



# Service Manual

# Nakamichi

# SR-2

# SR-2A

# SR-2E

## Stereo Receiver



# CONTENTS

|        |  |    |
|--------|--|----|
| 1.     | General . . . . .                                  | 1  |
| 2.     | Parts Location for Electrical Adjustment . . . . . | 3  |
| 3.     | Electrical Adjustments . . . . .                   | 4  |
| 3. 1.  | Power Amplifier Section . . . . .                  | 4  |
| 3. 2.  | Tuner Section . . . . .                            | 4  |
| 4.     | Mechanism Ass'y and Parts List . . . . .           | 7  |
| 4. 1.  | Synthesis . . . . .                                | 7  |
| 4. 2.  | Chassis Ass'y (A01) . . . . .                      | 8  |
| 4. 3.  | Front Panel Ass'y (A02) . . . . .                  | 9  |
| 4. 4.  | Rear Panel Ass'y (B01) . . . . .                   | 9  |
| 5.     | Mounting Diagrams and Parts List . . . . .         | 10 |
| 5. 1.  | Power Switch P.C.B. Ass'y . . . . .                | 10 |
| 5. 2.  | AC Outlet P.C.B. Ass'y . . . . .                   | 10 |
| 5. 3.  | Band Selector P.C.B. Ass'y . . . . .               | 10 |
| 5. 4.  | Volume P.C.B. Ass'y . . . . .                      | 11 |
| 5. 5.  | Loudness Switch P.C.B. Ass'y . . . . .             | 11 |
| 5. 6.  | Speaker Switch P.C.B. Ass'y . . . . .              | 12 |
| 5. 7.  | Tone Control P.C.B. Ass'y . . . . .                | 12 |
| 5. 8.  | Speaker Terminal P.C.B. Ass'y . . . . .            | 13 |
| 5. 9.  | Power Supply P.C.B. Ass'y . . . . .                | 13 |
| 5. 10. | Monitor Switch P.C.B. Ass'y . . . . .              | 15 |
| 5. 11. | Control Switch P.C.B. Ass'y . . . . .              | 16 |
| 5. 12. | Display P.C.B. Ass'y . . . . .                     | 17 |
| 5. 13. | Main P.C.B. Ass'y . . . . .                        | 19 |
| 5. 14. | Eq. Sub P.C.B. Ass'y . . . . .                     | 20 |
| 5. 15. | Phono Input P.C.B. Ass'y . . . . .                 | 30 |
| 6.     | Schematic Diagrams . . . . .                       | 31 |
| 6. 1.  | IC Block Diagrams . . . . .                        | 31 |
| 6. 2.  | Schematic Diagrams . . . . .                       | 34 |
| 6.2.1. | Tuner and Power Supply Section . . . . .           | 34 |
| 6.2.2. | Amplifier Section . . . . .                        | 37 |
| 7.     | Wiring Diagrams . . . . .                          | 40 |
| 8.     | Block Diagrams . . . . .                           | 42 |
| 8. 1.  | Tuner Section . . . . .                            | 42 |
| 8. 2.  | Amplifier Section . . . . .                        | 42 |
| 9.     | Specifications . . . . .                           | 43 |

## 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                              | Qty | Schematic Ref. No. | Part No. | Description                                | Qty |
|--------------------|----------|--|-----|--------------------|----------|--|-----|
| 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   | 04                 | 0B90208A | Antenna Adapter EF (SR-2E)                 | 1   |
|                    | FA03568A | Package Ass'y (SR-2E (Germany & Europe)) | 1   | —                  | 0B90198A | AM Loop Antenna                            | 1   |
| 02                 | OF03986A | Carton Box (SR-2)                        | 1   | —                  | 0D03092B | Poly-Bag 320x340x0.08                      | 1   |
|                    | OF03985A | Carton Box (SR-2A)                       | 1   | —                  | 0D04449A | Important Notice Card                      | 1   |
| 03                 | 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   |
| 04                 | OF03991A | Packing R                                | 1   | —                  | 0D04673B | French Text (SR-4/3/2 (Canada))            | 1   |
|                    | OF03670A | Poly-Sheet                               | 1   | —                  | 0D04674B | Owner's Manual Text (SR-4/3/2 (Australia)) | 1   |
| —                  | OM03456A | Voltage Seal 220V (SR-2 (Other))         | 2   | —                  | 0D04675B | Owner's Manual Text (SR-4/3/2 (Other))     | 1   |
| —                  | OM03457A | Voltage Seal 240V (SR-2 (Australia))     | 2   | —                  | DA03873A | Warranty Card Ass'y (SR-2A)                | 1   |
|                    | DA03991A | Accessory Ass'y (SR-2 (Canada))          | 1   | —                  | 0D04766A | Catalogue (SR-2A)                          | 1   |
|                    | DA03992A | Accessory Ass'y (SR-2 (Australia))       | 1   | —                  | 0D04767A | Warranty Card (SR-2 (Canada))              | 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

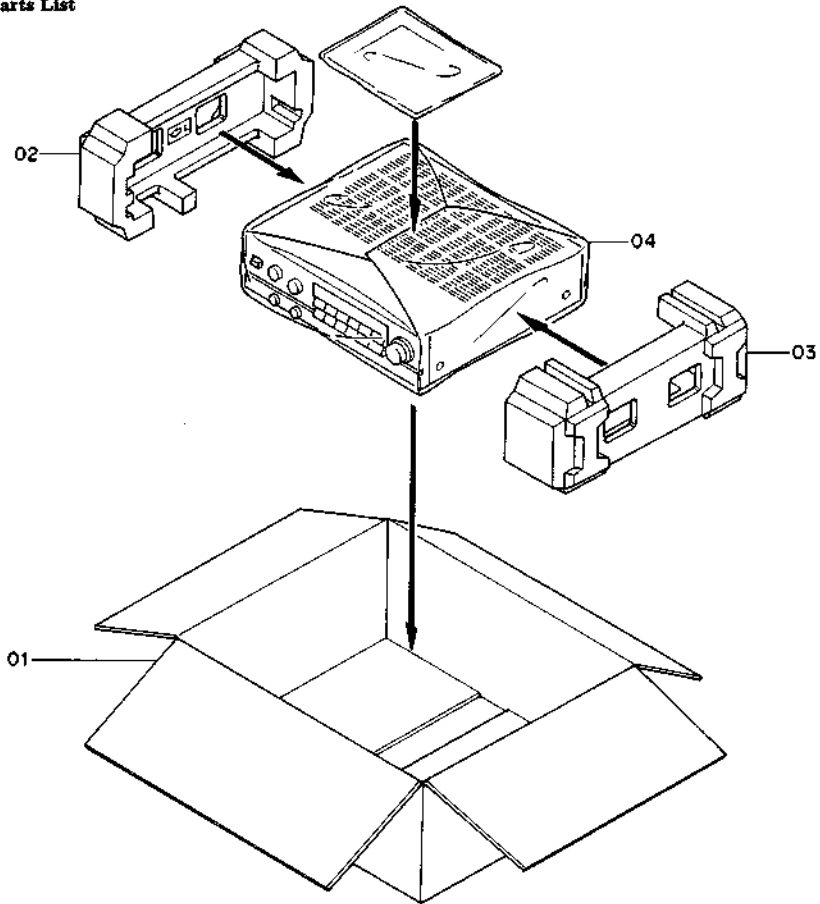


Fig. 1.1

1.3. Accessory Ass'y and Parts List

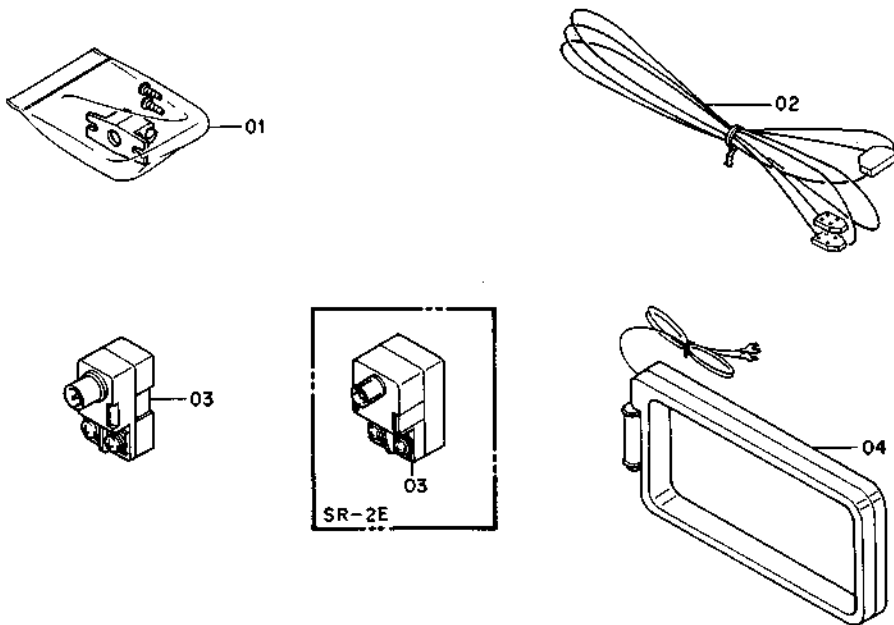


Fig. 1.2

2. PARTS LOCATION FOR ELECTRICAL ADJUSTMENT

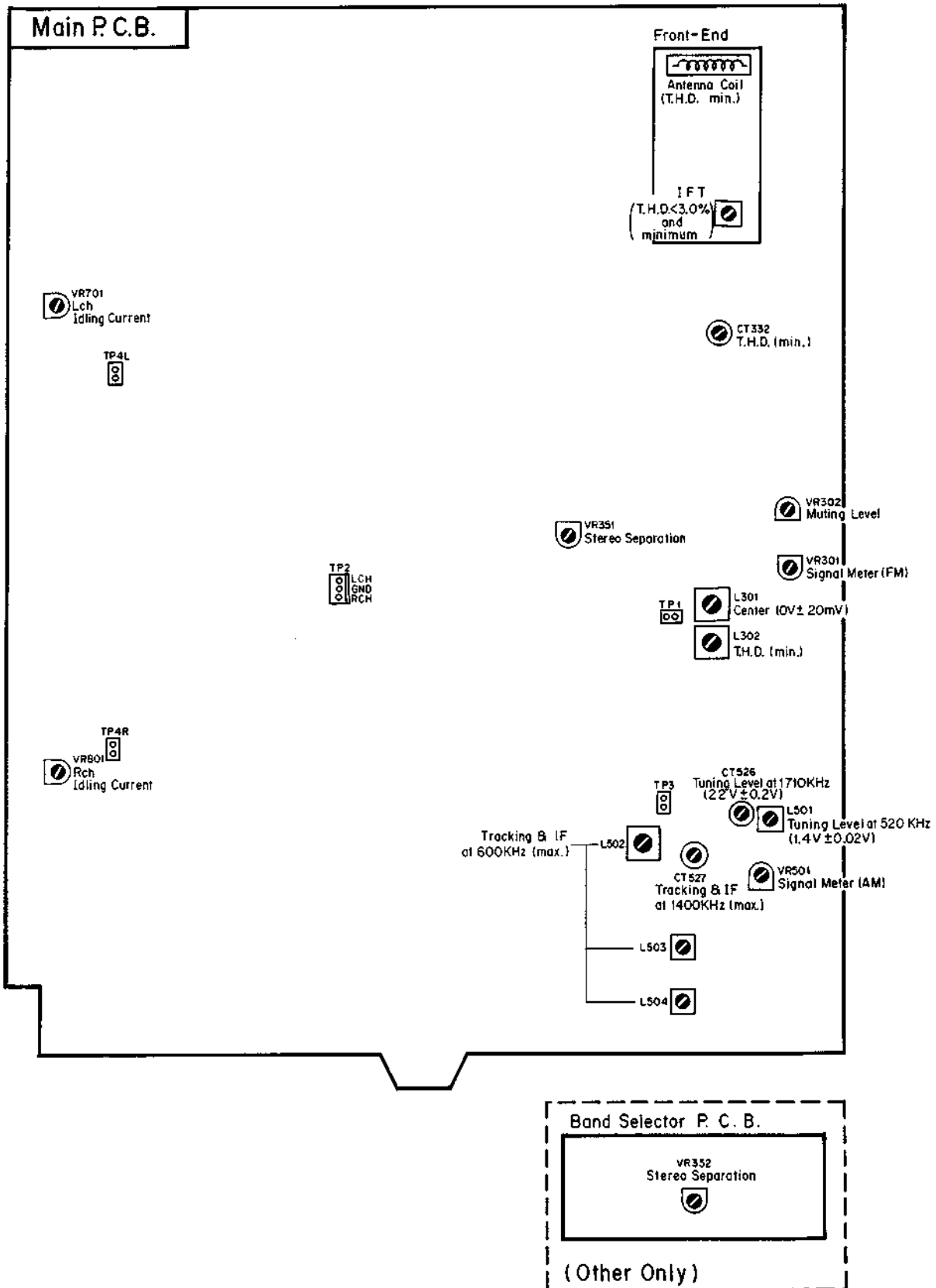


Fig. 2

### 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<br>Output Level - Min.<br>Speaker Selector A/B - OFF | Main P.C.B.<br>VR701<br>VR801 | <ol style="list-style-type: none"> <li>1. Insert shorting plugs into the CD Player Input Jacks.</li> <li>2. Turn ON the power and allow 3 minutes before adjusting. (Top Cover must be installed in this period of time.)</li> <li>3. Adjust VR701 (VR801) to obtain 20 mV <math>\pm</math> 1 mV on the DC voltmeter.</li> </ol> |

