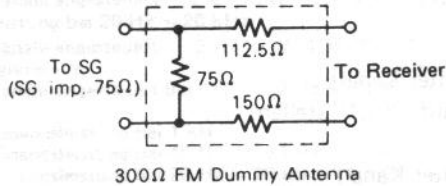


Fig. 5 (Abb. 5)

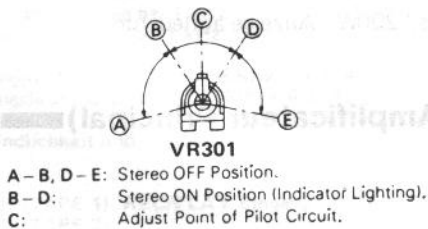


Fig. 6 (Abb. 6)

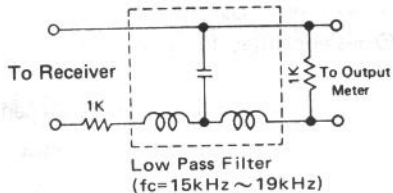
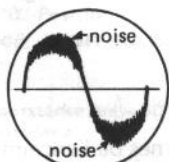


Fig. 7 (Abb. 7)



(SINE WAVE)  
Fig. 8 (Abb. 8)

■ ALIGNMENT POINTS (FM/AM tuner circuitry)

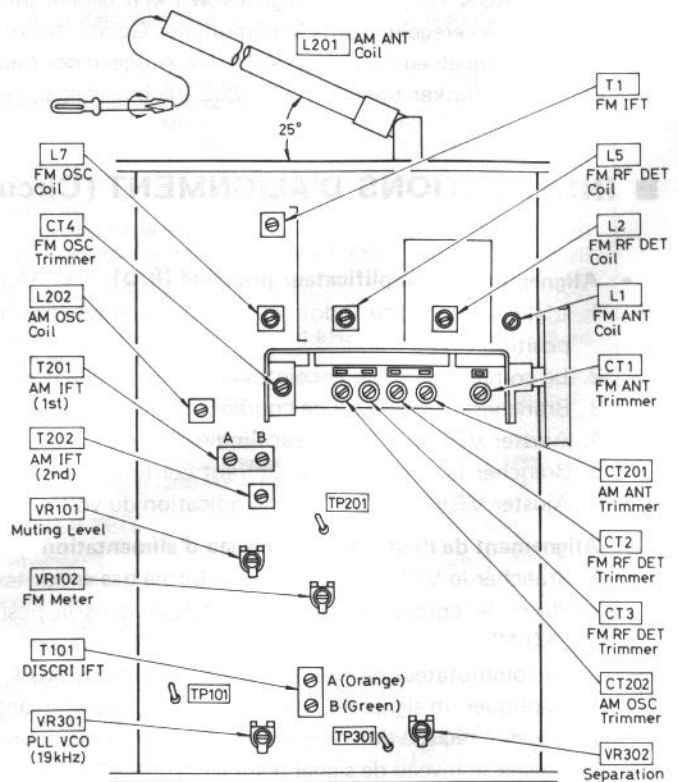
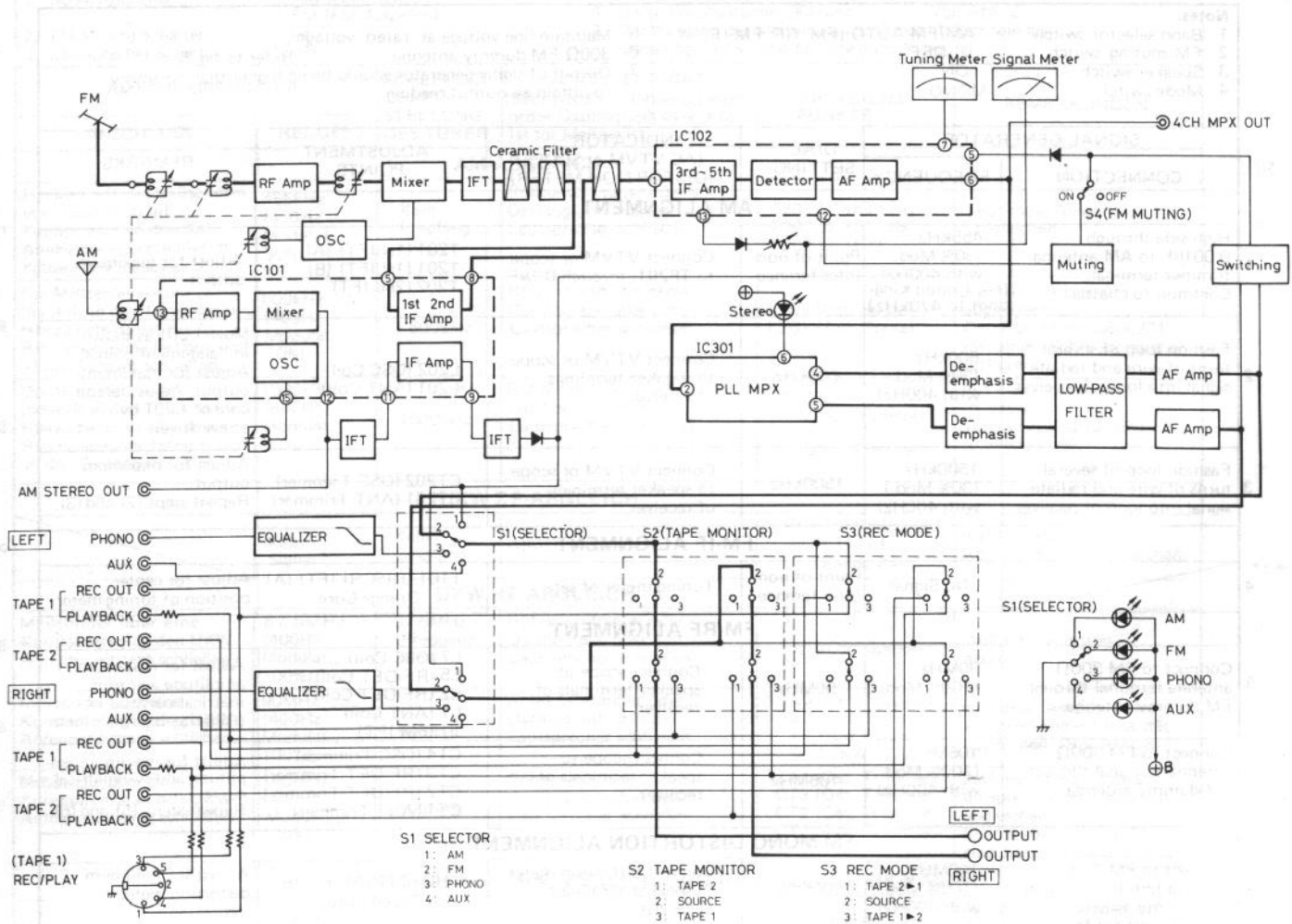


Fig. 9 (Abb. 9)

