

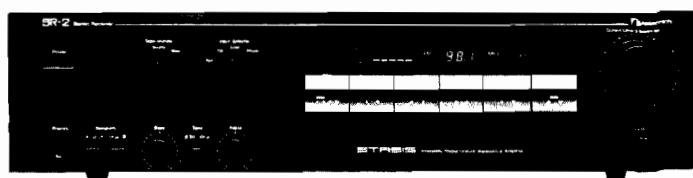


Service Manual

Nakamichi

SR-2 SR-2A SR-2E

Stereo Receiver



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1. GENERAL

1.1. Voltage Selector

Voltage selector is installed on the rear panel for Other version of the Nakamichi SR-2.

This voltage selector can select either 110 V, 120 V, 220 V or 240 V at customer's disposal.

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
01	FA03544A	Package Ass'y (SR-2 (Canada))	1	01	0B90070A	AM Loop Antenna Holder	1
	FA03546A	Package Ass'y (SR-2 (Australia))	1	02	0B90081A	Feeder Antenna	1
	FA03545A	Package Ass'y (SR-2 (Other))	1	03	0B90194A	Antenna Adapter F (SR-2 & SR-2A)	1
	FA03543A	Package Ass'y (SR-2A)	1		0B90208A	Antenna Adapter EP (SR-2E)	1
	FA03568A	Package Ass'y (SR-2E (Germany & Europe))	1	04	0B90198A	AM Loop Antenna	1
	OF03986A	Carton Box (SR-2)	1	—	0D03092B	Poly-Bag 320x340x0.08	1
	OF03985A	Carton Box (SR-2A)	1	—	0D04449A	Important Notice Card	1
	OF03989B	Carton Box (SR-2E)	1	—	0D04651B	Owner's Manual SR-4/3/2 & SR-4A/3A/2A	1
	OF03984B	Packing L	1	—	0D04764B	Owner's Manual SR-4E/3E/2E	1
	OF03991A	Packing R	1	—	0D04673B	French Text (SR-4/3/2 (Canada))	1
02	OF03984B	Packing L	1	—	0D04674B	Owner's Manual Text (SR-4/3/2 (Australia))	1
03	OF03991A	Packing R	1	—	0D04675B	Owner's Manual Text (SR-4/3/2 (Other))	1
04	OF03670A	Poly-Sheet	1	—	DA03873A	Warranty Card Ass'y (SR-2A)	1
—	OM03456A	Voltage Seal 220V (SR-2 (Other))	2	—	0D04766A	Catalogue (SR-2A)	1
—	OM03457A	Voltage Seal 240V (SR-2 (Australia))	2	—	0D04767A	Warranty Card (SR-2 (Canada))	1
	DA03991A	Accessory Ass'y (SR-2 (Canada))	1				
	DA03992A	Accessory Ass'y (SR-2 (Australia))	1				
	DA04009A	Accessory Ass'y (SR-2 (Other))	1				
	DA03990A	Accessory Ass'y (SR-2A)	1				
	DA03996A	Accessory Ass'y (SR-2E (Europe))	1				
	DA04055A	Accessory Ass'y (SR-2E (Germany))	1				

1.2. Package Ass'y and Parts List

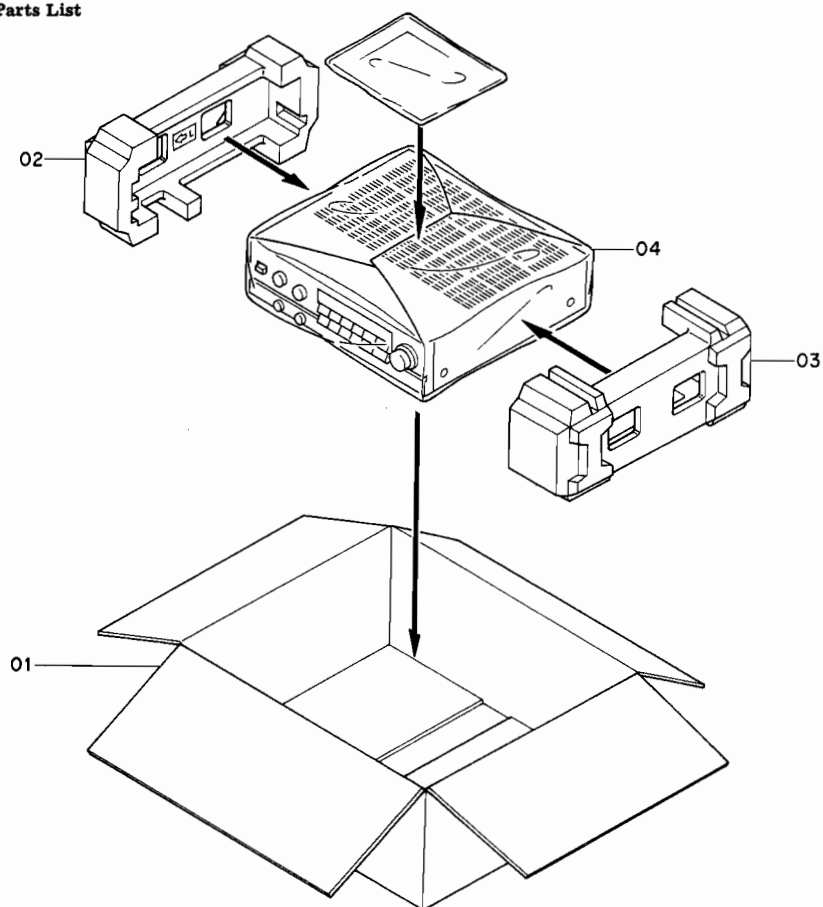


Fig. 1.1

1.3. Accessory Ass'y and Parts List

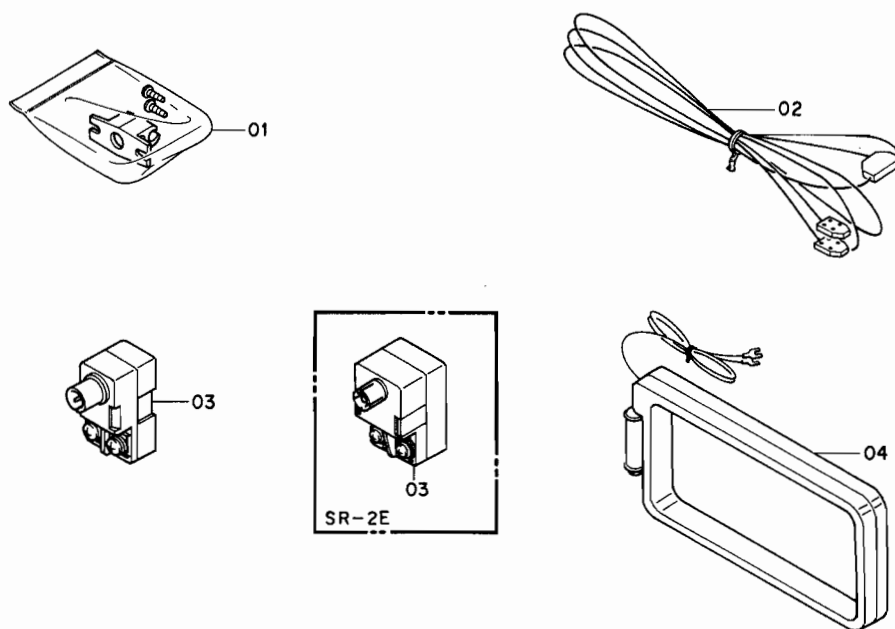


Fig. 1.2

2. PARTS LOCATION FOR ELECTRICAL ADJUSTMENT

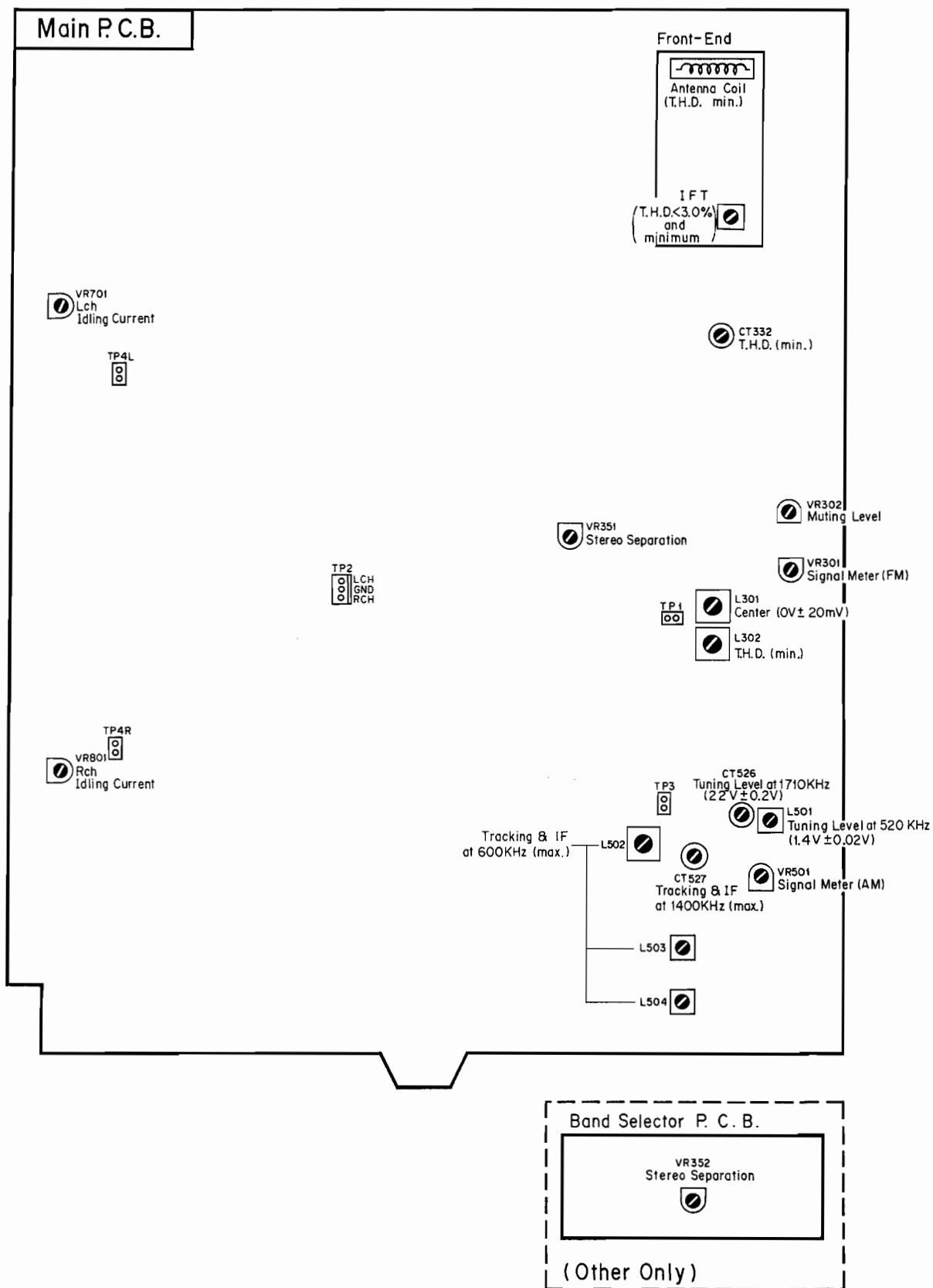


Fig. 2

3. ELECTRICAL ADJUSTMENTS

3.1. Power Amplifier Section

STEP	ITEM	SIGNAL SOURCE	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Idling Current	None	DC Voltmeter between TP4L-1 & 2 and TP4R-1 & 2 on Main P.C.B.	Input Selector - CD Output Level - Min. Speaker Selector A/B - OFF	Main P.C.B. VR701 VR801	1. Insert shorting plugs into the CD Player Input Jacks. 2. Turn ON the power and allow 3 minutes before adjusting. (Top Cover must be installed in this period of time.) 3. Adjust VR701 (VR801) to obtain 20 mV \pm 1 mV on the DC voltmeter.

3.2. Tuner Section

Note: Adjustment should be made in a shielded room in principle.

3.2.1. FM Tuner Section

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Preliminary Step	See Fig. 3.1	Stereo Receiver Input Selector - Tuner Band Selector - FM Tape Monitor - Source Signal Generator Freq. - 98 MHz RF Level - 65 dBf Modulation - See REMARKS		1. Set the Stereo Receiver as indicated in the MODE. 2. Adjustment and confirmation should be made after tuning in to the set carrier frequency of the Signal Generator. Note: Contents of modulation 1. For U.S.A., Canada & Other (Wide) o Stereo Audio: 1 kHz, 91% Pilot: 19 kHz, 9% o Mono Audio: 1 kHz, 100% 2. For Europe, Germany, Australia & Other (Narrow) o Stereo Audio: 1 kHz, 51% Pilot: 19 kHz, 9% o Mono Audio: 1 kHz, 60%
2	Usable Sensitivity Adjustment	Distortion Meter to Tape Record Output Jacks	Stereo Receiver Same as above Signal Generator Freq. - 98 MHz RF Level - 12.5 dBf Modulation - Mono	Main P.C.B. Front-end IFT Antenna Coil (See Fig. 2)	1. Set the Stereo Receiver to Manual mode by pressing the Tuning Mode button. 2. Adjust the IFT to obtain minimum distortion (total harmonic distortion (THD): 3% or less). 3. Adjust the distance between windings of antenna coil to obtain minimum distortion. 4. Set the frequency of the Signal Generator to 90 MHz/106 MHz and check that the THD is 3% or less.

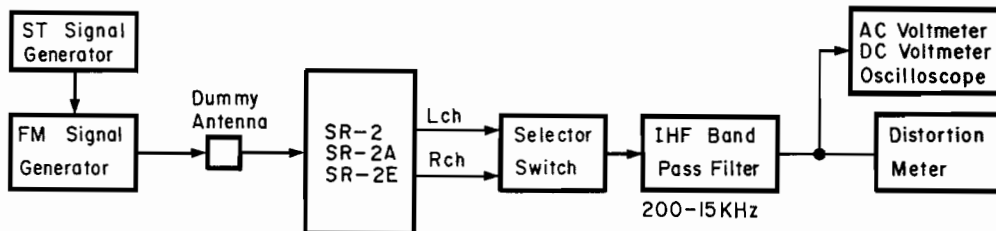


Fig. 3.1

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
3	Center Voltage and THD Adjustment	DC Voltmeter between TP1-1 & TP1-2 on Main P.C.B. and Distortion Meter to Tape Record Jacks	Stereo Receiver Same as above Signal Generator Freq. - 98 MHz RF Level - 65 dBf Modulation - Mono	Main P.C.B. L301 L302	1. Set the Stereo Receiver to Manual mode. 2. Adjust L301 so that the reading on the DC voltmeter is 0 V \pm 20 mV. 3. Adjust L302 to obtain minimum distortion (THD: 0.07% or less). Repeat 2 and 3, if necessary.
4	Muting Level Adjustment	Oscilloscope to Tape Record Output Jacks	Stereo Receiver Same as above Signal Generator Freq. - 98 MHz RF Level - 30 dBf Modulation - Stereo	Main P.C.B. VR302	1. Set the Stereo Receiver to Auto mode. 2. Rotate VR302 fully counterclockwise. Then, return it clockwise gradually until a waveform appears on the oscilloscope. 3. Decrease the RF level of the Signal Generator until the waveform on the oscilloscope disappears. Then increase the RF level gradually until a waveform appears again. At this point, check that the RF level of the Signal Generator is 30 dBf \pm 3 dB.
5	Signal Strength Meter Level Adjustment	None	Stereo Receiver Same as above Signal Generator Freq. - 98 MHz RF Level - 56 dBf Modulation - Stereo	Main P.C.B. VR301	1. Set the Stereo Receiver to Auto mode. 2. Adjust VR301 so that all segments (1-5) of the signal strength meter light up. 3. Decrease the RF level of the Signal Generator to distinguish the segment 5. Next, increase the RF level gradually so that the segment 5 starts illuminating. At this point, check that the RF level of the Signal Generator is 56 dBf \pm 2 dB.
6	Stereo Separation Adjustment	AC Voltmeter to Tape Record Output Jacks	Stereo Receiver Same as above Signal Generator Freq. - 98 MHz RF Level - 65 dBf Modulation - L or R only	Main P.C.B. VR351 Band Selector P.C.B. VR352 (Other only)	Except for Other version: 1. Set the Stereo Receiver to Auto mode. 2. Apply modulation to only L channel. 3. Adjust VR351 to obtain minimum reading on the AC voltmeter at the R channel output jack. 4. Apply modulation to only R channel. 5. Check that the reading on the AC voltmeter at the L channel output jack is within \pm 1 dB with respect to the reading in 3. If not, repeat 2 through 4. For Other version: 1. Set the switches on the rear panel as follows: Freq. Step FM/AM - 100 kHz/10 kHz IF Band - Wide 2. Apply the same procedures as above. 3. Set the switches as follows: Freq. Step FM/AM - 50 kHz/9 kHz IF Band - Narrow 4. Apply the same procedures as mentioned above, except for VR352.

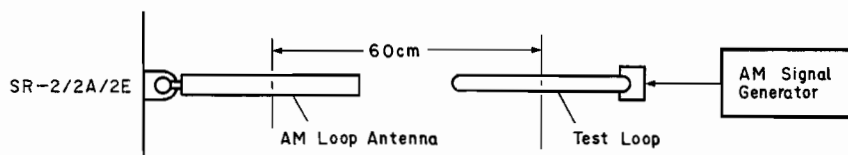


Fig. 3.2

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
7	Stereo/Mono Selection Check and THD Adjustment		<p>Stereo Receiver Same as above</p> <p>Signal Generator Freq. - 98 MHz RF Level - 65 dBf Modulation - Stereo/ Mono</p>	Main P.C.B. CT332	<p>1. Set the Stereo Generator to L=-R mode.</p> <p>2. Set the Stereo Receiver to Manual mode and check that the Stereo indicator goes out and stereo outputs disappear.</p> <p>3. Set the Stereo Receiver to Auto mode and adjust CT332 to obtain minimum distortion (THD: 0.09% or less).</p>

3 2.2. AM Tuner Section

Note: Frequencies for Europe, Germany, Australia and Other (Narrow) are indicated in parentheses.

STEP	ITEM	OUTPUT CONNECTION	MODE	ADJUSTMENT	REMARKS
1	Tuning Level Adjustment	DC Voltmeter between TP3-1 and TP3-2 on Main P.C.B.	<p>Stereo Receiver Input Selector - Tuner Band Selector - AM Tape Monitor - Source</p> <p>Signal Generator Freq. - 520 (522) kHz/ 1710 (1611) kHz</p>	Main P.C.B. L501 CT526	<p>1. Set the frequency of the Signal Generator to 520 kHz (522 kHz) and make tuning.</p> <p>2. Adjust L501 to obtain 1.4 V \pm 0.02 V on the DC voltmeter.</p> <p>3. Change the frequency to 1710 kHz (1611 kHz) and make tuning.</p> <p>4. Adjust CT526 to obtain 22 V \pm 0.2 V on the DC voltmeter.</p> <p>5. If satisfactory results are not obtained, repeat 1 through 4.</p>
2	Tracking and IF Adjustment	AC Voltmeter to Tape Record Output Jacks	<p>Stereo Generator Same as above</p> <p>Signal Generator Freq. - 600 (603) kHz/ 1400 (1404) kHz RF Level - 82 dBμ/m Modulation - 400 Hz 30%</p>	Main P.C.B. L502 L503 L504 CT527	<p>1. Set the measurement instruments as shown in Fig. 3.2. Set the distance between the AM Loop Antenna of the SR-2/2A/2E and a test loop to 60 cm. To obtain 56 dBμ/m at the AM Loop Antenna, set the RF level output of the AM Signal Generator to 82 dBμ/m as loss is 26 dBμ/m in this setting.</p> <p>2. Set the frequency of the Signal Generator to 600 kHz (603 kHz) and make tuning.</p> <p>3. Adjust L502 to obtain maximum reading on the AC voltmeter.</p> <p>4. Adjust L503 to obtain maximum reading on the AC voltmeter.</p> <p>5. Adjust L504 to obtain maximum reading on the AC voltmeter.</p> <p>6. Set the frequency to 1400 kHz (1404 kHz) and make tuning.</p> <p>7. Adjust CT527 to obtain maximum reading on the AC voltmeter.</p> <p>8. Repeat 2 through 7 once.</p>
3	Signal Strength Meter Level Adjustment	None	<p>Stereo Generator Same as above</p> <p>Signal Generator Freq. - 1000 (999) kHz RF Level - 106 dBμ/m</p>	Main P.C.B. VR501	<p>1. With the same setting as in Step 2, set the RF level output of the AM Signal Generator to 106 dBμ/m in order to obtain 80 dBμ/m at the AM Loop Antenna.</p> <p>2. Adjust VR501 so that the segment 5 of the signal strength meter starts illuminating.</p> <p>Note: Before adjustment, select AM mode and wait for more than three minutes.</p>

4. MECHANISM ASS'Y AND PARTS LIST

4.1. Synthesis

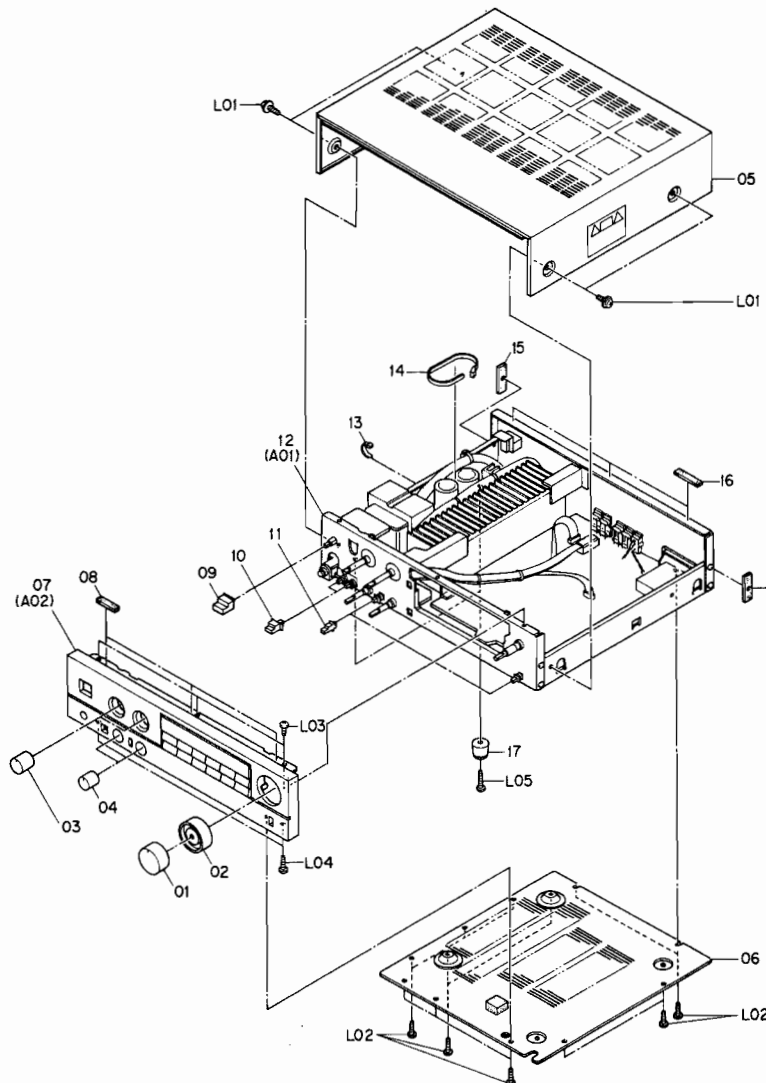


Fig. 4.1

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
		Synthesis Serial No.: D10401001 -			HA05097A	Front Panel Ass'y (SR-2A)	1
					HA05096A	Front Panel Ass'y (SR-2E (Europe & Germany))	1
01	HA05103A	Volume Knob Ass'y	1	08	0J05364A	Top Cover Cushion T4	3
02	HA05104A	Balance Knob Ass'y	1	09	0H04947A	Power Switch Knob	1
03	HA05105A	Selector Knob Ass'y	2	10	0H04950B	Push Switch Knob 10L	2
04	HA05106A	Tone Control Knob Ass'y	2	11	0H04949B	Push Switch Knob 5L	2
05	HA05148A	Top Cover Ass'y (SR-2 (Canada & Australia), SR-2A & SR-2E (Europe & Germany))	1	12	JA04234A	Chassis Ass'y (SR-2 (Canada))	1
	HA05179A	Top Cover Ass'y (SR-2 (Other)) (Consisting of the followings:)	1		JA04236A	Chassis Ass'y (SR-2 (Australia))	1
	(0H04934C)	Top Cover	(1)		JA04235A	Chassis Ass'y (SR-2 (Other))	1
	(0M04377B)	Caution Label	(1)		JA04238A	Chassis Ass'y (SR-2A)	1
	(0J05261A)	Top Cover Cushion S	(3)		JA04237A	Chassis Ass'y (SR-2E (Europe))	1
	(0M04811A)	Voltage Caution Sheet (SR-2 (Other))	(1)	13	JA04287A	Chassis Ass'y (SR-2E (Germany))	1
	(0M04812A)	Voltage Caution Label (SR-2 (Other))	(1)	14	0B90019A	Insu-Lock SKB80	25
06	JA04245A	Bottom Cover Ass'y (Consisting of the followings:)	1	15	0B08515A	Insu-Lock BK-1	5
	(0J05203C)	Bottom Cover	(1)	16	0J05226A	Side Cushion	2
	(0J05162A)	Leg T-S	(2)	17	0J05363A	Top Cover Cushion T3	3
	(0M04377B)	Caution Label	(1)	L01	0J05162A	Leg T-S	2
	(0E00888A)	BT3x12 @ Binding	(2)	L02	0E03032A	BT4x8 @ Pan Washer-faced (Black Chromate)	4
	(0J05214A)	P.C.B. Cushion	(1)	L03	0E00868A	BT3x8 @ Binding	12
07	HA05094A	Front Panel Ass'y (SR-2 (Canada))	1	L04	0E00857A	BT3x6 @ Binding	3
	HA05095A	Front Panel Ass'y (SR-2 (Australia & Other))	1	L05	0E00921A	BT3x8 @ Binding (Black Chromate)	2
					0E00888A	BT3x12 @ Binding	2