#### 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<br>Band Selector - FM<br>Tape Monitor - Source<br><br>Signal Generator Freq. - 98 MHz<br>RF Level - 65 dBf<br>Modulation - See REMARKS |   | <ol style="list-style-type: none"> <li>1. Set the Stereo Receiver as indicated in the MODE.</li> <li>2. Adjustment and confirmation should be made after tuning in to the set carrier frequency of the Signal Generator.</li> </ol> <p>Note: Contents of modulation</p> <ol style="list-style-type: none"> <li>1. For U.S.A., Canada &amp; Other (Wide)               <ul style="list-style-type: none"> <li>o Stereo<br/>Audio: 1 kHz, 91%<br/>Pilot: 19 kHz, 9%</li> <li>o Mono<br/>Audio: 1 kHz, 100%</li> </ul> </li> <li>2. For Europe, Germany, Australia &amp; Other (Narrow)               <ul style="list-style-type: none"> <li>o Stereo<br/>Audio: 1 kHz, 51%<br/>Pilot: 19 kHz, 9%</li> <li>o Mono<br/>Audio: 1 kHz, 60%</li> </ul> </li> </ol> |
| 2    | Usable Sensitivity Adjustment | Distortion Meter to Tape Record Output Jacks | Stereo Receiver Same as above<br><br>Signal Generator Freq. - 98 MHz<br>RF Level - 12.5 dBf<br>Modulation - Mono  | Main P.C.B.<br>Front-end IFT<br>Antenna Coil (See Fig. 2) | <ol style="list-style-type: none"> <li>1. Set the Stereo Receiver to Manual mode by pressing the Tuning Mode button.</li> <li>2. Adjust the IFT to obtain minimum distortion (total harmonic distortion (THD); 3% or less).</li> <li>3. Adjust the distance between windings of antenna coil to obtain minimum distortion.</li> <li>4. Set the frequency of the Signal Generator to 90 MHz/106 MHz and check that the THD is 3% or less.</li> </ol>   |

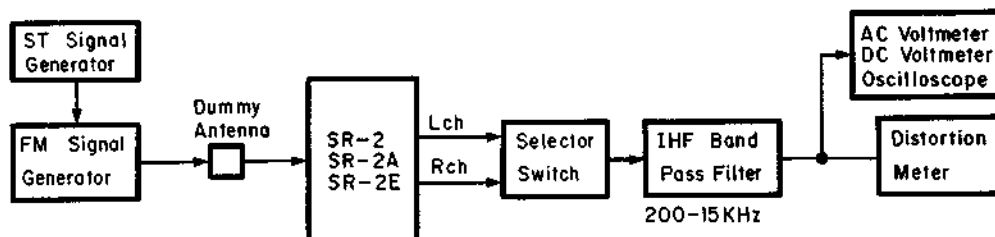


Fig. 3.1

| 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<br>Signal Generator Freq. - 98 MHz<br>RF Level - 65 dBf<br>Modulation - Mono        | Main P.C.B. L301<br>L302                                     | 1. Set the Stereo Receiver to Manual mode.<br>2. Adjust L301 so that the reading on the DC voltmeter is 0 V $\pm$ 20 mV.<br>3. Adjust L302 to obtain minimum distortion (THD: 0.07% or less).<br>Repeat 2 and 3, if necessary.   |
| 4    | Muting Level Adjustment                | Oscilloscope to Tape Record Output Jacks  | Stereo Receiver Same as above<br>Signal Generator Freq. - 98 MHz<br>RF Level - 30 dBf<br>Modulation - Stereo      | Main P.C.B. VR302  | 1. Set the Stereo Receiver to Auto mode.<br>2. Rotate VR302 fully counterclockwise. Then, return it clockwise gradually until a waveform appears on the oscilloscope.<br>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<br>Signal Generator Freq. - 98 MHz<br>RF Level - 56 dBf<br>Modulation - Stereo      | Main P.C.B. VR301  | 1. Set the Stereo Receiver to Auto mode.<br>2. Adjust VR301 so that all segments (1-5) of the signal strength meter light up.<br>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<br>Signal Generator Freq. - 98 MHz<br>RF Level - 65 dBf<br>Modulation - L or R only | Main P.C.B. VR351<br>Band Selector P.C.B. VR352 (Other only) | <b>Except for Other version:</b><br>1. Set the Stereo Receiver to Auto mode.<br>2. Apply modulation to only L channel.<br>3. Adjust VR351 to obtain minimum reading on the AC voltmeter at the R channel output jack.<br>4. Apply modulation to only R channel.<br>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.<br>If not, repeat 2 through 4.<br><br><b>For Other version:</b><br>1. Set the switches on the rear panel as follows:<br>Freq. Step FM/AM - 100 kHz/10 kHz<br>IF Band - Wide<br>2. Apply the same procedures as above.<br>3. Set the switches as follows:<br>Freq. Step FM/AM - 50 kHz/9 kHz<br>IF Band - Narrow<br>4. Apply the same procedures as mentioned above, except for VR352. |

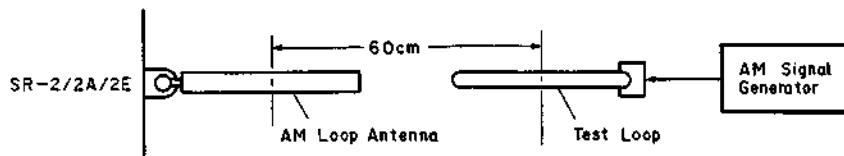


Fig. 3.2

| STEP | ITEM   | OUTPUT CONNECTION | MODE  | ADJUSTMENT           | REMARKS   |
|------|--|-------------------|---|----------------------|---|
| 7    | Stereo/Mono Selection Check and THD Adjustment |                   | <p>Stereo Receiver<br/>Same as above</p> <p>Signal Generator<br/>Freq. - 98 MHz<br/>RF Level<br/>- 65 dBf<br/>Modulation<br/>- Stereo/<br/>Mono</p> | Main P.C.B.<br>CT332 | <ol style="list-style-type: none"> <li>1. Set the Stereo Generator to L=R mode.</li> <li>2. Set the Stereo Receiver to Manual mode and check that the Stereo indicator goes out and stereo outputs disappear.</li> <li>3. Set the Stereo Receiver to Auto mode and adjust CT332 to obtain minimum distortion (THD: 0.09% or less).</li> </ol> |

### 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<br/>Input Selector<br/>- Tuner<br/>Band Selector<br/>- AM<br/>Tape Monitor<br/>- Source</p> <p>Signal Generator<br/>Freq. -<br/>520 (522) kHz/<br/>1710 (1611) kHz</p>           | Main P.C.B.<br>L501<br>CT526                 | <ol style="list-style-type: none"> <li>1. Set the frequency of the Signal Generator to 520 kHz (522 kHz) and make tuning.</li> <li>2. Adjust L501 to obtain 1.4 V <math>\pm</math>0.02 V on the DC voltmeter.</li> <li>3. Change the frequency to 1710 kHz (1611 kHz) and make tuning.</li> <li>4. Adjust CT526 to obtain 22 V <math>\pm</math>0.2 V on the DC voltmeter.</li> <li>5. If satisfactory results are not obtained, repeat 1 through 4.</li> </ol>  |
| 2    | Tracking and IF Adjustment             | AC Voltmeter to Tape Record Output Jacks            | <p>Stereo Generator<br/>Same as above</p> <p>Signal Generator<br/>Freq. -<br/>600 (603) kHz/<br/>1400 (1404) kHz<br/>RF Level<br/>- 82 dB<math>\mu</math>/m<br/>Modulation<br/>- 400 Hz<br/>30%</p> | Main P.C.B.<br>L502<br>L503<br>L504<br>CT527 | <ol style="list-style-type: none"> <li>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 dB<math>\mu</math>/m at the AM Loop Antenna, set the RF level output of the AM Signal Generator to 82 dB<math>\mu</math>/m as loss is 26 dB<math>\mu</math>/m in this setting.</li> <li>2. Set the frequency of the Signal Generator to 600 kHz (603 kHz) and make tuning.</li> <li>3. Adjust L502 to obtain maximum reading on the AC voltmeter.</li> <li>4. Adjust L503 to obtain maximum reading on the AC voltmeter.</li> <li>5. Adjust L504 to obtain maximum reading on the AC voltmeter.</li> <li>6. Set the frequency to 1400 kHz (1404 kHz) and make tuning.</li> <li>7. Adjust CT527 to obtain maximum reading on the AC voltmeter.</li> <li>8. Repeat 2 through 7 once.</li> </ol> |
| 3    | Signal Strength Meter Level Adjustment | None  | <p>Stereo Generator<br/>Same as above</p> <p>Signal Generator<br/>Freq. -<br/>1000 (999) kHz<br/>RF Level<br/>- 106 dB<math>\mu</math>/m</p>  | Main P.C.B.<br>VR501                         | <ol style="list-style-type: none"> <li>1. With the same setting as in Step 2, set the RF level output of the AM Signal Generator to 106 dB<math>\mu</math>/m in order to obtain 80 dB<math>\mu</math>/m at the AM Loop Antenna.</li> <li>2. Adjust VR501 so that the segment 5 of the signal strength meter starts illuminating.</li> </ol> <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