# ■ ALIGNMENT INSTRUCTIONS (FM/AM tuner circuitry) — ENGLISH

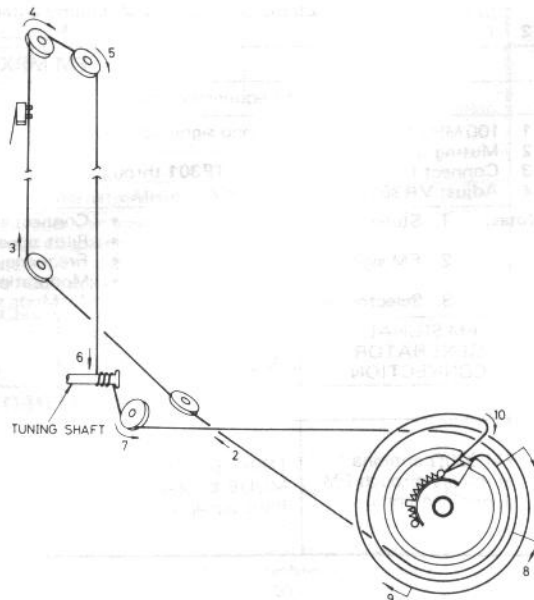
Notes:						
1. Band selector switch . . . . . AM/FM AUTO (FM, RF FM-IF) 2. FM muting switch . . . . . OFF 3. Speaker switch . . . . . ON 4. Mode switch . . . . . MONO					5. Maintain line voltage at rated voltage. 6. 300Ω FM dummy antenna . . . . . Refer to fig. 5 7. Output of signal generator should be no higher than necessary to obtain an output reading.	
SIGNAL GENERATOR		DIAL SETTING	INDICATOR (AC VTVM or SCOPE) (DISTORTION METER)	ADJUSTMENT POINTS	REMARKS	
CONNECTION	FREQUENCY					
<b>AM ALIGNMENT</b>						
1	High side through 0.001μF to AM antenna trimmer terminal. Common to chassis.	455kHz (30% Mod. with 400Hz) (For United Kingdom to 470kHz)	Point of non-interference	Connect VTVM or scope to TP201. through 0.1μF	T201 (1st IFT) (A) T201 (1st IFT) (B) T202 (2nd IFT)	Adjust for maximum output.
2	Fashion loop of several turns of wire and radiate signal into loop of receiver	600kHz (30% Mod. with 400Hz)	600kHz	Connect VTVM or scope to speaker terminals of receiver.	L202 (OSC Coil) L201 (ANT Coil)	Move L201 as shown in "alignment points" Adjust for maximum output. Adjust ferrite core of L201 by screw driver.
3	Fashion loop of several turns of wire and radiate signal into loop of receiver	1500kHz (30% Mod.) with 400Hz)	1500kHz	Connect VTVM or scope to speaker terminals of receiver.	CT202 (OSC Trimmer) CT201 (ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
<b>FM-IF ALIGNMENT</b>						
4	No Signal	Point of non-interference.	Tuning meter of set.	T101 (DISCRI IFT) (A) Orange Core	Adjust for center position of tuning meter.	
<b>FM-RF ALIGNMENT</b>						
5	Connect to FM 300Ω antenna terminal through FM dummy antenna.	90MHz (100% Mod. with 400Hz)	90MHz	Connect scope to speaker terminals of receiver.	L7 (OSC Coil) L5 (RF-DET Coil) L2 (RF-DET Coil) L1 (ANT Coil) T1 (FM IFT)	Adjust for maximum amplitude and symmetrical curve. (Refer to fig. 8).
6	Connect to FM 300Ω antenna terminal through FM dummy antenna.	106MHz (100% Mod. with 400Hz)	106MHz	Connect scope to speaker terminals of receiver.	CT4 (OSC Trimmer) CT3 (RF DET Trimmer) CT2 (RF DET Trimmer) CT1 (ANT Trimmer)	Adjust for maximum amplitude and symmetrical curve. Repeat steps (5) and (6).
<b>FM MONO DISTORTION ALIGNMENT</b>						
7	Connect to FM 300Ω antenna terminal through FM dummy antenna. Apply 60 dB to set.	100MHz (100% Mod. with 400Hz)	100MHz	Connect distortion meter to speaker terminals of receiver.	T101 (DISCRI IFT) (B) Green Core	Adjust for minimum distortion meter indication
<b>FM MUTING LEVEL ALIGNMENT</b>						
8	Connect to FM 300Ω antenna terminal through FM dummy antenna. Apply 16dB (6.3μV) to set.	100MHz (100% Mod. with 400Hz)	100MHz	Connect VTVM or scope to speaker terminals.	VR101	FM muting switch to "ON". Adjust so that output can be obtained.
<b>FM SIGNAL METER ALIGNMENT</b>						
9	1 Apply 100MHz FM signal of 100dB (400Hz 30% modulation) to FM 300Ω antenna terminal through FM dummy antenna. 2 Tuning at 100MHz.			3 Adjust VR102 for about 4.7 point of signal meter indication.		
<b>FM MPX PILOT ALIGNMENT</b>						
Using a frequency counter			Using alternate system			
10	1 100 MHz Non-modulated mono signal applied to set. 2 Muting switch to "ON" 3 Connect frequency counter to TP301 through resistor (100kΩ). 4 Adjust VR301 to 19kHz, ±30Hz.			1 Apply stereo signal from generator or stereo station to receiver. 2 Adjust VR301 until stereo indicator lights up. Cement arm of VR301 as shown in fig. 6.		
<b>Notes:</b> <ul style="list-style-type: none"> <li>1. Stereo modulator . . . . .</li> <li>2. FM signal generator . . . . .</li> <li>3. Selector switch to "FM AUTO"</li> <li>• Connect stereo modulator output to EXT MOD terminal of signal generator.</li> <li>• Pilot signal modulation to "10%"</li> <li>• Frequency approximately 100MHz/Output level to "72dB (IHF)"</li> <li>• Modulation mode to "FM"</li> <li>4. Mode switch to "STEREO"</li> </ul>						
FM SIGNAL GENERATOR CONNECTION	STEREO MODULATOR MODE & MOD. RATE	INDICATOR (AC VTVM)	ADJUSTMENT POINTS	REMARKS		
<b>FM STEREO SEPARATION ALIGNMENT</b>						
11	FM 300Ω antenna terminals through FM dummy antenna.	(1kHz 30% Modulation) MODE L (and R) Pilot signal to "ON"	Connect VTVM to speaker terminals through low pass filter. (Refer to fig. 7)	VR302	<ul style="list-style-type: none"> <li>• Tuning at 100MHz.</li> <li>• Make adjustment so that, when the antenna input is subjected to L modulation (or R modulation), R channel output (or L channel output) becomes minimum.</li> </ul>	

**■ BLOCK DIAGRAM ..... FM/AM Tuner and tape monitor selection circuitry**



**■ DIAL CORD INSTALLATION GUIDE**

- For threading a fresh cord, proceed as follows.
  1. Prepare a fresh cord more than 220cm (86-3/8") in length.
  2. Bring the variable capacitor into a state where the drum is completely turned to the right (maximum capacity and lowest frequency for the variable capacitor).
  3. Direct the cord in the order from 1 to 10.
  4. Stretch the cord in such a tension as the spring length is elongated by 1.5 times that of the original state.
  5. Fix the knot of the cord with the bond.





REPLACEMENT PARTS LIST ..... Electric Parts

NOTES: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.  
 2. **S** indicates that only parts specified by the manufacturer be used for safety.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
TR801, 802	2SA666A1-R	Transistor, Logarithm Compressor (Use in ranks P, Q or R)	2	
TR803, 804, 805, 806	2SC1328-T	Transistor, Logarithm Compressor (Use in ranks S, T or U)	4	
TR807	2SC1398-Q	Transistor, Regulator (Use in ranks P, Q or R)	1	
TR901, 902	2SC1328-T	Transistor, Power Amp DC Detector (Use in ranks S, T or U)	2	
TR903	2SC945-R	Transistor, Relay Switching (Use in P1, P2 or R)	1	
TR904	2SC1509-R	Transistor, Relay Driver (Use in ranks Q or R)	1	
<b>DIODES</b>				
D101, 102, 103	MA150	Diode, Switching	6	
D104	SVDKB262E	Diode, Meter Detector	1	
D201, 202, 203	OA99	Diode, AM Detector & AGC	3	
D303	SVDMZ312C	Diode, 12V Zener	1	
D304	LN35BP	Light Emitting Diode, Safety Indicator	1	
D305, 306, 307, 308, 309	LN25RP	Light Emitting Diode, Program Indicator	5	
D601, 602	SVDMA26-1	Diode, Current Mirror	2	
D701	SVDS15VB20	Rectifier	1	
D702	SM112	Rectifier	1	
D703	SVDMZ336B	Diode, Zener, 36V	1	
D704	SVDMZ330B	Diode, Zener, 30V	1	
D801	SVDMZ214A	Diode, Zener, 14V	1	
D803 ~ D810	LN26RP	Light Emitting Diode, Red	8	
D811 ~ D818	LN46YP	Light Emitting Diode, Orange	8	
D819 ~ D826	LN36BP	Light Emitting Diode, Green	8	
D901, 902	SM112	Relay Diode & Rectifier	2	
<b>COILS and TRANSFORMERS</b>				
L1	SLA4P25	Coil, FM Antenna	1	
L2	SLD4P9	Coil, FM RF Detector	1	
L3, 4	RLQY25S2	Coil, Choke	2	
L5	SLD4P15	Coil, FM RF Detector	1	
L6	RLQY15G5	Coil, Choke	1	
L7	SLO4P31	Coil, FM Local Oscillator	1	
L101	SLQX180-2	Coil, Choke	1	
L201	SLF2D45	Coil, AM Bar Antenna (w/Mounting)	1	
L202	SLO2G9	Coil, AM Local Oscillator	1	
L203	SLQX101-2D	Coil, Choke	1	
L601, 602	SLQY15G-3U	Coil, Power Amplifier Output	2	
T1	SLI4C109	Transformer, FM IF	1	
T101	SLI4D513-3	Transformer, FM IF	1	
T201	SLI7C101-T	Transformer, AM IF (455 kHz)	1	
T201 (XE) only	SLI7Z103-T	Transformer, AM IF (470 kHz)	1	
T202	SLI2C413	Transformer, AM IF	1	
T301	SLMA1Z3-Z	Transformer, Low Pass Filter	1	
T701	SLT5S27-W	Transformer, Power	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>INTEGRATED CIRCUITS</b>				
IC101	AN217-BB	IC, FM IF Amplifier & AM Converter	1	
IC102	AN377	IC, FM IF Amplifier & FM Detector	1	
IC301	AN363	IC, FM Multiplex	1	
IC801, 802	SVIMS1901P	IC, Window Comparator	2	
<b>TRANSISTORS</b>				
TR1	3SK40-M	Transistor, [FET] FM RF Amplifier	1	
TR2	2SC1047-C	Transistor, FM Mixer (Use in ranks C or D)	1	
TR4	2SC1675-L1	Transistor, Local Oscillator	1	
TR5	2SK49-H1	Transistor, [FET] Buffer	1	
TR101, 102, 103, 105, 106, 201, 202	2SC1328-T	Transistor, Muting Switching (Use in ranks S, T or U)	7	
TR104	2SA666A1-R	Transistor, Muting Switching	1	
TR301, 302	2SA902S-F	Transistor, AF Amplifier (Use in ranks Q, R or S)	2	
TR303	2SC1398-Q	Transistor, Regulator (Use in ranks F or G)	1	
TR401, 402	SVTM47LP	Transistor, Equalizer Amplifier (Use in ranks P, Q or R)	2	
TR403, 404	2SC1328-T	Transistor, Equalizer Amplifier (Use in ranks S or T)	2	
TR405, 406	2SA720-R	Transistor, Equalizer Amplifier (Use in ranks Q or R)	2	
TR501, 502, 503, 504, 505, 506, 507, 508	2SC1328-T	Transistor, Tone Amplifier (Use in ranks S or T)	8	
TR601, 602	2SA798A-G2	Transistor, Differential Amplifier (Use in ranks F2 or G2)	2	
TR603, 604	2SC1328-T	Transistor, Current Mirror (Use in ranks S or T)	2	
TR605, 606	2SC1628-0	Transistor, Pre Driver (Use in ranks Y or O)	2	
TR607, 608	2SC945-R	Transistor, Thermal Compensation (Use in ranks P1, P2 or R)	2	
TR609, 610	2SC1913A-R	Transistor, Drive Amplifier (Use in ranks R or Q)	2	
TR611, 612	2SA913A-R	Transistor Drive Amplifier (Use in ranks R or Q) (Use pair ranks as same as TR609, 610 and TR612.)	2	
TR613, 615, 617, 619, 618, 620	2SD427A-R	Transistor, Power Amplifier (Use in ranks O or R)	4	
TR614, 616, 618, 620	2SB557A-R	Transistor, Power Amplifier (Use in ranks O or R) (Use pair ranks as same as TR613 ~ TR619 and TR620.)	4	
TR701	2SD381-L	Transistor, Regulator (Use in ranks L or M)	1	
TR702	2SB536-L	Transistor, Regulator (Use in ranks L or M)	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>CERAMIC FILTERS</b>				
CF	SVFE107MM-A	Ceramic Filter, Post. 10.7MHz	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>SWITCHES</b>				