Schematic Ref. No.	Part No.	Description	Qty
A01	JA04234A	Chassis Ass'y (SR-2 (Canada))	1
	JA04236A	Chassis Ass'y (SR-2 (Australia))	1
	JA04235A	Chassis Ass'y (SR-2 (Other))	1
	JA04238A	Chassis Ass'y (SR-2A)	1
	JA04237A	Chassis Ass'y (SR-2E (Europe))	1
	JA04287A	Chassis Ass'y (SR-2E (Germany))	1
	Serial No.: D10401001 -		
01	OJ05092A	Snap Plate	1
02	OJ05258B	Selector Knob Himelton	2
03	OJ05200C	Front Chassis	1
04	BA06250A	Power Switch P.C.B. Ass'y (SR-2 (Canada) & SR-2A)	1
	BA06252A	Power Switch P.C.B. Ass'y (SR-2 (Australia & Other))	1
	BA06251A	Power Switch P.C.B. Ass'y (SR-2E (Europe))	1
	BA06821A	Power Switch P.C.B. Ass'y (SR-2E (Germany))	1
05	BA06253A	Speaker Switch P.C.B. Ass'y	1
06	BA06256A	Monitor Switch P.C.B. Ass'y	1
07	OB70080A	Rotary Switch Controller 4-4	1
08	BA06244A	Tone Control P.C.B. Ass'y (SR-2, SR-2A & SR-2E (Europe))	1
	BA06817A	Tone Control P.C.B. Ass'y (SR-2E (Germany))	1
09	BA06243A	Volume P.C.B. Ass'y	1
10	BA06290A	Loudness Switch P.C.B. Ass'y	1
11	OJ05201C	Power Supply Chassis	1
12	OB50072A	Power Transformer (SR-2 (Canada) & SR-2A)	1
	OB50073A	Power Transformer (SR-2 (Australia) & SR-2E (Europe))	1
	OB50074A	Power Transformer (SR-2 (Other))	1
	OB50092A	Power Transformer (SR-2E (Germany))	1
13	BA06246A	Power Supply P.C.B. Ass'y (SR-2 (Canada & Other) & SR-2A)	1
	BA06247A	Power Supply P.C.B. Ass'y (SR-2 (Australia) & SR-2E (Europe))	1
	BA06820A	Power Supply P.C.B. Ass'y (SR-2E (Germany))	1
14	OJ05019A	Collar Bushing 10mm	2
15	OJ05208A	Collar Bushing 15mm	2
16	OB90210A	Insu-Lock T30MR-HS	4
17	OJ05206A	Heat Sink Holder B	1
18	OJ05227A	Heat Sink Holder D	1
19	BA06234A	Main P.C.B. Ass'y (SR-2 (Canada) & SR-2A)	1
	BA06309A	Main P.C.B. Ass'y (SR-2 (Australia))	1
	BA06236A	Main P.C.B. Ass'y (SR-2 (Other))	1
	BA06235A	Main P.C.B. Ass'y (SR-2E (Europe))	1
	BA06814A	Main P.C.B. Ass'y (SR-2E (Germany))	1
20	BA06283A	Speaker Terminal P.C.B. Ass'y (SR-2, SR-2A & SR-2E (Europe))	1
	BA06822A	Speaker Terminal P.C.B. Ass'y (SR-2E (Germany))	1
21	OB82759A	PD Connector (BLK) (SR-2 (Canada & Other) & SR-2A)	1
22	OB82758A	PD Connector (BRN) (SR-2 (Canada & Other) & SR-2A)	1
23	OB60388A	AC Outlet P.C.B. (SR-2 (Canada & Other) & SR-2A)	1
24	OJ05224A	Insulator (SR-2 (Canada))	1
25	HA05083A	Rear Panel Ass'y (SR-2 (Canada))	1
	HA05085A	Rear Panel Ass'y (SR-2 (Australia))	1
	HA05084A	Rear Panel Ass'y (SR-2 (Other))	1
	HA05087A	Rear Panel Ass'y (SR-2A)	1
	HA05086A	Rear Panel Ass'y (SR-2E (Europe & Germany))	1
26	OJ05202C	Side Chassis	1
27	BA06308A	Band Selector P.C.B. Ass'y (SR-2 (Other))	1
28	OB81738A	Ground Wire (SR-2E (Germany))	1
L01	OE00612A	M3x6 @ Pan (2A)	6
L02	OE00868A	BT3x8 @ Binding	18
L03	—	Nut M9	(1)
L04	—	Washer	(1)
L05	—	Nut M7	(4)
L06	—	Washer	(4)
L07	OE03217A	BT4x8 @ Binding	4
L08	OE03157A	BT3x8 @ Binding with Washer	5
L09	OE03071A	BT3x25 @ Binding	2
L10	OE00888A	BT3x12 @ Binding	1
L11	OE00921A	BT3x8 @ Binding (Black Chromate)	11

4.2. Chassis Ass'y (A01)

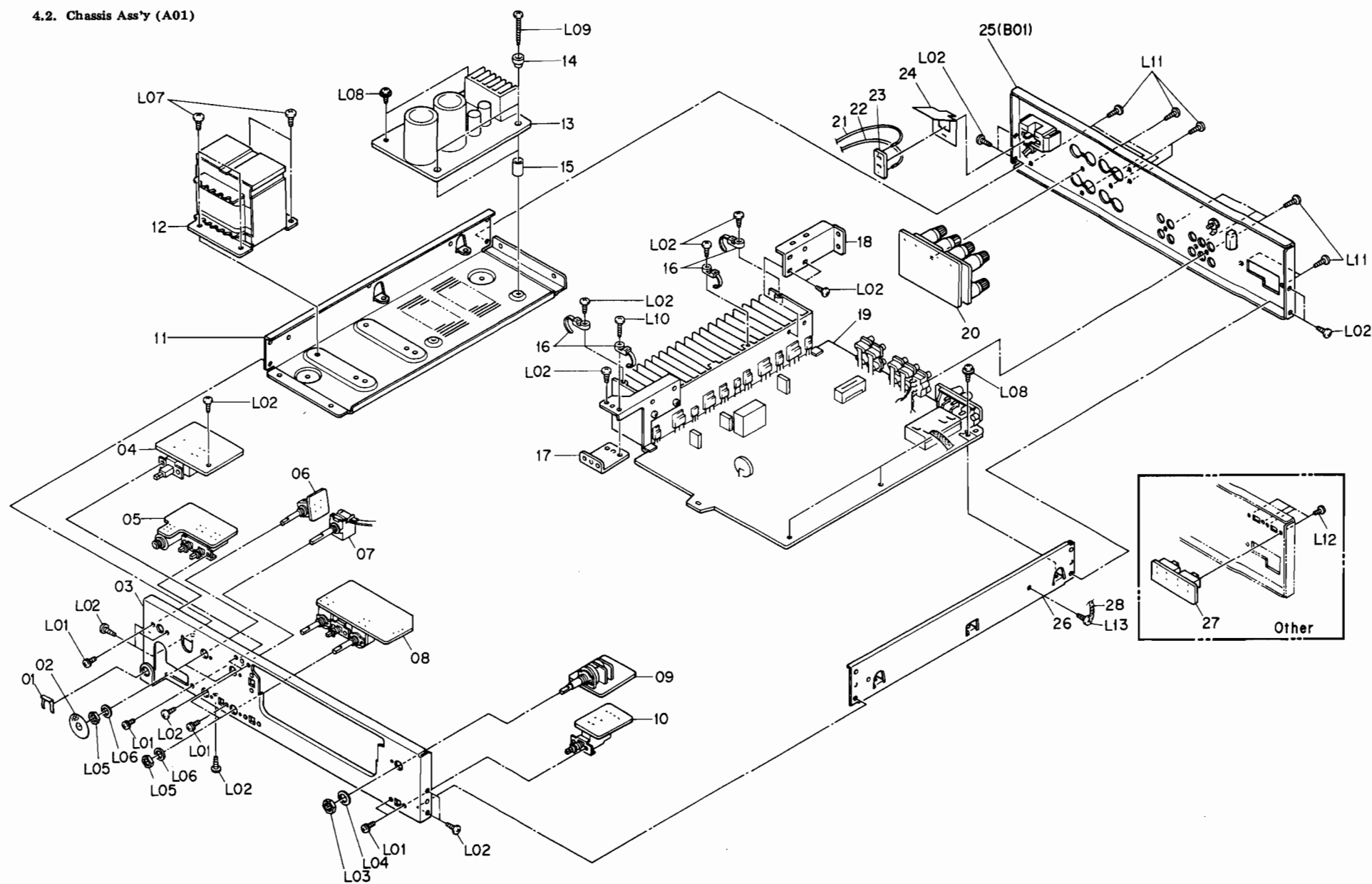


Fig. 4.2

Schematic Ref. No.	Part No.	Description	Qty
L12	OE00945A	M2.6x4 @ Binding (Black Chromate) (SR-2 (Other))	4
L13	OE03321A	ST3x6 @ Binding (SR-2E (Germany))	1

4.3. Front Panel Ass'y (A02)

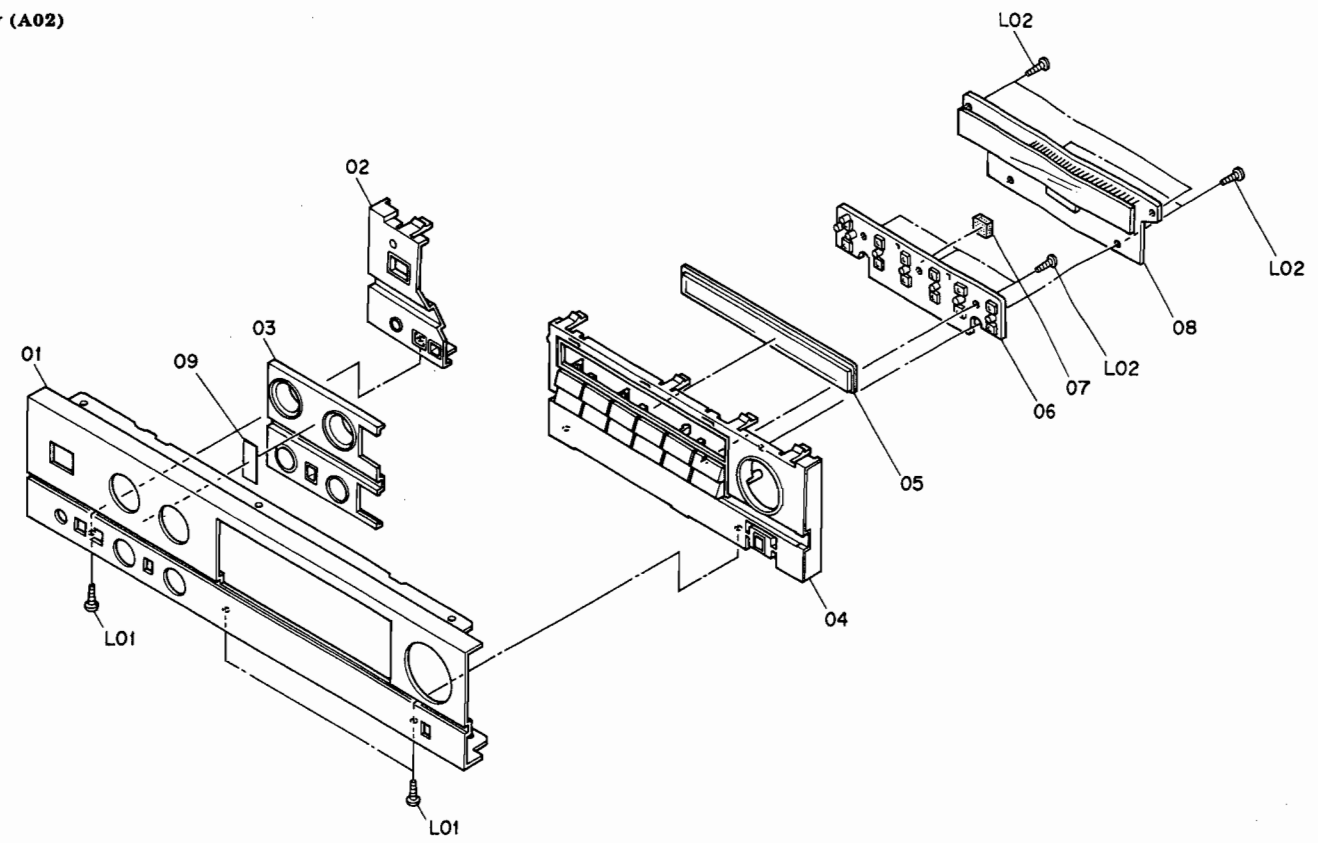


Fig. 4.3

4.4. Rear Panel Ass'y (B01)

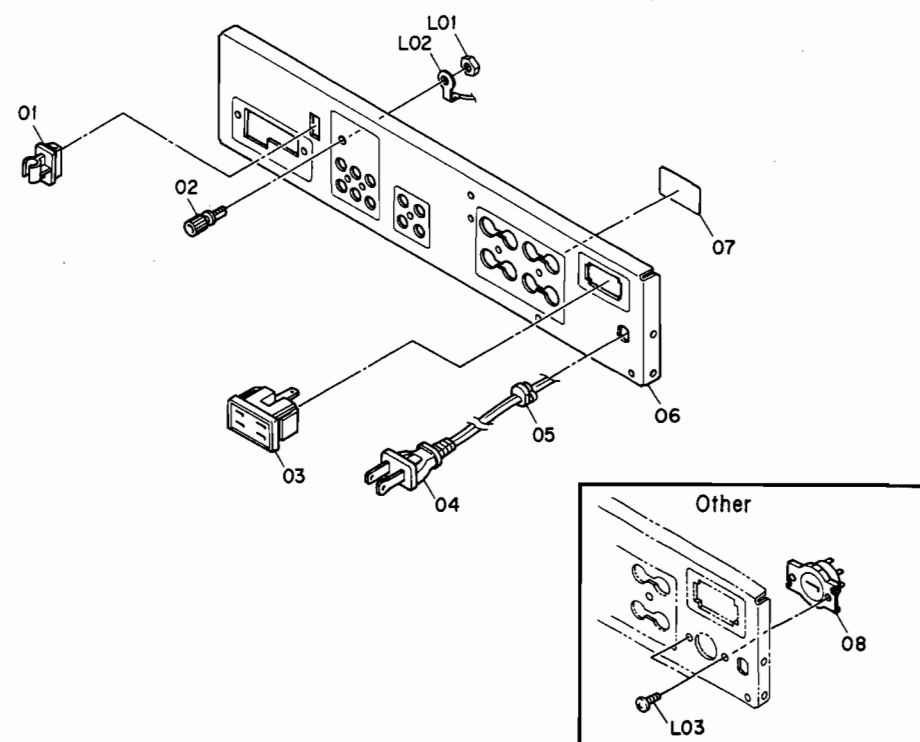


Fig. 4.4

Schematic Ref. No.	Part No.	Description	Qty
A02	HA05094A	Front Panel Ass'y (SR-2 (Canada))	1
	HA05095A	Front Panel Ass'y (SR-2 (Australia & Other))	1
	HA05097A	Front Panel Ass'y (SR-2A)	1
	HA05096A	Front Panel Ass'y (SR-2E (Europe & Germany))	1
	Serial No.: D10401001 -		
01	OH04921B	Front Panel (SR-2)	1
	OH04920B	Front Panel (SR-2A)	1
02	OH04922A	Front Panel (SR-2E)	1
	OH04935C	Front Escutcheon L	1
03	OH05010A	Front Escutcheon C	1
04	HA05102B	Front Escutcheon R Ass'y	1
05	OH04938A	Display Lens	1
06	BA06242A	Control Switch P.C.B. Ass'y	1
07	OJ05262A	Indicator Cushion	1
08	BA06240A	Display P.C.B. Ass'y (SR-2 (Canada) & SR-2A)	1
	BA06241A	Display P.C.B. Ass'y (SR-2 (Australia & Other) & SR-2E (Europe & Germany))	1
L01	0E00921A	BT3x8 @ Binding (Black Chromate)	3
L02	0E00868A	BT3x8 @ Binding	7
B01	HA05083A	Rear Panel Ass'y (SR-2 (Canada))	1
	HA05085A	Rear Panel Ass'y (SR-2 (Australia))	1
	HA05084A	Rear Panel Ass'y (SR-2 (Other))	1
	HA05087A	Rear Panel Ass'y (SR-2A)	1
	HA05086A	Rear Panel Ass'y (SR-2E (Europe & Germany))	1
Serial No.: D10401001 -			
01	OB90071A	AM Loop Antenna Holder	1
	OB81604A	Ground Terminal T-5435	1
02	OB81597A	AC Outlet 2P (SR-2 (Canada & Other) & SR-2A)	1
04	OB90205A	Power Cord (SR-2 (Canada & Other) & SR-2A)	1
	OB05241A	Power Cord (SR-2 (Australia))	1
	OB08093U	Power Cord (SR-2E (Europe & Germany))	1
05	OB08351A	Cord Bushing 4K-4 (SR-2 (Canada & Other) & SR-2A)	1
	OB08037U	Cord Bushing C (SR-2 (Australia & SR-2E (Europe & Germany))	1
06	OH04927B	Rear Panel (SR-2 (Canada))	1
	OH04964B	Rear Panel (SR-2 (Australia))	1
	OH04929B	Rear Panel (SR-2 (Other))	1
	OH04926B	Rear Panel (SR-2A)	1
	OH04928A	Rear Panel (SR-2E (Europe & Germany))	1
07	OM04380A	Barrier Caution Label (SR-2 (Canada) & SR-2A)	1
08	OB70049A	Voltage Selector (SR-2 (Other))	1
L01	—	Nut (Ground Terminal)	(1)
L02	—	Earth Lug (Ground Terminal)	(1)
L03	OE00985A	M3x6 @ Binding (Black Chromate) (SR-2 (Other))	2

5. MOUNTING DIAGRAMS AND PARTS LIST

- Notes: 1. Mounting diagram shows a dip side view of the printed circuit board.
 2. Diode is 1SS53, 1S1555, or 1SS176 unless otherwise specified.
 3. Following transistors are interchangeable with each other.
 a. 2SA733, 2SA608SP, 2SA1048, 2SA1175
 b. 2SC945, 2SC536SP, 2SC2458, 2SC2785
 4. Abbreviation for part name:
 TR — Transistor, SiD — Silicon Diode, ZD — Zener Diode, Varicap — Variable Capacitance Diode
 RK — Carbon Resistor, RM — Metal Film Resistor, RF — Fail Safe Type Resistor, RC — Cement Resistor
 CE — Electrolytic Capacitor, CM — Mylar Capacitor, CC — Ceramic Capacitor, CP — PP Capacitor,
 CMM — Metalized Mylar Capacitor, CSP — Polystyrene Capacitor, C — Mica Capacitor

5.1. Power Switch P.C.B. Ass'y

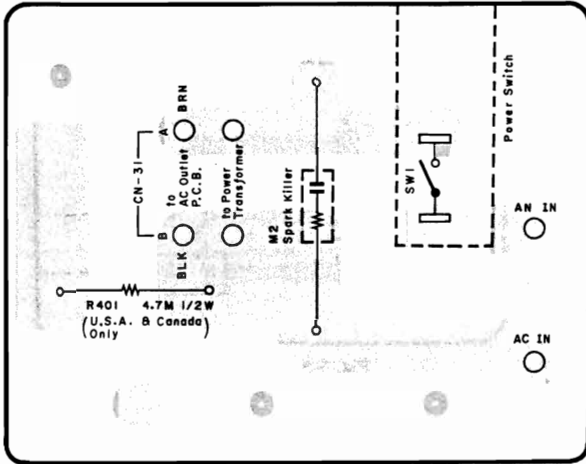


Fig. 5.1

5.2. AC Outlet P.C.B. Ass'y

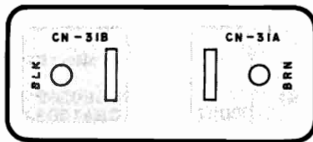


Fig. 5.2

5.3 Band Selector P.C.B. Ass'y

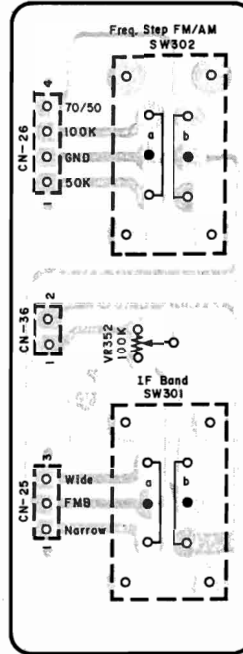


Fig. 5.3.1 2nd Version

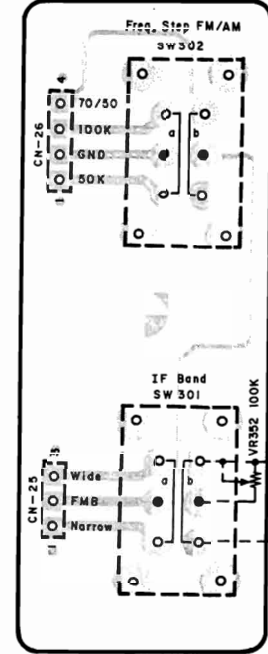


Fig. 5.3.2 1st Version

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
R401	BA06250A	Power Switch P.C.B. Ass'y (SR-2 (Canada) & SR-2A)	CN31A CN31B	0E00752A	Eyelet 2x3 (2)
	BA06252A	Power Switch P.C.B. Ass'y (SR-2 (Australia & Other))		0E00147A	Earth Lug B-6 (SR-2 (Canada) & SR-2A) (1)
	BA06251A	Power Switch P.C.B. Ass'y (SR-2E (Europe))		BA06255A	AC Outlet P.C.B. Ass'y (SR-2 (Canada & Other) & SR-2A)
	BA06821A	Power Switch P.C.B. Ass'y (SR-2E (Germany))		0B60388A	AC Outlet P.C.B.
	0B60387B	Power Switch P.C.B. RK 4.7M 1/2W J (SR-2 (Canada) & SR-2A)		0B82758A	PD Connector V450
SW1 M2	0B20057A	Power Switch P.C.B. Ass'y (SR-2E (Germany))	VR352 SW301,302 CN25 CN26 CN36	0B82759A	PD Connector V450
	0B71006A	Power Switch (Canada) & SR-2A)		BA06308A	Band Selector P.C.B. Ass'y (SR-2 (Other))
	0B08342A	Spark Killer (SR-2 (Australia & Other))		0B60378B	Band Selector P.C.B. Semi VR 100K
	0B08240A	Spark Killer XE-333 (SR-2E (Europe & Germany))		0B32099A	Slide Switch 22S
	0B90264A	Spark Killer XE-333 (SR-2E (Europe & Germany))		0B70039A	3P Connector 160
				0B82804A	4P Connector 200
				0B82805A	2P Connector S200
				0B82905A	

5.4. Volume P.C.B. Ass'y

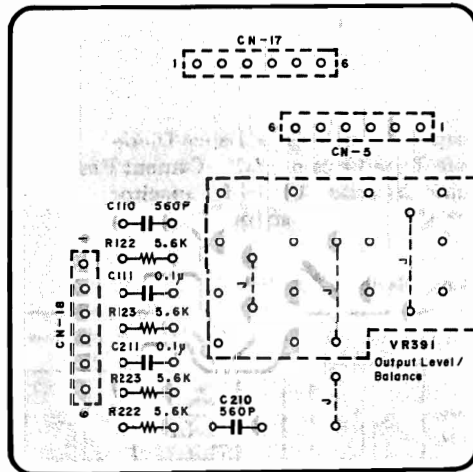


Fig. 5.4

5.5. Loudness Switch P.C.B. Ass'y

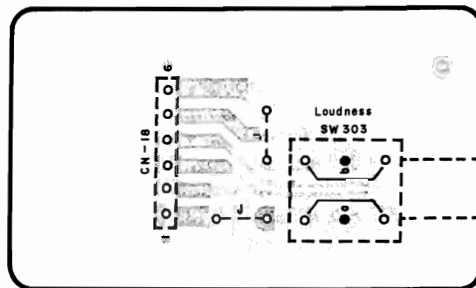


Fig. 5.5.1 2nd Version

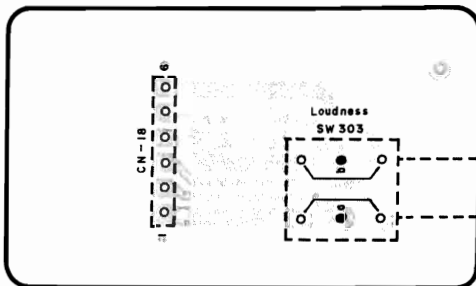


Fig. 5.5.2 1st Version

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
VR391 R122,123 222,223 C110,210 C111,211 CN5,17 18	BA06243A	Volume P.C.B. Ass'y		BA06244A	Tone Control P.C.B. Ass'y (SR-2, SR-2A & SR-2E (Europe))	C113,119 213,219 C114,214 C115,215 C116,216 SW304	OB09816A	CE 10μ 16V (LN)
	OB60383B	Volume P.C.B.		BA06817A	Tone Control P.C.B. Ass'y (SR-2E (Germany))		OB09242A	C 47P 50V J
	OB30061A	VR RK1612420					OB09302A	C 100P 50V J
	OB09695A	RK 5.6K 1/6W J		— Line Amp. —			OB05583A	CM 0.033μ 50V J
	OB41219A	CP 560P 100V J	Q105,106 205,206 Q107,207 411 Q108,208 410 ZD102,202	OB10193A	FET 2SK184 (GR)		OB70074A	Push Switch 1 Key
	OB01780A	CM 0.1μ 50V J		OB10050A	TR 2SA970 (BL)	C027,028		— Miscellaneous —
	OB81013A	Dip Mate 6P WH6D-1		OB06142A	TR 2SC2240 (BL)	CN3 CN6,17 19,19 CN20,20	OB82793A	3P Connector 500
SW303 CN18	BA06290A	Loudness Switch P.C.B. Ass'y	ZD402	OB12150A	ZD 5.6V	AJ BJ	OB81013A	Dip Mate 6P WH6D-1
	OB60390B	Loudness Switch P.C.B.	R124,132 224,232 R125,225 R126,226 R127,227 R128,228 R129,229 R130,230 R131,231 R162,262 R410 R420 R421 C112,212	OB12174A	ZD 12V		OB81010A	Dip Mate 3P WH3D-1
CN18	OB81013A	Dip Mate 6P WH6D-1		OB22229A	RM 1.00K 1/6W F		OB82040B	PD Connector V050
	OB82736A	Ribbon Cable 6P 110mm		OB22315A	RM 5.62K 1/6W F		OB82041B	PD Connector V050
				OB22371A	RM 18.2K 1/6W F		OB82734B	Ribbon Cable 6P 500mm (1)
	BA06253A	Speaker Switch P.C.B. Ass'y		OB22265A	RM 2.20K 1/6W F		OB82735B	Ribbon Cable 6P 320mm (1)
	OB60385C	Speaker Switch P.C.B.		OB22347A	RM 11.0K 1/6W F		OB82737B	Ribbon Cable 6P 120mm (1)
	OB24104A	RF 330 1W J		OB09673A	RK 680 1/6W J		OB82738B	Ribbon Cable 3P 140mm (1)
R742,842 CN23A CN23B CN33	OB82744B	PD Connector V600		OB09679A	RK 1.2K 1/6W J			
	OB82745B	PD Connector V720		OB09695A	RK 5.6K 1/6W J			
	OB82760A	PD Connector V350		OB22515A	RM 332K 1/6W F			
	OB70075A	Push Switch 2 Key (1)		OB09677A	RK 1K 1/6W J			
	OB81478A	Headphone Jack (1)		OB09665A	RK 330 1/6W J			
				OB09685A	RK 2.2K 1/6W J			
				OB41703A	CSP 100P 50V J (SR-2, SR-2A & SR-2E (Europe))			
					CSP 330P 50V J (SR-2E (Germany))			
				OB41704A				
				— Tone Amp. —				
			IC393 VR392 VR393 R134,234 R135-138 235-238 R139,239	OB11070A	IC NJM072S			
				OB30062A	VR 100K (B)x2			
				OB30063A	VR 500K (B)x2			
				OB09725A	RK 100K 1/6W J			
				OB09715A	RK 39K 1/6W J (8)			
				OB09723A	RK 82K 1/6W J			

5.6. Speaker Switch P.C.B. Ass'y

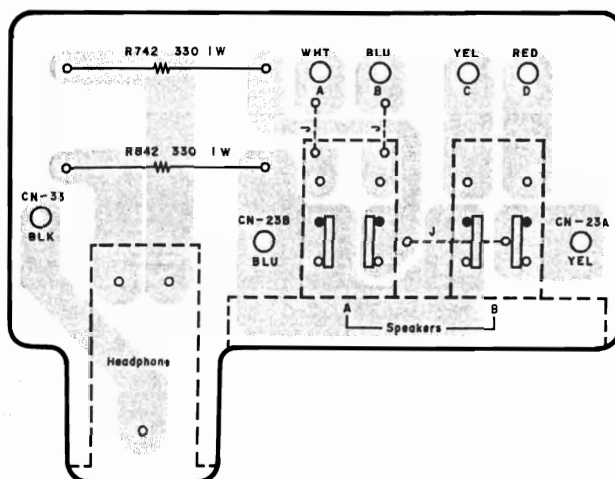


Fig. 5.6

5.7. Tone Control P.C.B. Ass'y

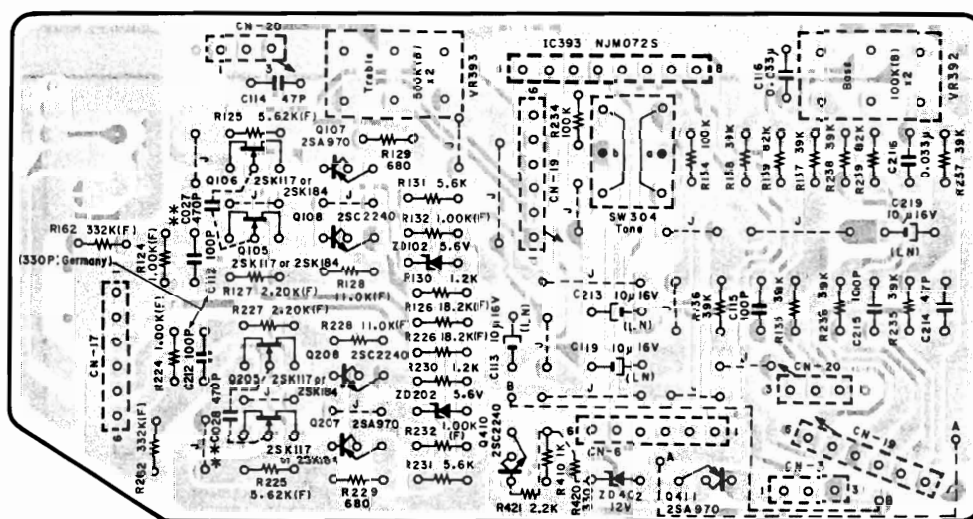


Fig. 5.7.1 2nd Version

** : SR-2E (Germany) only.

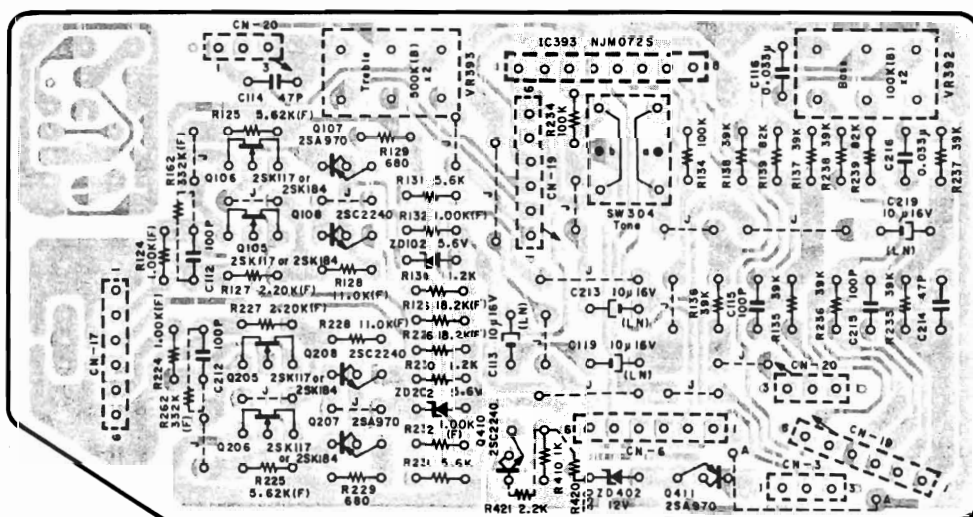


Fig. 5.7.2 1st Version (For SR-2 & SR-2A only)