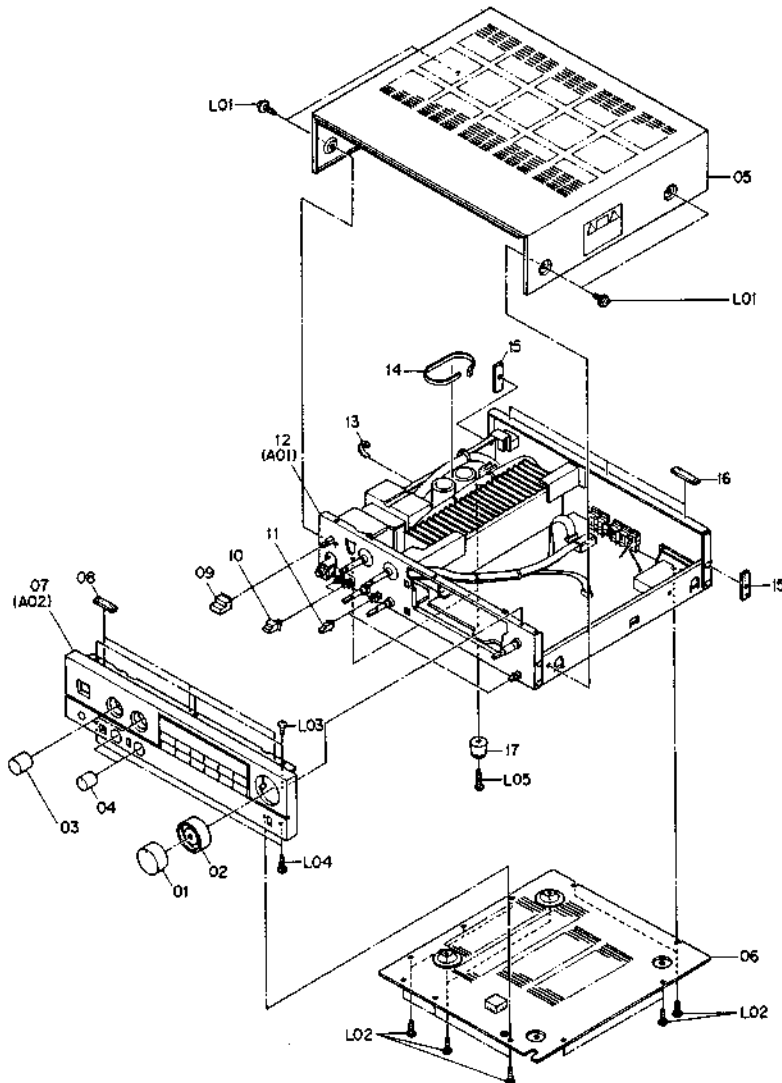


Fig. 4.1

| Schematic Ref. No. | Part No.   | Description   | Qty | Schematic Ref. No. | Part No. | Description                                  | Qty |
|--------------------|------------|---|-----|--------------------|----------|--|-----|
|                    |            | <b>Synthesis</b>  |     |                    | HA05097A | Front Panel Ass'y (SR-2A)                    | 1   |
|                    |            | Serial No.: D10401001 -   |     |                    | HA05096A | Front Panel Ass'y (SR-2E (Europe & Germany)) | 1   |
| 01                 | HA05103A   | Volume Knob Ass'y   | 1   | 08                 | OJ05364A | Top Cover Cushion T4                         | 3   |
| 02                 | HA05104A   | Balance Knob Ass'y  | 1   | 09                 | OH04947A | Power Switch Knob                            | 1   |
| 03                 | HA05105A   | Selector Knob Ass'y   | 2   | 10                 | OH04950B | Push Switch Knob 10L                         | 2   |
| 04                 | HA05106A   | Tone Control Knob Ass'y   | 2   | 11                 | OH04949B | 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   |
|                    | (OH04934C) | Top Cover   | (1) |                    | JA04235A | Chassis Ass'y (SR-2 (Other))                 | 1   |
|                    | (OM04377B) | Caution Label   | (1) |                    | JA04238A | Chassis Ass'y (SR-2A)                        | 1   |
|                    | (OJ05261A) | Top Cover Cushion S   | (3) |                    | JA04237A | Chassis Ass'y (SR-2E (Europe))               | 1   |
|                    | (OM04811A) | Voltage Caution Sheet (SR-2 (Other))  | (1) | 13                 | JA04287A | Chassis Ass'y (SR-2E (Germany))              | 1   |
|                    | (OM04812A) | Voltage Caution Label (SR-2 (Other))  | (1) | 14                 | OB90019A | Insu-Lock SKB80                              | 25  |
|                    |            |   |     | 15                 | OB08515A | Insu-Lock BK-1                               | 5   |
|                    |            |   |     | 16                 | OJ05226A | Side Cushion                                 | 2   |
|                    |            |   |     | 17                 | OJ05363A | Top Cover Cushion T3                         | 3   |
|                    |            |   |     | L01                | OJ05162A | Leg T-S                                      | 2   |
| 06                 | JA04245A   | Bottom Cover Ass'y (Consisting of the followings:)                            | 1   | L02                | OE03032A | BT4x8 @ Fan Washer-faced (Black Chromate)    | 4   |
|                    | (OJ05203C) | Bottom Cover  | (1) | L03                | OE00868A | BT3x8 @ Binding                              | 12  |
|                    | (OJ05162A) | Leg T-S   | (2) | L04                | OE00857A | BT3x6 @ Binding                              | 3   |
|                    | (OM04377B) | Caution Label   | (1) | L05                | OE00921A | BT3x8 @ Binding (Black Chromate)             | 2   |
|                    | (OE00888A) | BT3x12 @ Binding  | (2) |                    | OE00888A | BT3x12 @ Binding                             | 2   |
|                    | (OJ05214A) | P.C.B. Cushion  | (1) |                    |          |  |     |
| 07                 | HA05094A   | Front Panel Ass'y (SR-2 (Canada))   | 1   |                    |          |  |     |
|                    | HA05095A   | Front Panel Ass'y (SR-2 (Australia & Other))                                  | 1   |                    |          |  |     |



| 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   |
| 08                 | 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               | Volumes 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   |
|                    | 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)

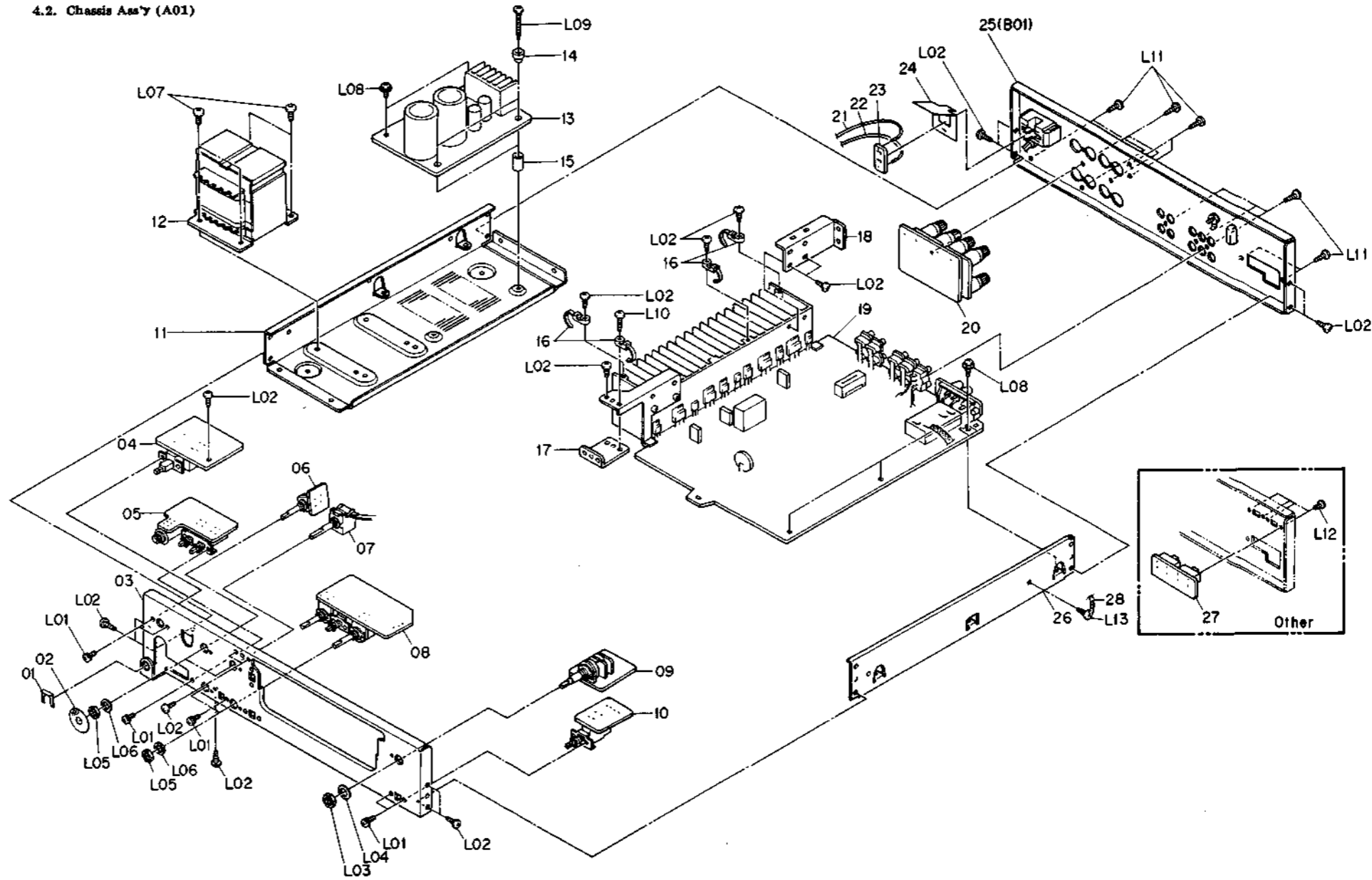


Fig. 4.2

| 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)

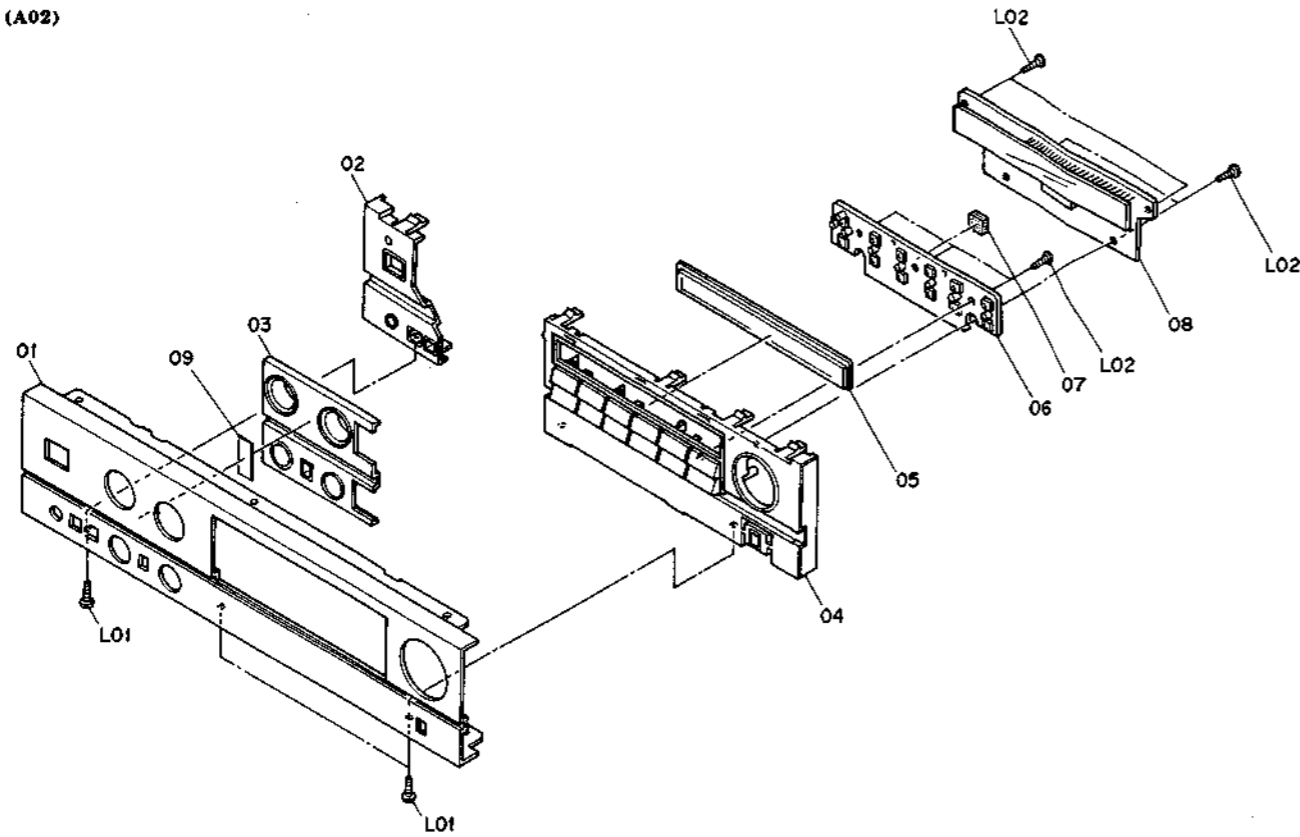


Fig. 4.3

4.4. Rear Panel Ass'y (B01)

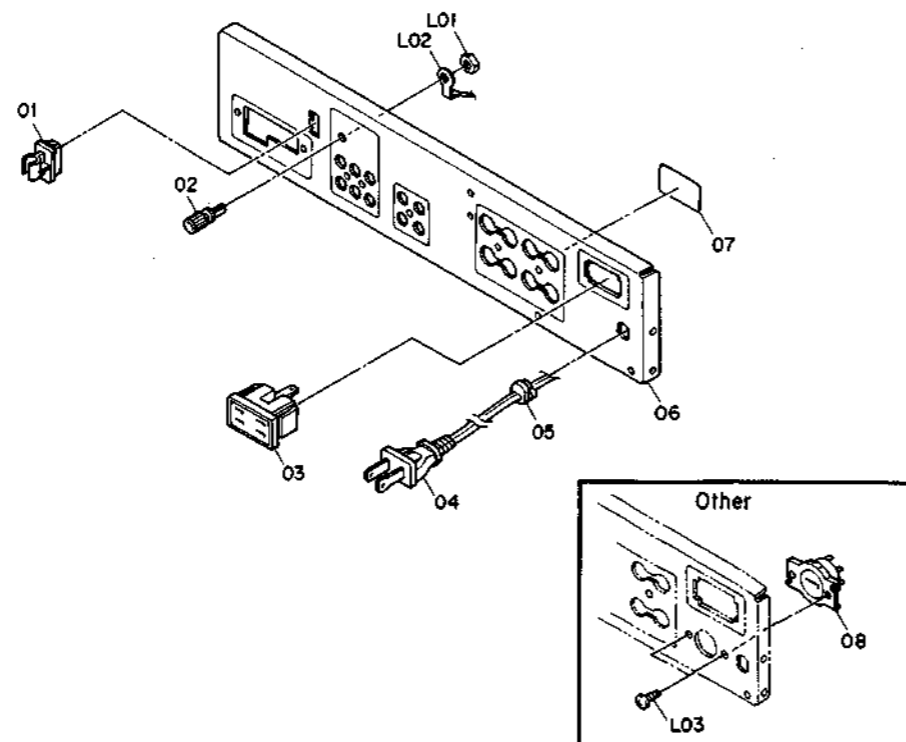


Fig. 4.4

| 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 |
|                    |                         | OH04922A   | Front Panel (SR-2E)  | 1 |
| 02                 | 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                | BT 3x8 Binding (Black Chromate)  | 3  |   |
| L02                | 0E00868A                | BT 3x8 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                      | 0B90071A   | AM Loop Antenna Holder                                       | 1 |
|                    | 02                      | 0B81604A   | Ground Terminal T-5435                                       | 1 |
|                    | 03                      | 0B81597A   | AC Outlet 2P (SR-2 (Canada & Other) & SR-2A)                 | 1 |
|                    | 04                      | 0B90205A   | Power Cord (SR-2 (Canada & Other) & SR-2A)                   | 1 |
|                    |                         | 0B05241A   | Power Cord (SR-2 (Australia))                                | 1 |
|                    |                         | 0B08093U   | Power Cord (SR-2E (Europe & Germany))                        | 1 |
|                    | 05                      | 0B08351A   | Cord Bushing 4K-4 (SR-2 (Canada & Other) & SR-2A)            | 1 |
|                    |                         | 0B08037U   | 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                 | 0M04280A                | Barrier Caution Label (SR-2 (Canada) & SR-2A)                              | 1  |   |
| 08                 | 0B70049A                | Voltage Selector (SR-2 (Other))  | 1  |   |
| L01                | -                       | Nut (Ground Terminal)  | (1)  |   |
| L02                | -                       | Earth Lug (Ground Terminal)  | (1)  |   |
| L03                | 0E00985A                | 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, 2SC5368P, 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