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks			
CF101, 102	SVFE107MM-A SVFE107MM-B SVFE107MM-C SVFE107MM-D SVFE107MM-E SVFE107ML-A SVFE107ML-B SVFE107ML-C SVFE107ML-D SVFE107ML-E	<b>CERAMIC FILTERS</b> Ceramic Filter, Red, 10.7MHz Ceramic Filter, Blue, 10.67MHz Ceramic Filter, Orange, 10.73MHz Ceramic Filter, Black, 10.64MHz Ceramic Filter, White, 10.76MHz Ceramic Filter, Red, 10.7MHz Ceramic Filter, Blue, 10.67MHz Ceramic Filter, Orange, 10.73MHz Ceramic Filter, Black, 10.64MHz Ceramic Filter, White, 10.76MHz (Use pair ranks as same as CF101, CF102 and CF103.)	each 2	○			
			each 1	○			
			<b>THERMISTORS</b>				
			TH601, 602	RRT251	Thermistor, Driver Amplifier Circuit	2	
			TH801, 802	ERTD2FHL103S	Thermistor, Output Indicator Circuit	3	
			VR101	EVL33AA00B15	Muting Level Adjustment, 100kΩ(B)	1	
			VR102	EVL33AA00B24	FM Meter Adjustment, 20kΩ(B)	1	
			VR301	EVT33MA00B14	PLL VCO Adjustment, 10kΩ(B)	1	
			VR302	EVL33AA00B14	Separation Adjustment, 10kΩ(B)	1	
			VR601, 502	EWK6GA029B15	Bass & Treble Control, 100kΩ(B)	2	
VR503	EWK7KA029B15	Middle Control, 100kΩ(B)	1				
VR601, 602	EVL33AA00B52	Icα Adjustment, 500Ω(B)	2				
VR801, 802	EVL33AA00B24	LED Lighting Level Adjustment, 20kΩ(B)	2				
VR1001	EWFM1A029BF5	Volume Control, 250kΩ(B)	1				
VR1002	EWK4A029252	Balance Control, 250kΩ(BH)	1				
CV1,2,3,4	ECVC763J124AS	<b>VARIABLE CAPACITOR</b> Variable Capacitor, with Trimmer	1				
201, 202							
(CT1,2,3,4)							
(CT201, 202)							
<b>COMPONENT COMBINATIONS</b>							
Z201	EXRF203Z471S	Component Combination, AM Detector	1				
Z701, 702	EXRF5203ZS	Component Combination, Rectifier	2				
<b>RELAY</b>							
RLY601	SSY19-1	Relay, Protection & Muting	1				
<b>FUSES</b>							
F1	XBA2C63TRO	Fuse, T6.3A (250V), Primary	1				
F2	XBA2C20TRO	Fuse, T 2A (250V), Lamp	1				
F3	XBA2C16TRO	Fuse, T 1.6A (250V), RF Circuit	1				
F4	XBA2C31TRO	Fuse, T3.15A (250V), Primary	1				
F601, 602	XBA2C50SSO	Fuse, 5A (250V), Speaker Circuit	2	○			
<b>LAMPS</b>							
PL1, 2, 3, 4	XAMR62S	Lamp, Dial (6.3V 0.25A)	4				

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>SWITCHES</b>				
S1	ESRM164F25A	Switch, Selector	1	
S2, 3	SSL95	Switch, Tape Monitor & Recording Mode	2	
S4, 6	SSL97	Switch, Loudness & FM Muting	2	
S5	SSL99	Switch, Mode	1	
S7, 8	SSL93	Switch, Low & High Filter	2	
S9, 10	SSH223S	Switch, Speakers (Main & Remote)	1	
S13	SSL103	Switch, Power Source	1	
S14	SSR53S	Switch, Voltage Adjuster	1	
S15, 17	SSH63S	Switch, Sensitivity & Display OFF	2	

**NOTES 2:**

Guide letters of Resistor and Capacitor indicate;

**Resistors**

- ERD . . . . Carbon
- ERO . . . . Metal film
- ERF . . . . Non-flammable
- ERG . . . . Metal oxide
- ERX . . . . Metal film
- ERC . . . . Solid

**Capacitors**

- ECC . . . . Ceramic
- ECK . . . . Ceramic
- ECQ . . . . Polypropylene
- ECM . . . . Polyester
- ECN . . . . Paper
- ECE . . . . Non-Polar Electrolytic
- ECE . . . . Electrolytic

**No. 1**

Ref. No.	Part No.	Ref. No.	Part No.
<b>RESISTORS</b>			
R1, 2	ERD50TJ104	R115	ERD25TJ470
(The products for [XAL] are not provided.)			
R3	ERD25TJ563	R116	ERD25TJ181
R4	ERD25TJ223	R117	ERD25TJ103
R5	ERD25TJ181	R118	ERD25TJ274
R6	ERD25TJ562	R119	ERD25TJ331
R7	ERD25TJ333	R120	ERD25TJ223
R8	ERD25TJ102	R121	ERD25TJ563
R9, 10	ERD25TJ181	R122	ERD25TJ224
R15	ERD25TJ100	R123	ERD25TJ333
R16	ERD25TJ681	R124	ERC14GK825
R17, 18	ERD25TJ223	R125, 126	ERD25TJ103
R19	ERD25TJ102	R127	ERD25TJ223
R20	ERD25TJ333	R128	ERD25TJ104
R21	ERD25TJ102	R129	ERD25TJ683
R101	ERD25TJ102	R201	ERD25TJ152
R102, 103	ERD25TJ331	R202	ERD25TJ562
R104	ERD25TJ823	R203	ERD25TJ181
R105	ERD25TJ331	R204	ERD25TJ392
R106	ERD25TJ102	R205	ERD25TJ274
R107	ERD25TJ274	R206, 207	ERD25TJ333
R108	ERD25TJ104	R208	ERD25TJ104
R109	ERD25TJ101	R209	ERD25TJ393
R110	ERD25TJ221	R210	ERD25TJ333
R111	ERD25TJ822	R211	ERD25TJ472
R112	ERD25TJ392	R212	ERD25TJ332
R113	ERD25TJ562	R213	ERD25TJ104
R114	ERD25TJ272	R214	ERD25TJ272
		R215	ERD25TJ472
		R216	ERD25TJ682

**No. 2**

Ref. No.	Part No.	Ref. No.	Part No.
R15	ERD25TJ470	R115	ERD25TJ470
R116	ERD25TJ181	R116	ERD25TJ181
R117	ERD25TJ103	R117	ERD25TJ103
R118	ERD25TJ274	R118	ERD25TJ274
R119	ERD25TJ331	R119	ERD25TJ331
R120	ERD25TJ223	R120	ERD25TJ223
R121	ERD25TJ563	R121	ERD25TJ563
R122	ERD25TJ224	R122	ERD25TJ224
R123	ERD25TJ333	R123	ERD25TJ333
R124	ERC14GK825	R124	ERC14GK825
R125, 126	ERD25TJ103	R125, 126	ERD25TJ103
R127	ERD25TJ223	R127	ERD25TJ223
R128	ERD25TJ104	R128	ERD25TJ104
R129	ERD25TJ683	R129	ERD25TJ683
R201	ERD25TJ152	R201	ERD25TJ152
R202	ERD25TJ562	R202	ERD25TJ562
R203	ERD25TJ181	R203	ERD25TJ181
R204	ERD25TJ392	R204	ERD25TJ392
R205	ERD25TJ274	R205	ERD25TJ274
R206, 207	ERD25TJ333	R206, 207	ERD25TJ333
R208	ERD25TJ104	R208	ERD25TJ104
R209	ERD25TJ393	R209	ERD25TJ393
R210	ERD25TJ333	R210	ERD25TJ333
R211	ERD25TJ472	R211	ERD25TJ472
R212	ERD25TJ332	R212	ERD25TJ332
R213	ERD25TJ104	R213	ERD25TJ104
R214	ERD25TJ272	R214	ERD25TJ272
R215	ERD25TJ472	R215	ERD25TJ472
R216	ERD25TJ682	R216	ERD25TJ682



CVA9C1L052

**No. 7**

Ref. No.	Part No.	Part No.
C301	ECEA1ES470	ECEA1ES470
C302	ECEA50Z3R3	ECEA50Z3R3
C303, 304	ECQM1H183JZ	ECQM1H183JZ
C305	EQS05471JZ	EQS05471JZ
C306, 307	ECEA2ASR47	ECEA2ASR47
C308	ECQM1H473KZ	ECQM1H473KZ
C309	ECEA50Z1	ECEA50Z1
C310	ECEA1ES470	ECEA1ES470
C311, 312	ECEA50ZR22	ECEA50ZR22
C313	ECEA1ES101	ECEA1ES101
C314	ECKD1H103ZF	ECKD1H103ZF
C315, 316	ECEA1ES470	ECEA1ES470
C317, 318	ECQM1H333KZ	ECQM1H333KZ
C319, 320	ECEA50M3R3R	ECEA50M3R3R
C401, 402	ECEA50M3R3R	ECEA50M3R3R
C403, 404	ECQM1H222KZ	ECQM1H222KZ
C405, 406	ECKD1H471KB	ECKD1H471KB
C407, 408	ECCD1H220KC	ECCD1H220KC
C409, 410	ECCD1H150KC	ECCD1H150KC
C411, 412	ECEA1CS330	ECEA1CS330
C413, 414	ECEA1A3331	ECEA1A3331
C415, 416	EQP1393GZ	EQP1393GZ
C417, 418	EQP1108GZ	EQP1108GZ
C419, 420	ECQM1H102JZ	ECQM1H102JZ
C421, 422	ECEA50M2R2R	ECEA50M2R2R
C423, 424	ECEA1JS330	ECEA1JS330
C425, 426	ECQM1H102KZ	ECQM1H102KZ
C427, 428	ECEA1HS470	ECEA1HS470
C501, 502	ECEA50M4R7R	ECEA50M4R7R
C503, 504	ECKD1H331KB	ECKD1H331KB
C505, 506	ECEA50M3R3R	ECEA50M3R3R
C507, 508	ECQM1H823KZ	ECQM1H823KZ
C509, 510	ECQM1H223KZ	ECQM1H223KZ
C511, 512	ECQM1H223KZ	ECQM1H223KZ
C513, 514	ECQM1H152KZ	ECQM1H152KZ
C515, 516	ECQM1H392KZ	ECQM1H392KZ
C517, 518	ECQM1H392KZ	ECQM1H392KZ
C519, 520	ECQM1H392KZ	ECQM1H392KZ
C521, 522	ECQM1H392KZ	ECQM1H392KZ
C523, 524	ECEA50M4R7R	ECEA50M4R7R
C525, 526	ECEA1ES470	ECEA1ES470
C527, 528	ECCD1H470K	ECCD1H470K
C529, 530	ECEA1AS221	ECEA1AS221
C531, 532	ECEA50M1R	ECEA50M1R
C533, 534	ECQM1H562KZ	ECQM1H562KZ
C535, 536	ECQM1H273KZ	ECQM1H273KZ
C537, 538	ECEA1VS221	ECEA1VS221
C539	ECEA1ES101	ECEA1ES101
C540	ECKD1H331KB	ECKD1H331KB
C541, 542	ECEA50M1R	ECEA50M1R
C601, 602	ECCD1H181K	ECCD1H181K
C603, 604	ECQM1H223KZ	ECQM1H223KZ
C605, 606	ECCD1H101K	ECCD1H101K
C607, 608	ECKD1H331KB	ECKD1H331KB
C609, 610	ECEA1CS330	ECEA1CS330