5.8. Speaker Terminal P.C.B. Ass'y

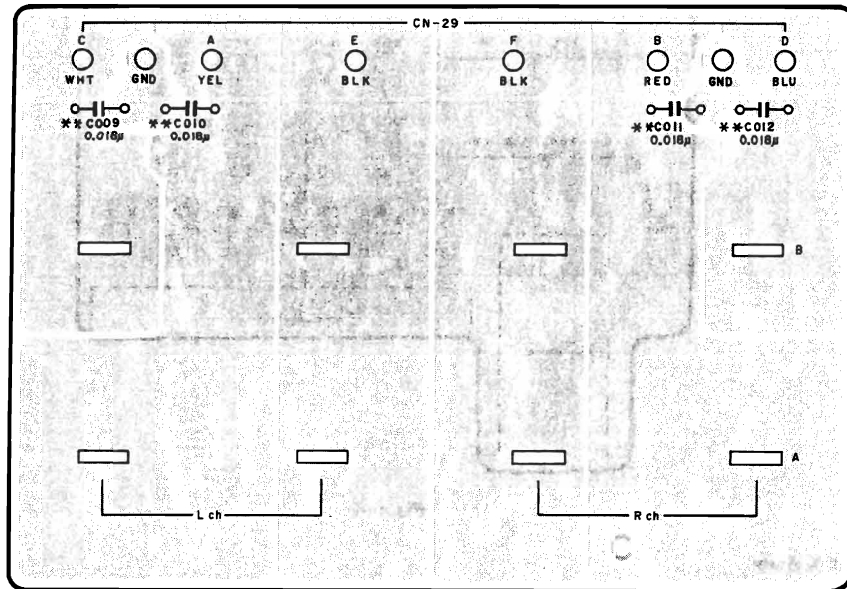


Fig. 5.8

**: SR-2E (Germany) only.

5.9. Power Supply P.C.B. Ass'y

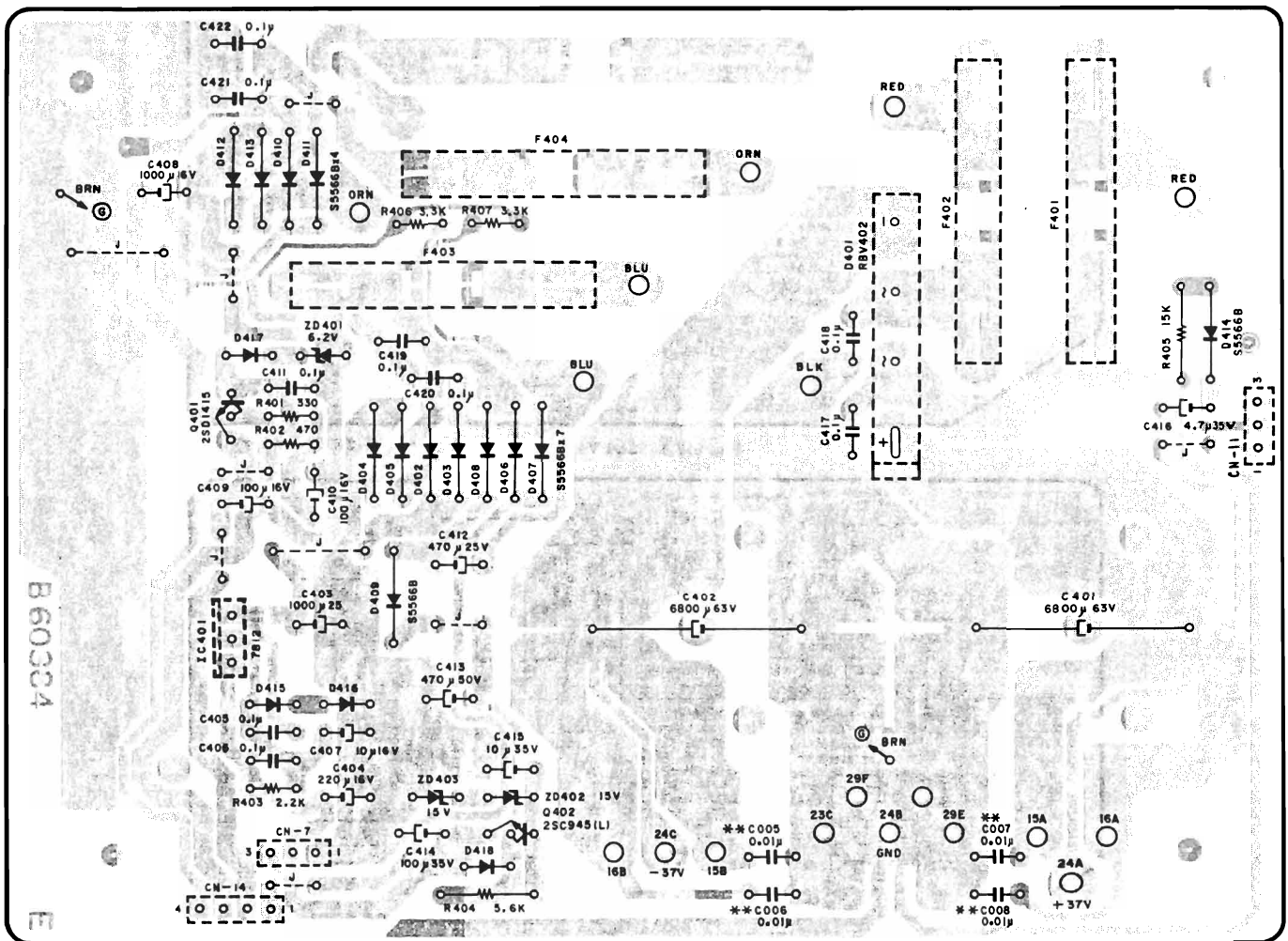


Fig. 5.9

**: SR-2E (Germany) only.

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
C009,010 011,012 CN29A CN29B CN29C CN29D CN29E,29F	BA06283A	Speaker Terminal P.C.B. Ass'y (SR-2, SR-2A & SR-2E (Europe))	CN15A CN15B CN16A CN16B CN21 CN23C CN24A CN24B CN24C	OB82740B	PD Connector V400
	BA06822A	Speaker Terminal P.C.B. Ass'y (SR-2E (Germany))		OB82741B	PD Connector V400
	OB60386C	Speaker Terminal P.C.B.		OB82742B	PD Connector V520
	OB41289A	CMM 0.018 μ 50V J (SR-2E (Germany))		OB82743B	PD Connector V520
	OB82753A	PD Connector V420		OB82803A	2P Connector
	OB82754A	PD Connector V420		OB82746B	PD Connector V440
	OB82755A	PD Connector V420		OB82747B	PD Connector V300
	OB82756A	PD Connector V420		OB82748B	PD Connector V300
	OB82757A	PD Connector V250		OB82749B	PD Connector V300
	OB81595B	Speaker Terminal 8P (1)		OB08349B	Fuse Clip (SR-2 (Australia) & SR-2E (Europe & Germany)) (8)
	OB90019A	Insu-Lock SKB80 (4)		OM04191A	Fuse Label T1A 250V (SR-2 (Australia) & SR-2E (Europe & Germany)) (1)
	OB83056B	Ground Wire (SR-2E (Germany)) (1)		OM04462A	Fuse Label T2.5A 250Vx2 (SR-2 (Australia) & SR-2E (Europe & Germany)) (1)
IC401 Q401 Q402 ZD401 ZD402,403 D401 D402-414 D415,416 417,418 R401 R402 R403 R404 R405 R406,407 C005,006 007,008 C401,402 C403 C404 C405,406 411,417 418-422 C407 C408 C409,410 C412 C413 C414 C415 C416 F401,402 F401,402 F403,404 F403 F404 CN7,11 CN14	BA06246A	Power Supply P.C.B. Ass'y (SR-2 (Canada & Other) & SR-2A)	OM04194A OE00612A OJ05197A OE03355A OB90019A OB90206A OJ05225A	OM04194A	Fuse Label T315mA 250V (SR-2 (Australia) & SR-2E (Europe & Germany)) (1)
	BA06247A	Power Supply P.C.B. Ass'y (SR-2 (Australia) & SR-2E (Europe))		OE00612A	M3x6 Φ Pan (2A) (2)
	BA06820A	Power Supply P.C.B. Ass'y (SR-2E (Germany))		OJ05197A	Heat Sink (1)
	OB60384E	Power Supply P.C.B.		OE03355A	Earth Lug (1)
	OB11252A	IC AN78M12		OB90019A	Insu-Lock SKB80 (6)
	OB10012A	TR 2SD1415		OB90206A	Insu-Lock SKB4M (1)
	OB01872A	TR 2SC945L (P,Q)		OJ05225A	Capacitor Cushion (1)
	OB12153A	ZD 6.2V			
	OB12181A	RD6.2JS-T1B2			
	OB12387A	ZD 15V			
	OB12362A	RD15JS-T1B2			
	OB06398A	SiD RBV-402			
	OB09665A	SiD S5566B (13)			
	OB09669A	SiD 1SS176			
	OB09685A	RK 330 1/6W J			
	OB01887A	RK 470 1/6W J			
	OB01683A	RK 2.2K 1/6W J			
	OB09689A	RK 5.6K 1/4W J			
	OB41286A	RK 15K 1/4W J			
	OB40409A	RK 3.3K 1/6W J			
	OB40095A	CMM 0.01 μ 50V J (SR-2E (Germany))			
	OB40079A	CE 6800 μ 63V			
	OB41298A	CE 1000 μ 25V			
	OB01412A	CE 220 μ 16V			
	OB40082A	CMM 0.1 μ 50V J (9)			
	OB40078A	CE 10 μ 16V			
	OB40094A	CE 1000 μ 16V			
	OB40123A	CE 100 μ 16V			
	OB40104A	CE 470 μ 25V			
	OB40100A	CE 470 μ 50V			
	OB40099A	CE 100 μ 35V			
	OB08574A	CE 10 μ 35V			
	OB08625A	CE 4.7 μ 35V			
	OB08374A	Fuse 4A (SR-2 (Canada & Other) & SR-2A)			
	OB08263U	Fuse T2.5A 250V (SR-2 (Australia) & SR-2E (Europe & Germany))			
	OB08347U	Fuse 1A (SR-2 (Canada & Other) & SR-2A)			
	OB81635A	Fuse T315mA 250V (SR-2 (Australia) & SR-2E (Europe & Germany))			
	OB81636A	Fuse T1A 250V (SR-2 (Australia) & SR-2E (Europe & Germany))			
		3P-T Post			
		4P-T Post			

5.10. Monitor Switch P.C.B. Ass'y

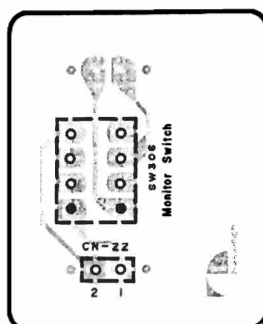


Fig. 5.10

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
SW306 CN22	BA06256A	Monitor Switch P.C.B. Ass'y	Q901,902 905-908 Q903,904 LED910-917 D901-905 908,909 917-919 D906,907 R901,909 R902,903 905-908 R904 SW901-912 CN12 CN13	BA06242A	Control Switch P.C.B. Ass'y
	OB60379A	Monitor Switch P.C.B.		OB60381D	Control Switch P.C.B.
	OB70079A	Rotary Switch 2-2		OB10058A	TR DTA114ES (6)
	OB81002A	Dip Mate 2P		OB10068A	TR DTC114ES
	OB82739A	Ribbon Cable 2P(1)		OB12395A	LED SLR-34PC3F (Green) (8)
				OB06398A	SID 1SS176 (10)
				OB12391A	SID MC911
				OB09657A	RK 150 1/6W J
				OB09689A	RK 3.3K 1/6W J (6)
				OB09661A	RK 220 1/6W J
				OB70062A	Tact Switch KHH10910 (12)
				OB82800A	12P Connector 170mm
				OB82801A	5P Connector 170mm
				OJ05209B	LED Reflector D100 (8)

5.11. Control Switch P.C.B. Ass'y

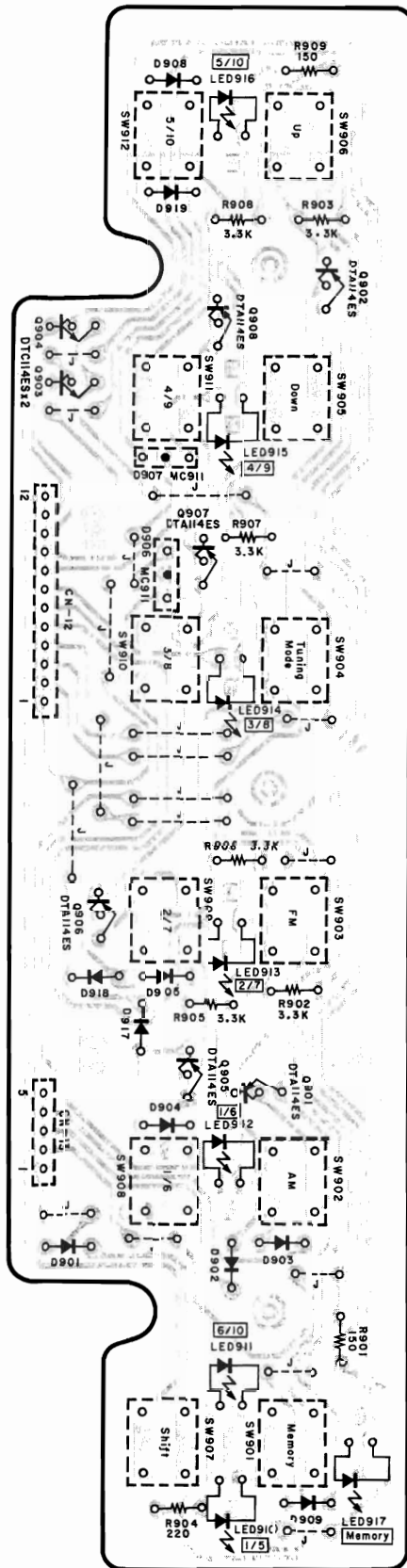


Fig. 5.11.1 2nd Version

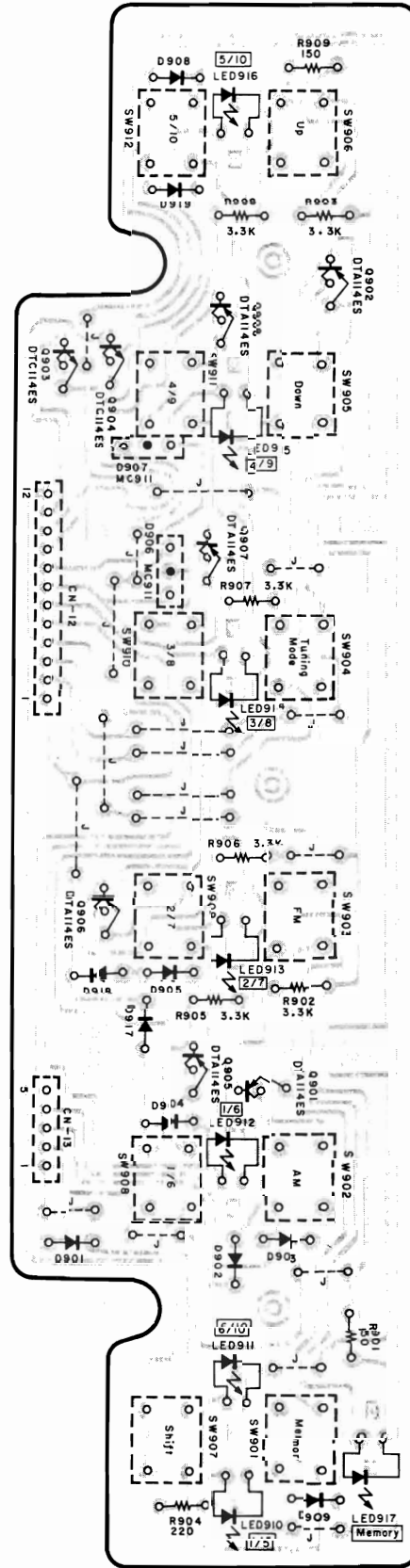
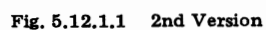


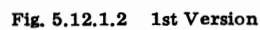
Fig. 5.11.2 1st Version

5.12.1. For SR-2 (Canada) & SR-2A
(1) 2nd Version

(1) 2nd Version



(2) 1st Version



Schematic Ref. No.	Part No.	Description
	BA06240A	Display P.C.B. Ass'y (SR-2 (Canada) & SR-2A) 2nd Version
IC951	OB60380D	Display P.C.B.
IC952	OB11244A	IC LA1413N
Q951,953	OB11160A	IC TD6301A
954,955	OB10068A	TR DTC114ES
Q952	OB10053A	TR DTA144ES
Q956,957	OB10060A	TR DTA143ES
Q958	OB06013A	TR 2SA733 (P,Q)
D950	OB12385A	Display Unit
D951	OB06398A	SiD 1SS176
R951,954	OB09717A	RK 47K 1/6W J
R952	OB09677A	RK 1K 1/6W J
R953	OB09701A	RK 10K 1/6W J
R956,991	OB09650A	RK 75 1/6W J
R957	OB09644A	RK 43 1/6W J
R959,960	OB09654A	RK 110 1/6W J
989,990		
R961-984	OB09661A	RK 220 1/6W J (24)
C951,952	OB40009A	CE 10μ 16V
C953	OB41554A	CC 0.022μ 25V Z
C954	OB41555A	CC 0.047μ 25V Z
F951	OB11248A	IC Protector ICP-N5
CN8	OB82796A	7P Connector 280mm
CN9	OB82797A	6P Connector 280mm
CN10	OB82798A	3P Connector 260mm
	OE00846A	BT3x8 @Pan (2)
	BA06240A	Display P.C.B. Ass'y (SR-2 (Canada) & SR-2A) 1st Version
IC951	OB60380A	Display P.C.B.
IC952	OB11244A	IC LA1413N
Q951,953	OB11160A	IC TD6301A
954,955	OB10068A	TR DTC114ES
Q952	OB10053A	TR DTA144ES
Q956,957	OB10060A	TR DTA143ES
Q958	OB06013A	TR 2SA733 (P,Q)
D950	OB12385A	Display Unit
D951	OB06398A	SiD 1SS176
R951,954	OB09717A	RK 47K 1/6W J
R952	OB09677A	RK 1K 1/6W J
R953	OB09701A	RK 10K 1/6W J
R956,991	OB09650A	RK 75 1/6W J
R957	OB09644A	RK 43 1/6W J
R959,960	OB09654A	RK 110 1/6W J
989,990		
R961-984	OB09661A	RK 220 1/6W J (24)
C951,952	OB40009A	CE 10μ 16V
C953	OB41554A	CC 0.022μ 25V Z
F951	OB11248A	IC Protector ICP-N5
CN8	OB82796A	7P Connector 280mm
CN9	OB82797A	6P Connector 280mm
CN10	OB82798A	3P Connector 260mm
	OE00846A	BT3x8 @Pan (2)

5.12.2. For SR-2 (Australia & Other) & SR-2E (Europe & Germany)
(1) 2nd Version

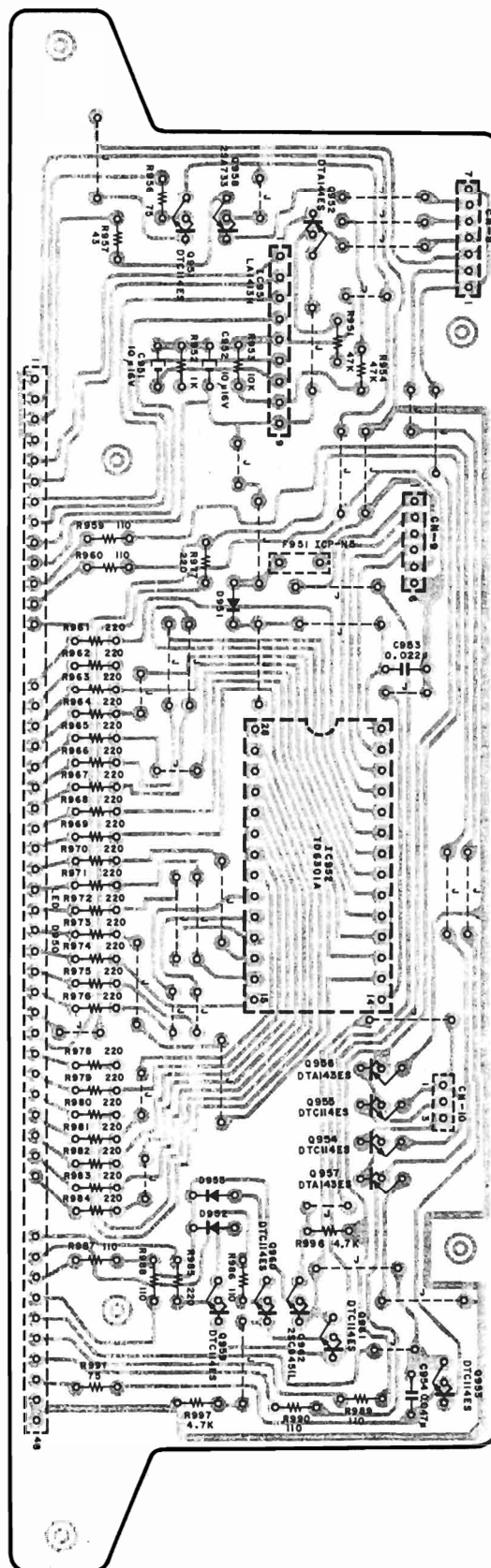


Fig. 5.12.2.1 2nd Version

(2) 1st Version (For SR-2 (Australia & Other only))

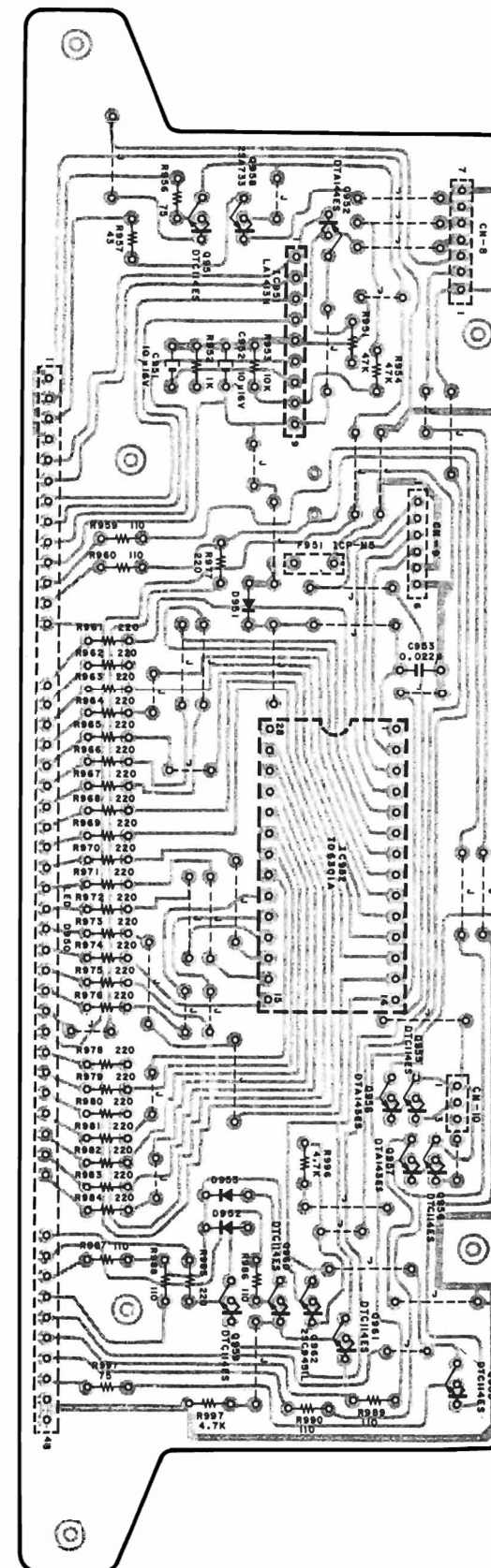


Fig. 5.12.2.2 1st Version

Schematic Ref. No.	Part No.	Description
	BA06241A	Display P.C.B. Ass'y (SR-2 (Australia & Other): 2nd Version) (SR-2E (Europe & Germany))
IC951	OB60380D	Display P.C.B.
IC952	OB11244A	IC LB1413N
Q951,953	OB11160A	IC TD6301A
954,955	OB10068A	TR DTC114ES (7)
959-961		
Q952	OB10053A	TR DTA144ES
Q956,957	OB10060A	TR DTA143ES
Q958	OB06013A	TR 2SA733 (P,Q)
Q962	OB01872A	TR 2SC945L (P,Q)
D950	OB12385A	Display Unit
D951,952	OB06398A	SiD 1SS176
953		
R951,954	OB09717A	RK 47K 1/6W J
R952	OB09677A	RK 1K 1/6W J
R953	OB09701A	RK 10K 1/6W J
R956,991	OB09650A	RK 75 1/6W J
R957	OB09644A	RK 43 1/6W J
R959,960	OB09654A	RK 110 1/6W J
986-990		
R961-985	OB09661A	RK 220 1/6W J (25)
R996,997	OB09693A	RK 4.7K 1/6W J
C951,952	OB40009A	CE 10μ 16V
C953	OB41554A	CC 0.022μ 25V Z
C954	OB41555A	CC 0.047μ 25V Z
F951	OB11248A	IC Protector ICP-N5
CN8	OB82796A	7P Connector 280mm
CN9	OB82797A	6P Connector 260mm
CN10	OB82798A	3P Connector 260mm
	OE00846A	BT3x8 @Pan (2)
	BA06241A	Display P.C.B. Ass'y (SR-2 (Australia & Other)): 1st Version
IC951	OB60380A	Display P.C.B.
IC952	OB11244A	IC LB1413N
Q951,953	OB11160A	IC TD6301A
954,955	OB10068A	TR DTC114ES (7)
959-961		
Q952	OB10053A	TR DTA144ES
Q956,957	OB10060A	TR DTA143ES
Q958	OB06013A	TR 2SA733 (P,Q)
Q962	OB01872A	TR 2SC945L (P,Q)
D950	OB12385A	Display Unit
D951,952	OB06398A	SiD 1SS176
953		
R951,954	OB09717A	RK 47K 1/6W J
R952	OB09677A	RK 1K 1/6W J
R953	OB09701A	RK 10K 1/6W J
R956,991	OB09650A	RK 75 1/6W J
R957	OB09644A	RK 43 1/6W J
R959,960	OB09654A	RK 110 1/6W J
986-990		
R961-985	OB09661A	RK 220 1/6W J (25)
R996,997	OB09693A	RK 4.7K 1/6W J
C951,952	OB40009A	CE 10μ 16V
C953	OB41554A	CC 0.022μ 25V Z
F951	OB11248A	IC Protector ICP-N5
CN8	OB82796A	7P Connector 280mm
CN9	OB82797A	6P Connector 260mm
CN10	OB82798A	3P Connector 260mm
	OE00846A	BT3x8 @Pan (2)