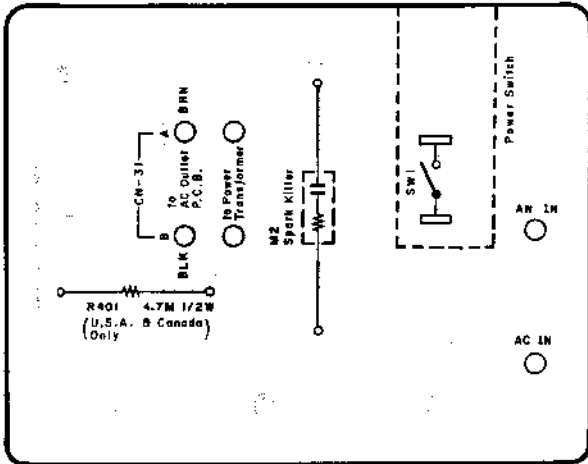


Fig. 5.1

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

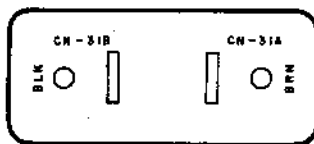


Fig. 5.2

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

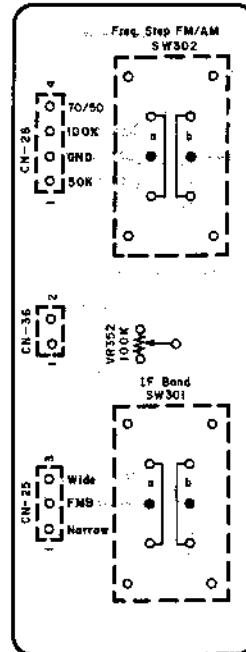


Fig. 5.3.1 2nd Version

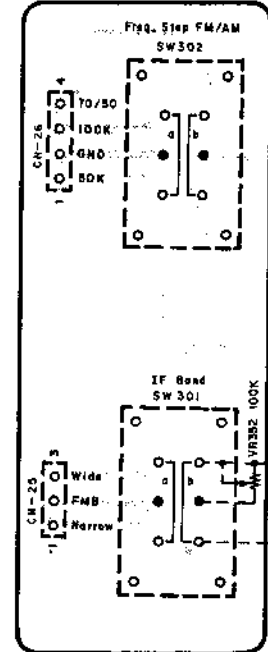


Fig. 5.3.2 1st Version

| 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<br>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.                                       |
| SW1<br>M2          | 0B60387B                                       | Power Switch P.C.B. R.K 4.7M 1/2W J (SR-2 (Canada) & SR-2A) | VR352<br>SW301,302<br>CN25<br>CN26<br>CN36 | 0B82758A | FD Connector V450                                      |
|                    | 0B20057A                                       | Power Switch P.C.B. Ass'y (SR-2E (Germany))                 |  | 0B82759A | FD 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 (SR-2 (Australia & Other))                     |  | 0B32099A | Slide Switch 22S                                       |
| 0B90264A           | Spark Killer XE-333 (SR-2E (Europe & Germany)) | 0B70039A  | Slide Switch 22S                           |          |  |
|                    |  |   |  | 0B82804A | 3P Connector 160                                       |
|                    |  |   |  | 0B82805A | 4P Connector 200                                       |
|                    |  |   |  | 0B82905A | 2P Connector S200                                      |

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

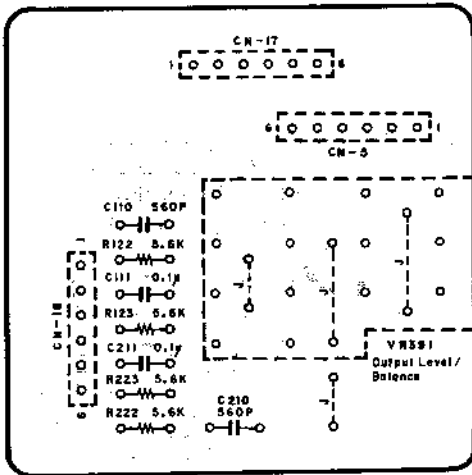


Fig. 5.4

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

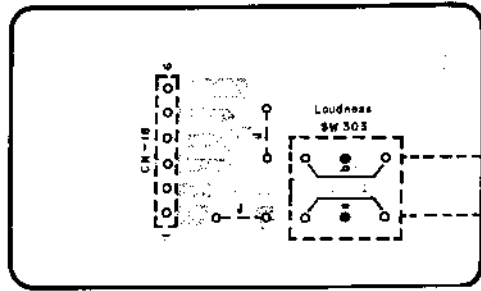


Fig. 5.5.1 2nd Version

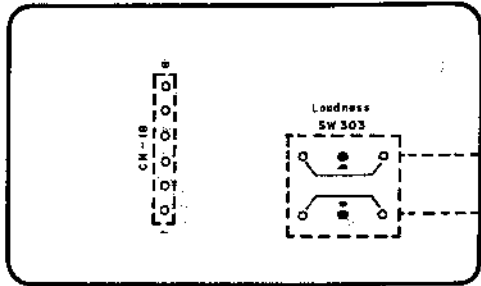


Fig. 5.5.2 1st Version

| Schematic Ref. No.   | Part No. | Description                  | Schematic Ref. No.   | Part No.                                      | Description   | Schematic Ref. No.   | Part No.          | Description     |
|--|----------|------------------------------|--|---|---|--|-------------------|-----------------|
| VR391<br>R122,123<br>222,223<br>C110,210<br>C111,211<br>CN5,17<br>18 | BA06243A | Volume P.C.B. Ass'y          | Q105,106<br>205,206<br>Q107,207<br>411<br>Q108,208<br>410<br>ZD102,202<br>ZD402<br>R124,132<br>224,232<br>R125,225<br>R126,226<br>R127,227<br>R128,228<br>R129,229<br>R130,230<br>R131,231<br>R162,262<br>R410<br>R420<br>R421<br>C112,212 | BA06244A                                      | Tone Control P.C.B. Ass'y (SR-2, SR-2A & SR-2E (Europe))  | C113,119<br>213,219<br>C114,214<br>C115,215<br>C116,216<br>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                 |  | OB10193A                                      | FET 2SK184 (GR)   |  | OB09302A          | C 100P 50V J    |
|  | OB09695A | RK 5.6K 1/6W J               |  | — Line Amp. —                                 | OB06142A  |  | TR 2SC2240 (BL)   | OB05583A        |
| SW303<br>CN18<br>CN18  | BA06290A | Loudness Switch P.C.B. Ass'y | OB12150A   | ZD 5.6V                                       | C027,028<br>CN3<br>CN6,17<br>19,19<br>CN20,20<br>AJ<br>BJ | OB70074A   | — Miscellaneous — |                 |
|  | OB60390B | Loudness Switch P.C.B.       | OB12174A   | RD5.6JS-T1B2                                  |   | OB81013A   | 3P Connector 500  |                 |
|  | OB70074A | Push Switch 1 Key            | OB22229A   | RM 1.00K 1/6W F                               |   | OB81010A   | Dip Mate 6P       |                 |
|  | OB81013A | Dip Mate 6P                  | OB22315A   | RM 5.62K 1/6W F                               |   | OB82793A   | WH6D-1            |                 |
| R742,842<br>CN23A<br>CN23B<br>CN33                                   | OB81013A | WH6D-1                       | OB22371A   | RM 18.2K 1/6W F                               | OB82734B  | Dip Mate 3P  |                   |                 |
|  | OB82736A | Ribbon Cable 6P 110mm        | OB22265A   | RM 2.20K 1/6W F                               | OB82735B  | WH3D-1   |                   |                 |
|  | BA06253A | Speaker Switch P.C.B. Ass'y  | OB22347A   | RM 11.0K 1/6W F                               | OB82737B  | PD Connector V050  |                   |                 |
|  | OB60385C | Speaker Switch P.C.B.        | OB09673A   | RK 680 1/6W J                                 | OB82738B  | PD Connector V050  |                   |                 |
|  | OB24104A | RF 330 1W J                  | OB09679A   | RK 1.2K 1/6W J                                |   | Ribbon Cable 6P  |                   |                 |
|  | OB82744B | PD Connector V600            | OB09695A   | RK 5.6K 1/6W J                                |   | 500mm (1)  |                   |                 |
|  | OB82745B | PD Connector V720            | OB22515A   | RM 332K 1/6W F                                |   | 320mm (1)  |                   |                 |
|  | OB82760A | PD Connector V350            | OB09677A   | RK 1K 1/6W J                                  |   | Ribbon Cable 6P  |                   |                 |
|  | OB70075A | Push Switch 2 Key (1)        | OB09665A   | RK 330 1/6W J                                 |   | 120mm (1)  |                   |                 |
|  | OB81478A | Headphone Jack (1)           | OB09685A   | RK 2.2K 1/6W J                                |   | Ribbon Cable 3P  |                   |                 |
|  |          |                              | OB41703A   | CSP 100P 50V J (SR-2, SR-2A & SR-2E (Europe)) |   | 140mm (1)  |                   |                 |
|  |          |                              | OB41704A   | CSP 330P 50V J (SR-2E (Germany))              |   |  |                   |                 |
|  |          | — Tone Amp. —                |  |   |   |  |                   |                 |
|  |          | IC393                        | OB11070A   | IC NJM072S                                    |   |  |                   |                 |
|  |          | VR392                        | OB30062A   | VR 100K (B)x2                                 |   |  |                   |                 |
|  |          | VR393                        | OB30063A   | VR 500K (B)x2                                 |   |  |                   |                 |
|  |          | R134,234                     | OB09725A   | RK 100K 1/6W J                                |   |  |                   |                 |
|  |          | R135-138                     | OB09715A   | RK 39K 1/6W J                                 |   |  |                   |                 |
|  |          | 235-238                      |  |   |   |  |                   |                 |
|  |          | R139,239                     | OB09723A   | RK 82K 1/6W J                                 |   |  |                   |                 |

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

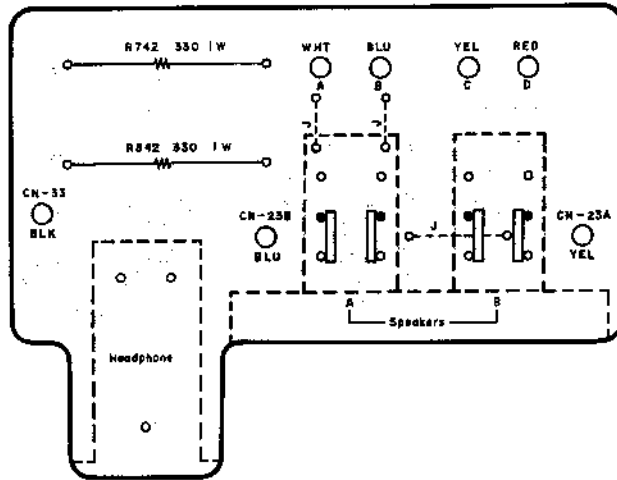


Fig. 5.6

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

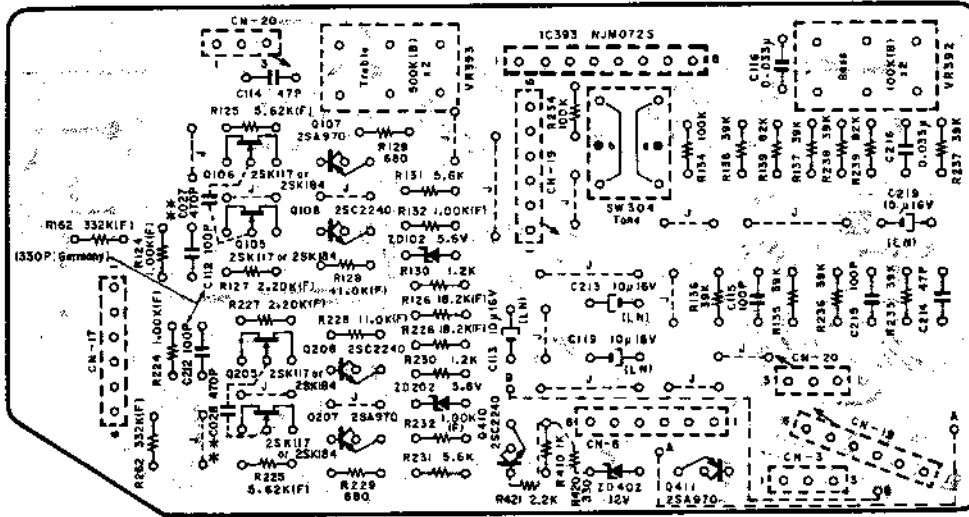


Fig. 5.7.1 2nd Version \*\* : SR-2E (Germany) only.