**No. 6**

Ref. No.	Part No.	Part No.
C1, 2	CAPACITORS	
C3	ECCD1H150KC	ECCD1H150KC
C4	ECGN50100K	ECGN50100K
C5	ECCD1H180KC	ECCD1H180KC
C6	ECKD1H102ZF	ECKD1H102ZF
C7	ECCD1H102MDA	ECCD1H102MDA
C8	ECCD1H120KC	ECCD1H120KC
C9	ECCD1H030CC	ECCD1H030CC
C10	ECCD1H050CC	ECCD1H050CC
C11	ECCD1H181K	ECCD1H181K
C12	ECKD1H103ZF	ECKD1H103ZF
C14, 15	ECCD1H223ZF	ECCD1H223ZF
C17	ECCD1H220KR	ECCD1H220KR
C18	ECCD1H070DC	ECCD1H070DC
C19	ECCD1H390KC	ECCD1H390KC
C20	ECCD1H150KC	ECCD1H150KC
C21	ECCD1H030CC	ECCD1H030CC
C22	ECKD1H102ZF	ECKD1H102ZF
C23	ECCD1H030CC	ECCD1H030CC
C24	ECKD1H102ZF	ECKD1H102ZF
C90,91(XAL)only	ECKDHS101MB	ECKDHS101MB
C101, 102	ECKD1H223ZF	ECKD1H223ZF
C103	ECEA50Z1	ECEA50Z1
C104, 105	ECKD1H223ZF	ECKD1H223ZF
C106, 107	ECEA50Z3R3	ECEA50Z3R3
C108	ECCD1H680K	ECCD1H680K
C109	ECEA2ASR47	ECEA2ASR47
C110	ECKD1H223ZF	ECKD1H223ZF
C111	ECEA1HS100	ECEA1HS100
C112	ECKD1H223ZF	ECKD1H223ZF
C113, 114	ECEA1AS331	ECEA1AS331
C115	ECEA50Z1	ECEA50Z1
C116	ECEA50Z1	ECEA50Z1
C117	ECEA50Z1	ECEA50Z1
C118	ECEA50Z1	ECEA50Z1
C119	ECKD1H223ZF	ECKD1H223ZF
C120	ECCD1H181K	ECCD1H181K
C121	ECCD1H020CC	ECCD1H020CC
C122	ECEA1AS47	ECEA1AS47
C201	ECCD1H150KC	ECCD1H150KC
C203, 204	ECKD1H103ZF	ECKD1H103ZF
C205	ECKD1H103MD	ECKD1H103MD
C206	ECQ0536JLZ	ECQ0536JLZ
C207 (XAL) only	ECKDHS102MD	ECKDHS102MD
C208	ECEA50Z3R3	ECEA50Z3R3
C209	ECKD1H331KB	ECKD1H331KB
C210	ECCD1H390KC	ECCD1H390KC
C211, 212	ECCD1H103ZF	ECCD1H103ZF
C213	ECEA1HS100	ECEA1HS100
C214	ECQM1H223KZ	ECQM1H223KZ
C215	ECEA50Z3R3	ECEA50Z3R3
C216	ECQM1H223KZ	ECQM1H223KZ
C217	ECKD1H102ZF	ECKD1H102ZF
C220	ECQM1H223KZ	ECQM1H223KZ

**No. 5**

Ref. No.	Part No.	Part No.
R807, 808	ERD25TJ222	ERD25TJ222
R809, 810	ERD25TJ223	ERD25TJ223
R811, 812	ERD25TJ274	ERD25TJ274
R813, 814	ERD25TJ562	ERD25TJ562
R815, 816	ERD25TJ822	ERD25TJ822
R817, 818	ERD25TJ122	ERD25TJ122
R819, 820	ERD25TJ181	ERD25TJ181
R821, 822	ERD25TJ101	ERD25TJ101
R823, 824	ERD25TJ683	ERD25TJ683
R825	ERD12FJ100	ERD12FJ100
R826	ERD25TJ332	ERD25TJ332
R827	ERD25TJ123	ERD25TJ123
R828	ERD25TJ682	ERD25TJ682
R829	ERD25TJ824	ERD25TJ824
R831, 832	ERD25TJ123	ERD25TJ123
R837, 838	ERD25TJ681	ERD25TJ681
R839, 840	ERD25TJ681	ERD25TJ681
R841, 842	ERD25TJ681	ERD25TJ681
R843, 844	ERD25TJ681	ERD25TJ681
R845, 846	ERD25TJ181	ERD25TJ181
R847, 848	ERD25TJ181	ERD25TJ181
R849, 850	ERD25TJ181	ERD25TJ181
R851, 852	ERD25TJ181	ERD25TJ181
R853, 854	ERD25TJ181	ERD25TJ181
R855, 856	ERD25TJ181	ERD25TJ181
R857, 858	ERD25TJ181	ERD25TJ181
R859, 860	ERD25TJ181	ERD25TJ181
R901, 902	ERD25TJ183	ERD25TJ183
R903	ERD25TJ682	ERD25TJ682
R904	ERD25TJ332	ERD25TJ332
R905	ERD25TJ473	ERD25TJ473
R906	ERD25TJ472	ERD25TJ472
R907	ERD25TJ333	ERD25TJ333
R908	ERD25TJ824	ERD25TJ824
R909	ERD25TJ563	ERD25TJ563
R910	ERD25TJ383	ERD25TJ383
R911	ERG2ANJ681	ERG2ANJ681
R912	ERD25TJ182	ERD25TJ182
R1005, 1006	ERD25TJ472	ERD25TJ472
R1007	ERD25TJ394	ERD25TJ394
R1008	ERD25TJ472	ERD25TJ472
R1009	ERD25TJ394	ERD25TJ394
R1010, 1011	ERD25TJ274	ERD25TJ274
R1012, 1013	ERD25TJ274	ERD25TJ274
R1110	ERD25TJ472	ERD25TJ472
R1111, 1112	ERD25TJ104	ERD25TJ104

**No. 4**

Ref. No.	Part No.	Part No.
R541, 542	ERO25CKG1783	ERO25CKG1783
R543, 544	ERO25CKF1472	ERO25CKF1472
R545, 546	ERO25CKG8251	ERO25CKG8251
R547, 548	ERO25CKG6340	ERO25CKG6340
R549, 550	ERD25TJ392	ERD25TJ392
R551, 552	ERD25TJ824	ERD25TJ824
R553, 554	ERD25TJ824	ERD25TJ824
R555, 556	ERD25TJ224	ERD25TJ224
R557	ERD25TJ122	ERD25TJ122
R558, 559	ERD25TJ473	ERD25TJ473
R560, 561	ERD25TJ333	ERD25TJ333
R562, 563	ERC14GK825	ERC14GK825
R564, 565	ERD25TJ824	ERD25TJ824
R601, 602	ERD25TJ824	ERD25TJ824
R603, 604	ERD25TJ222	ERD25TJ222
R605, 606	ERD25TJ683	ERD25TJ683
R607, 608	ERD25TJ223	ERD25TJ223
R609, 610	ERD25TJ272	ERD25TJ272
R611, 612	ERD25TJ151	ERD25TJ151
R613, 614	ERD14FJ471	ERD14FJ471
R615, 616	ERD14FJ100	ERD14FJ100
R617, 618	ERD14FJ681	ERD14FJ681
R619, 620	ERD14FJ182	ERD14FJ182
R621, 622	ERD25TJ471	ERD25TJ471
R623, 624	ERG1ANJ472	ERG1ANJ472
R625, 626	ERG1ANJ102	ERG1ANJ102
R627, 628	ERD14FJ471	ERD14FJ471
R629, 630	ERD14FJ471	ERD14FJ471
R631, 632	ERD14FJ101	ERD14FJ101
R633, 634	ERD14FJ470	ERD14FJ470
R635, 636	ERD14FJ180	ERD14FJ180
R637, 638	ERD25TJ122	ERD25TJ122
R639, 640	ERD14FJ820	ERD14FJ820
R641, 642	ERD14FJ820	ERD14FJ820
R643, 644	ERD25TJ563	ERD25TJ563
R645, 646	ERD25TJ182	ERD25TJ182
R647, 648	ERD25TJ151	ERD25TJ151
R649, 650	ERD14FJ5R6	ERD14FJ5R6
R651, 652	ERD14FJ5R6	ERD14FJ5R6
R653, 654	ERD14FJ5R6	ERD14FJ5R6
R655, 656	ERF55JR82	ERF55JR82
R657, 658	ERF55JR82	ERF55JR82
R659, 660	ERF55JR82	ERF55JR82
R661, 662	ERF55JR82	ERF55JR82
R663, 664	ERF55JR82	ERF55JR82
R665, 666	ERG2ANJ100	ERG2ANJ100
R667, 668	ERG2ANJ331	ERG2ANJ331
R669, 670	ERX1ANJ5R6	ERX1ANJ5R6
R702	ERD14FJ100	ERD14FJ100
R703, 704	ERD18FAJ2R2	ERD18FAJ2R2
R705, 706	ERD25TJ223	ERD25TJ223
R707	ERD14FJ331	ERD14FJ331
R708	ERD14FJ561	ERD14FJ561
R709	ERD14FJ391	ERD14FJ391
R801, 802	ERG1ANJ152	ERG1ANJ152
R803, 804	ERD50TJ221	ERD50TJ221
R805, 806	ERD25TJ101	ERD25TJ101