5.13. Main P.C.B. Ass'y
 5.13.1. For SR-2 (Canada) & SR-2A
 (1) 2nd Version

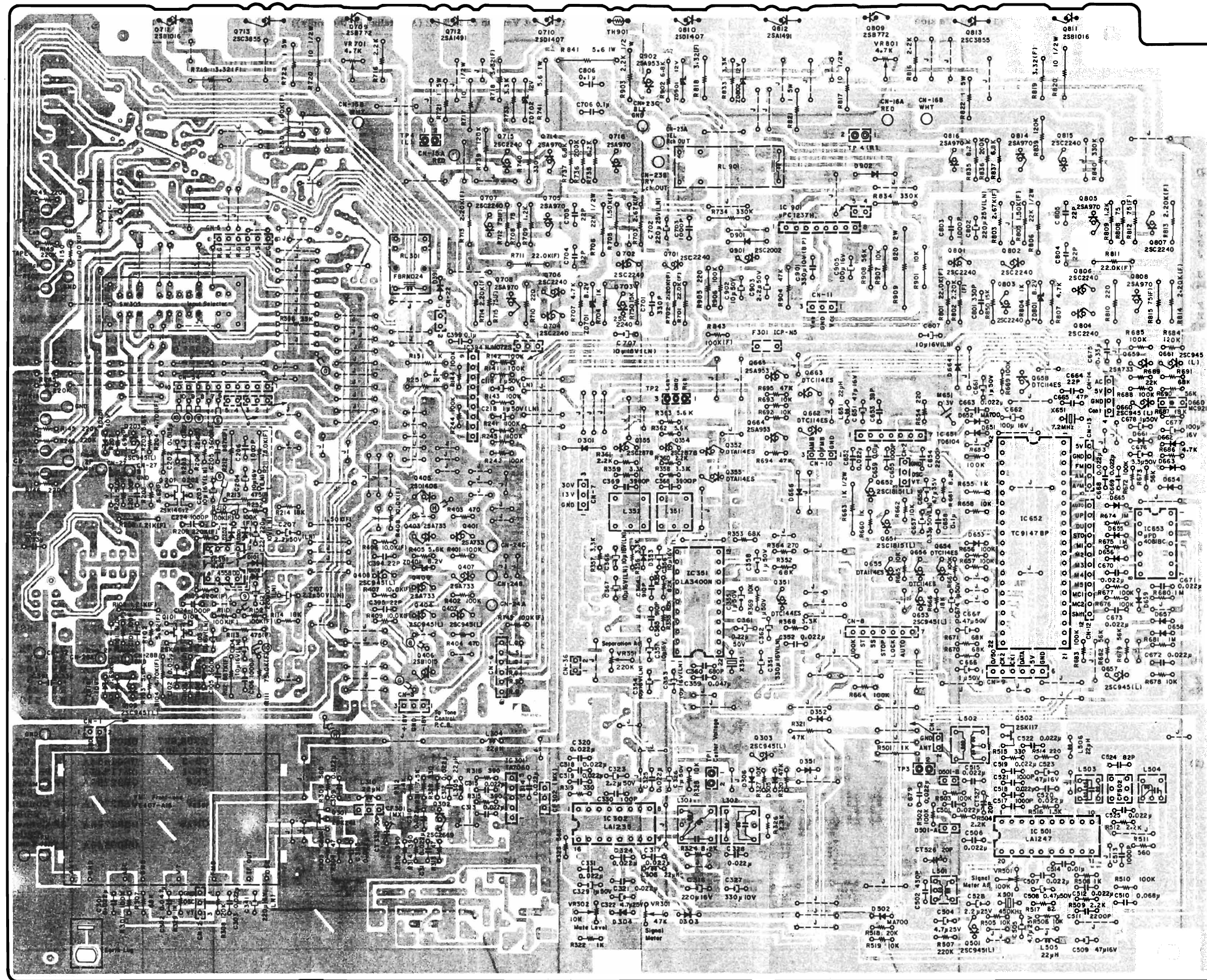


Fig. 5.13.1.1 2nd Version (For SR-2 (Canada) & SR-2A)

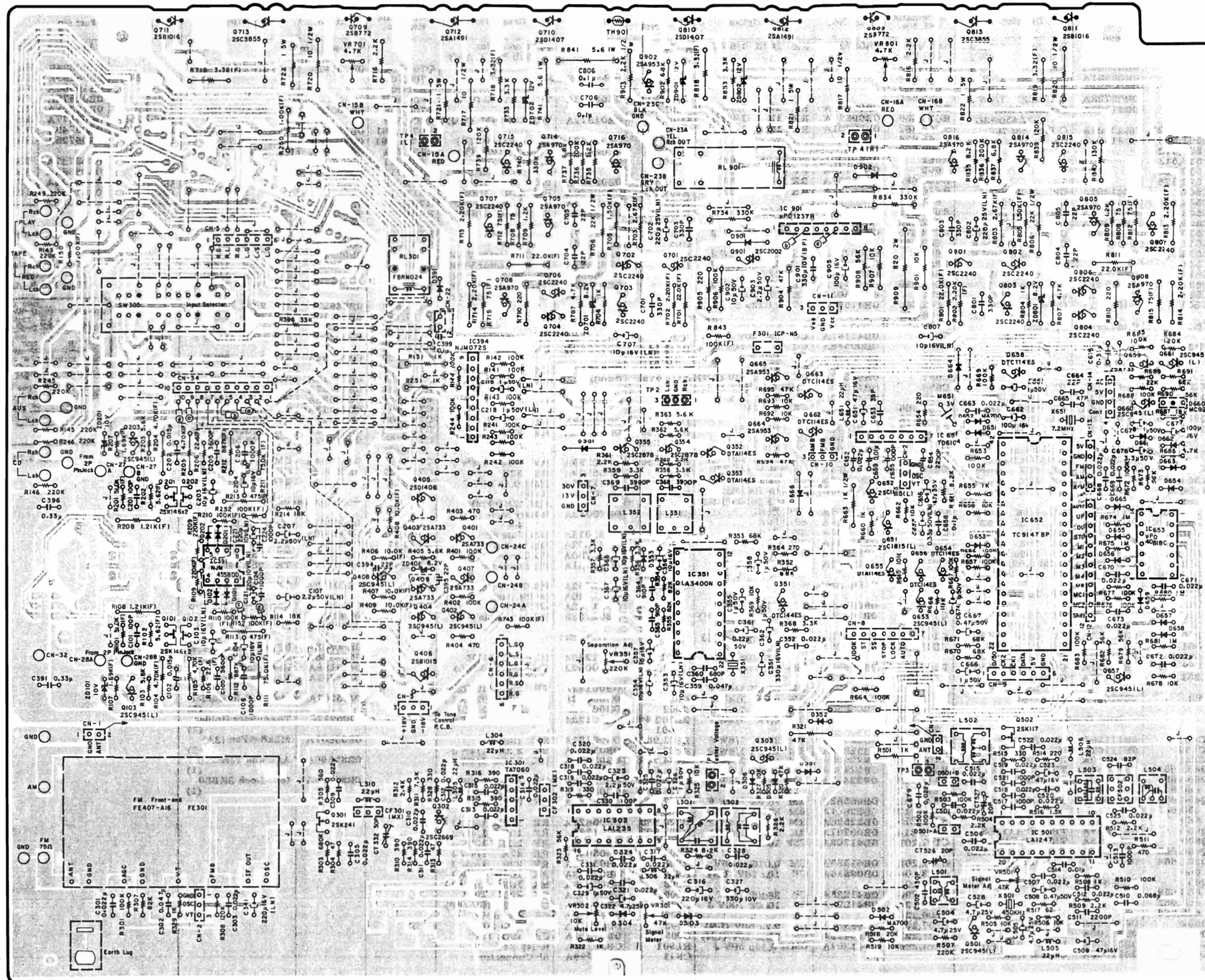
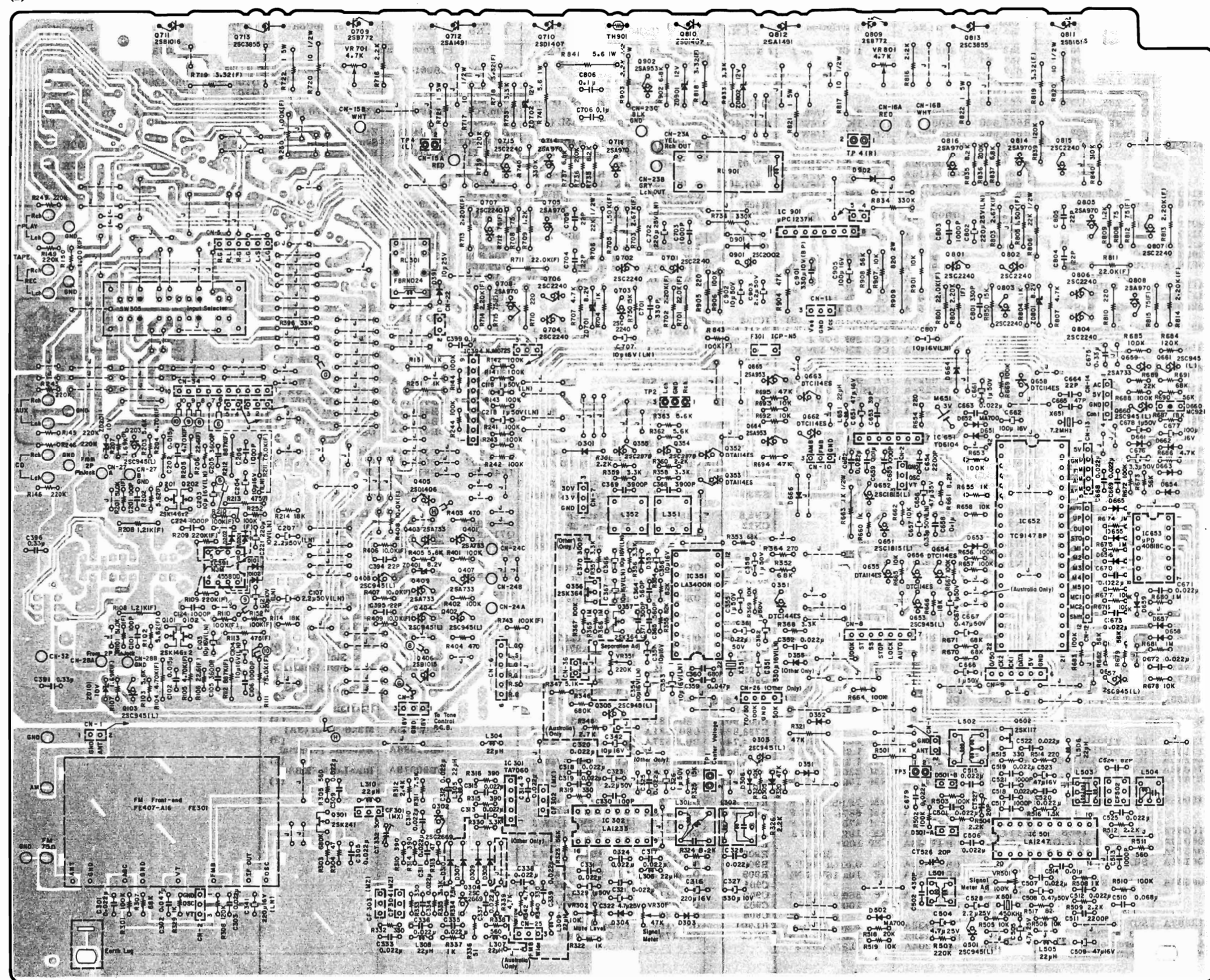


Fig. 5.13.1.2 1st Version (For SR-2 (Canada) & SR-2A)

5.13.2. For SR-2 (Other & Australia)
(1) 2nd Version

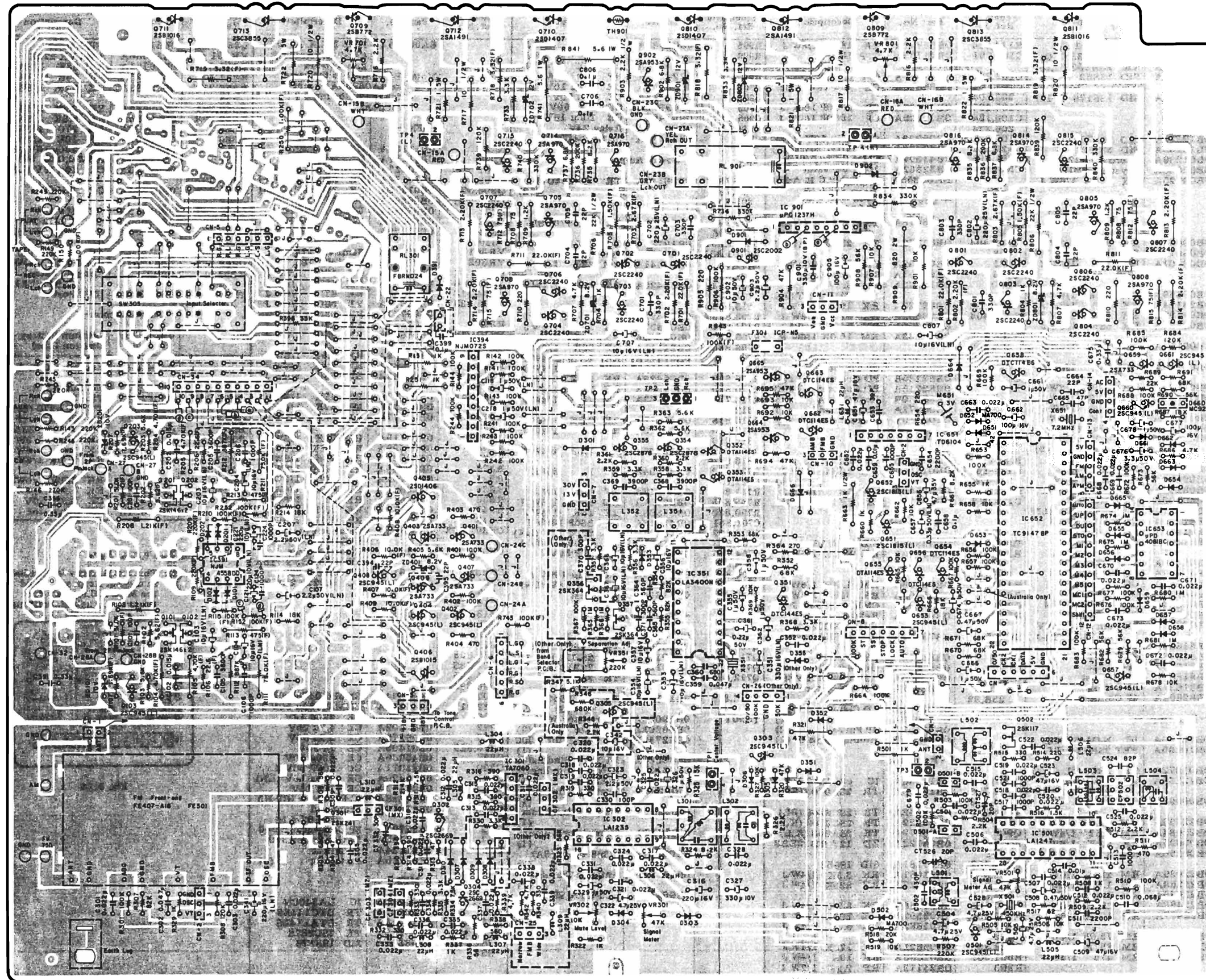


Schematic Ref. No.	Part No.	Description
	BA06236A	Main P.C.B. Ass'y (SR-2 (Other)) 2nd Version
	- FM -	
IC301	OB11156A	IC TA7060AP
IC302	OB11157A	IC LA1235
Q301	OB10127A	FET 2SK241 (GR)
Q302,304	OB10174A	TR 2SC2669 (O.Y)
Q303	OB01872A	TR 2SC945L (P.O)
D303-306	OB06398A	SID 1SS176 (4)
D307-310	OB06181A	SID 1SS53 (4)
L301	OB51240A	FM Det. Coil A
L302	OB51241A	FM Det. Coil B
L304-310	OB51239A	Micro Coil 22μH (7)
VR301	OB32084A	Semi VR 47K
VR302	OB32080A	Semi VR 10K
R301	OB09725A	RK 100K 1/6W J
R303	OB09745A	RK 680K 1/6W J
R304,313	OB09645A	RK 47 1/6W J
R305,338	OB09671A	RK 560 1/6W J
R307	OB09721A	RK 68K 1/6W J
R308		RK 120K 1/6W J
R310,314	OB09667A	RK 390 1/6W J
315,316		
R311,334	OB09698A	RK 7.5K 1/6W J
R312	OB09686A	RK 2.4K 1/6W J
R319,332	OB09665A	RK 330 1/6W J
333,340		
R320	OB09717A	RK 47K 1/6W J
R321	OB05641A	RK 47K 1/4W J
R322,329	OB09677A	RK 1K 1/6W J
337		
R323	OB09719A	RK 56K 1/6W J
R324	OB09699A	RK 8.2K 1/6W J
R325	OB09705A	RK 15K 1/6W J
R326	OB09685A	RK 2.2K 1/6W J
R327	OB09701A	RK 10K 1/6W J
R330,335	OB09689A	RK 3.3K 1/6W J
R336	OB09646A	RK 51 1/6W J
R339,342	OB09693A	RK 4.7K 1/6W J
CF301,302	OB41818A	Ceramic Filter SFE10.7MX2K-A
CF303,304	OB41746A	Ceramic Filter SFE10.7MS3GH15A
CT332	OB41614A	C Trimmer 30P
C301,303	OB41554A	CC 0.022μ 25V Z (24)
305,309		
310,311		
313,314		
315,318		
319,320		
321,324		
325,328		
331		
333-339		
C302	OB41294A	CMM 0.047μ 50V J
C312,317	OB41290A	CMM 0.022μ 50V J
C316	OB40079A	CE 220μ 16V
C322	OB01402A	CE 4.7μ 25V
C323		CE 2.2μ 50V
C326,329	OB01405A	CE 1μ 50V
C327	OB40066A	CE 330μ 10V
C330	OB41071A	CC 100P 50V J
C341	OB40420A	CE 220μ 16V (LN)
F301	OB11248A	IC Protector ICP-N5
FE301	OB91016A	Front-end FE407-A16
CN2	OB82792A	3P Connector W240
CN7	OB82795A	3P Connector 370
CN25	OB81635A	3P-T Post
TP1	OB81634A	2P-T Post
	OE03355A	Earth Lug (1)
	- AM -	
IC501	OB11243A	IC LA1247
Q501	OB01872A	TR 2SC945L (P,Q)
Q502	OB06129A	FET 2SK117 (Y)
D501	OB12386A	Varicap KV1226Y
D502	OB12363A	SID MA700
L501	OB51235A	Osc. Coil
L502	OB51236A	Ant. Coil
L503	OB51234A	IFT 2 AM
L504	OB51233A	IFT 1 AM
L505,506	OB51239A	Micro Coil 22μH
VR501	OB32086A	Semi VR 100K
R501	OB01857A	RK 1K 1/4W J

Note: For Australia, D309, D310, and pins 1 and 2 of CN-25 are shorted with jumper wires.

Fig. 5.13.2.1 2nd Version (For SR-2 (Other & Australia))

(2) 1st Version



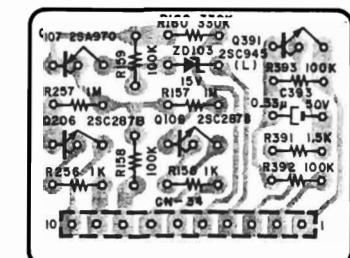
Schematic Ref. No.	Part No.	Description
	BA06236A	Main P.C.B. Ass'y (SR-2 (Other)) 1st Version
	— FM —	
IC301	OB11156A	IC TA7060AP
IC302	OB11157A	IC LA1235
Q301	OB10127A	FET 2SK241 (GR)
Q302,304	OB10174A	TR 2SC2669 (O,Y)
Q303	OB101872A	TR 2SC945L (P,O)
D303-306	OB06398A	SID 1SS176 (4)
D307-310	OB06181A	SID 1SS53 (4)
L301	OB51240A	FM Det. Coil A
L302	OB51241A	FM Det. Coil B
L304-310	OB51239A	Micro Coil 22μH (7)
VR301	OB32084A	Semi VR 47K
VR302	OB32080A	Semi VR 10K
R301	OB09725A	RK 100K 1/6W J
R303	OB09745A	RK 680K 1/6W J
R304,313	OB09645A	RK 47 1/6W J
R305,338	OB09671A	RK 560 1/6W J
R307	OB09723A	RK 82K 1/6W J
R308	OB09727A	RK 120K 1/6W J
R310,314	OB09667A	RK 390 1/6W J
315,316		
R311,334	OB09698A	RK 7.5K 1/6W J
R312	OB09686A	RK 2.4K 1/6W J
R319,332	OB09665A	RK 330 1/6W J
333,340		
R320	OB09717A	RK 47K 1/6W J
R321	OB05641A	RK 47K 1/4W J
R322,329	OB09677A	RK 1K 1/6W J
337		
R323	OB09719A	RK 56K 1/6W J
R324	OB09699A	RK 8.2K 1/6W J
R325	OB09705A	RK 15K 1/6W J
R326	OB09685A	RK 2.2K 1/6W J
R327	OB09701A	RK 10K 1/6W J
R330,335	OB09689A	RK 3.3K 1/6W J
R336	OB09647A	RK 56 1/6W J
R339,342	OB09693A	RK 4.7K 1/6W J
CF301,302	OB41700A	Ceramic Filter SFE10.7MX2H-A
CF303,304	OB41076A	Ceramic Filter SFE10.7MS3GKY-A
CT332	OB41614A	C Trimmer 30P
C301,303	OB41554A	CC 0.022μ 25V Z (24)
305,309		
310,311		
313,314		
315,318		
319,320		
321,324		
325,328		
331		
333-339		
C302	OB41294A	CMM 0.047μ 50V J
C312,317	OB41290A	CMM 0.022μ 50V J
C316	OB40079A	CE 220μ 16V
C322	OB01402A	CE 4.7μ 25V
C323	OB09372A	CE 2.2μ 50V
C326,329	OB01405A	CE 1μ 50V
C327	OB40066A	CE 330μ 10V
C330	OB41071A	CC 100P 50V J
C341	OB40420A	CE 220μ 16V (LN)
F301	OB11248A	IC Protector ICP-N5
FE301	OB91016A	Front-end FE407-A16
CN2	OB82792A	3P Connector W240
CN7	OB82795A	3P Connector 370
CN25	OB81635A	3P-T Post
TP1	OB81634A	2P-T Post
	OE03355A	Earth Lug (1)
	— AM —	
IC501	OB11243A	IC LA1247
Q501	OB01872A	TR 2SC945L (P,Q)
Q502	OB06129A	FET 2SK117 (Y)
D501	OB12386A	Varicap KV1226Y
D502	OB12363A	SID MA700
L501	OB51235A	Osc. Coil
L502	OB51236A	Ant. Coil
L503	OB51234A	IFT 2 AM
L504	OB51233A	IFT 1 AM
L505,506	OB51239A	Micro Coil 22μH
VR501	OB32084A	Semi VR 47K
R501	OB01857A	RK 1K 1/4W J

Note: For Australia, D309, D310, and pins 1 and 2 of CN-25 are shorted with jumper wires.

Fig. 5.13.2.2 1st Version (For SR-2 (Other & Australia))

Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description	Schematic Ref. No.	Part No.	Description
R502,503 510 R504,509 512 R505,506 519 R507 R508 R511 R514 R515 R516 R517 R518 CF502	OB09725A OB09685A OB09701A OB09733A OB09677A OB09669A OB09661A OB09665A OB09681A OB09648A OB09708A OB41701A	RK 100K 1/6W J RK 2.2K 1/6W J RK 10K 1/6W J RK 220K 1/6W J RK 1K 1/6W J RK 470 1/6W J RK 220 1/6W J RK 330 1/6W J RK 1.5K 1/6W J RK 62 1/6W J RK 20K 1/6W J Ceramic Filter SFZ450G3L C Trimmer 20P CC 0.022μ 25V	Q655 Q659 Q664,665 D301,666 666 D651 653-659 661,662 663,665 D652 D660 L651 X651 R653,656 657,664 667,669 672,676 677,683 685,688 R654 R655,660 R658,662 665,678 692,693 R661 R663 R666,687 R670,671 691 R673,679 682,690 R674,675 680,681 R684 R686 R689 R694,695 C651 C652,663 668-673 679	OB10058A OB06013A OB06372A OB06181A OB06398A OB12363A OB12100A OB51239A OB92006A OB09725A OB09661A OB09677A OB09701A OB09699A OB24114A OB09707A OB09721A OB09719A OB09749A OB09727A OB09693A OB09709A OB09717A OB01403A OB41554A	TR DTA114ES TR 2SA733 (P,Q) TR 2SA953 (K,L) SID 1SS53 SID 1SS176 (12) SID MA700 SID MC921 Micro Coil 22μH Crystal 7.2MHz RK 100K 1/6W J RK 220 1/6W J RK 1K 1/6W J RK 10K 1/6W J RK 8.2K 1/6W J RF 1K 1/2W J RK 18K 1/6W J RK 68K 1/6W J RK 56K 1/6W J RK 1M 1/6W J RK 120K 1/6W J RK 4.7K 1/6W J RK 22K 1/6W J RK 47K 1/6W J CE 47μ 16V CC 0.022μ 25V	R114,214 C101,201 C102,202 C103,104 203,204 C105,205 C106,124 206,224 C107,207 C121,221 C391,396 CN34 Q401,403 407,409 Q402,404 408 Q405 Q406 ZD401 R401,402 R403,404 R405 R406,407 408,409 C394,395 CN3 IC394 R141-144 241-244 R151,251 C118,218 D391 R145,146 149,245 246,249 R150,250 R396 C399 RL301 SW305 CN5,6 CN22 CN27A CN27B 28B,32 CN28A IC901 Q714,716 814,816 Q715,815 Q901 Q902 ZD702,802 901 D901,902 R733,833 R734,740 834,840 R735,835 R736,836 R737,837 902 R739,839 R901,907 R903 R904	OB09707A OB41703A OB41585A OB09816A OB41238A OB41225A OB09933A OB40422A OB41304A OB82862A BA06355A OB06013A OB01872A OB06452A OB06451A OB12162A OB09725A OB09669A OB24114A OB09707A OB09721A OB09719A OB09749A OB09727A OB09693A OB09709A OB09717A OB01403A OB41554A OB41187A OB09586A OB09288A OB40103A OB09327A OB41298A OB41553A OB01405A OB01400A OB41708A OB41709A OB40111A OB41304A OB01863A OB01863A OB0200B OB81639A OB81638A OB81635A OB81644A OB81637A OB82802A OB06146A OB0195A OB01872A OB12168A OB06398A OB22423A OB22684A OB09695A OB09356A OB22039A OB22253A OB22635A OB22493A OB22457A OB09562A OB22641A OB22576A	RK 18K 1/6W J CSP 100P 50V J CM 0.015μ 100V J CE 10μ 16V (LN) CP 3600P 100V J CP 1000P 100V J CE 2.2μ 50V (LN) CE 220μ 10V (LN) CMM 0.33μ 50V J 10P Connector Eq. Sub P.C.B. Ass'y TR 2SA733 (P,Q) TR 2SC945L (P,Q) TR 2SD1406 (Y) TR 2SB1015 (Y) ZD 8.2V RD8.2JS-T1B2 RK 100K 1/6W J RK 470 1/6W J RK 5.6K 1/6W J RM 10.0K 1/6W F C 22P 50V J 3P-T Post Heat Sink A (2) Nut Hex. M3 (2) M3x8 @ Binding (2) IC NJM072S RK 100K 1/4W J RK 1K 1/4W J CE 1μ 50V (LN) SID 1SS176 RK 220K 1/6W J RM 1.00K 1/6W F RK 33K 1/4W J CMM 0.1μ 50V J Relay FBR42ND024P Rotary Slide Switch 4-4 Dip Mate 6P Dip Mate 2P PD Connector V80 PD Connector V80 2P Pin Jack (1) 4P Pin Jack (2) Ribbon Cable 6P (1) IC μPC1237H TR 2SA970 (BL) TR 2SC2240 (BL) TR 2SC2002 (K,L) TR 2SA953 (K,L) ZD 12V RD12EB3 SID 1SS53 RK 3.3K 1/4W J RK 330K 1/4W J RK 8.2K 1/4W J RK 200K 1/4W J RK 6.8K 1/4W J RK 120K 1/4W J RK 10K 1/4W J RF 2.2K 1/2W J RK 47K 1/4W J	R905 R906 R908 R909 C901 C902 C903 C905 RL901 CN11 Q701-704 706,707 801-804 806,807 Q705,708 805,808 ZD701,801 VR701,801 R701,711 801,811 R702,713 714,802 813,814 R703,803 R704,804 R705,805 R706,806 R707,807 R708,808 R709,809 R710,810 R712,715 812,815 R716,816 R717,720 817,820 R718,719 818,819 R721,722 821,822 R741,841 R743,843 C701,703 801,803 C702,802 C704,705 804,805 C706,806 C707,807 TP4L,4R Q709,809 Q710,810 Q711,811 Q712,812 Q713,813 TH901 QJ05198A QJ05205A QJ05207A QJ05212C OE00606A OB81596A OB90019A	OB01933A OB01889A OB05508A OB24106A OB40408A OB40116A OB09372A OB01400A OB0199A OB82799A OB06142A TR 2SC2240 (BL) (12) OB10050A TR 2SA970 (BL) ZD 8.2V RD8.2JB2 Semi VR 4.7K RM 22K 1/4W F RM 2.2K 1/4W F RM 2.67K 1/4W F RK 1K 1/4W J RM 1.5K 1/4W F RF 22K 1/2W J RK 4.7K 1/4W J RK 75 1/4W J RK 1.2K 1/4W J RK 220 1/4W J RM 75 1/4W F RK 2.2K 1/4W J RF 10 1/2W J RM 3.32 1/4W F RC 1 5W K RF 5.6 1W J RM 100K 1/6W F CP 330P 100V J CE 220μ 25V (LN) CSP 22P 50V J CM 0.1μ 100V J CE 10μ 16V (LN) 2P-T Post Main P.C.B. TR 2SB772 (P,Q) TR 2SD1407 TR 2SB1016 TR 2SA1491 (P,Y,G) TR 2SC3855 (P,Y,G) Thermistor 50KD-5 Insulator (2) Insu-Lock (3) BT3x8 @ Pan (7) M3x10 @ Pan (Nickel) (10) Heat Sink (1) Heat Sink Holder A (1) Main P.C.B. Holder (2) Thermistor Holder (1) M3x6 @ Pan (3A) (2) Antenna Terminal (1) Insu-Lock SKB80 (1) OB41294A OB41290A OB40079A OB01402A OB09372A OB01405A OB40066A OB41071A OB40420A CE 220μ 16V (LN) CE 10μ 16V IC Protector ICP-N5 FE407-A16 3P Connector W240 3P Connector 370 2P-T Post Earth Lug (1)	BA06309A Main P.C.B. Ass'y (SR-2 (Australia)) 1st Version Note: BA06309A is the same as BA06236A except for the following sections. — FM — IC301 IC302 Q301 Q302,304 Q303,305 D303-306 L301 L302 L304-308 310 VR301 VR302 R301 R303,346 R304,313 R305,338 R307 R308 R310,314 315,316 R311,334 R312 R319,332 333 R320 R321 R322,329 337 R323 R324 R325 R326,348 R327 R335 R336 R347 CF301,302 CF303,304 CT332 C301,303 305,309 310,311 313,314 315,318 319,320 321,324 325,328 331,333 334,335 336,337 C302 C312,317 C316 C322 C323 C326,329 C327 C330 C341 C342 F301 FE301 CN2 CN7 TP1 IC351 Q351 Q352,353 Q354,355 D351,352 353	OB11156A OB11157A OB10127A OB10174A OB01872A OB06398A OB51240A OB51241A OB51239A OB32084A OB32080A OB09725A OB09745A OB09645A OB09671A OB09723A OB09727A OB09667A OB09698A RK 7.5K 1/6W J OB09686A RK 2.4K 1/6W J OB09665A RK 330 1/6W J OB09717A RK 47K 1/6W J OB05641A RK 1K 1/6W J OB09719A RK 56K 1/6W J OB09699A RK 8.2K 1/6W J OB09705A RK 15K 1/6W J OB09685A RK 2.2K 1/6W J OB09701A RK 10K 1/6W J OB09689A RK 3.3K 1/6W J OB09647A RK 56 1/6W J OB09644A RK 5.1K 1/6W J OB41700A Ceramic Filter SFE10,7MX2H-A Ceramic Filter SFE10,7MS3GKY-A C Trimmer 30P CC 0.022μ 25V Z OB41614A OB41554A OB41294A OB41290A OB40079A OB01402A OB09372A OB01405A OB40066A OB41071A OB40420A CE 220μ 16V (LN) CE 10μ 16V IC Protector ICP-N5 FE407-A16 3P Connector W240 3P Connector 370 2P-T Post Earth Lug (1)	L351,352 VR351 R352,353 R354,355 R356-359 368 R360,361 R362,363 R364 R369 C351 C352 C353,354 366,367 C355,358 362 C356,357 C359 C360 C361 C364,365 C368,369 C370,371 X351 TP2 Q106,206 Q107 Q391 ZD103 R156,256 R157,257 R158,159 392,393 R160 R391 C393 CN34 OB51237A OB32066A OB09721A OB09723A OB09689A OB09685A OB09695A OB09663A OB09701A OB40418A OB41290A OB09816A OB01405A CE 1μ 50V OB01412A CC 0.047μ 25V OB41555A CC 680P 50V K OB40023A CC 0.22μ 50V OB41404A CP 560P 50V J CMM 3900P 50V J OB41281A CMM 0.022μ 50V J OB90172A Ceramic Filter CSB456F11 3P-T Post OB81635A Eq. Sub P.C.B. Ass'y Eq. Sub P.C.B. TR 2SC2878 TR 2SA970 (BL) TR 2SC945L (P,Q) ZD 15V MTZ15C RK 1K 1/6W J RK 1M 1/6W J RK 100K 1/6W J RK 330K 1/6W J RK 1.5K 1/6W J CE 0.33μ 50V 10P Connector	MPX Filter Semi VR 220K RK 68K 1/6W J RK 82K 1/6W J RK 3.3K 1/6W J (5) RK 2.2K 1/6W J RK 5.6K 1/6W J RK 270 1/6W J RK 10K 1/6W J CE 330μ 16V (LN) CMM 0.022μ 50V J CE 10μ 16V (LN) CE 1μ 50V CC 0.047μ 25V CC 680P 50V K CC 0.22μ 50V CP 560P 50V J CMM 3900P 50V J Ceramic Filter CSB456F11 3P-T Post Eq. Sub P.C.B. Ass'y Eq. Sub P.C.B. TR 2SC2878 TR 2SA970 (BL) TR 2SC945L (P,Q) ZD 15V MTZ15C RK 1K 1/6W J RK 1M 1/6W J RK 100K 1/6W J RK 330K 1/6W J RK 1.5K 1/6W J CE 0.33μ 50V 10P Connector			

Fig. 5.14



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5.13.4. For SR-2E (Germany)

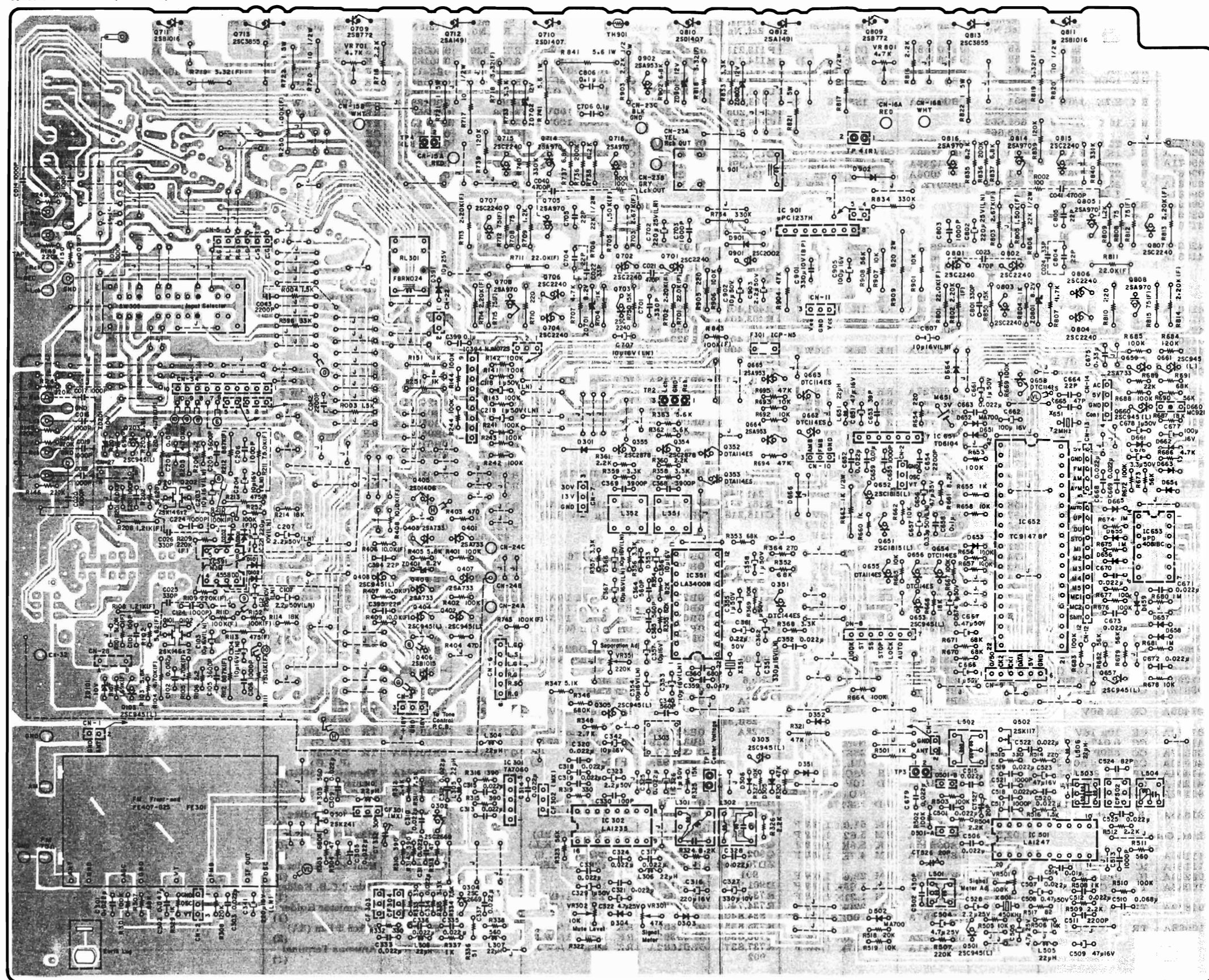


Fig. 5.13.4 For SR-2E (Germany)

Schematic Ref. No.	Part No.	Description
	BA06814A	Main P.C.B. Ass'y (SR-2E (Germany))
	- FM -	
IC301	OB11156A	IC TA7060AP
IC302	OB11157A	IC LA1235
Q301	OB10127A	FET 2SK241 (GR)
Q302,304	OB10174A	TR 2SC2669 (O,Y)
Q303,305	OB01872A	TR 2SC945L (P,Q)
D303-306	OB06398A	SID 1SS176 (4)
L301	OB51240A	FM Det. Coil A
L302	OB51241A	FM Det. Coil B
L303	OB51238A	Anti-birdy Filter
L304-308	OB51239A	Micro Coil 22μH (6)
VR301	OB32084A	Semi VR 47K
VR302	OB32080A	Semi VR 10K
R301	OB09725A	RK 100K 1/6W J
R303,346	OB09745A	RK 680K 1/6W J
R304,313	OB09645A	RK 47 1/6W J
R305,338	OB09671A	RK 560 1/6W J
R307	OB09721A	RK 68K 1/6W J
R308	OB09727A	RK 120K 1/6W J
R310,314	OB09667A	RK 390 1/6W J
315,316		
R311,334	OB09698A	RK 7.5K 1/6W J
R312	OB09686A	RK 2.4K 1/6W J
R319,332	OB09665A	RK 330 1/6W J
333		
R320	OB09717A	RK 47K 1/6W J
R321	OB05641A	RK 47K 1/4W J
R322,329	OB09677A	RK 1K 1/6W J
337		
R323	OB09719A	RK 56K 1/6W J
R324	OB09699A	RK 8.2K 1/6W J
R325	OB09705A	RK 15K 1/6W J
R326	OB09685A	RK 2.2K 1/6W J
R327	OB09701A	RK 10K 1/6W J
R335	OB09689A	RK 3.3K 1/6W J
R336	OB09646A	RK 51 1/6W J
R347	OB09694A	RK 5.1K 1/6W J
R348	OB09687A	RK 2.7K 1/6W J
CF301,302	OB41818A	Ceramic Filter SFE10.7MX2K-A
CF303,304	OB41746A	Ceramic Filter SFE10.7MS3GH15A
CT332	OB41614A	C Trimmer 30P
C301,303	OB41554A	CC 0.022μ 25V Z
305,309		
310,311		
313,314		
315,318		
319,320		
321,324		
325,328		
331,333		
334,335		
336,337		
C302	OB41294A	CMM 0.047μ 50V J
C312,317	OB41290A	CMM 0.022μ 50V J
C316	OB40079A	CE 220μ 16V
C322	OB01402A	CE 4.7μ 25V
C323	OB09372A	CE 2.2μ 50V
C326,329	OB01405A	CE 1μ 50V
C327	OB40066A	CE 330μ 10V
C330	OB41071A	CC 100P 50V J
C340	OB41404A	CP 560P 50V J
C341	OB40420A	CE 220μ 16V (LN)
C342	OB01412A	CE 10μ 16V
F301	OB11248A	IC Protector ICP-N5
FE301	OB91017A	Front-end FE407-G25
CN2	OB83053A	3P Connector W240
CN7	OB82795A	3P Connector 370mm
TP1	OB81634A	2P-T Post
	OE03555A	Earth Lug (1)
	- AM -	
IC501	OB11243A	IC LA1247
Q501	OB01872A	TR 2SC945L (P,Q)
Q502	OB06129A	FET 2SK117 (Y)
D501	OB12386A	Varicap KV1226Y
D502	OB12363A	SID MA700
L501	OB51235A	Osc. Coil
L502	OB51236A	Ant. Coil