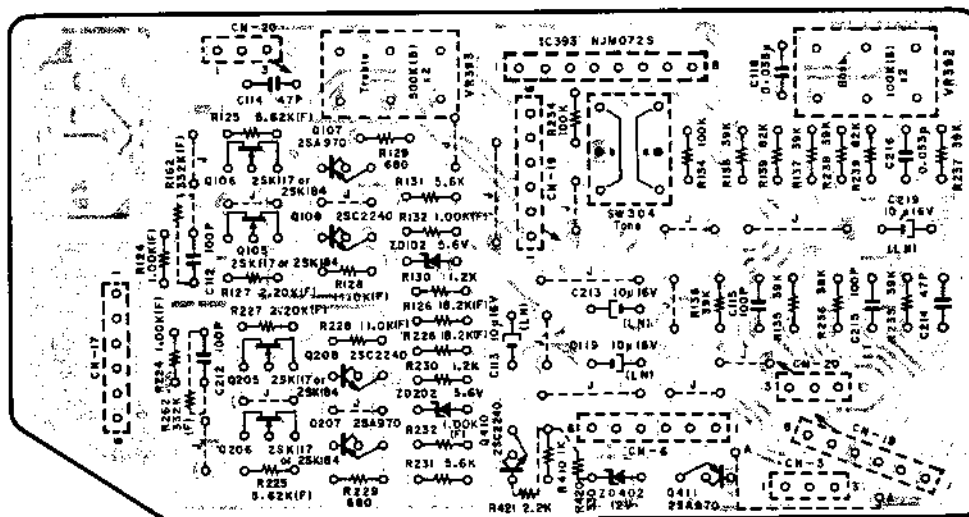


Fig. 5.7.2 1st Version (For SR-2 & SR-2A only)

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

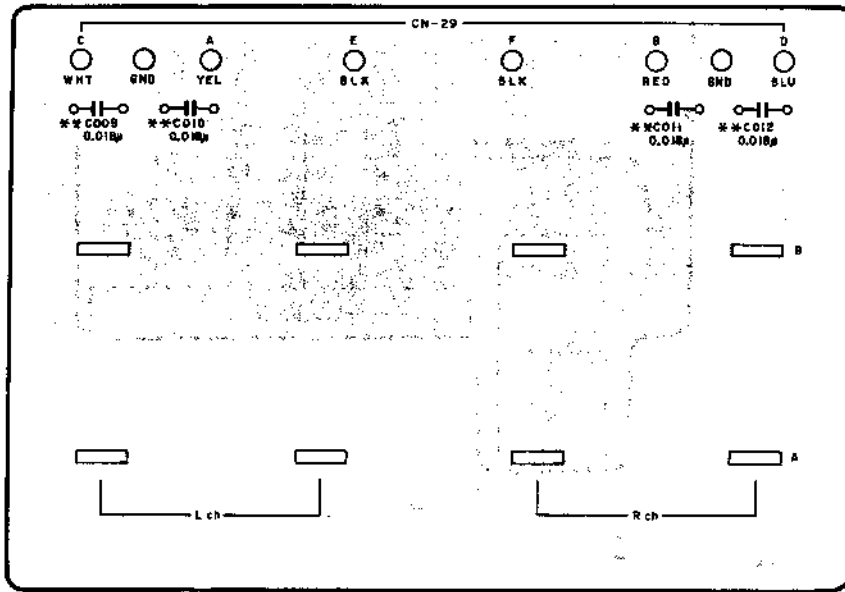


Fig. 5.8

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

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

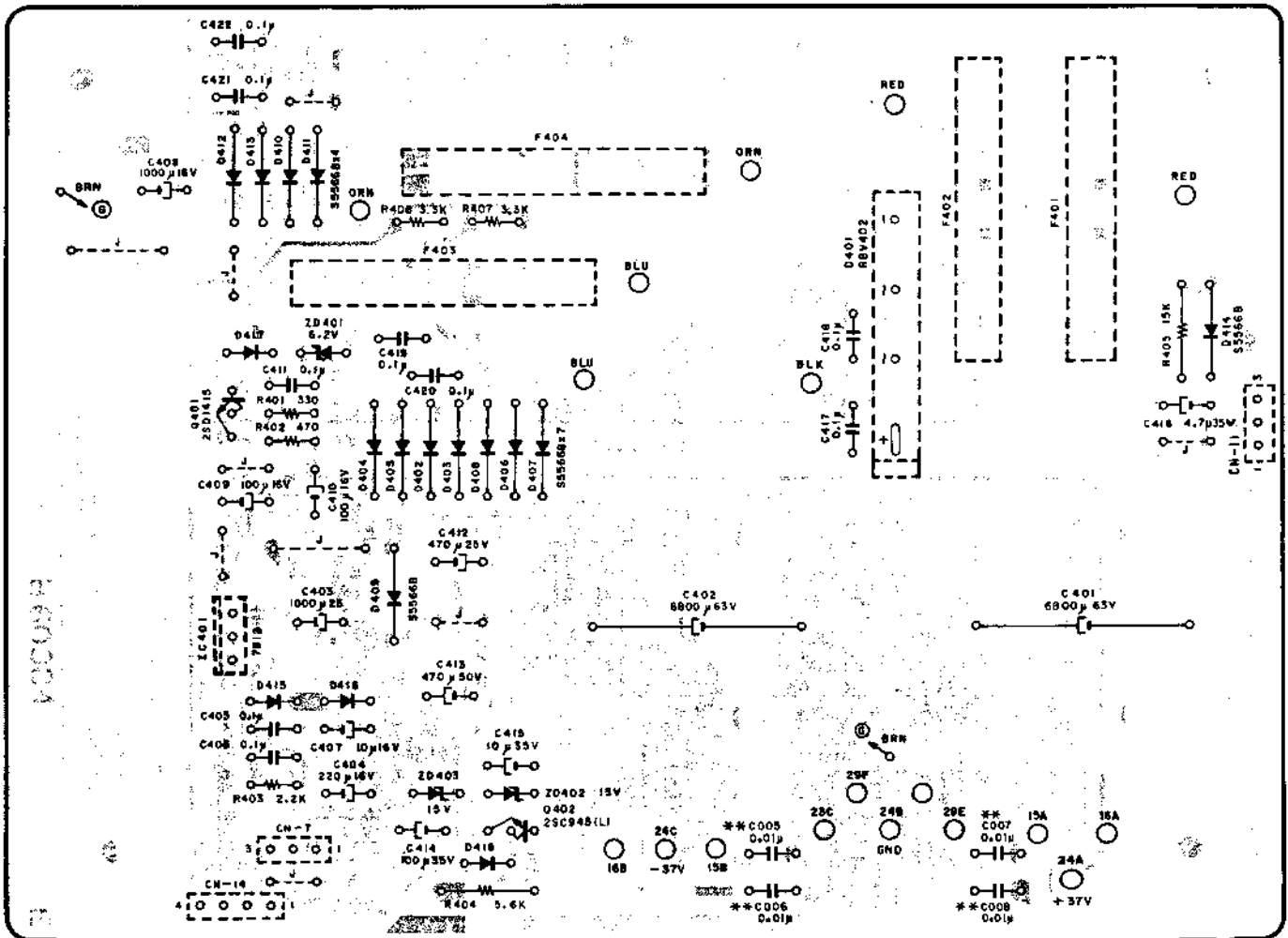


Fig. 5.9

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

| Schematic Ref. No.   | Part No.  | Description   | Schematic Ref. No.   | Part No.  | Description   |
|--|---|---|--|---|---|
| C009,010<br>011,012<br>CN29A<br>CN29B<br>CN29C<br>CN29D<br>CN29E,29F | BA06283A  | Speaker Terminal<br>P.C.B. Ass'y (SR-2,<br>SR-2A & SR-2E<br>(Europe))   | CN15A<br>CN15B<br>CN16A<br>CN16B<br>CN21<br>CN23C<br>CN24A<br>CN24B<br>CN24C | 0B82740B  | PD Connector V400   |
|  | BA06822A  | Speaker Terminal<br>P.C.B. Ass'y (SR-2E<br>(Germany))                   |  | 0B82741B  | PD Connector V400   |
|  | 0B60386C  | Speaker Terminal<br>P.C.B.  |  | 0B82742B  | PD Connector V520   |
|  | 0B41289A  | CMM 0.018 $\mu$ 50V J<br>(SR-2E (Germany))                              |  | 0B82743B  | PD Connector V520   |
|  | 0B82753A  | PD Connector V420   |  | 0B82803A  | 2P Connector  |
|  | 0B82754A  | PD Connector V420   |  | 0B82746B  | PD Connector V440   |
|  | 0B82755A  | PD Connector V420   |  | 0B82747B  | PD Connector V300   |
|  | 0B82756A  | PD Connector V420   |  | 0B82748B  | PD Connector V300   |
|  | 0B82757A  | PD Connector V250   |  | 0B82749B  | PD Connector V300   |
|  | 0B81595B  | Speaker Terminal 8P<br>(1)  |  | 0B08349B  | Fuse Clip (SR-2<br>(Australia) & SR-2E<br>(Europe &<br>Germany)) (8)                  |
|  | 0B90019A  | Insu-Lock SKB80<br>(4)  |  | OM04191A  | Fuse Label T1A<br>250V (SR-2<br>(Australia) & SR-2E<br>(Europe &<br>Germany)) (1)     |
|  | 0B83056B  | Ground Wire (SR-2E<br>(Germany)) (1)                                    |  | OM04462A  | Fuse Label T2.5A<br>250Vx2 (SR-2<br>(Australia) & SR-2E<br>(Europe &<br>Germany)) (1) |
|  |   |   |  | OM04194A  | Fuse Label T315mA<br>250V (SR-2<br>(Australia) & SR-2E<br>(Europe &<br>Germany)) (1)  |
|  | IC401<br>Q401<br>Q402<br>ZD401<br><br>ZD402,403<br><br>D401<br>D402,414<br>D415,416<br>417,418<br>R401<br>R402<br>R403<br>R404<br>R405<br>R406,407<br>C005,006<br>007,008<br>C401,402<br>C403<br>C404<br>C405,406<br>411,417<br>418-422<br>C407<br>C408<br>C409,410<br>C412<br>C413<br>C414<br>C415<br>C416<br>F401,402<br><br>F401,402<br><br>F403,404<br><br>F403<br><br>F404<br><br>CN7,11<br>CN14 | BA06246A  |  | Power Supply P.C.B.<br>Ass'y (SR-2 (Canada<br>& Other) & SR-2A) |   |
| BA06247A   |   | Power Supply P.C.B.<br>Ass'y (SR-2<br>(Australia) & SR-2E<br>(Europe))  |  | OJ05197A  | Heat Sink (1)   |
| BA06820A   |   | Power Supply P.C.B.<br>Ass'y (SR-2E<br>(Germany))                       |  | OE03355A  | Earth Lug (1)   |
| 0B60384E   |   | Power Supply P.C.B.   |  | 0B90019A  | Insu-Lock SKB80<br>(6)  |
| 0B11252A   |   | IC AN78M12  |  | 0B90206A  | Insu-Lock SKB4M<br>(1)  |
| 0B10012A   |   | TR 2SD1415  |  | OJ05225A  | Capacitor Cushion<br>(1)  |
| 0B01872A   |   | TR 2SC945L (P,Q)  |  |   |   |
| 0B12153A   |   | ZD 6.2V<br>RD6.2JS-T1B2   |  |   |   |
| 0B12181A   |   | ZD 15V<br>RD15JS-T1B2   |  |   |   |
| 0B12387A   |   | SID RBV-402   |  |   |   |
| 0B12362A   |   | SID S5566B (13)   |  |   |   |
| 0B06398A   |   | SID 1SS176  |  |   |   |
| 0B09665A   |   | RK 330 1/6W J   |  |   |   |
| 0B09669A   |   | RK 470 1/6W J   |  |   |   |
| 0B09685A   |   | RK 2.2K 1/6W J  |  |   |   |
| 0B01887A   |   | RK 5.6K 1/4W J  |  |   |   |
| 0B01683A   |   | RK 15K 1/4W J   |  |   |   |
| 0B09689A   |   | RK 3.3K 1/6W J  |  |   |   |
| 0B41286A   |   | CMM 0.01 $\mu$ 50V J<br>(SR-2E (Germany))                               |  |   |   |
| 0B40409A   |   | CE 6800 $\mu$ 63V   |  |   |   |
| 0B40095A   |   | CE 1000 $\mu$ 25V   |  |   |   |
| 0B40079A   |   | CE 220 $\mu$ 16V  |  |   |   |
| 0B41298A   |   | CMM 0.1 $\mu$ 50V J<br>(9)  |  |   |   |
| 0B01412A   |   | CE 10 $\mu$ 16V   |  |   |   |
| 0B40082A   |   | CE 1000 $\mu$ 16V   |  |   |   |
| 0B40078A   |   | CE 100 $\mu$ 16V  |  |   |   |
| 0B40094A   |   | CE 470 $\mu$ 25V  |  |   |   |
| 0B40123A   |   | CE 470 $\mu$ 50V  |  |   |   |
| 0B40104A   |   | CE 100 $\mu$ 35V  |  |   |   |
| 0B40100A   |   | CE 10 $\mu$ 35V   |  |   |   |
| 0B40099A   |   | CE 4.7 $\mu$ 35V  |  |   |   |
| 0B08574A   |   | Fuse 4A (SR-2<br>(Canada & Other) &<br>SR-2A)                           |  |   |   |
| 0B08625A   |   | Fuse T2.5A 250V<br>(SR-2 (Australia) &<br>SR-2E (Europe &<br>Germany))  |  |   |   |
| 0B08374A   |   | Fuse 1A (SR-2<br>(Canada & Other)<br>& SR-2A)                           |  |   |   |
| 0B08263U   |   | Fuse T315mA 250V<br>(SR-2 (Australia) &<br>SR-2E (Europe &<br>Germany)) |  |   |   |
| 0B08347U   |   | Fuse T1A 250V<br>(SR-2 (Australia) &<br>SR-2E (Europe &<br>Germany))    |  |   |   |
| 0B81635A   |   | 3P-T Post   |  |   |   |
| 0B81636A   |   | 4P-T Post   |  |   |   |