**No. 3**

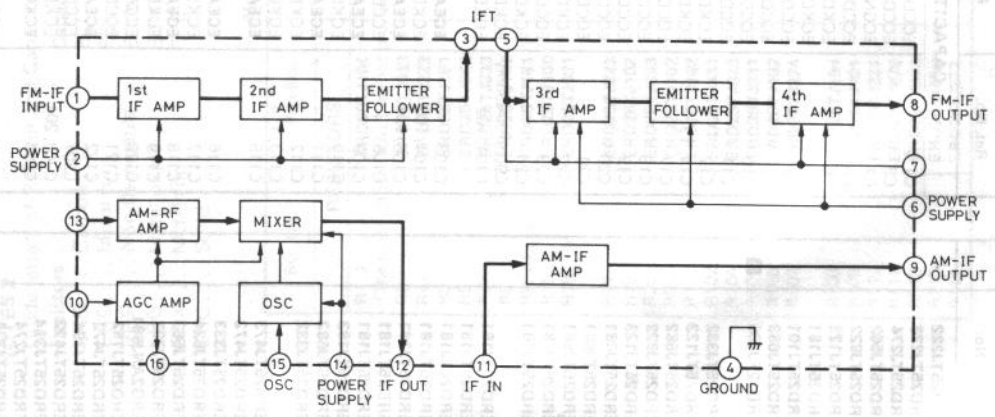
Ref. No.	Part No.	Part No.
R200	ERD25TJ471	ERD25TJ471
R301	ERD25TJ151	ERD25TJ151
R302, 303	ERD25TJ392	ERD25TJ392
R304	ERD25TJ823	ERD25TJ823
R305	ERD25TJ123	ERD25TJ123
R306	ERD25TJ102	ERD25TJ102
R307	ERD25TJ103	ERD25TJ103
R308, 309	ERD25TJ472	ERD25TJ472
R310	ERD25TJ680	ERD25TJ680
R311, 312	ERD25TJ332	ERD25TJ332
R313, 314	ERD25TJ392	ERD25TJ392
R315, 316	ERD25TJ271	ERD25TJ271
R317, 318	ERD25TJ104	ERD25TJ104
R319	ERD14FJ100	ERD14FJ100
R320	ERD14FJ122	ERD14FJ122
R321	ERD25TJ181	ERD25TJ181
R322, 323	ERD25TJ472	ERD25TJ472
R324, 325	ERD25TJ102	ERD25TJ102
R326, 327	ERD25TJ153	ERD25TJ153
R328	ERD25TJ471	ERD25TJ471
R401, 402	ERD25TJ470	ERD25TJ470
R403, 404	ERO25CKG2203	ERO25CKG2203
R405, 406	ERO25CKG5602	ERO25CKG5602
R407, 408	ERO25CKG8202	ERO25CKG8202
R409, 410	ERO25CKG1502	ERO25CKG1502
R411, 412	ERD25TJ821	ERD25TJ821
R413, 414	ERD25TJ123	ERD25TJ123
R415, 416	ERD25TJ152	ERD25TJ152
R417	ERD25TJ103	ERD25TJ103
R419	ERD25TJ561	ERD25TJ561
R421, 422	ERO25CKG2201	ERO25CKG2201
R423, 424	ERD25TJ122	ERD25TJ122
R425, 426	ERO25CKF8202	ERO25CKF8202
R427, 428	ERO25CKF6801	ERO25CKF6801
R429, 430</		

CAPACITORS

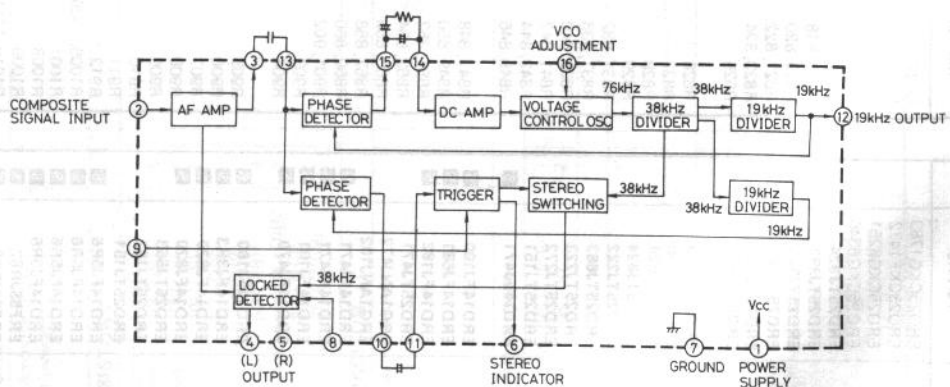
Ref. No.	Part No.
C611, 612	ECCD1H010C
C613, 614	ECCD2H101K
C615, 616	ECCD2H220K
C617, 618	ECEA1JS101
C619, 620	ECKD1H102ZF
C621, 622	ECKD1H471KB
C623, 624	ECKD1H103ZF
C625, 626	ECEA1JS101
C627, 628	ECEA1JS101
C629, 630	ECQM1473KZ
C631, 632	ECCD2H101K
C633, 634	ECCD1HOR5CC
C701, 702	ECET163R153U
C703	ECKD1H103ZF
C704	ECEA1ES471
C705	ECEA1ES101
C706, 707	ECKD1H103ZF
C708	ECEA1HS221
C709	ECEA1VS221
C710	ECQMT1473KZ
C801, 802	ECEA50Z1
C803, 804	ECEA1HS100
C805, 806	ECEA1HS100
C807	ECKD1H102ZF
C808	ECEA1ES470
C809	ECEA1HS100
C901	ECKD1H103ZF
C902	ECEA50Z3R3
C903	ECEA16N220V
C904	ECEA1CS330
C1001 (XSW) only	ECNCA4A223M

■ BLOCK DIAGRAM OF INTEGRATED CIRCUITS

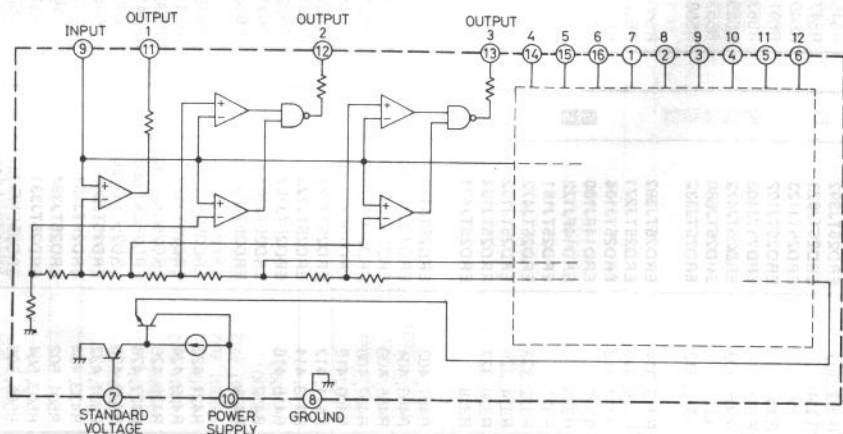
IC101 (AN217)  
FM IF amplifier &  
AM converter



IC301 (AN363)  
FM multiplex



IC801, 802 (SVIMS1901P)  
Window comparator of  
power display circuitry



# Schematic Diagram Model SA-700 (XA), (X)

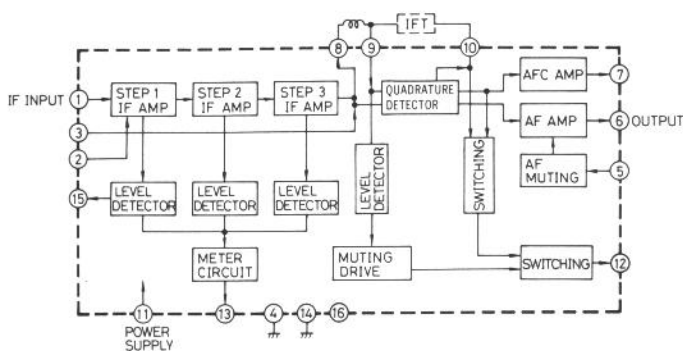
## Notes:

- S1-1 ~ S1-6:** Selector switch in "AM" position.  
① AM ↔ ② FM AUTO ↔ ③ PHONO ↔ ④ AUX
  - S2-1 ~ S2-4:** Tape monitor switch in "SOURCE" position.  
① TAPE 2 ↔ ② SOURCE ↔ ③ TAPE 1
  - S3-1 ~ S3-4:** Recording mode switch in "SOURCE" position.  
① TAPE 2 ▶ 1 ↔ ② SOURCE ↔ ③ TAPE 1 ▶ 2
  - S4:** FM muting switch in "ON" position.
  - S5-1 ~ S5-4:** Mode switch in "STEREO" position. (STEREO ↔ MONO)
  - S6-1, S6-2:** Loudness switch in "OFF" position.
  - S7:** Acoustic HIGH switch in "OFF" position.  
① BOOST ↔ ② OFF ↔ ③ FILTER
  - S8:** Acoustic LOW switch in "OFF" position.  
① BOOST ↔ ② OFF ↔ ③ FILTER
  - S9:** Remote speakers switch in "OFF" position.
  - S10:** Main speakers switch in "ON" position.
  - S13:** Power source switch in "ON" position.
  - S14:** Voltage adjustment switch in "240V" position.  
① 110V ↔ ② 120V ↔ ③ 220V ↔ ④ 240V
  - S15:** Power display range switch in "X1" position. (X1 ↔ X0.1)
  - S17:** Power display switch in "ON" position.
- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Not apply signal to set and muting switch to OFF condition  
 AM signal reception  
 FM muting switch is turned on under no-signal condition.
- AF Signal lines.  FM Signal lines  AM Signal lines.
17. This schematic diagram may be modified at any time with the development of new technology.