6. SCHEMATIC DIAGRAMS

6.1. IC Block Diagrams

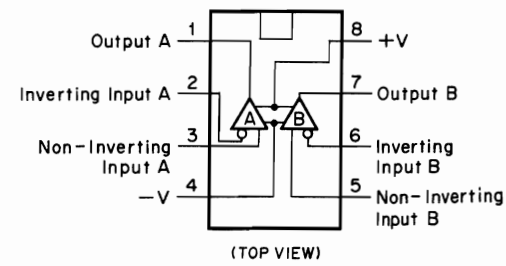


Fig. 6.1.1 Operational Amp. IC 4558DD, 072DE

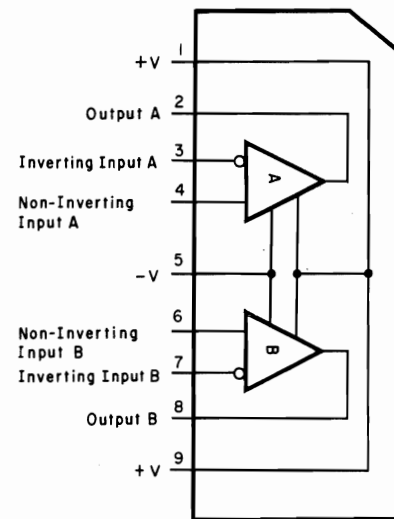


Fig. 6.1.2 Operational Amp. IC 072S

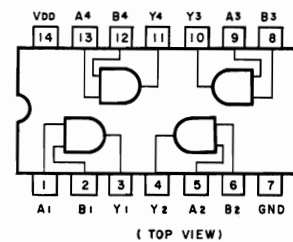


Fig. 6.1.3 AND Gate C-MOS IC μPD4081BC

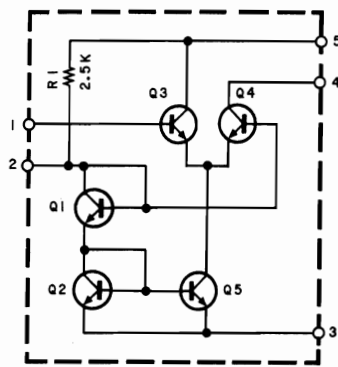


Fig. 6.1.4 FM IF Amp. IC TA7060AP

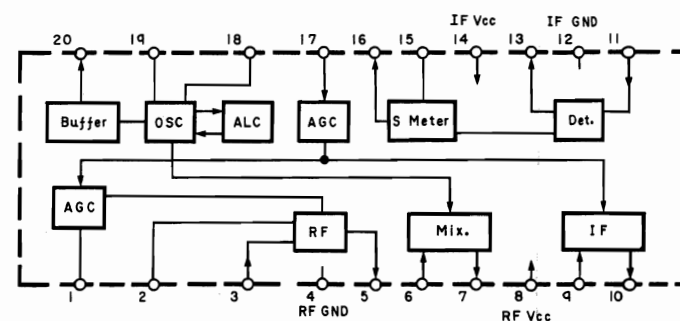


Fig. 6.1.5 AM Tuner IC LA1247

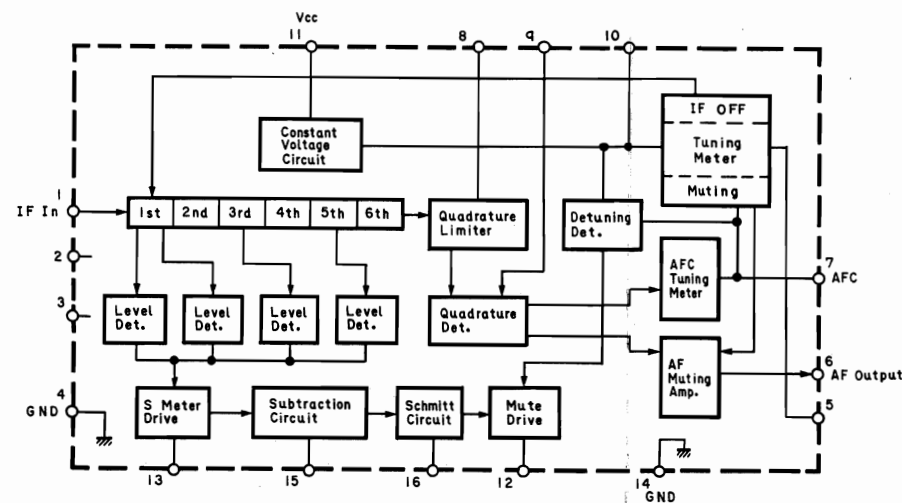


Fig. 6.1.6 FM IF System IC LA1235

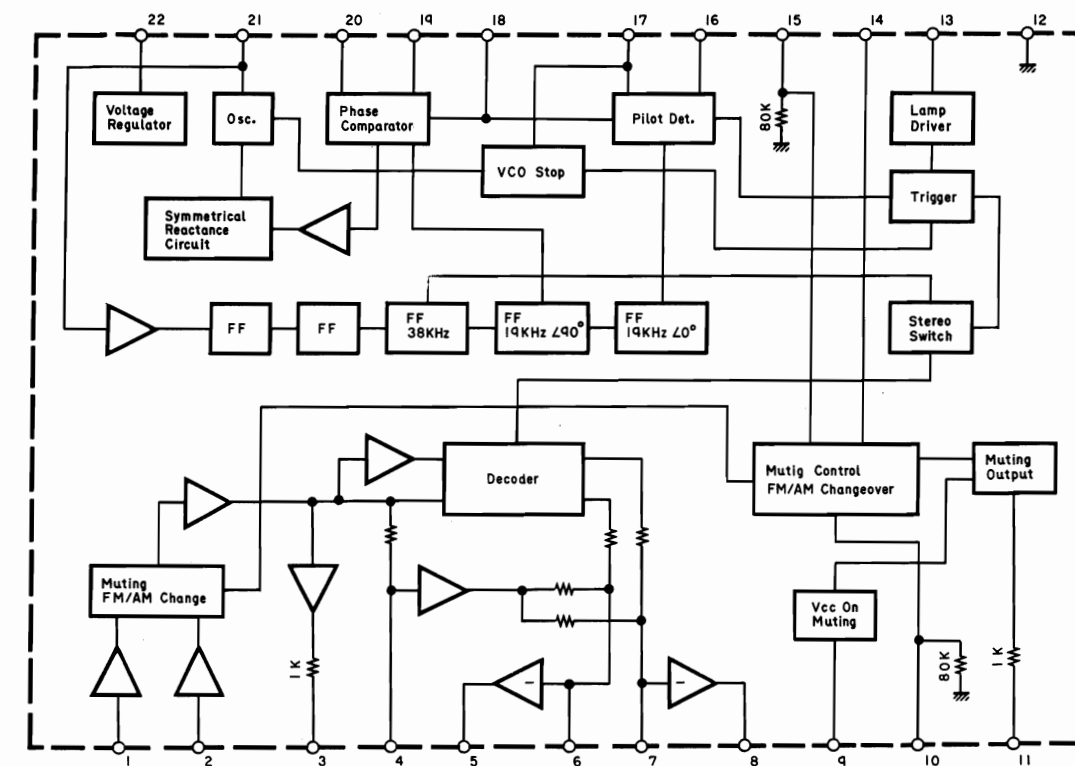


Fig. 6.1.7 FM Stereo Demodulator IC LA3400N

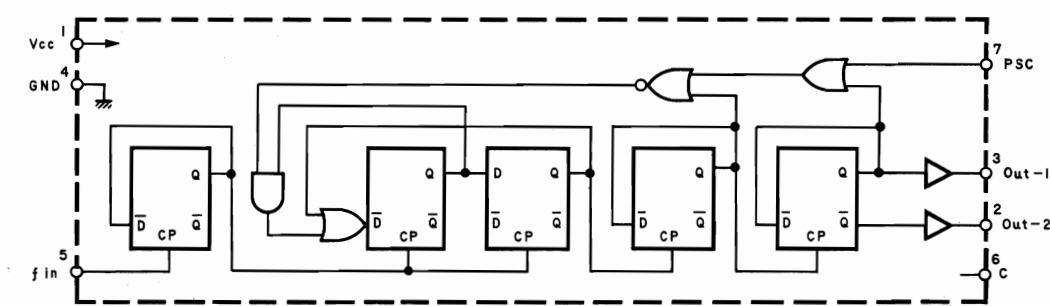


Fig. 6.1.8 ECL Prescaler (FM) IC TD6104

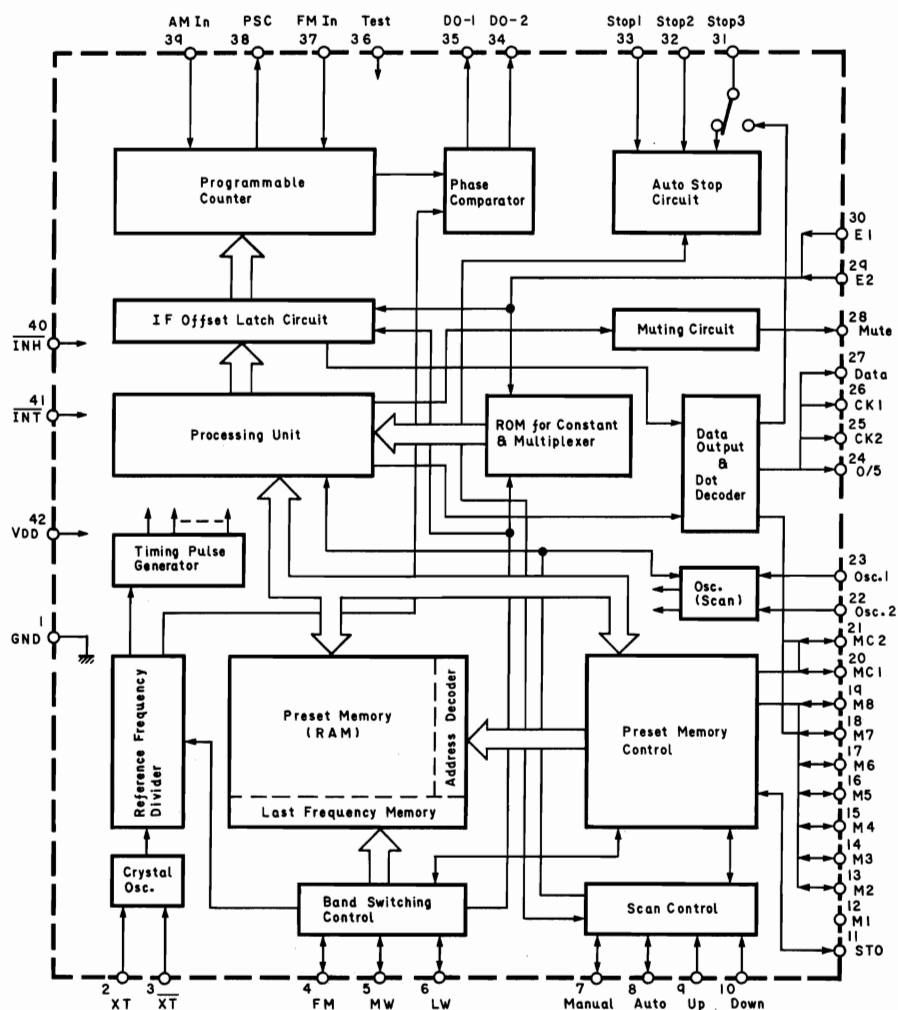


Fig. 6.1.9 FM/MW/LW 3-Band Digital Tuning (Static Method) IC TC9147BP

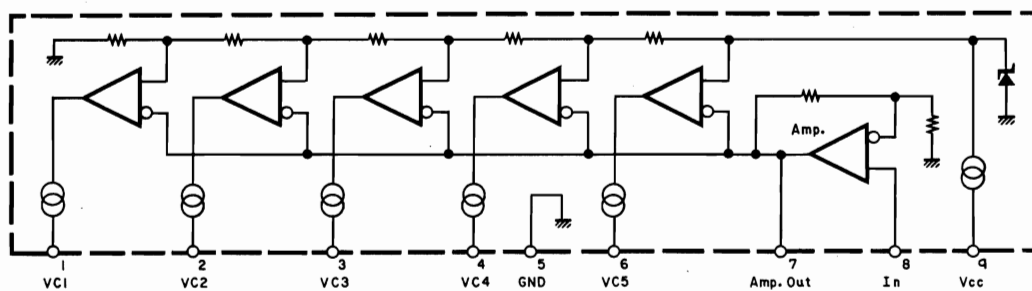


Fig. 6.1.10 Signal Meter Driver IC LB1413N

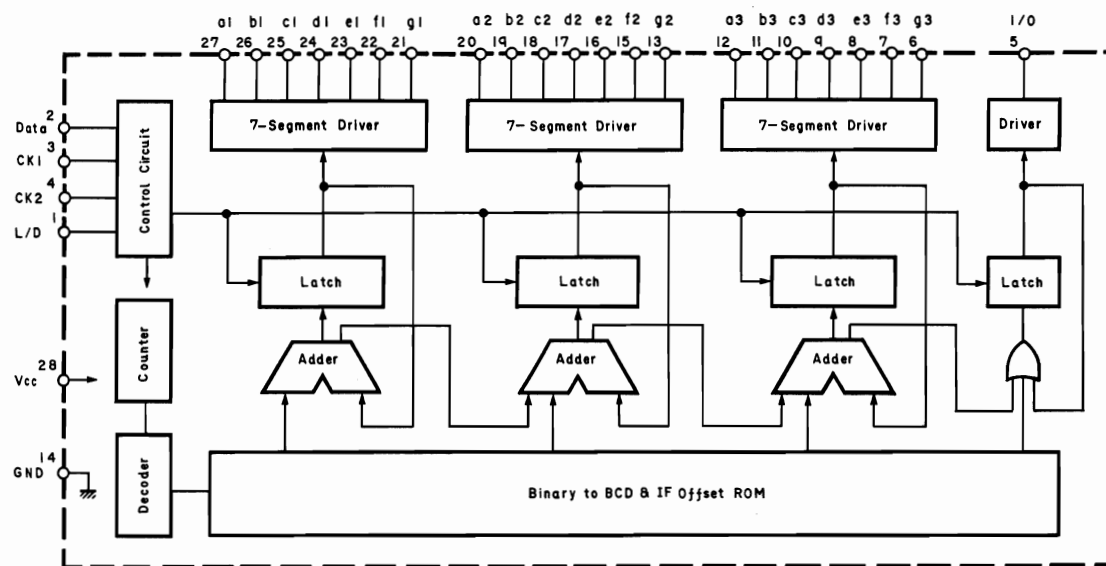


Fig. 6.1.11 Indicator Driver IC TD6301A

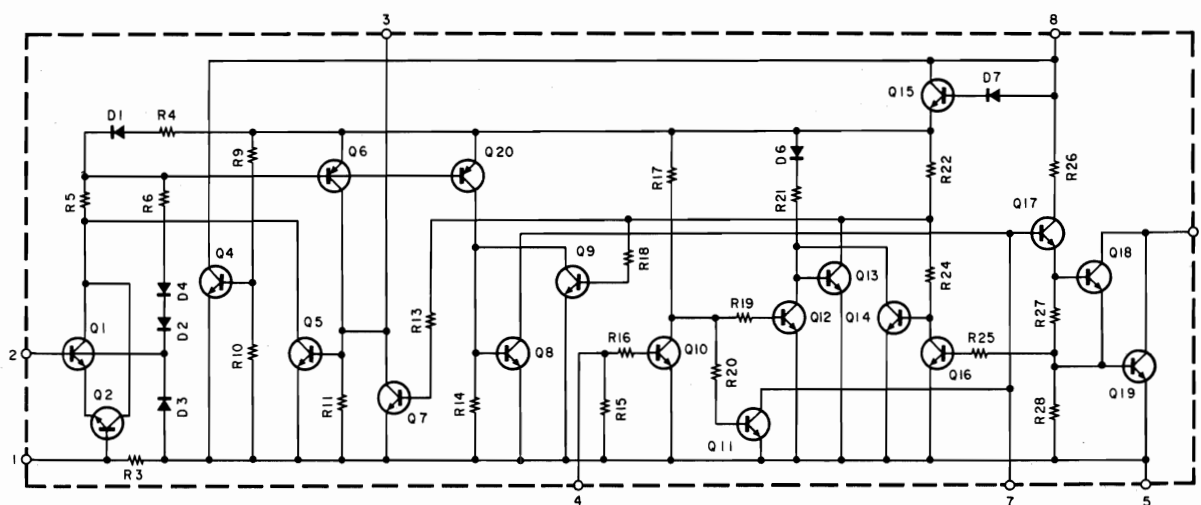


Fig. 6.1.12 Power Amp./Speaker Protector IC μ PC1237H

6.2. Schematic Diagrams
6.2.1. Tuner and Power Supply Section
(1) For SR-2 (Canada) & SR-2A

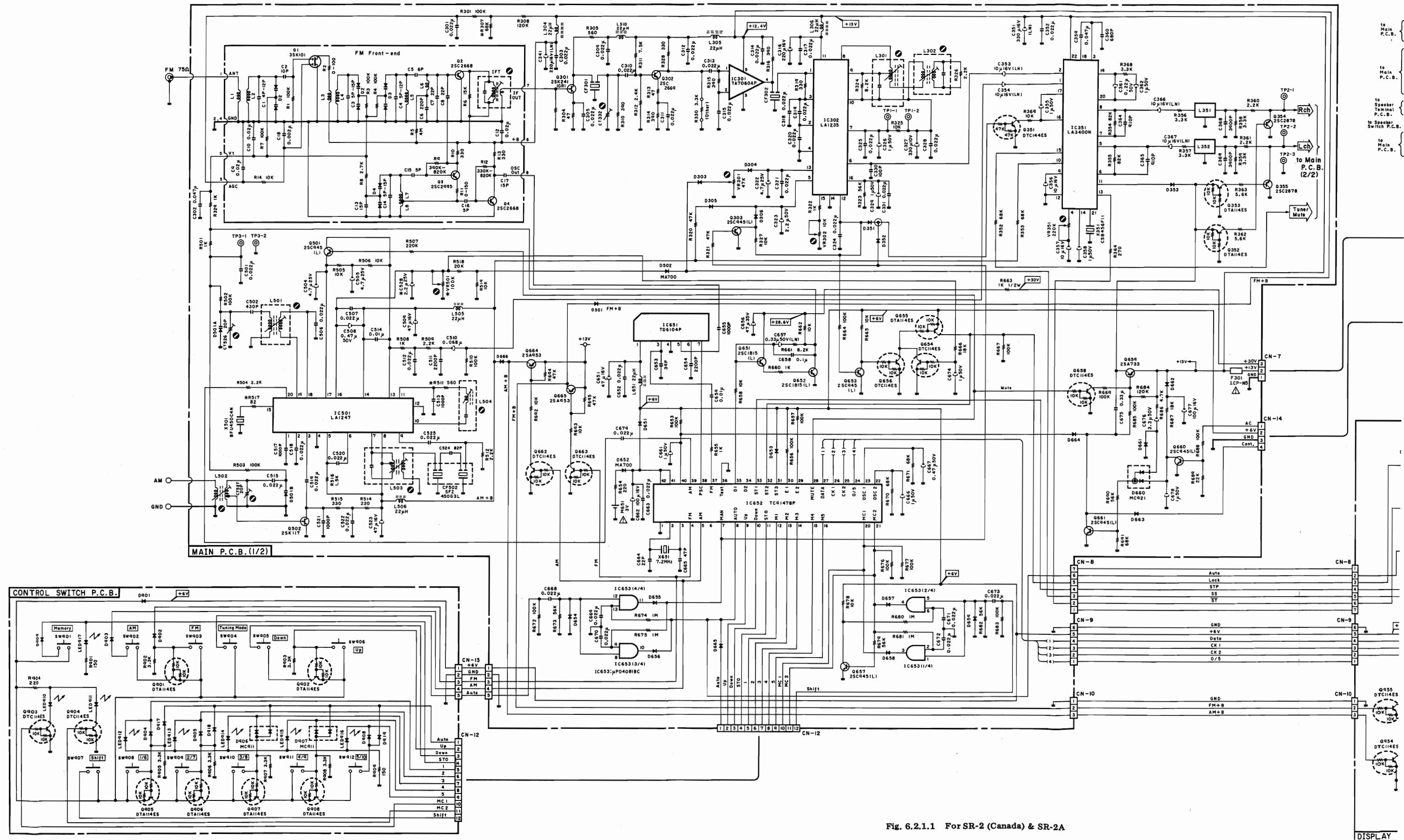


Fig. 6.2.1.1 For SR-2 (Canada) & SR-2A

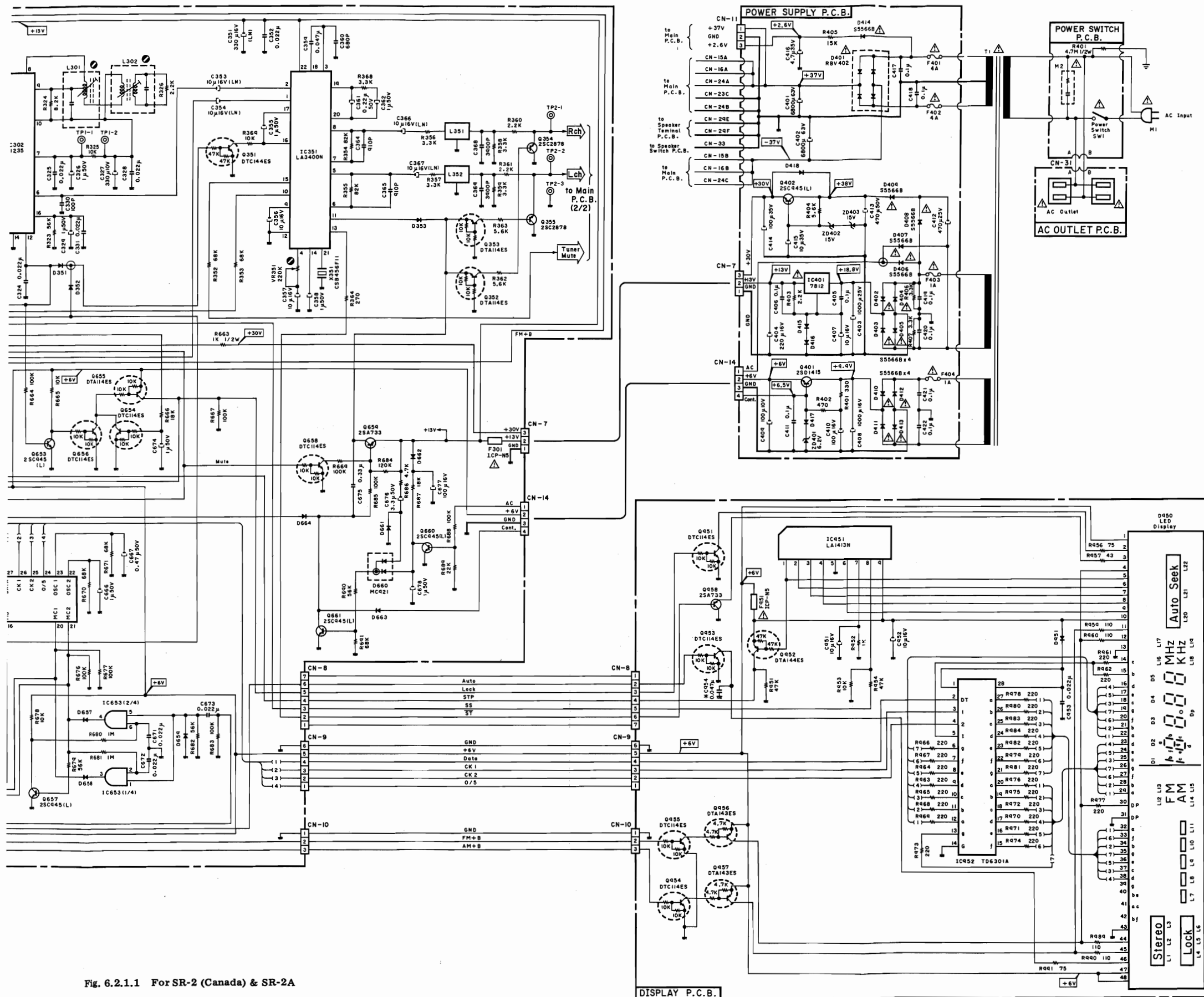



Fig. 6.2.1.1 For SR-2 (Canada) & SR-2A

WARNING:

Parts marked with the symbol  have critical characteristics. Use ONLY replacement parts recommended by the manufacturer. It is recommended that the unit be operated from a suitable DC supply or batteries during initial check-out procedures.

CAUTION:

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamp, or if the resistance from chassis to either side of the power cord is less than 240 k ohms, the unit is defective.

WARNING — DO NOT return the unit to the customer until the problem is located and corrected.

For Lithium Battery:

Use ONLY replacement parts recommended by the manufacturer. Replacement must be done only by qualified service personnel because of risk for explosion.

- Notes:
1. Diode is 1SS53, 1S1555, or 1SS176 unless otherwise specified.
 2. Resistor and capacitor marked with * show typical value.
 3. 2SA733, 2SA608SP, 2SA1048 and 2SA1175 are interchangeable with each other.
 4. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

(2) For SR-2 (Australia & Other)

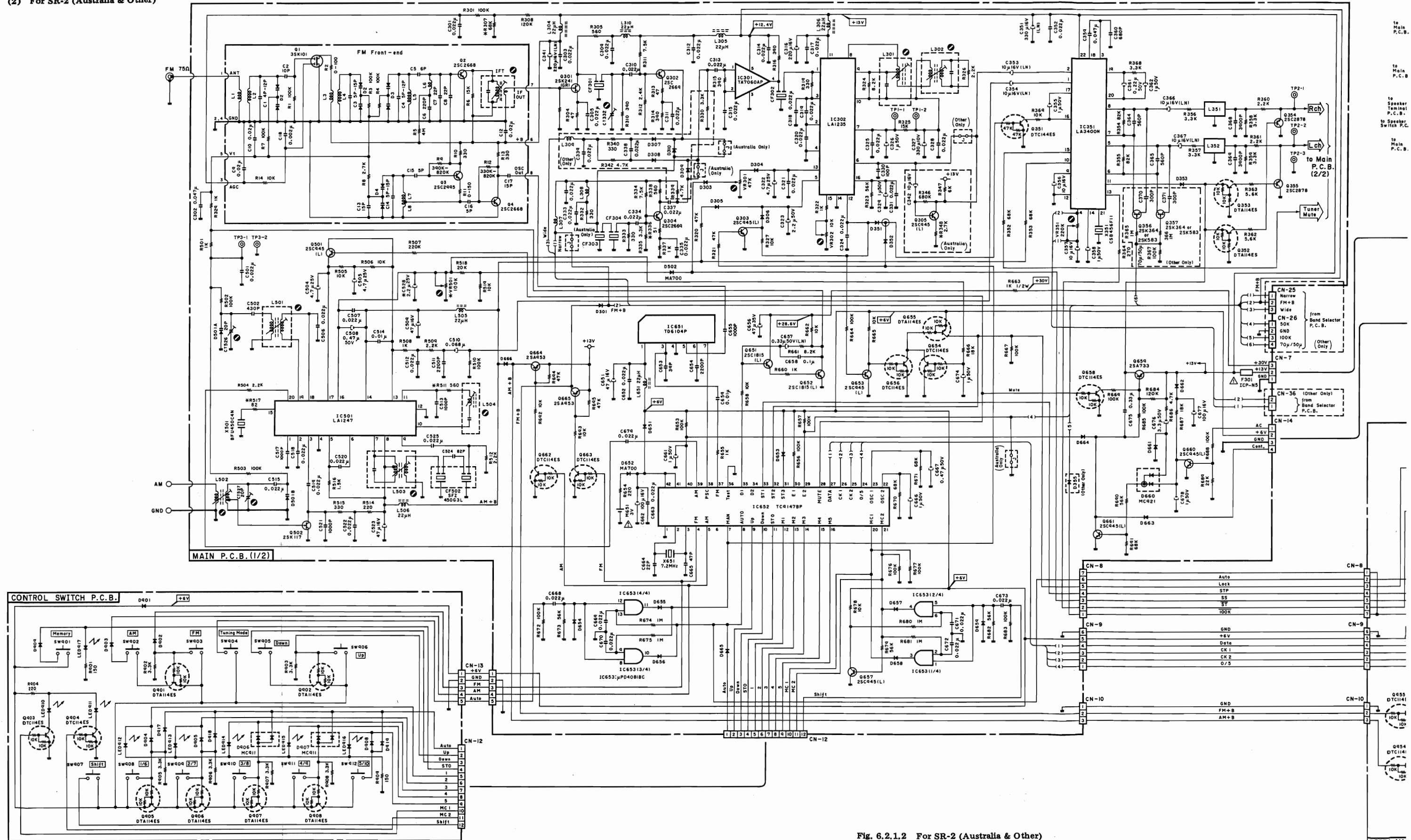


Fig. 6.2.1.2 For SR-2 (Australia & Other)

DISPLAY

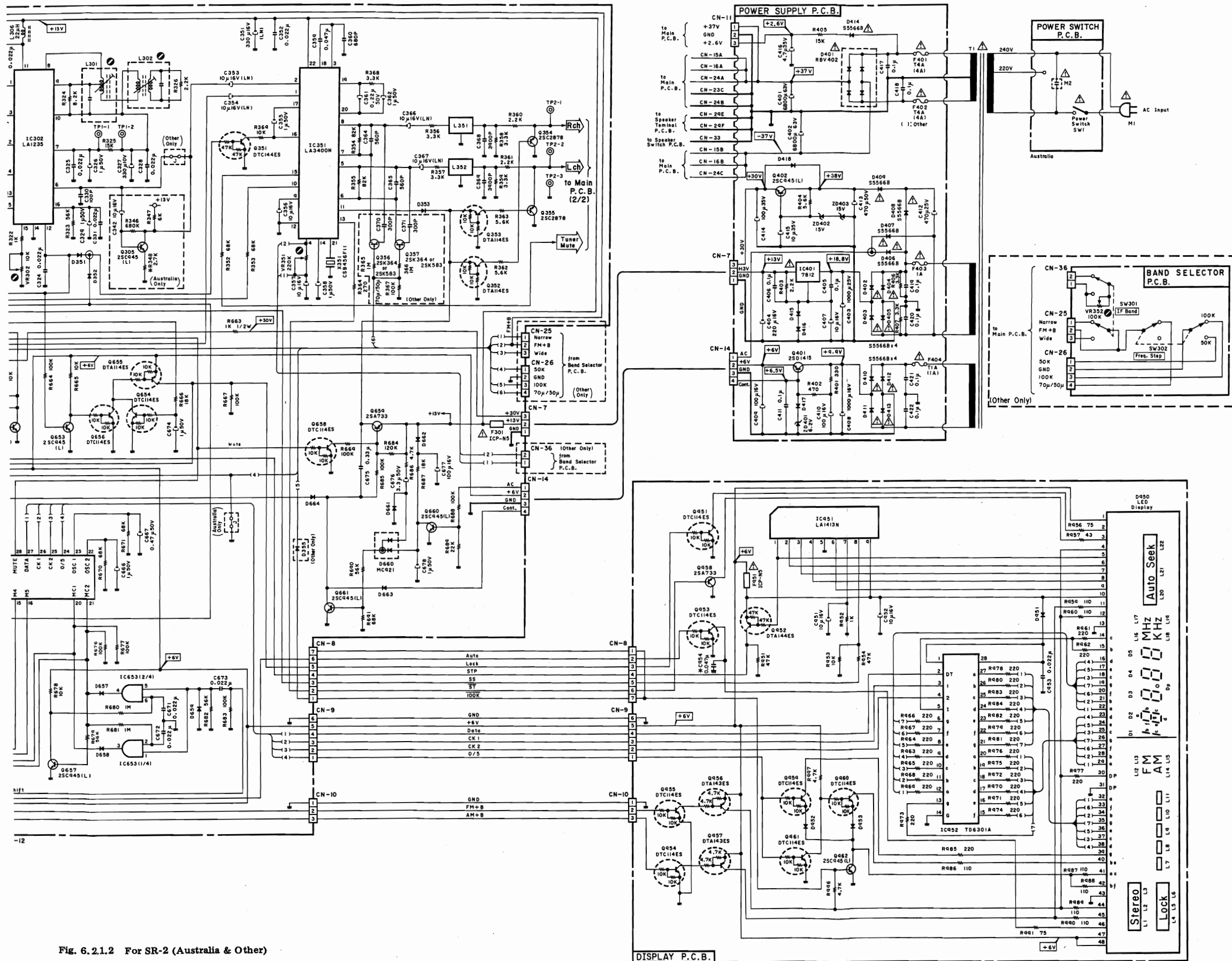



Fig. 6.21.2 For SR-2 (Australia & Other)

WARNING:
Parts marked with the symbol  have critical characteristics.
Use **ONLY** replacement parts recommended by the manufacturer.
It is recommended that the unit be operated from a suitable DC supply or batteries during initial check-out procedures.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamp, or if the resistance from chassis to either side of the power cord is less than 240 k ohms, the unit is defective.
WARNING — DO NOT return the unit to the customer until the problem is located and corrected.

For Lithium Battery:
Use **ONLY** replacement parts recommended by the manufacturer.
Replacement must be done only by qualified service personnel because of risk for explosion.

- Notes:
1. Diode is 1SS53, 1S1555, or 1SS176 unless otherwise specified.
 2. Resistor and capacitor marked with * show typical value.
 3. 2SA733, 2SA608SP, 2SA1048 and 2SA1175 are interchangeable with each other.
 4. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

(3) For SR-2E (Europe & Germany)

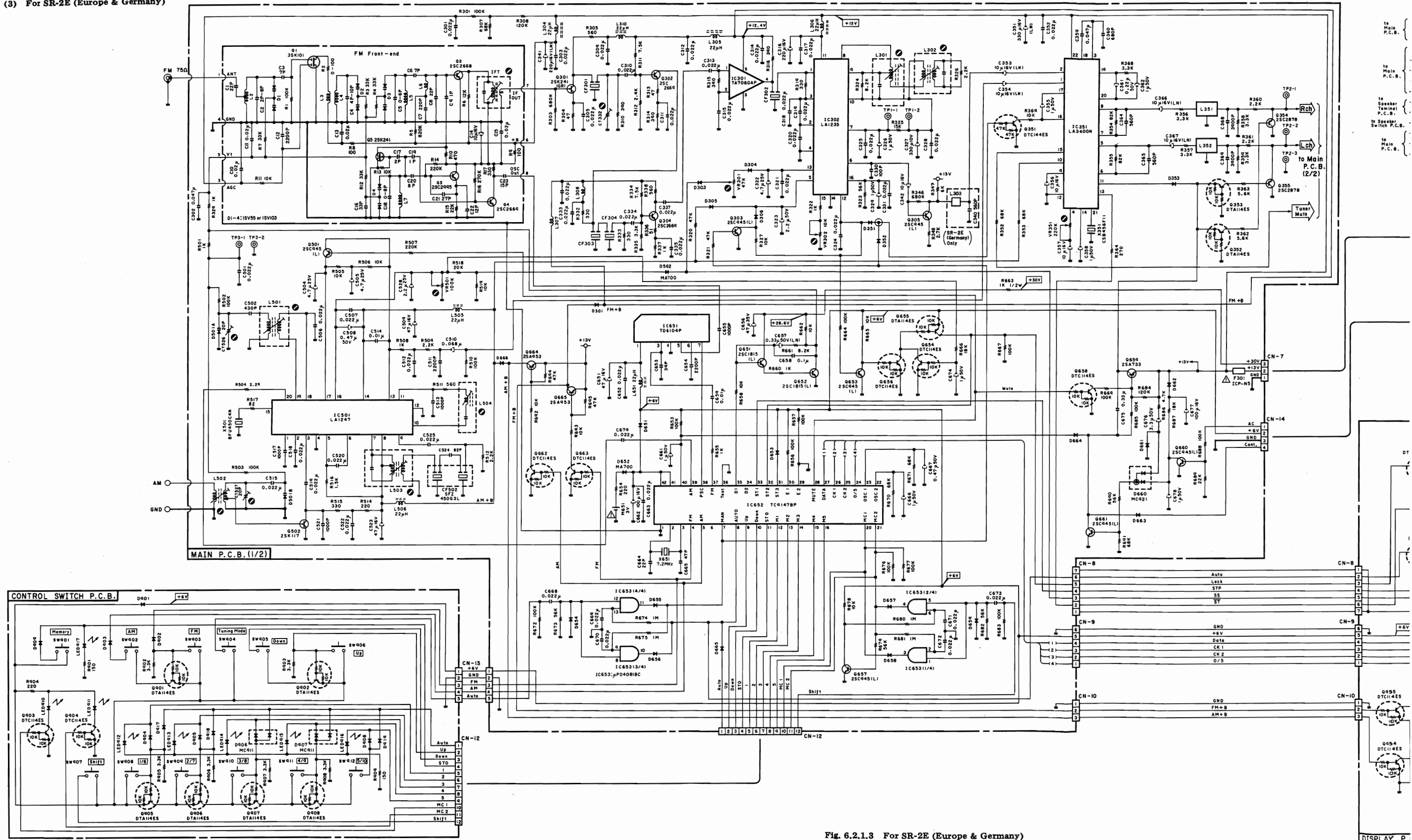


Fig. 6.2.1.3 For SR-2E (Europe & Germany)