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

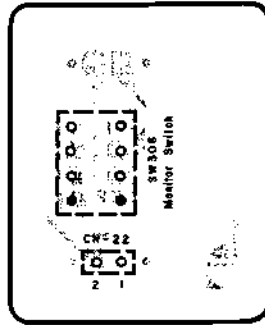


Fig. 5.10

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



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

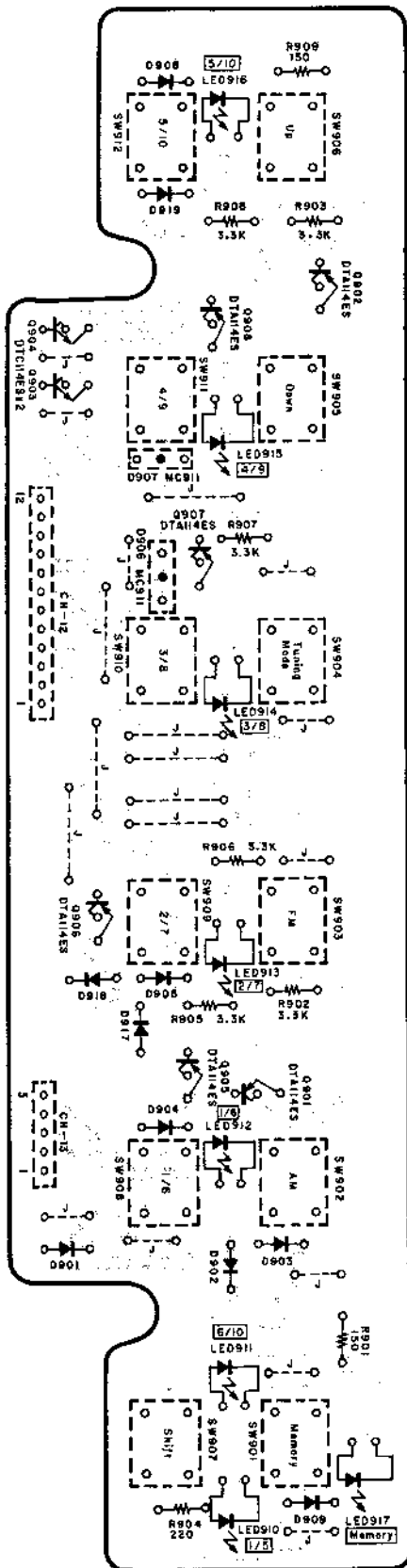


Fig. 5.11.1 2nd Version

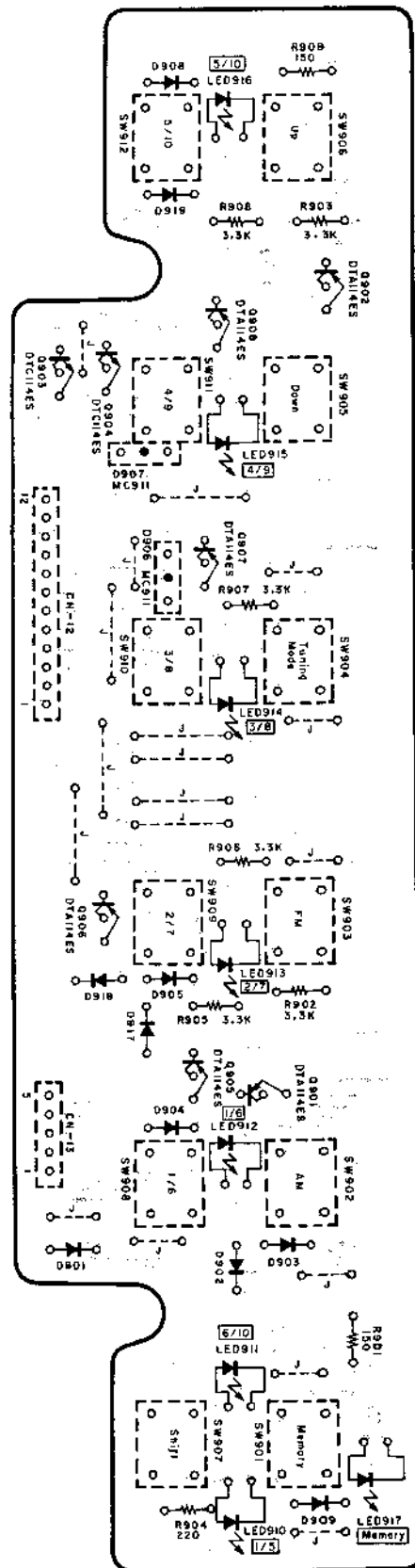


Fig. 5.11.2 1st Version

5.12. Display P.C.B. Ass'y  
 5.12.1. For SR-2 (Canada) & SR-2A  
 (1) 2nd Version

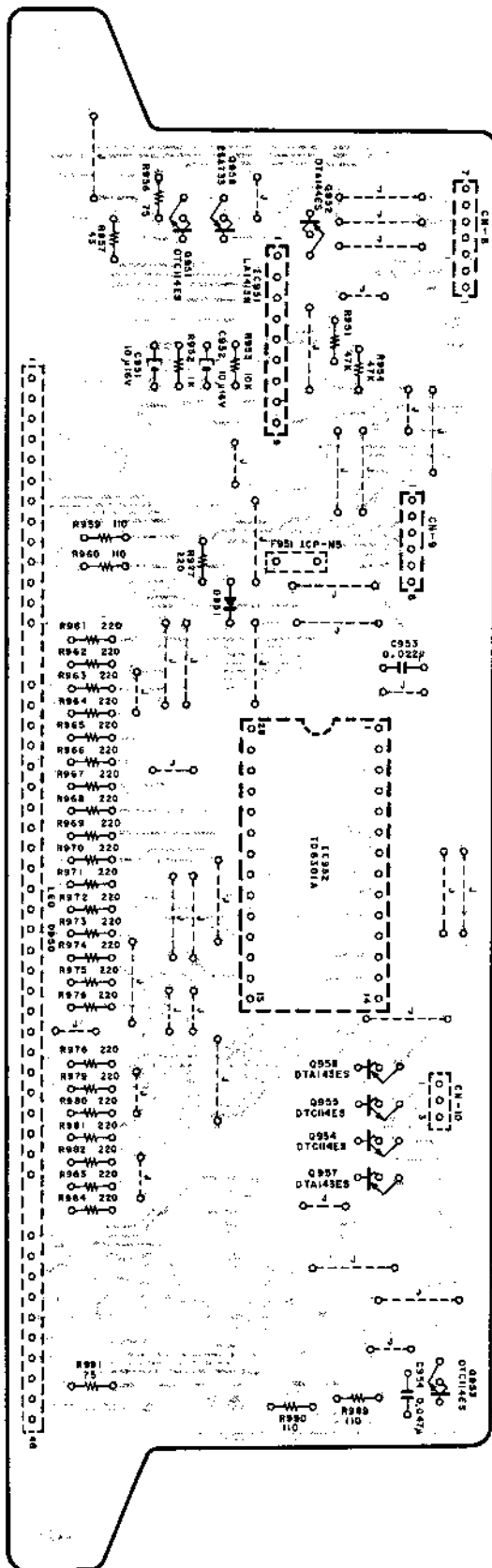


Fig. 5.12.1.1 2nd Version