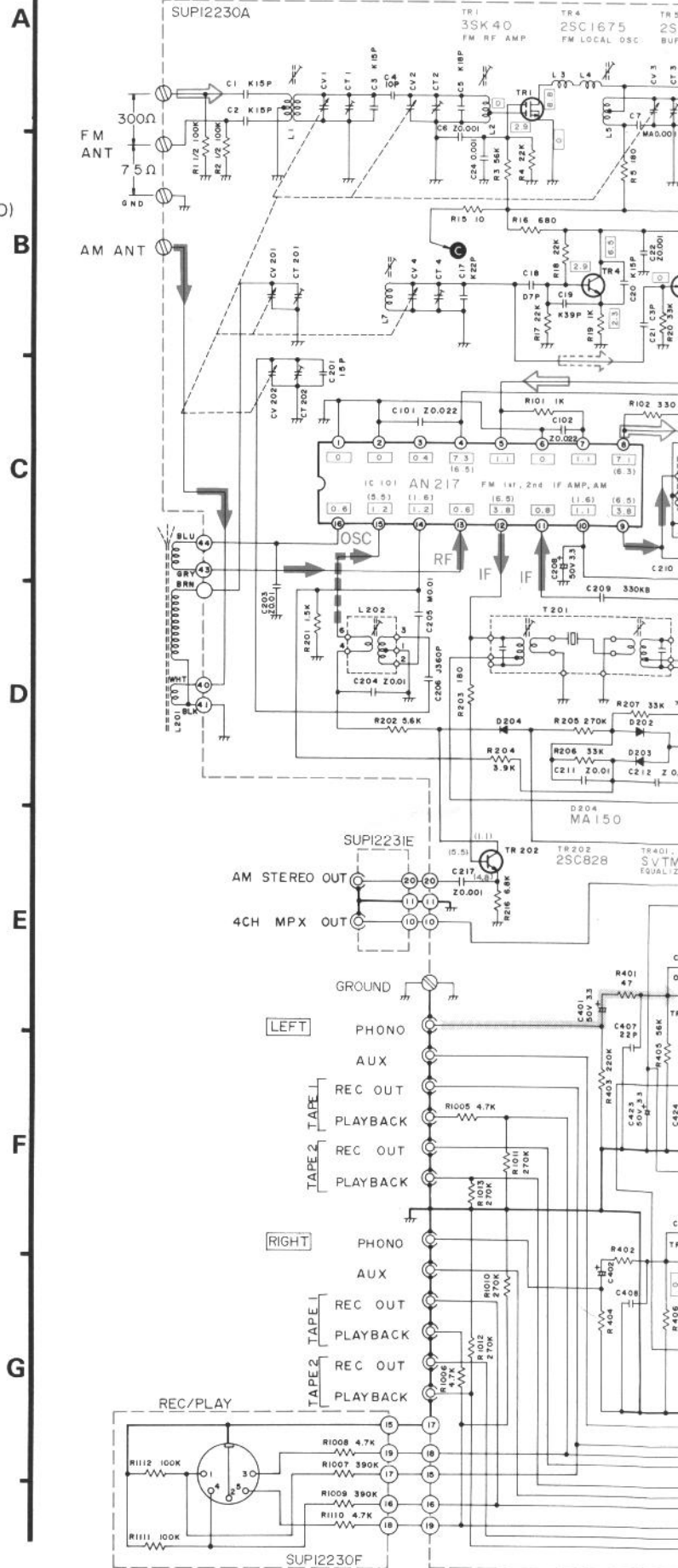
## TERMINAL GUIDE OF TRANSISTOR & IC

 2SA798A C1, B1, C2, E, B2	 2SA564, 2SA720, 2SA721, 25C828A, 25C945, 25C1047, 25C1509, 25C1328, 25C1675, SVTM4.7LP E, C, B1	 2SA913A, 25C1913A, 25C1398 B, C, E	 25B536, 25D381 B, C, E	 25D427A, 25B557A E
 25C1628 B, C, E	 35K40 B, C, E	 AN217, AN377, AN363, SVIMS1901P OSC, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	 25K49 Gate, Source, Drain	 25D427A, 25B557A E

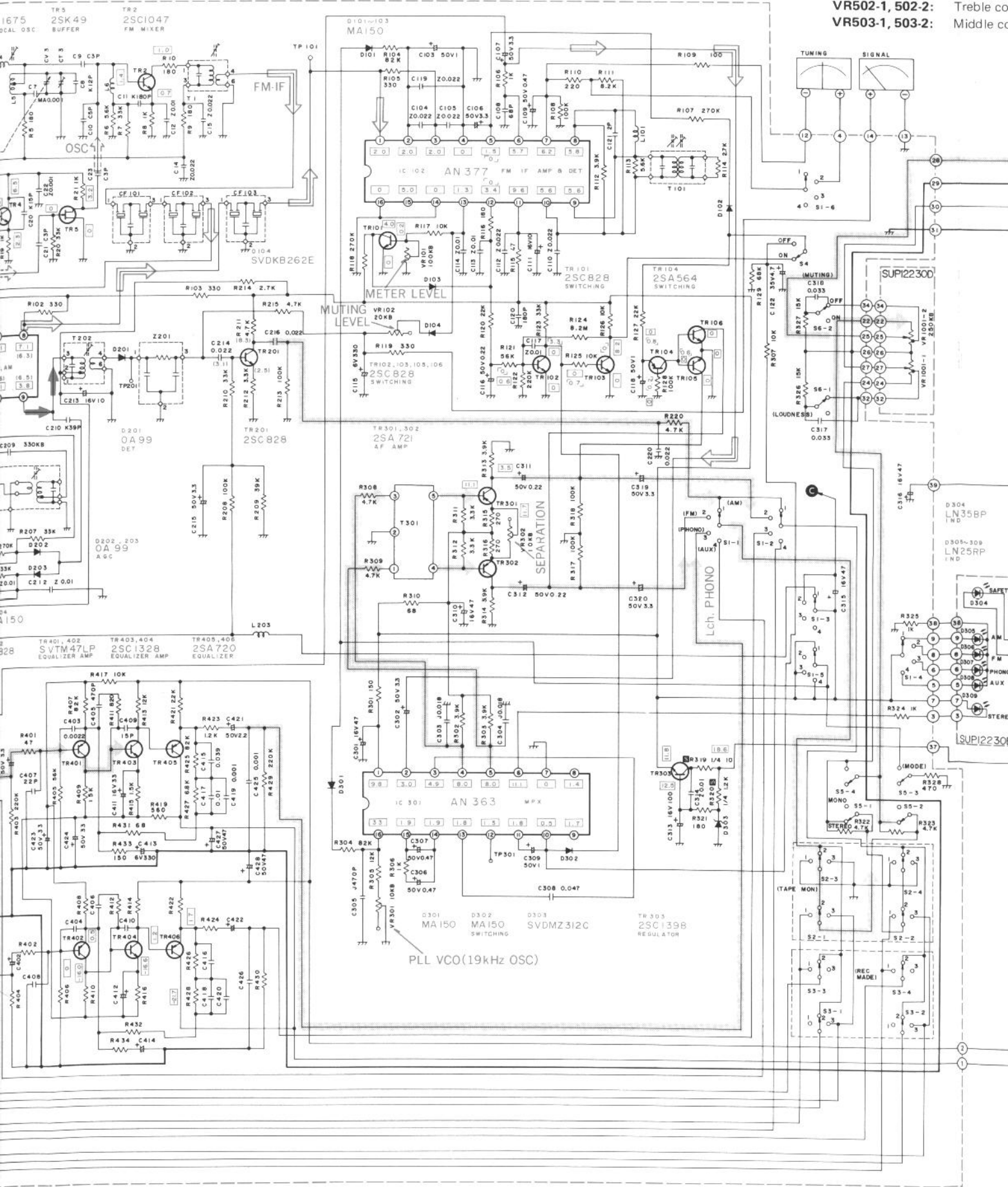
## BLOCK DIAGRAM OF IC102 (AN377)