6.2.2. Amplifier Section

(1) For SR-2 & SR-2A

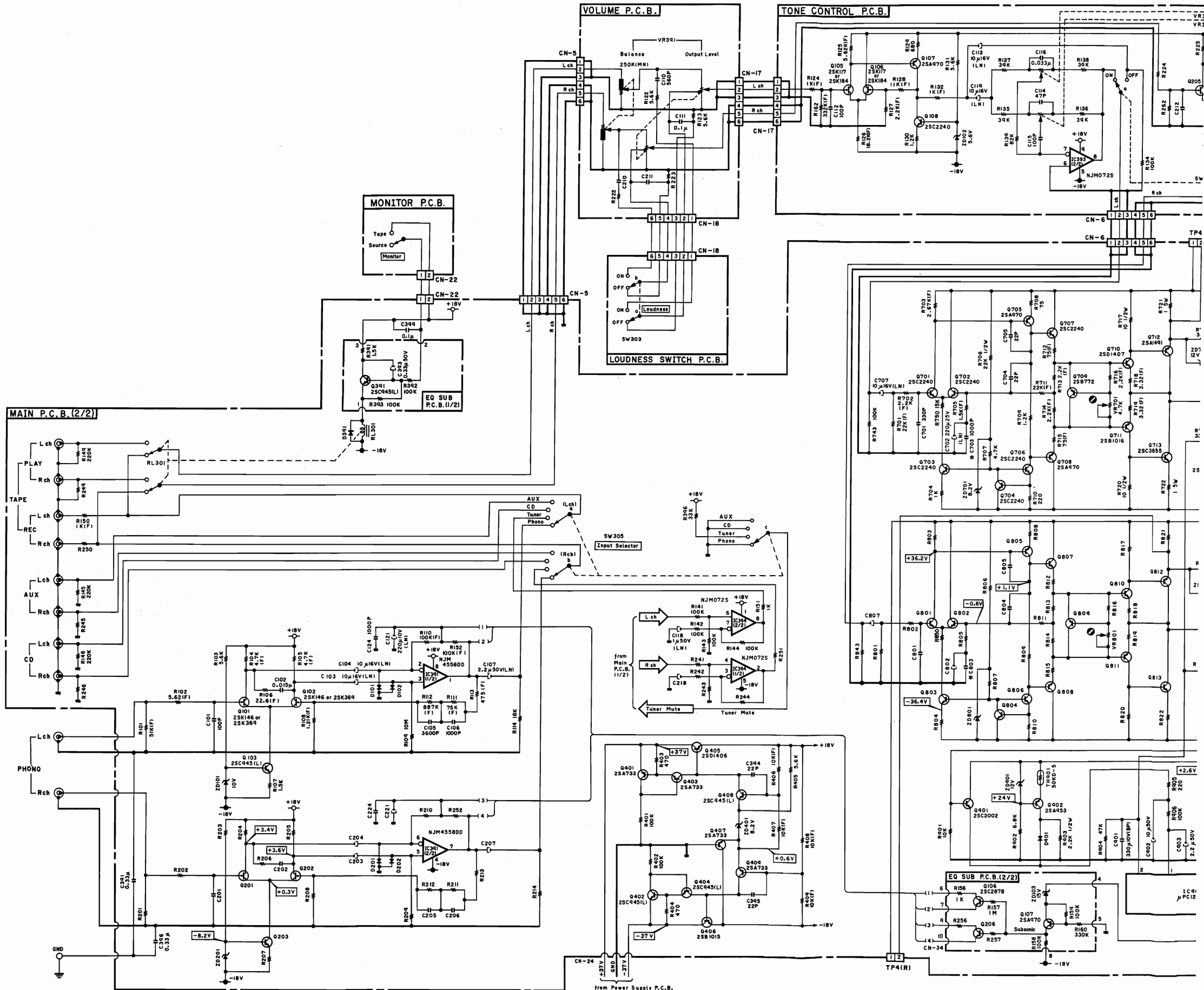
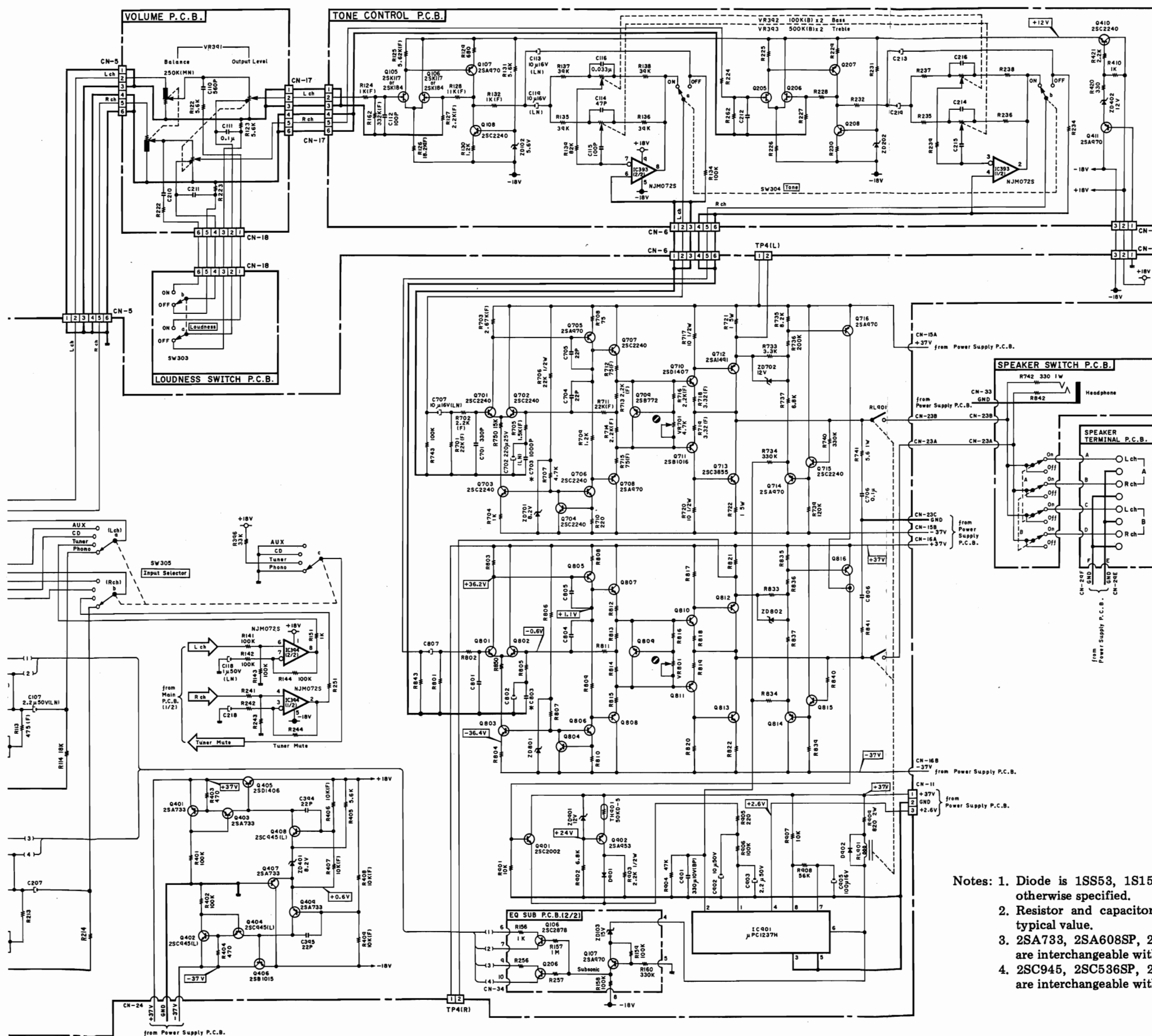
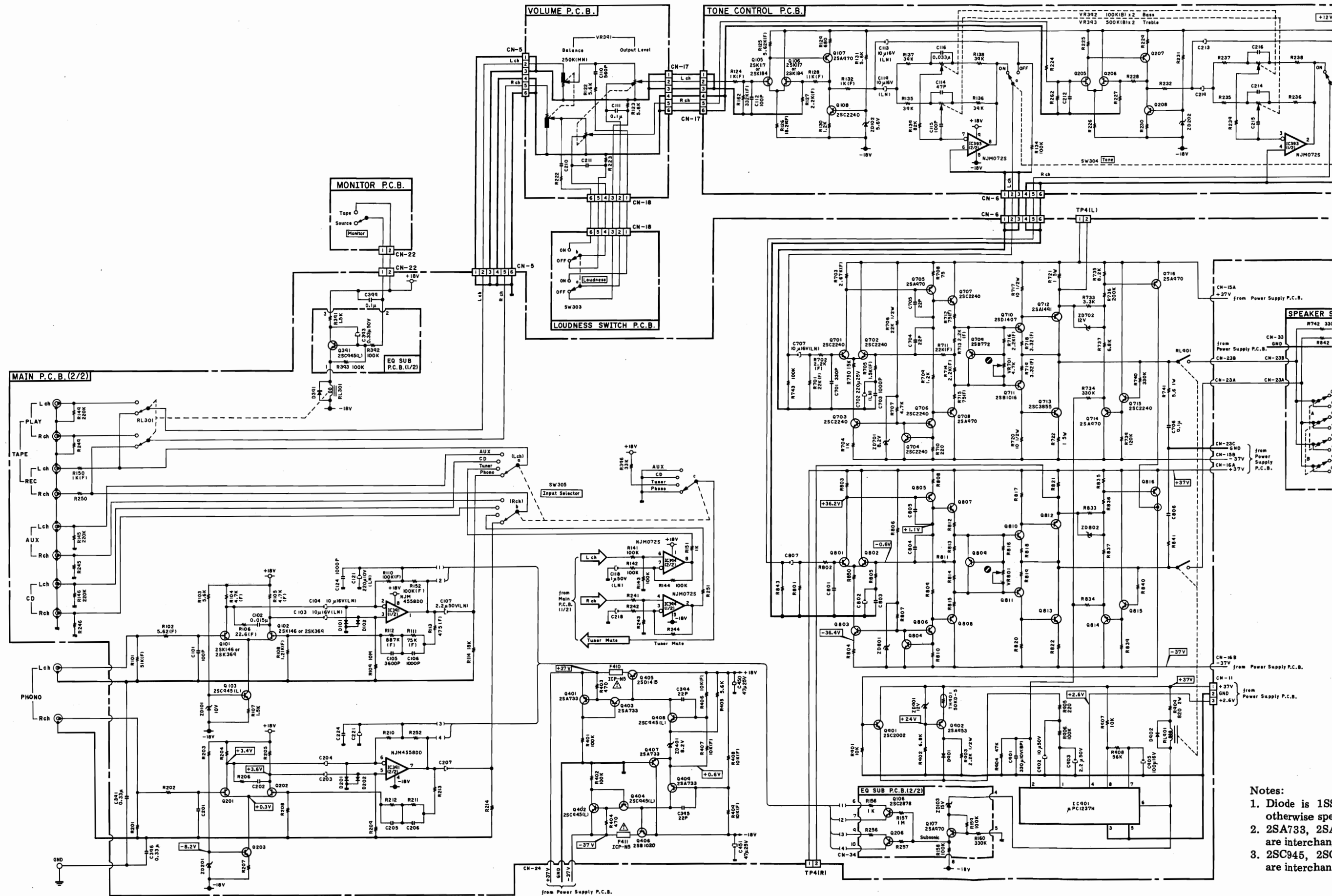


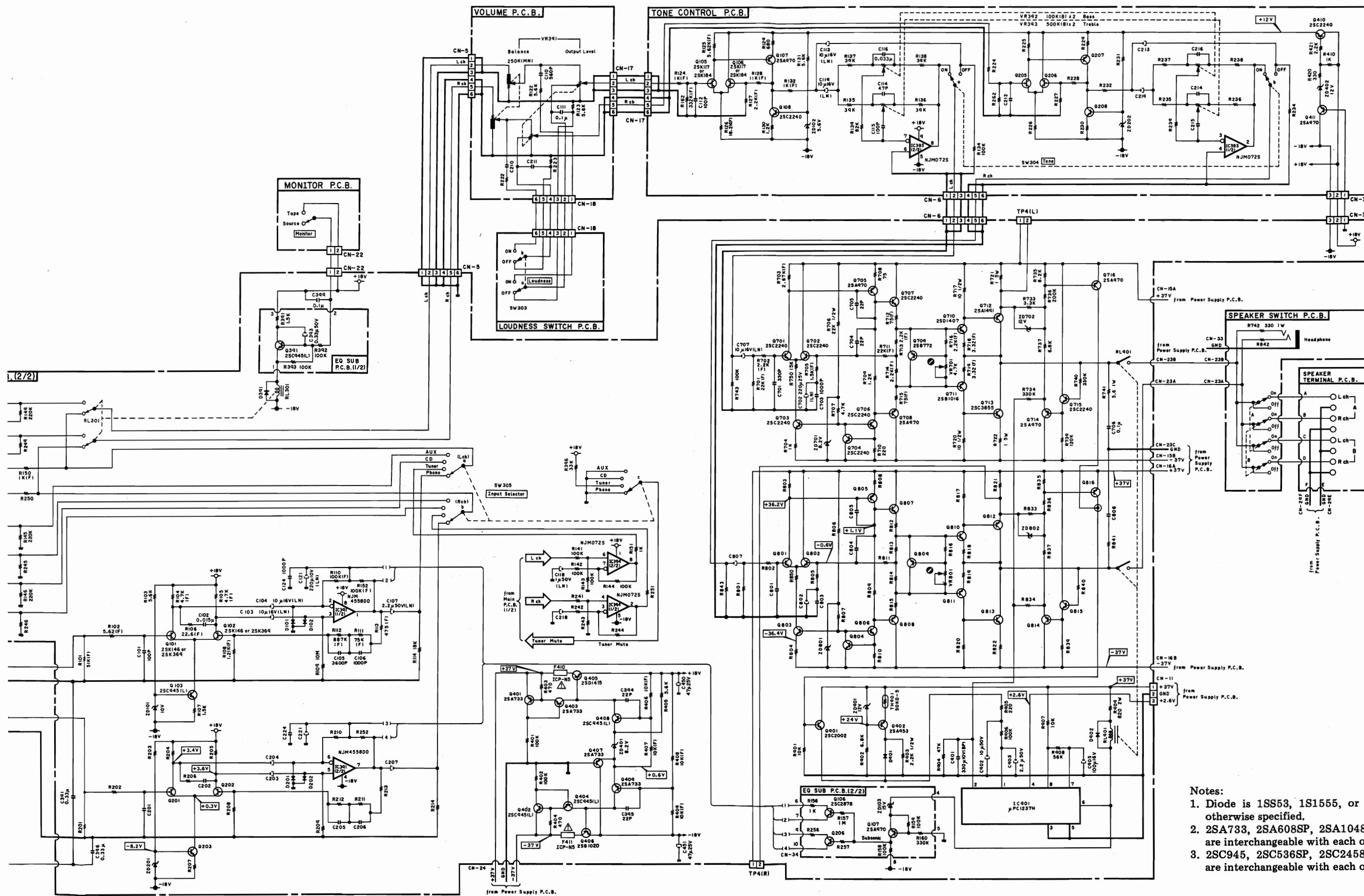
Fig. 6.2.2.1 For SR-2 & SR-2A





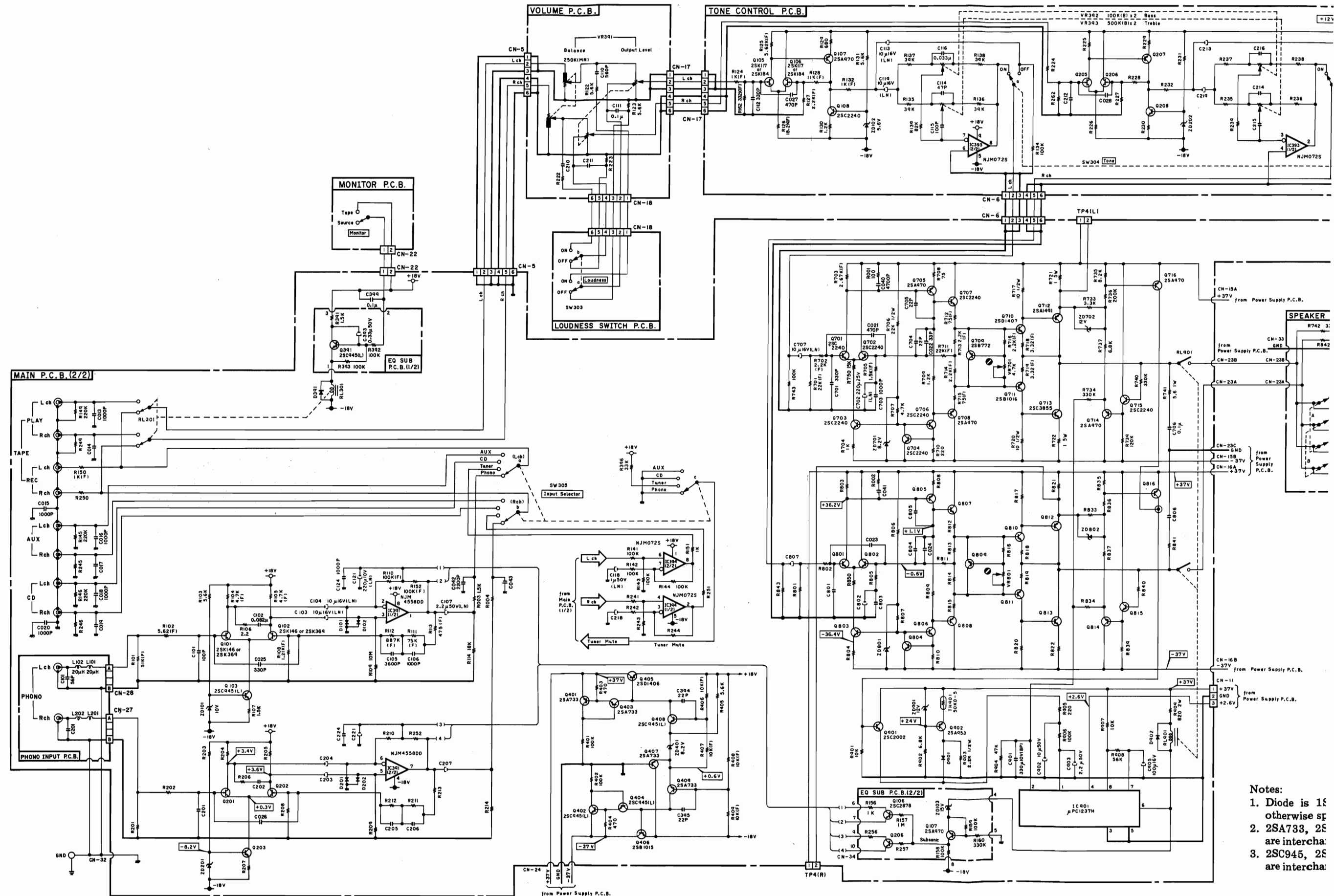
- Notes:
1. Diode is 1S8 otherwise spe
 2. 2SA733, 2SA733 are interchan
 3. 2SC945, 2SC945 are interchan

Fig. 6.2.2.2 For SR-2E (Europe)



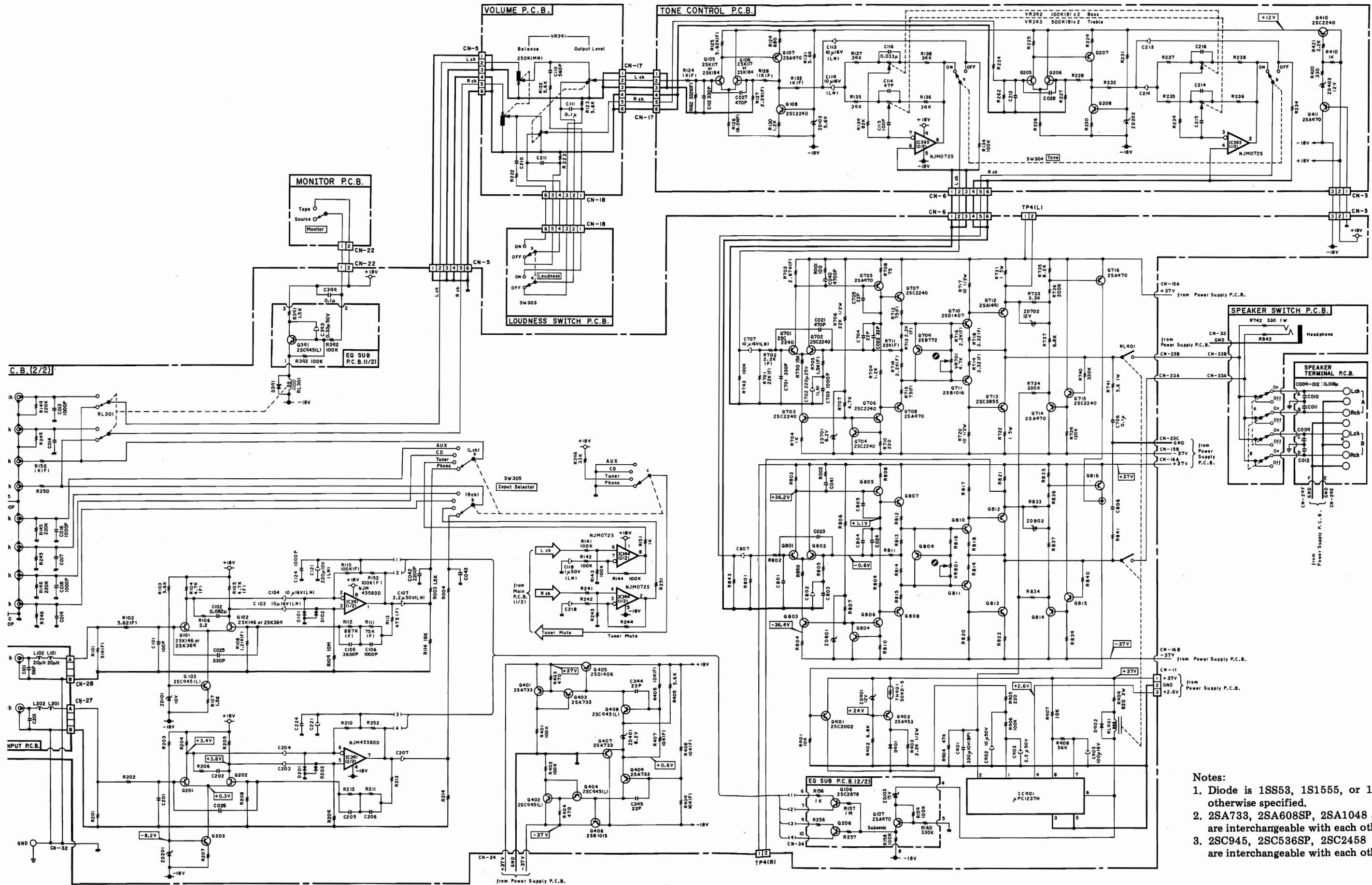
- Notes:
1. Diode is 1SS53, 1S1555, or 1SS176 unless otherwise specified.
 2. 2SA733, 2SA608SP, 2SA1048 and 2SA1175 are interchangeable with each other.
 3. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

Fig. 6.2.2.2 For SR-2E (Europe)



- Notes:
1. Diode is 18 otherwise sp
 2. 2SA733, 2S are intercha
 3. 2SC945, 2S are intercha

Fig. 6.2.2.3 For SR-2E (Germany)

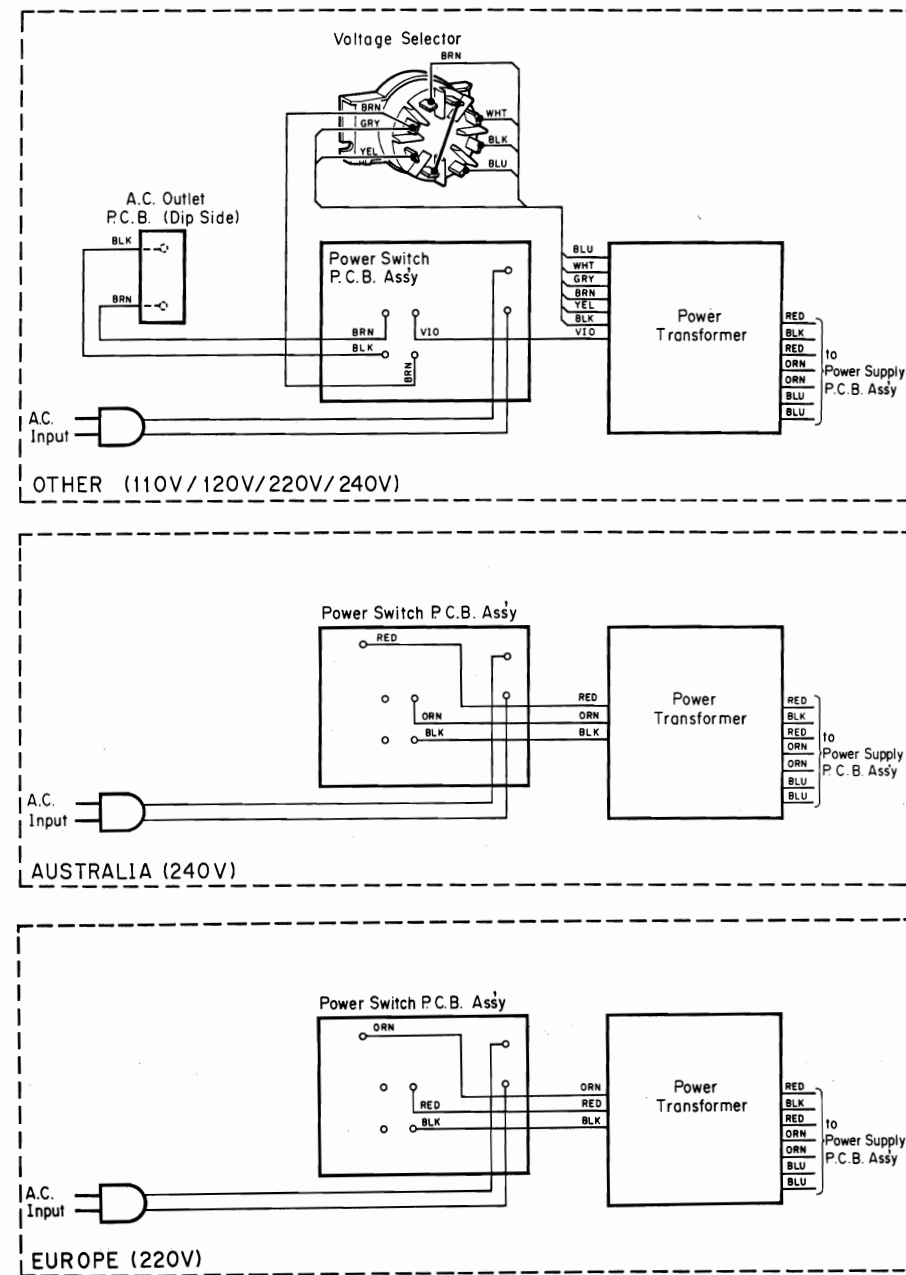


- Notes:
1. Diode is 1SS53, 1S1555, or 1SS176 unless otherwise specified.
 2. 2SA733, 2SA608SP, 2SA1048 and 2SA1175 are interchangeable with each other.
 3. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

Fig. 6.2.2.3 For SR-2E (Germany)

7. WIRING DIAGRAMS

(1) For SR-2, SR-2A & SR-2E (Europe)



Notes: 1. Table of wire colors

BRN — Brown	BLU — Blue
RED — Red	VIO — Violet
ORN — Orange	GRY — Gray
YEL — Yellow	WHT — White
GRN — Green	BLK — Black

- Component side view of the P.C.B. is illustrated unless otherwise specified.
- CN-36 on the Main P.C.B. Assy and the Band Selector P.C.B. Assy are not mounted for the former Models.

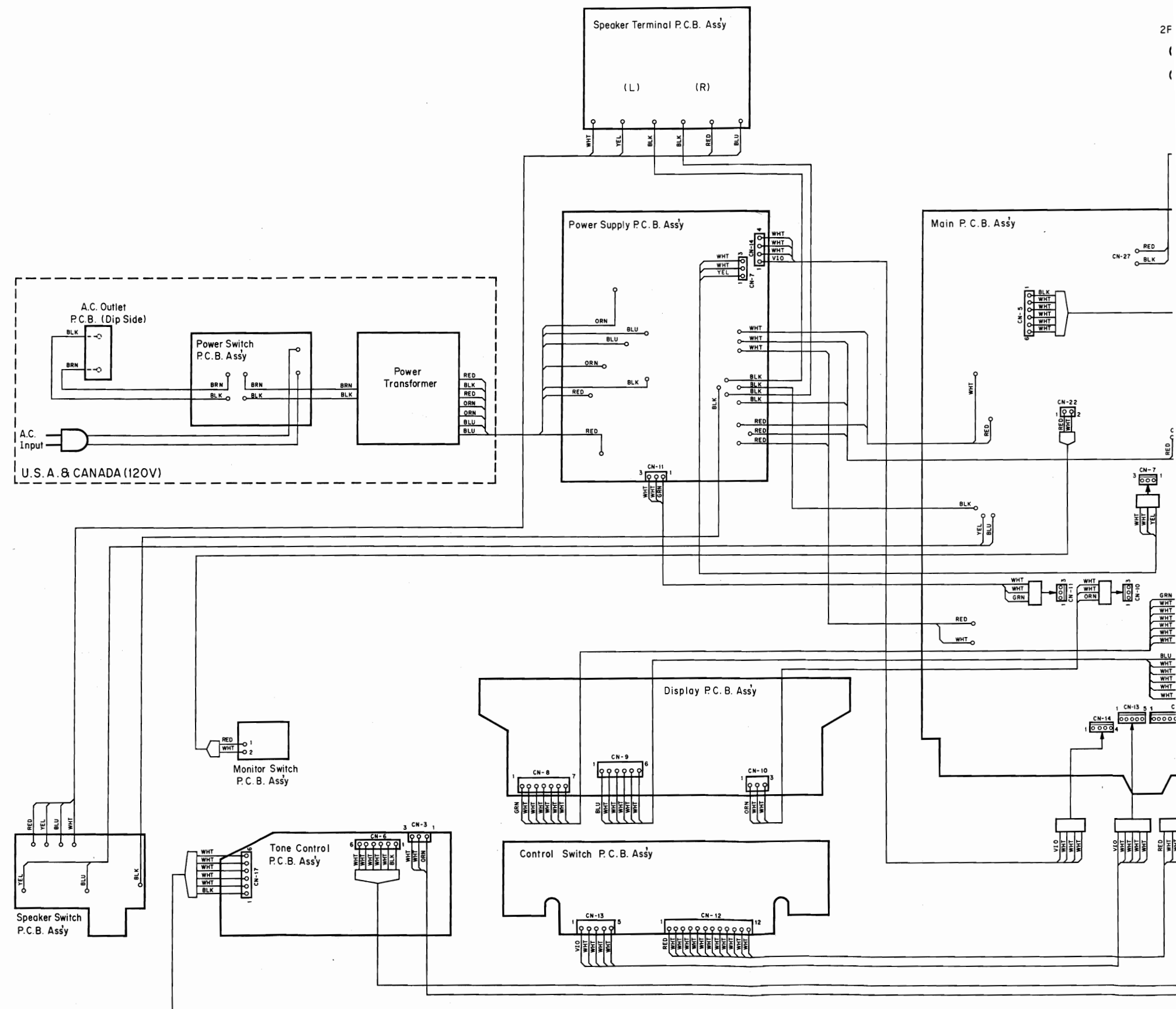


Fig. 7.1 For SR-2, SR-2A & SR-2E (Europe)

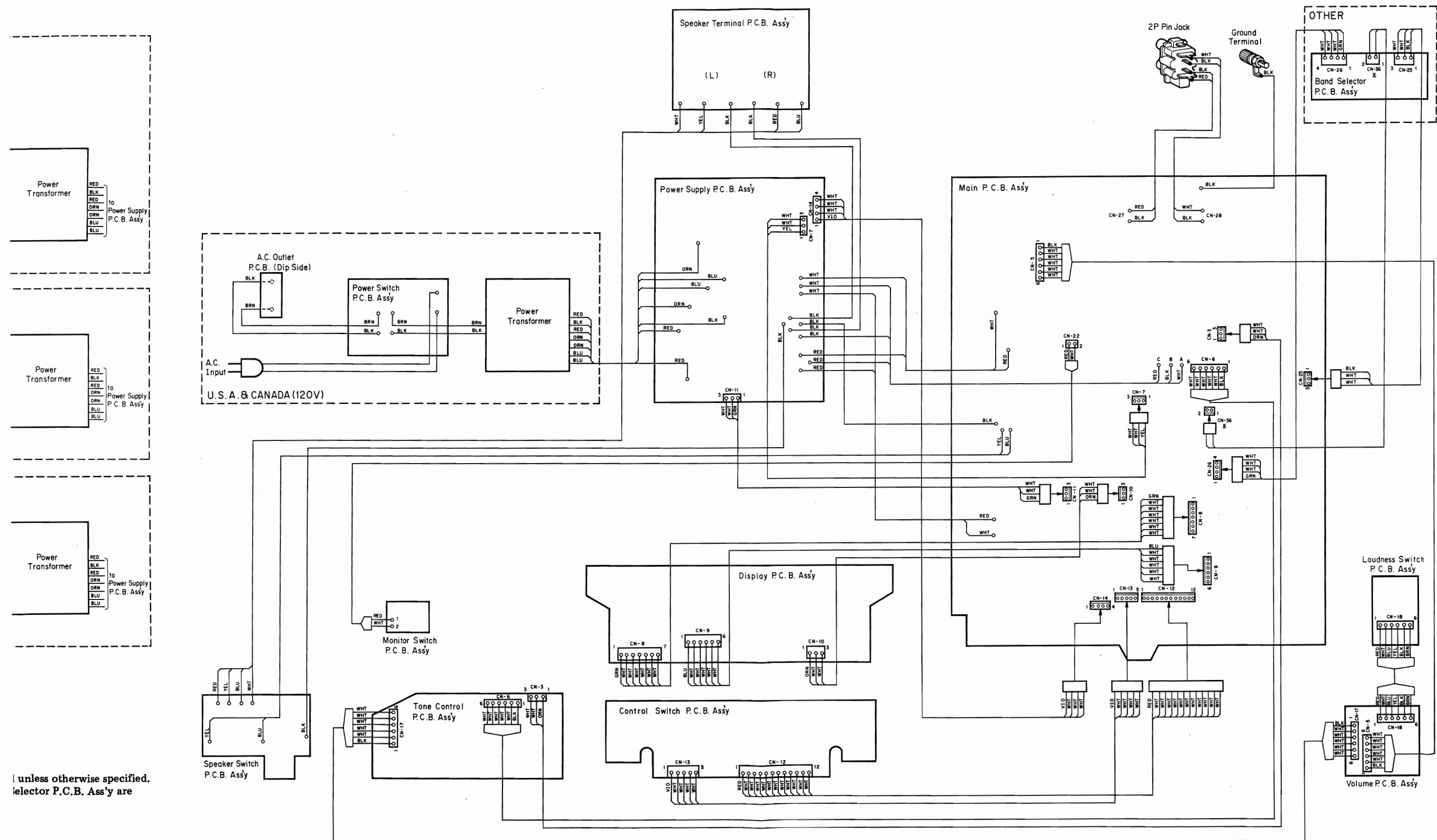


Fig. 7.1 For SR-2, SR-2A & SR-2E (Europe)