(2) 1st Version

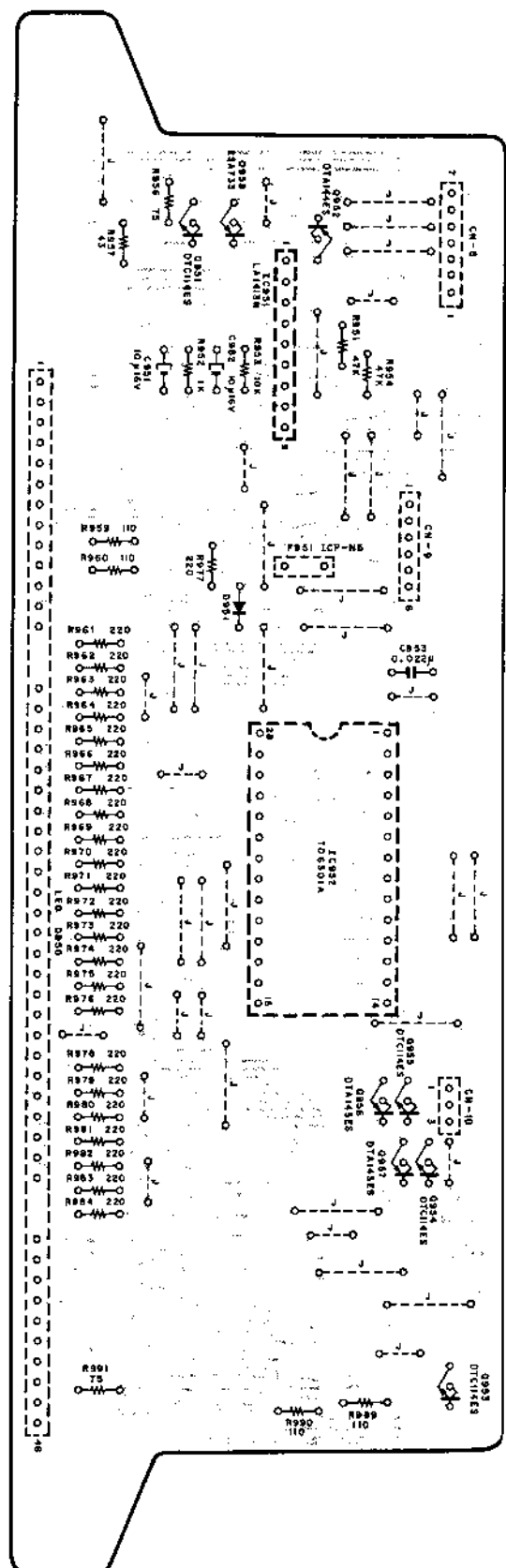


Fig. 5.12.1.2 1st Version

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

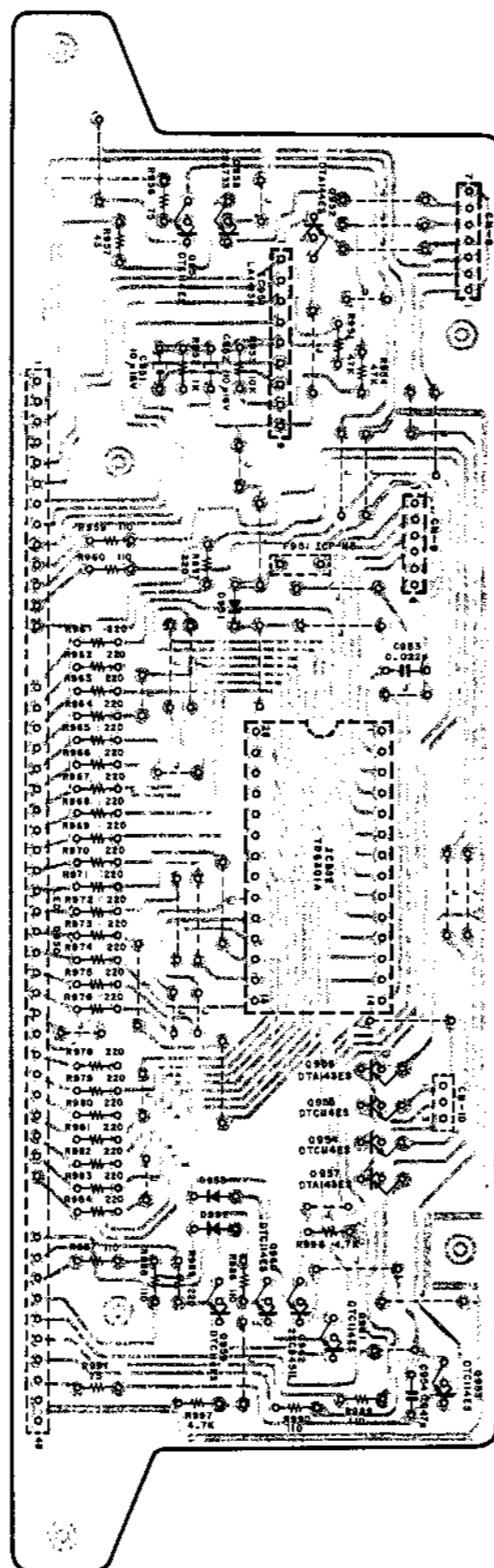


Fig. 5.12.2.1 2nd Version

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

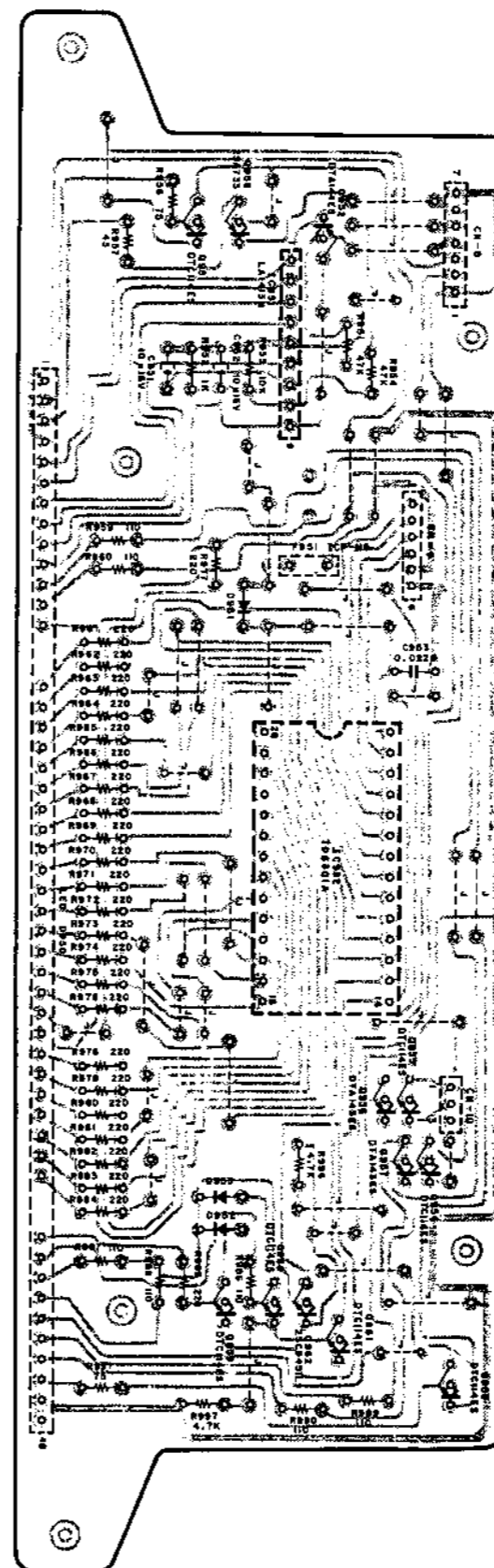


Fig. 5.12.2.2 1st Version

| 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

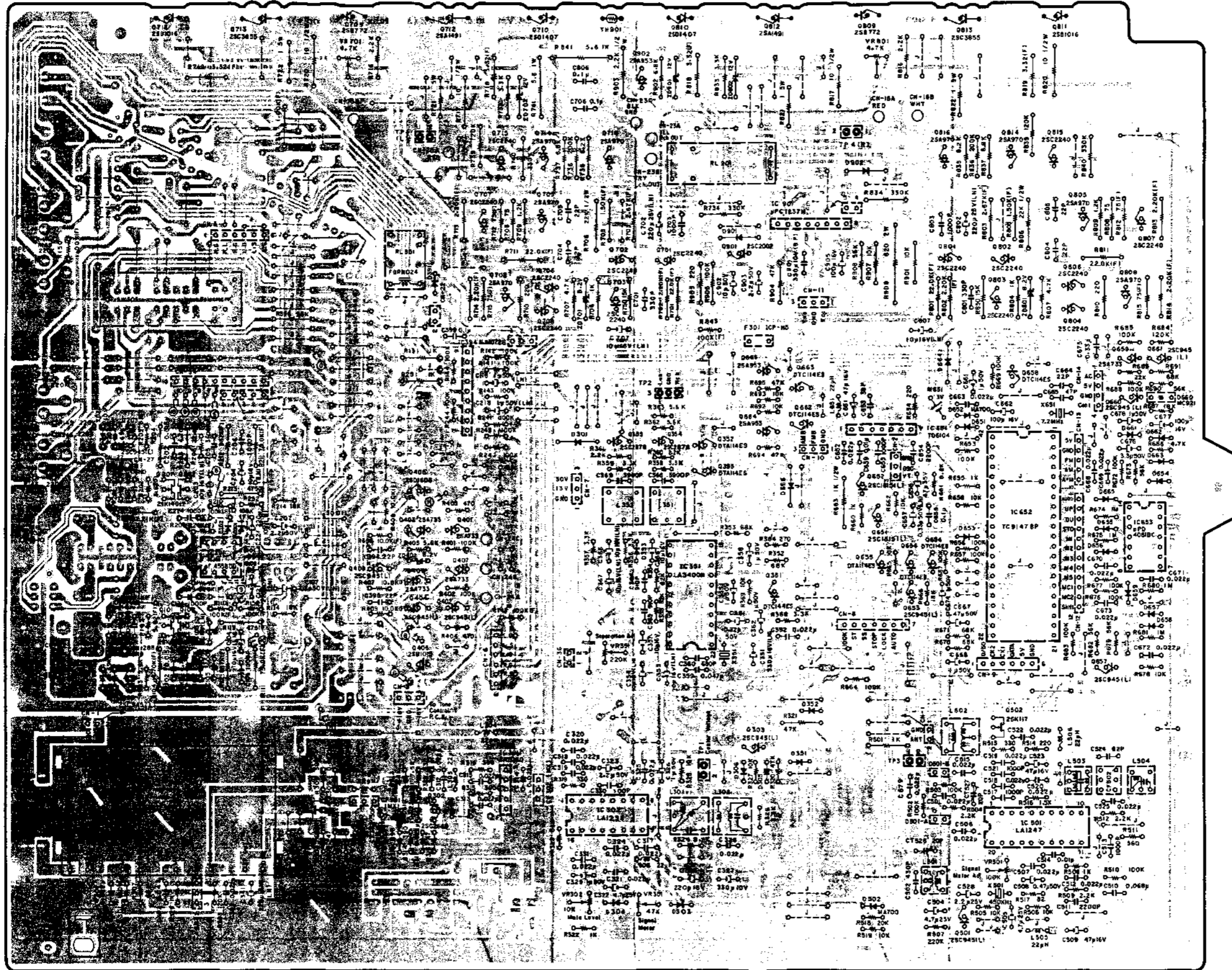


Fig. 5.13.1.1 2nd Version (For SR-2 (Canada) & SR-2A)