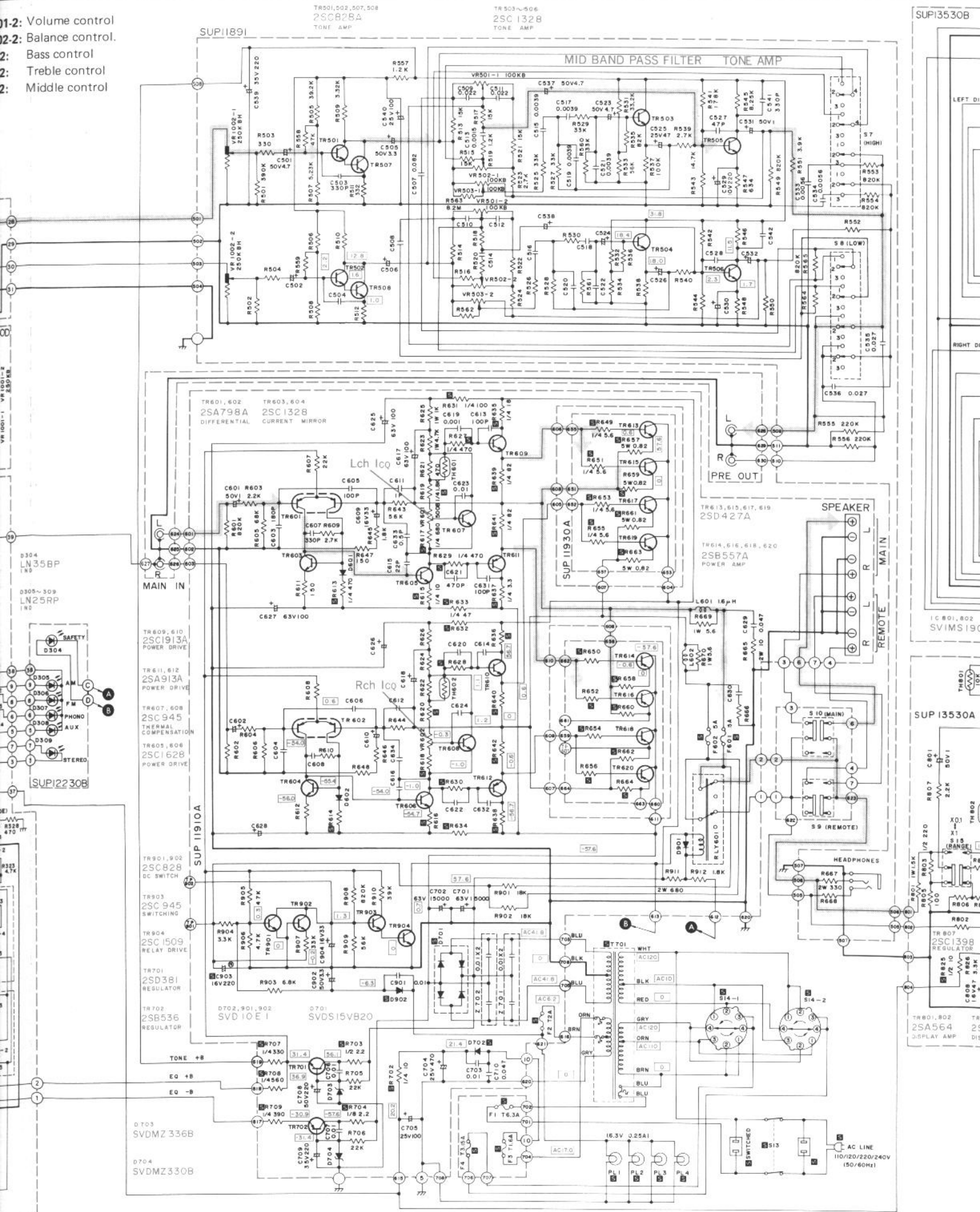
FM IF amplifier & detector circuitry

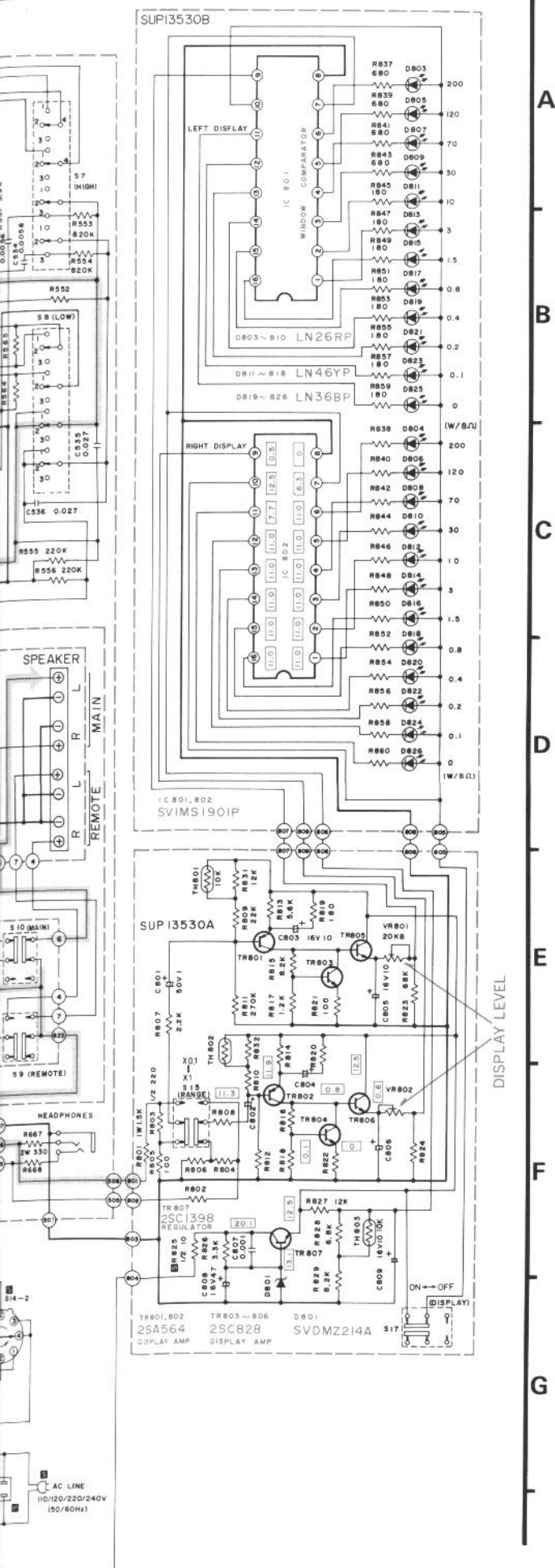


- VR1001-1, 1001-2: Volume
- VR1002-1, 1002-2: Balance
- VR501-1, 501-2: Bass
- VR502-1, 502-2: Treble
- VR503-1, 503-2: Middle



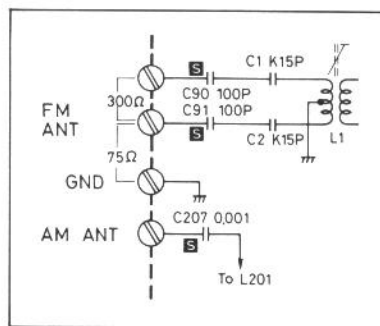
- 1: Volume control
- 2: Balance control.
- 2: Bass control
- 2: Treble control
- 2: Middle control





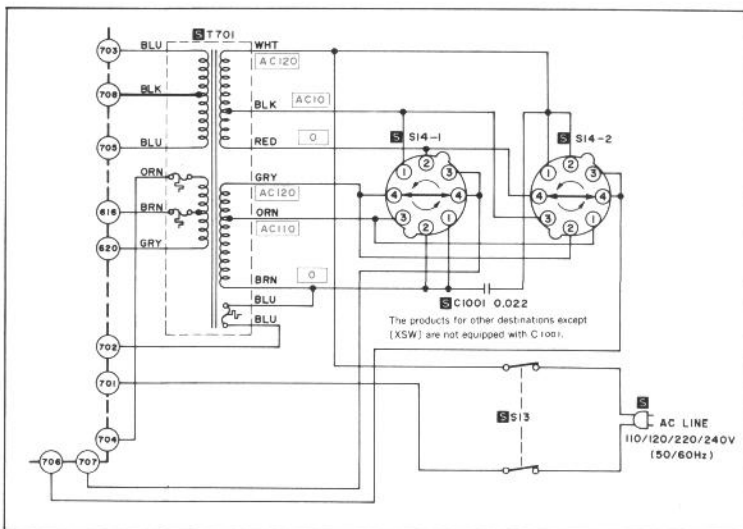
### ■ ANTENNA CAPACITORS

- Product for Australia [XAL] only.

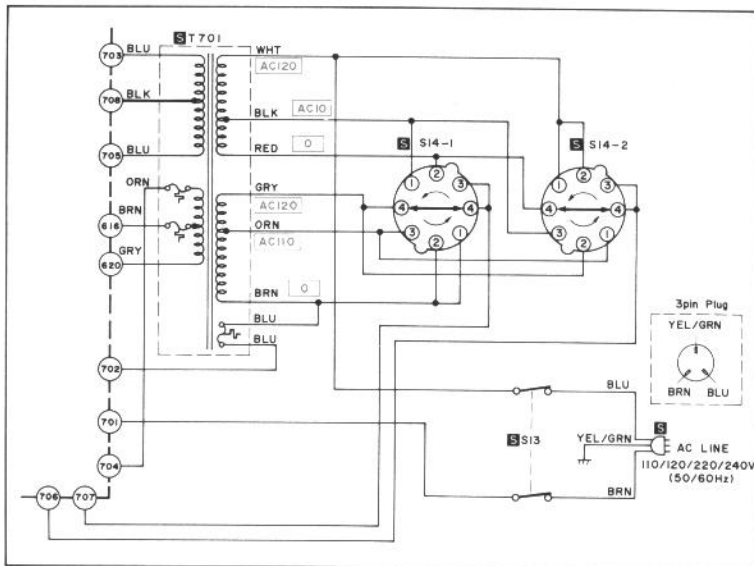


### ■ POWER SOURCE CIRCUITRY OF OTHER PRODUCTS

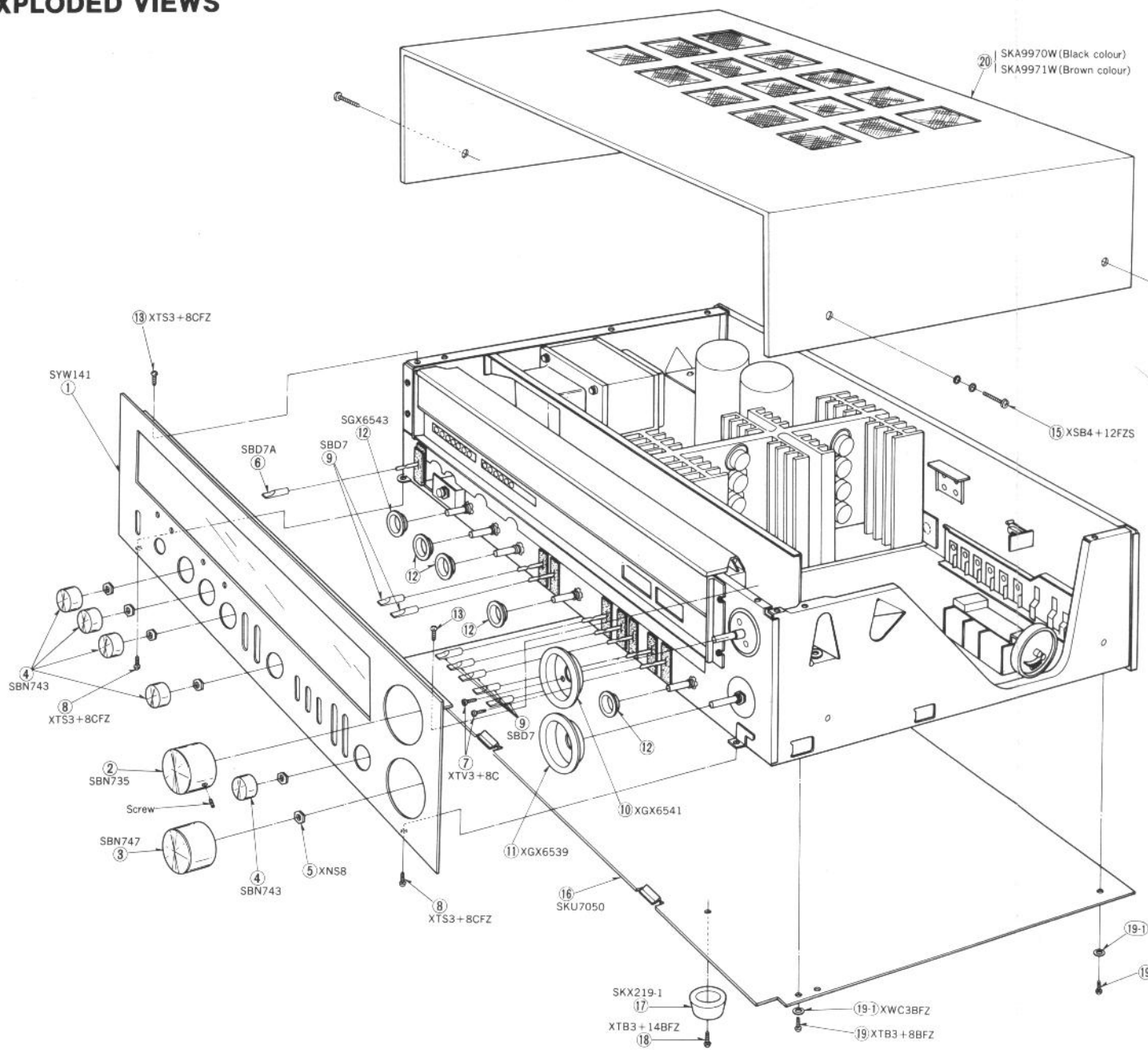
- Products for Scandinavia and European [D], Holland [XGH], France [XGF], Switzerland [XSW] and United Kingdom [XE] only.