(2) For SR-2E (Germany)

Notes: 1. Table of wire colors

BRN — Brown	BLU — Blue
RED — Red	VIO — Violet
ORN — Orange	GRY — Gray
YEL — Yellow	WHT — White
GRN — Green	BLK — Black

2. Component side view of the P.C.B. is illustrated unless otherwise specified.

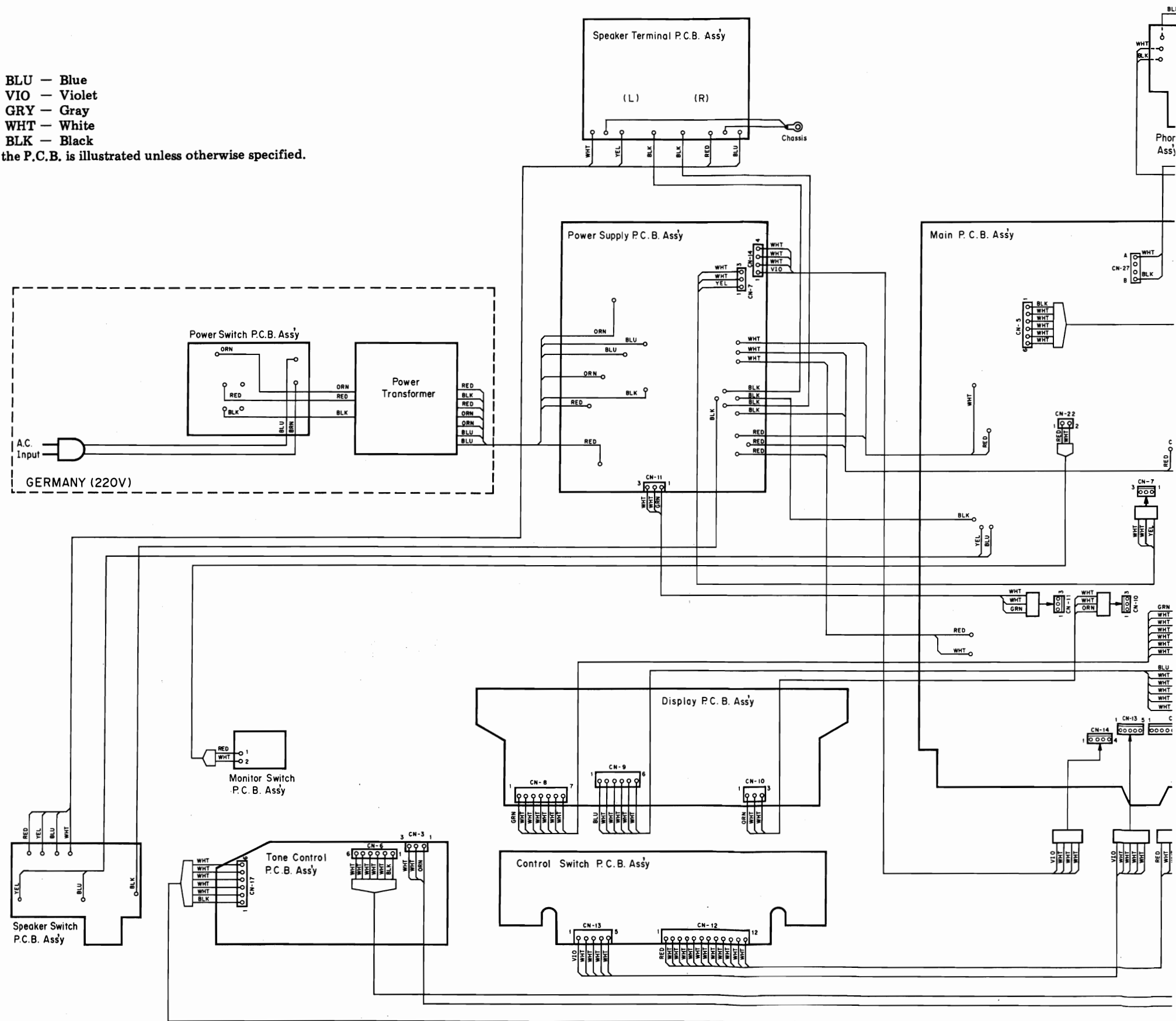


Fig. 7.2 For SR-2E (Germany)

2) For SR-2E (Germany)

Notes: 1. Table of wire colors

BRN — Brown	BLU — Blue
RED — Red	VIO — Violet
ORN — Orange	GRY — Gray
YEL — Yellow	WHT — White
GRN — Green	BLK — Black

2. Component side view of the P.C.B. is illustrated unless otherwise specified.

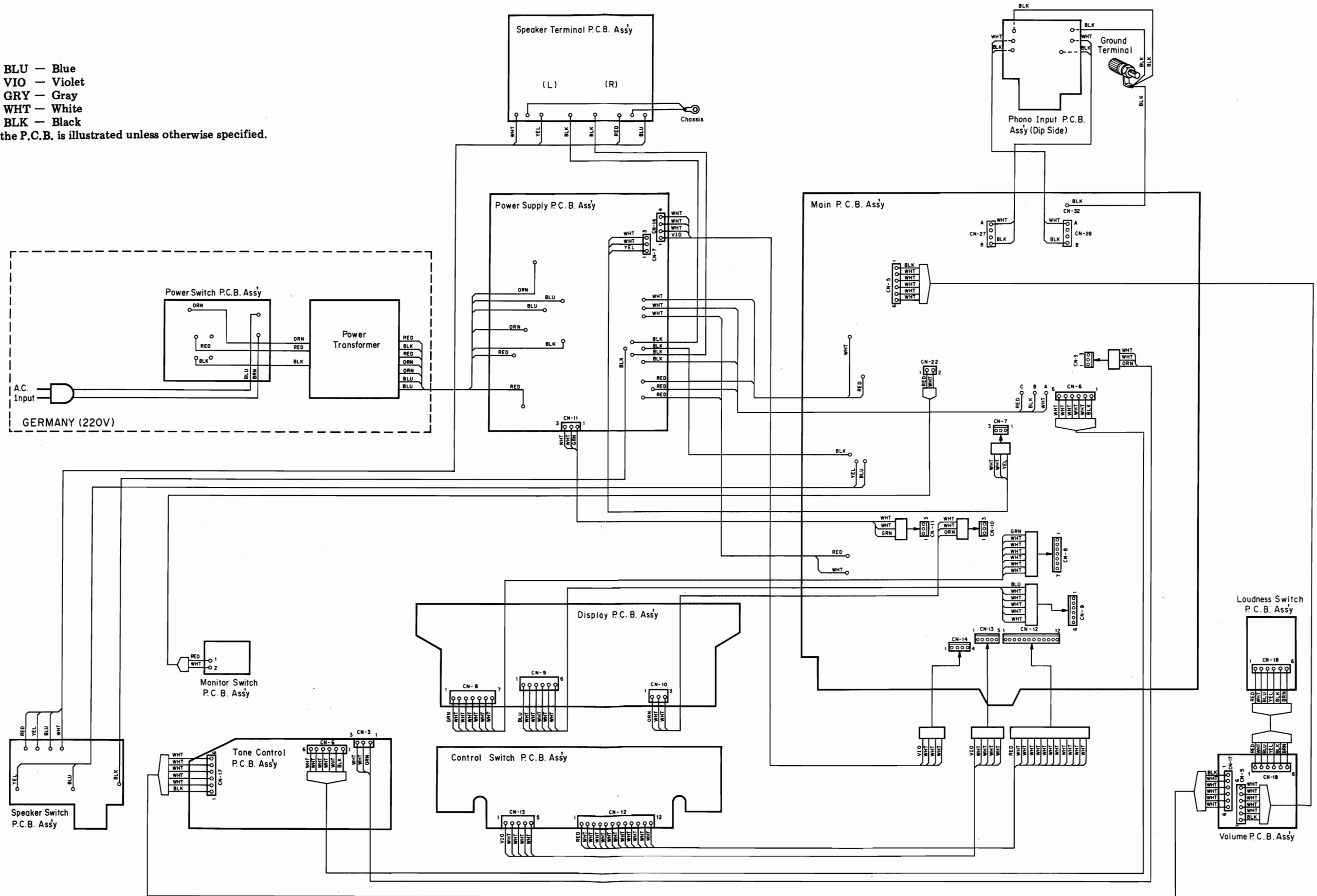


Fig. 7.2 For SR-2E (Germany)

8. BLOCK DIAGRAMS

8.1. Tuner Section

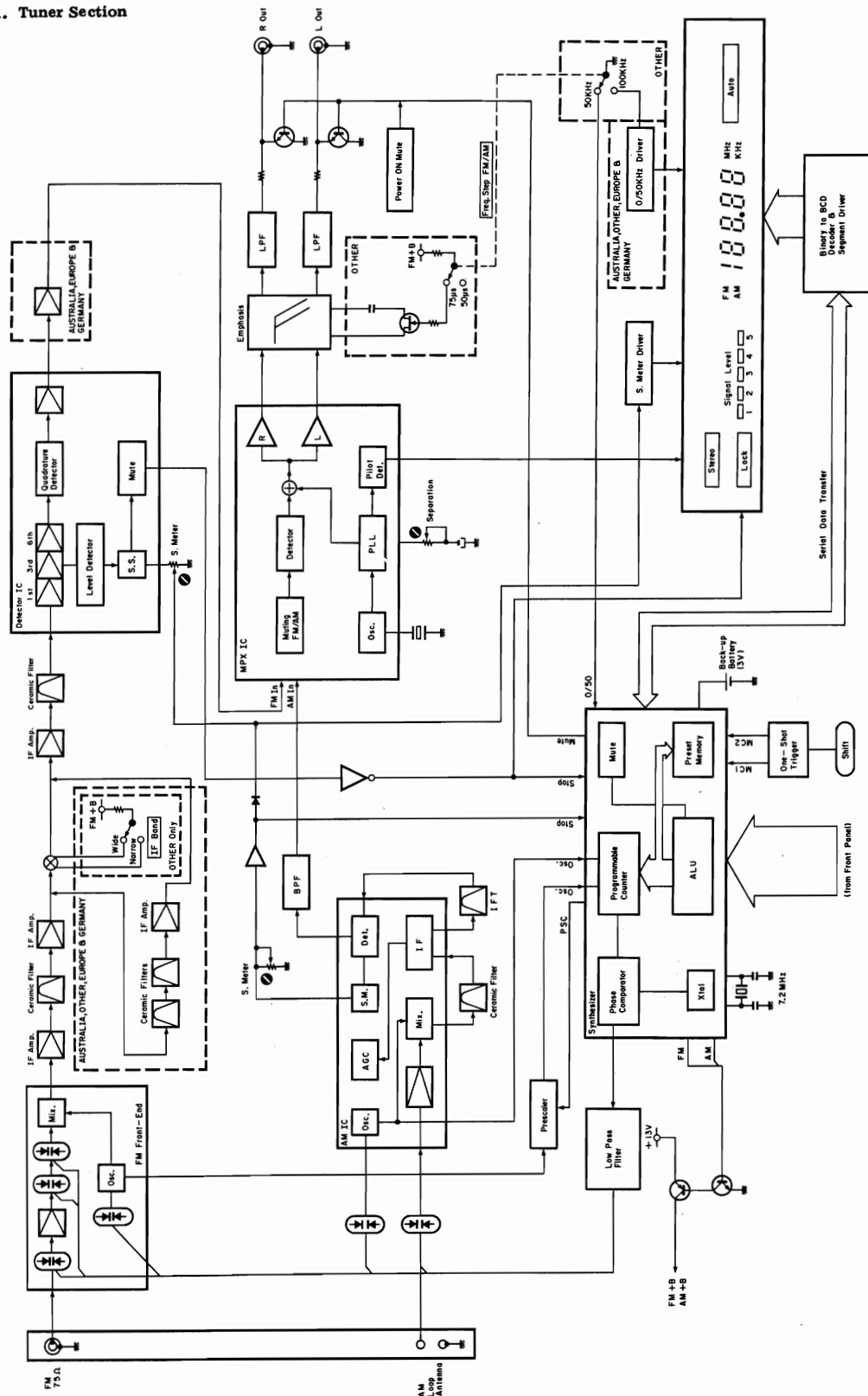


Fig. 8.1

8.2. Amplifier Section

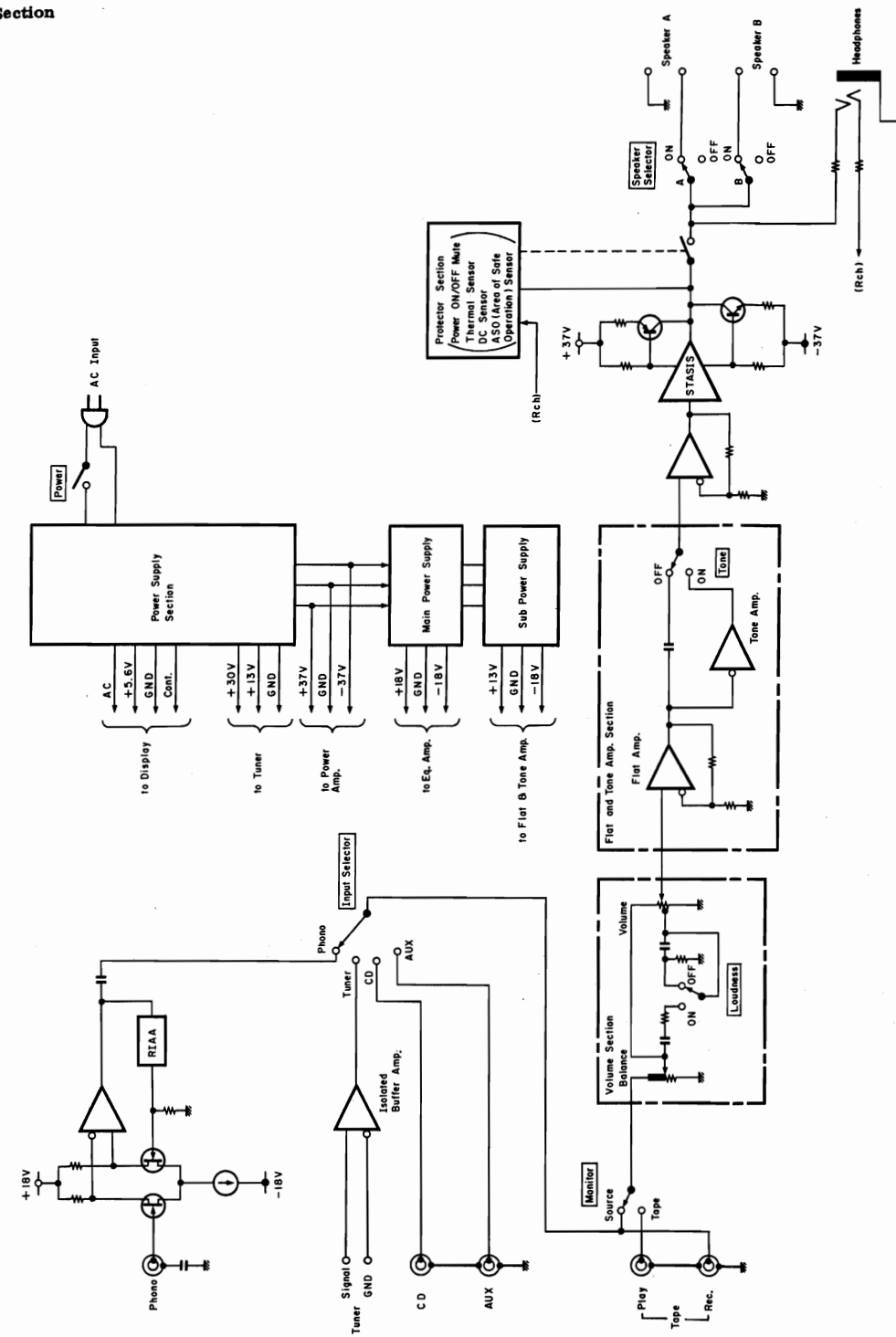


Fig. 8.2

9. SPECIFICATIONS

9.1. For SR-2 & SR-2A

Power Amplifier Section

Note: Unless otherwise noted specifications are in accordance with IHF-A-202 measured from any high-level input (CD/AUX/TAPE) to the speaker output.

Continuous Average Output . . . 30 watts per channel into 8 ohms, both channels driven, 20—20,000 Hz at no greater than 0.1% THD
Power 45 watts per channel into 8 ohms
Dynamic Output Power 55 watts per channel into 4 ohms
Dynamic Head Room (8 ohms) . 1.7 dB
Power Bandwidth 5—40,000 Hz
Frequency Response 20—20,000 Hz; +0, —0.5 dB
5—75,000 Hz; +0, —3 dB
Signal to Noise Ratio Better than 105 dB re Rated Power
(A-WTD, Input Shorted) Better than 85 dB (IHF-A-202)
Total Harmonic Distortion Less than 0.1%
(8 ohms, Rated Power,
20 Hz—20 kHz)
Intermodulation Distortion Less than 0.15%
(8 ohms, Rated Power,
60 Hz:7 kHz, 4:1)
Headphone Rated Output 70 mW
(40 ohms)
Output Current Capability 14A peak per channel

Preamplifier Section

Note: Unless otherwise noted, specifications are in accordance with IHF-A-202. Except for Sensitivity, S/N, Tone and Loudness characteristics (which are measured to the speaker outputs), measurements are made from the specified input to Rec. Out.

Sensitivity: (for rated Output)

Phono MM 2.5 mV
CD/Tape 200 mV

Sensitivity: (for 1-watt output per IHF-A-202)

Phono MM 0.46 mV
CD/Tape 36.5 mV

Input Impedance

Phono MM 47 kohms
CD/Tape 22 kohms

Maximum Input Level (1 kHz)

Phono MM 140 mV
Record Output Level/ 200 mV/1 kohms

Impedance

Total Harmonic Distortion (1 kHz, to Rec Out, at 1 V)

Phono MM Less than 0.002%

RIAA Deviation

Phono MM 30—20,000 Hz ± 0.5 dB

Signal to Noise Ratio (to speaker output per IHF-A-202)

Phono MM Better than 80 dB

Tone Controls

Bass 20 Hz, ± 10 dB
Treble 20 kHz, ± 10 dB

Loudness (Volume: —30 dB) . . 20 Hz, +10 dB; 20 kHz, +6 dB

Tuner Section

(1) SR-2 (Canada & Other (see Note)) & SR-2A

Note: Selector switch settings for Other Model

Frequency Step FM/AM: 100 kHz/10 kHz, De-emphasis: 75 μ s,
IF Band: Wide

[FM Section]

Note: All RF levels in microvolts given re 300-ohm antenna input. Modulation: Mono 100%, Stereo Pilot 9%, Stereo Audio Signal 91%. All measurements made at Rec. Out jack.

Frequency Range 87.5—108.0 MHz in 100 kHz steps

IHF Usable Sensitivity 11 dBf/1.9 μ V

(Mono)

50-dB Quieting Sensitivity

Mono 14.7 dBf/3.0 μ V
Stereo 37.5 dBf/41.1 μ V

Signal to Noise Ratio at 65 dBf

Mono Better than 79 dB
Stereo Better than 74 dB

Muting Threshold 30 dBf/17.3 μ V

Frequency Response 20—15,000 Hz ± 1 dB

Total Harmonic Distortion (1 kHz)

Mono Less than 0.05%
Stereo Less than 0.07%

Capture Ratio 2.0 dB

Alternate Channel Selectivity . . 55 dB (± 400 kHz)

Stereo Separation at 100 Hz . . . Better than 46 dB

at 1 kHz Better than 50 dB

at 10 kHz Better than 46 dB

Spurious Response Rejection . . . Better than 90 dB

Image Rejection Better than 75 dB

IF Rejection Better than 80 dB

AM Suppression Better than 60 dB

[AM Section]

Note: Modulation — 400 Hz, 30%

Frequency Range 520—1,710 kHz in 10 kHz steps

Sensitivity 53 dB μ /m

Signal to Noise Ratio at 90 Better than 52 dB

dB μ /m

Total Harmonic Distortion Less than 0.3%

at 90 dB μ /m

Selectivity Better than 20 dB (± 10 kHz)

(2) SR-2 (Australia & Other (see Note))

Note: Selector switch settings for Other Model

Frequency Step FM/AM: 50 kHz/9 kHz, De-emphasis: 50 μ s,

IF Band: Narrow

[FM Section]

Note: All RF levels in microvolts given re 300-ohm antenna input. Modulation: Mono 60%, Stereo Pilot 9%, Stereo Audio Signal 51%. All measurements made at Rec Out jack.

Frequency Range 87.50—108.00 MHz in 50 kHz steps
IHF Usable Sensitivity (Mono) . 11 dBf/1.9 μ V
50-dB Quieting Sensitivity
 Mono 21.0 dBf/6.1 μ V
 Stereo 42.0 dBf/69.0 μ V
Signal to Noise Ratio at 65 dBf
 Mono Better than 74 dB
 Stereo Better than 69 dB
Muting Threshold 30 dBf/17.3 μ V
Frequency Response 20—15,000 Hz \pm 1 dB
Total Harmonic Distortion (1 kHz)
 Mono Less than 0.12% (for Australia), Less than 0.15% (for Other)
 Stereo Less than 0.20% (for Australia), Less than 0.25% (for Other)
Capture Ratio 2.0 dB
Alternate Channel Selectivity . . 70 dB (\pm 300 kHz)
Stereo Separation at 100 Hz . . . Better than 43 dB
 at 1 kHz Better than 43 dB
 at 10 kHz Better than 37 dB
Spurious Response Rejection . . . Better than 90 dB
Image Rejection Better than 75 dB
IF Rejection Better than 80 dB
AM Suppression Better than 60 dB

[AM Section]

Note: Modulation: 400 Hz, 30%

Frequency Range 522—1,611 kHz in 9 kHz steps
Sensitivity 53 dB μ /m
Signal to Noise Ratio at 90 Better than 52 dB
dB μ /m
Total Harmonic Distortion Less than 0.3%
at 90 dB μ /m
Selectivity Better than 20 dB (\pm 9 kHz)

General

Power Source 120, 240 or 110/120/220/240 V AC, 50/60 Hz (According to country of sale)
Power Consumption 190 watts max.
Convenience Outlets Switched: 2 (For U.S.A., Canada & Other only)
Dimensions 430 (W) x 100 (H) x 370 (D) mm
 16-15/16 (W) x 3-15/16 (H) x 14-9/16 (D) inches
Approximate Weight 7.5 kg, 16 lbs. 9 oz.

9.2. For SR-2E (Europe & Germany)

Power Amplifier Section

Note: Unless otherwise noted specifications are in accordance with IHF-A-202 measured from any high-level input (CD/AUX/TAPE) to the speaker output.

Continuous Average Output Power	30 watts per channel into 8 ohms, both channels driven, 20—20,000 Hz at no greater than 0.1% THD
Dynamic Output Power	45 watts per channel into 8 ohms 55 watts per channel into 4 ohms
Dynamic Head Room (8 ohms)	1.7 dB
Power Bandwidth	5—30,000 Hz
Frequency Response	20—20,000 Hz; +0, -1 dB 5—45,000 Hz; +0, -3 dB
Signal to Noise Ratio (A-WTD, Input Shorted)	Better than 105 dB re Rated Power Better than 85 dB (IHF-A-202)
Total Harmonic Distortion (8 ohms, Rated Power, 20 Hz—20 kHz)	Less than 0.1%
Intermodulation Distortion (8 ohms, Rated Power, 60 Hz:7 kHz, 4:1)	Less than 0.15%
Headphone Rated Output (40 ohms)	70 mW
Output Current Capability	14A peak per channel

Preamplifier Section

Note: Unless otherwise noted, specifications are in accordance with IHF-A-202. Except for Sensitivity, S/N, Tone and Loudness characteristics (which are measured to the speaker outputs), measurements are made from the specified input to Rec. Out.

Sensitivity: (for rated Output)	
Phono MM	2.5 mV
CD/Tape	200 mV
Sensitivity: (for 1-watt output per IHF-A-202)	
Phono MM	0.46 mV
CD/Tape	36.5 mV
Input Impedance	
Phono MM	47 kohms
CD/Tape	20 kohms
Maximum Input Level (1 kHz)	
Phono MM	140 mV
Record Output Level/ Impedance	200 mV/1 kohms
Total Harmonic Distortion (1 kHz, to Rec Out, at 1 V)	
Phono MM	Less than 0.002%
RIAA Deviation	
Phono MM	30—20,000 Hz ± 0.5 dB
Signal to Noise Ratio (to speaker output per IHF-A-202)	
Phono MM	Better than 78 dB
Tone Controls	
Bass	20 Hz, ± 10 dB
Treble	20 kHz, ± 10 dB
Loudness (Volume: -30 dB)	20 Hz, +10 dB; 20 kHz, +6 dB

Tuner Section

[FM Section]

Note: All RF levels in microvolts given re 300-ohm antenna input. Modulation: Mono 60%, Stereo Pilot 9%, Stereo Audio Signal 51%. All measurements made at Rec Out jack.

Frequency Range	87.50—108.00 MHz in 50 kHz steps
IHF Usable Sensitivity (Mono)	11 dBf/1.9 μ V
50-dB Quieting Sensitivity	
Mono	23.0 dBf/7.7 μ V
Stereo	43.0 dBf/77.4 μ V

Signal to Noise Ratio at 65 dBf

Mono	Better than 72 dB
Stereo	Better than 67 dB
Muting Threshold	30 dBf/17.3 μ V
Frequency Response	20—15,000 Hz \pm 1 dB
Total Harmonic Distortion (1 kHz)	
Mono	Less than 0.20%
Stereo	Less than 0.25%
Capture Ratio	2.0 dB
Alternate Channel Selectivity	70 dB (\pm 300 kHz)
Stereo Separation at 100 Hz	Better than 43 dB
at 1 kHz	Better than 43 dB
at 10 kHz	Better than 27 dB
Spurious Response Rejection	Better than 90 dB
Image Rejection	Better than 75 dB
IF Rejection	Better than 80 dB
AM Suppression	Better than 60 dB

[AM Section]

Note: Modulation: 400 Hz, 30%

Frequency Range	522—1,611 kHz in 9 kHz steps
Sensitivity	53 dB μ /m
Signal to Noise Ratio at 90 dB μ /m	Better than 52 dB
Total Harmonic Distortion at 90 dB μ /m	Less than 0.3%
Selectivity	Better than 20 dB (\pm 9 kHz)

General

Power Source	220 V AC, 50/60 Hz
Power Consumption	190 watts max.
Dimensions	430 (W) x 100 (H) x 370 (D) mm 16-15/16 (W) x 3-15/16 (H) x 14-9/16 (D) inches
Approximate Weight	7.5 kg, 16 lbs. 9 oz.

- Specifications and design are subject to change for further improvement without notice.
- STASIS manufactured under license from Threshold Corporation.
- STASIS is a trademark of Threshold Corporation.

Service Manual

Nakamichi SR-2, SR-2A, SR-2E

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Nakamichi America Corporation
Nakamichi Canada
Nakamichi GmbH

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