- Product for Australia [XAL] only



EXPLODED VIEWS



REPLACEMENT PARTS LIST ..... Cabinet & chassis parts

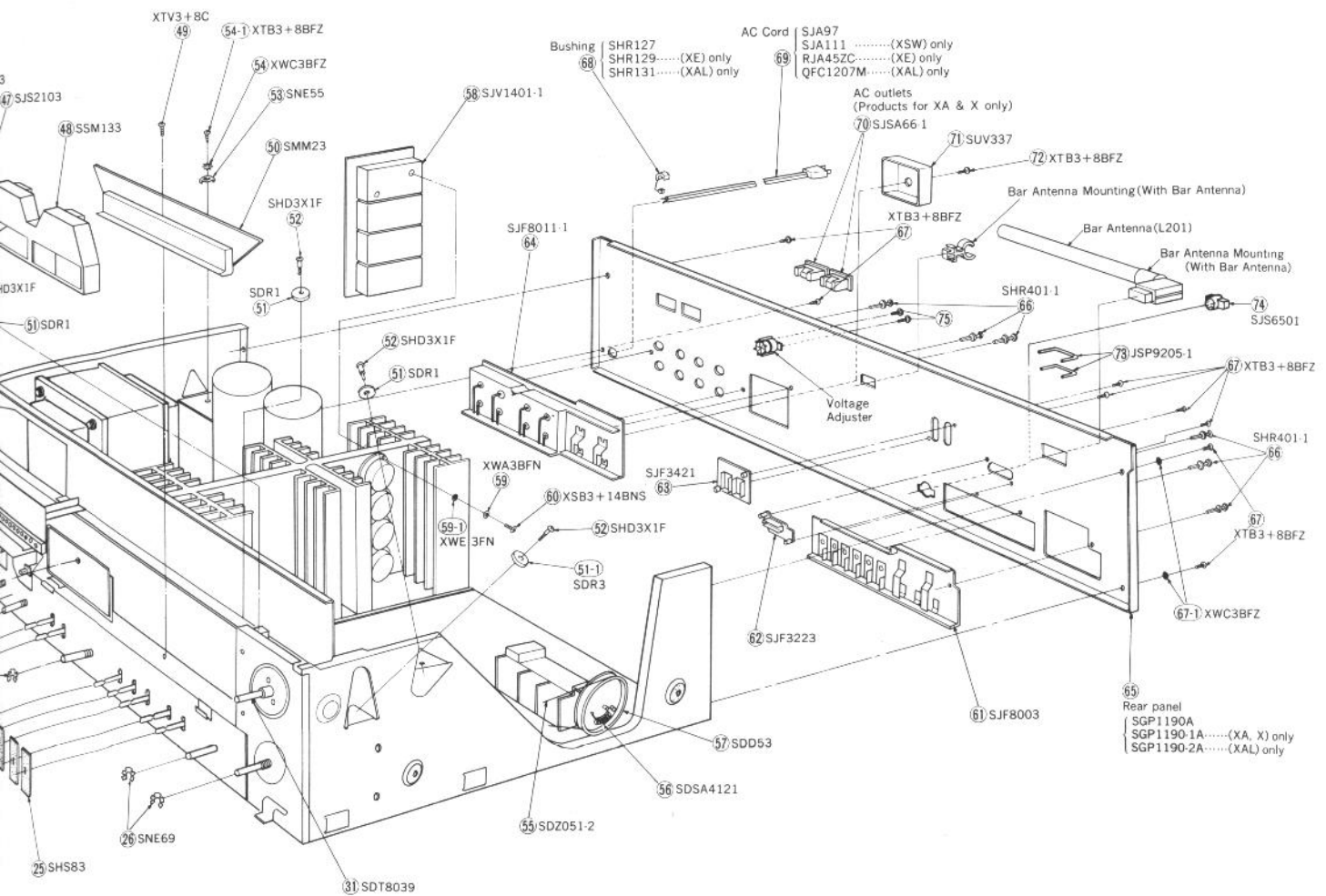
- NOTES 1: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.  
 2. [X] indicates that only parts specified by the manufacturer be used for safety.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
1	SYW141	Panel, Front	1	○
2	SBN735	Knob, Tuning	1	
3	SBN747	Knob, Volume	1	
4	SBN743	Knob, Selector, Balance, Treble, Mid Range and Bass	5	○
5	XNS8	Nut, Ornament M'tg	6	
6	SBD7A	Knob, Power Switch	1	○
7	XTV3+8C	Screw, Tuning Ornament M'tg	2	
8	XTS3+8CFZ	Screw, Front Panel M'tg	2	
8 [XAL]only	XTB3+8BFZ	Screw, Front Panel M'tg	2	
8-1 [XAL]only	XWC3BFZ	Washer	2	
9	SBD7	Knob, Lever Switch	7	○
10	SGX6541	Ornament, Tuning	1	
11	SGX6539	Ornament, Volume	1	
12	SGX6543	Ornament, Selector, Balance, Treble, Mid Range and Bass	5	
13	XTS3+8CFZ	Screw, Front Panel M'tg	2	
15	XSB4+12FZS	Screw, Cabinet M'tg	4	
15-1	XWA4BFZ	Washer, Cabinet Screw (Spring)	4	
15-2	XWG4FZ	Washer, Cabinet Screw	4	

Ref. No.	Part No.	Remarks
16	SKU7050	Bottom Foot, Se
17	SKX219-1	Screw, f
18	XTB3+14BFZ	Screw, f
19	XTB3+8BFZ	Screw, f
19-1	XWC3BFZ	Washer,
20	SKA9970W	Cabinet
20 (XE) only	SKA9971W	Cabinet
22	SGX6549	Sleeve, f
23	SUS123-1	Spring,
24	SBC189	Button,
25	SHS83	Shading
26	SNE69	Circlip,
27	SHR401-1	Lock Pi
28	XNSS12	Nut, He
29	SNE59-1	Washer,
30	XCJ6P21B-A	Jack, H
31	SD18039	Shaft, T
32	SKD3410	Scale, D
33	XTB3+8BFZ	Screw, f
33-1	XTB3+12BFZ	Screw, f
34	XTV3+8C	Screw, f
35	SGX6545	Escutch
36	SGX6547	Escutch







Description	Per Set	Remarks
Initial Memory	1	○
or Plate	1	* ○
ate M'tg	2	○
ate Screw	2	
	1	*
Bracket M'tg	8	
	4	*
ing	4	
et M'tg	1	
	1	*
	1	
	3	
	1	
	4	*
Board Screw	1	
Board M'tg	1	
(220cm)	1 roll	
	1	
	1	
istors	8	
istors Screw	16	
istors Screw	16	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
60	XSB3+14BNS	Screw, Power Transistors M'tg	16	
61	SJF8003	Terminal, Input and Antenna	1	
62	SJF3223	Terminal, 4CH Mpx Out and AM Stereo Out	1	
63	SJF3421	Terminal, Per Out and Main In	1	
64	SJF8011-1	Terminal, Speakers and Speaker Fuses	1	○
65 (XA, X) only	SGP1190-1A	Rear Panel	1	○
65 (XAL) only	SGP1190-2A	Rear Panel	1	○
65	SGP1190A	Rear Panel	1	○
66	SHR401-1	Lock Pin, Speakers Terminal and Input Terminal	6	
67	XTB3+8BFZ	Screw, Rear Panel M'tg	8	
67-1	XWC3BFZ	Washer	2	
68 (XAL) only	SHR131	Bushing, AC Cord	1	
68 (XE) only	SHR129	Bushing, AC Cord	1	
68	SHR127	Bushing, AC Cord	1	
69 (XAL)	QFC1207M	AC Cord, Power Source w/3 pin Plug	1	S
69 (XE)	RJA45ZC	AC Cord, Power Source	1	S
69 (XSW)	SJA111	AC Cord, Power Source w/Plug	1	S
69 (D, XGH, XGF, XA, X)	SJA97	AC Cord, Power Source w/Plug	1	S
70 (XA, X) only	SJSA66-1	Socket, AC Outlet	2	S
71	SUV337	Cover, Speaker Circuit Fuse	1	
72	XTB3+8BFZ	Screw, Fuse Cover M'tg	1	
73	SJP9205-1	Short Pin, Pre & Main Amp Connection	2	
74	SJS6501	Socket, DIN (Tape Deck REC/PLAY)	1	
75	XSB3+8FZS	Screw, Voltage Adjuster M'tg	2	