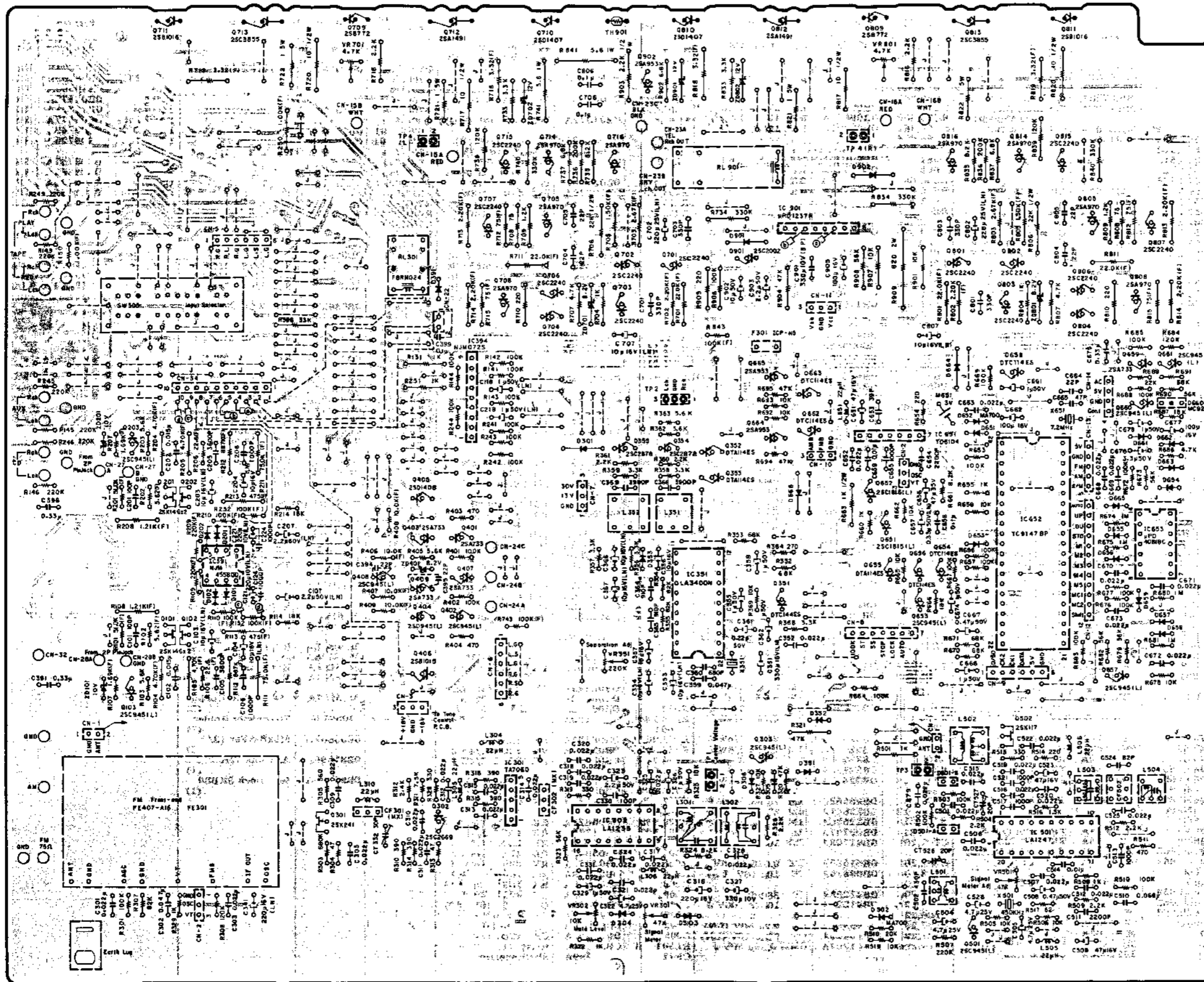
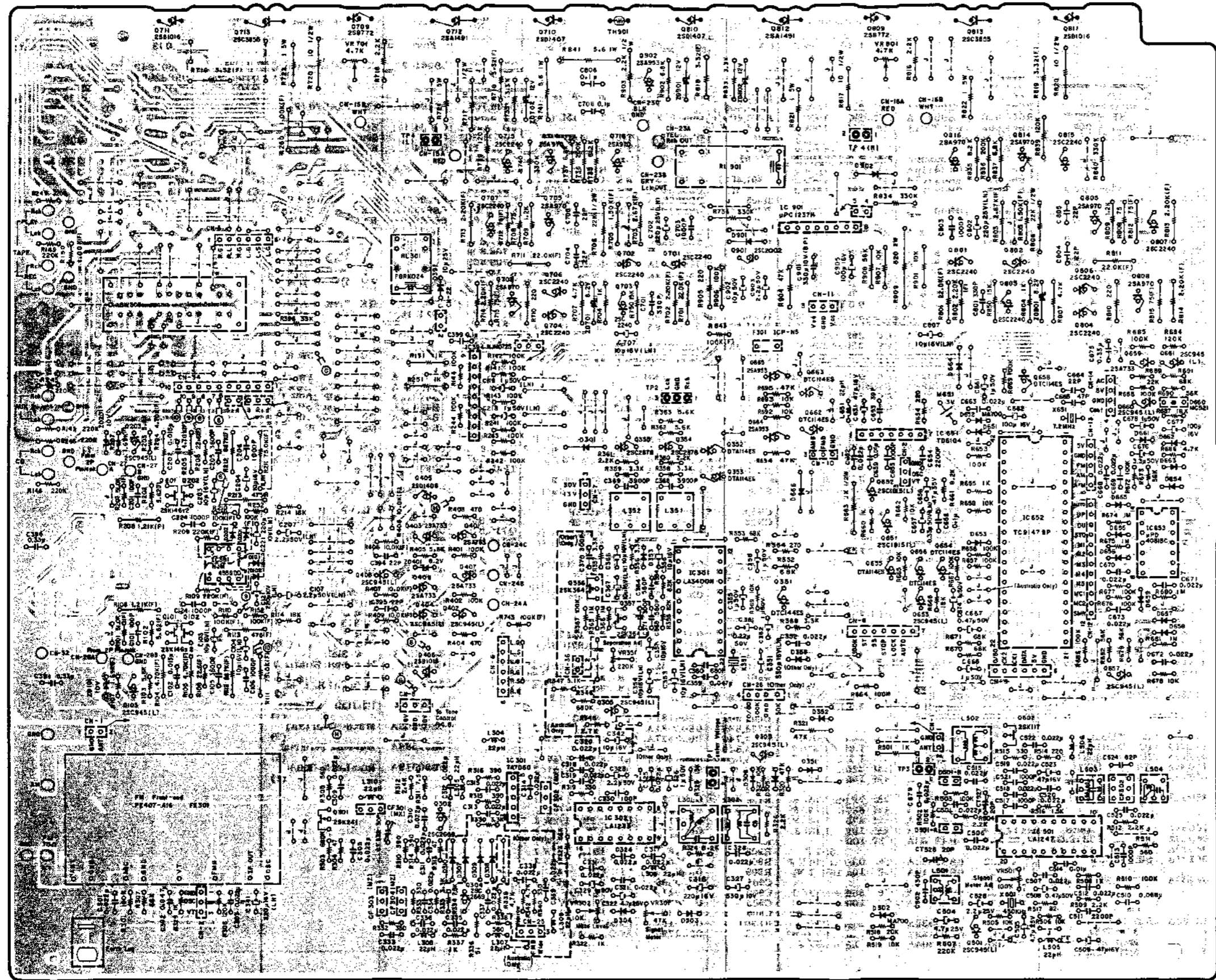


Fig. 5.13.1.2 1st Version (For SR-2 (Canada) & SR-2A)



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 -   |  |
| IC801              | OB11156A | IC TA7060AP                                  |
| IC802              | OB11157A | IC LA1285                                    |
| 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                                |
| R315,316           |          |  |
| 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            |          |  |
| 315,316            |          |  |
| 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 100F 50V J                                |
| C341               | OB40420A | CE 220μ 16V (L,N)                            |
| 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 | 3P-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                                 |

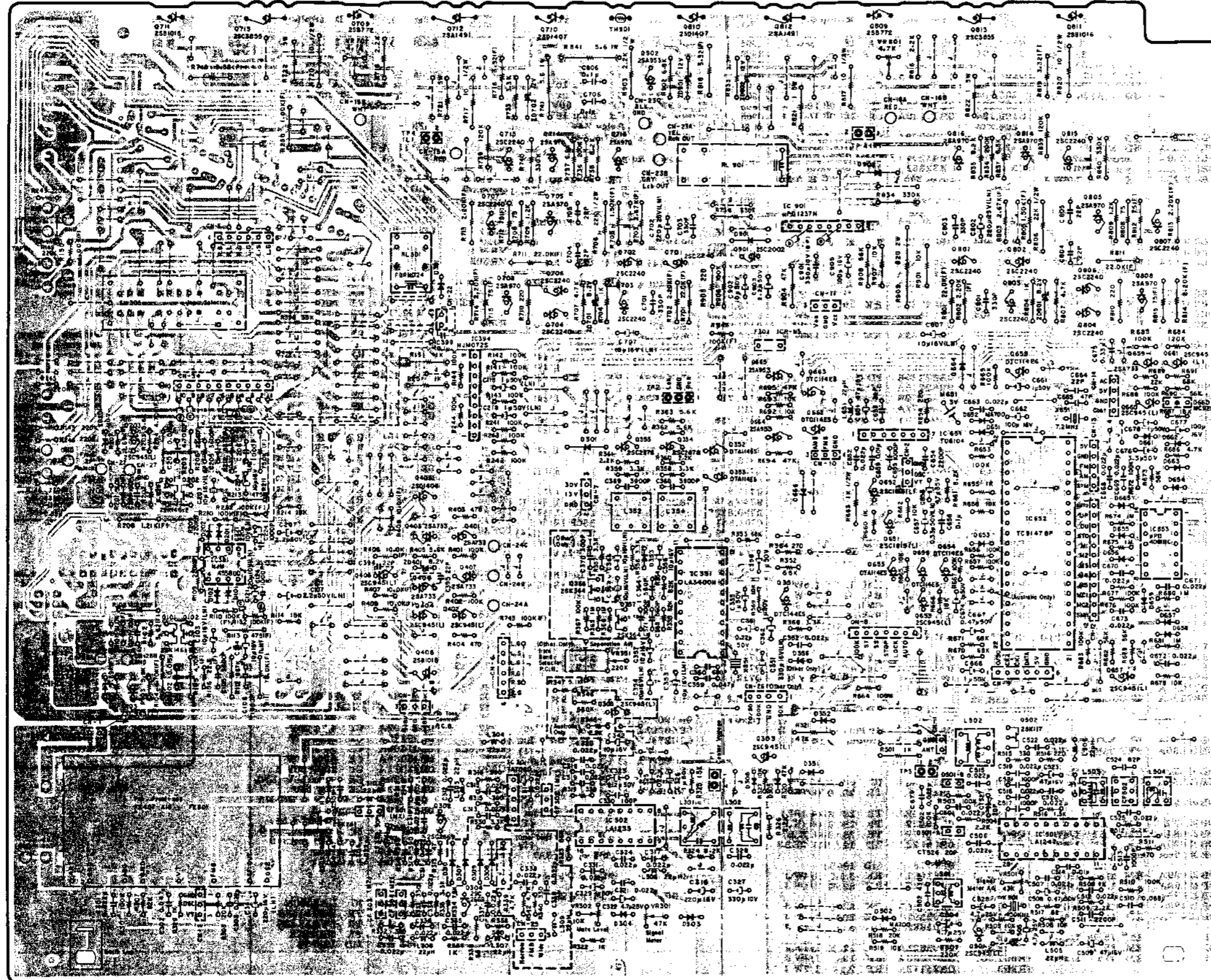
Note: For Australia, D309, D310, and pins 1 and 2 of CN-25 are shorted with jumper wires.

Fig. 6.13.2.1 2nd Version (For SR-2 (Other & Australia))





(2) 1st Version



| Schematic Ref. No. | Part No. | Description                                  |
|--------------------|----------|--|
|                    | BA06236A | Main F.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               | 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               | 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                |          |  |
| 338-339            |          |  |
| 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               | OB12383A | 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))



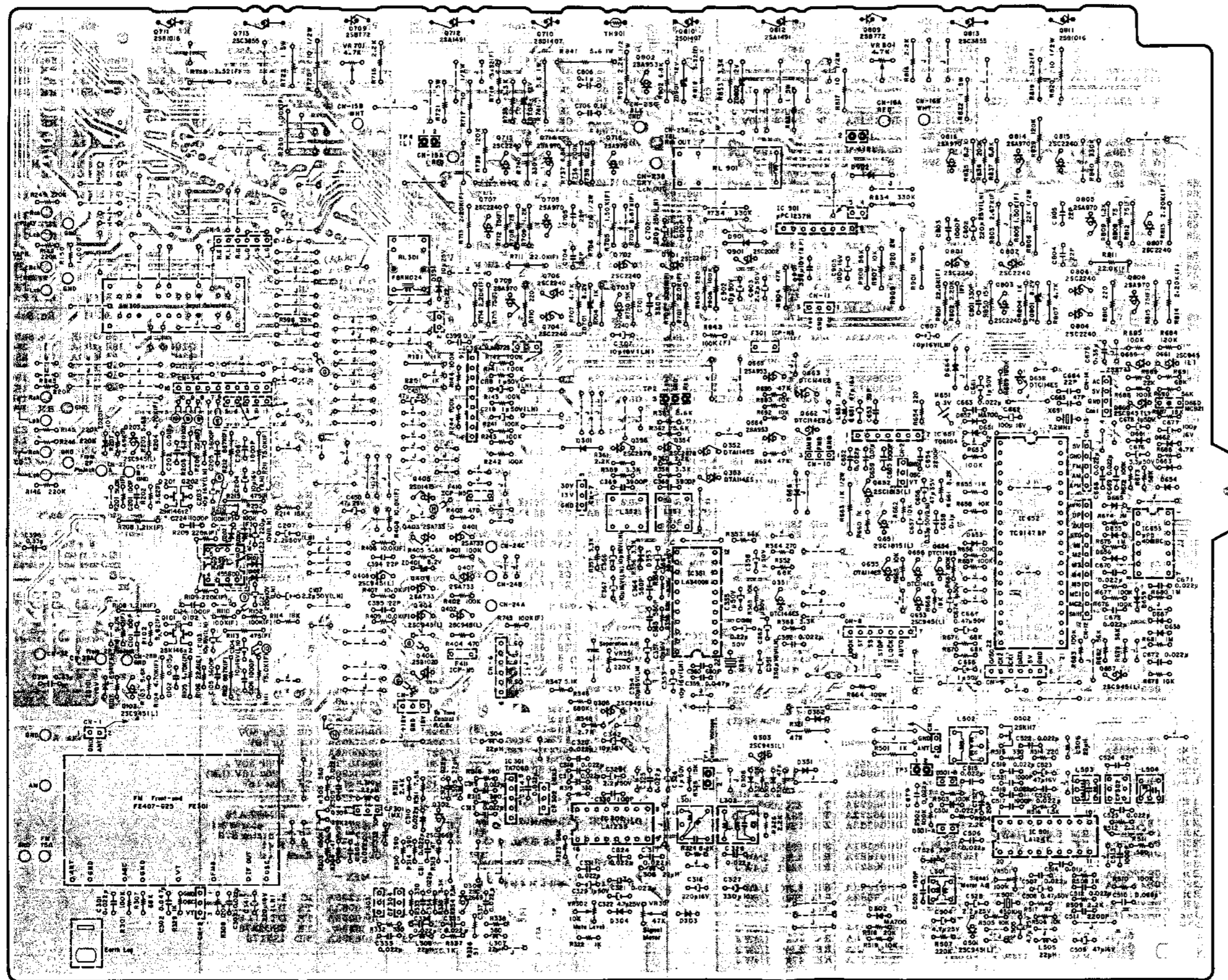
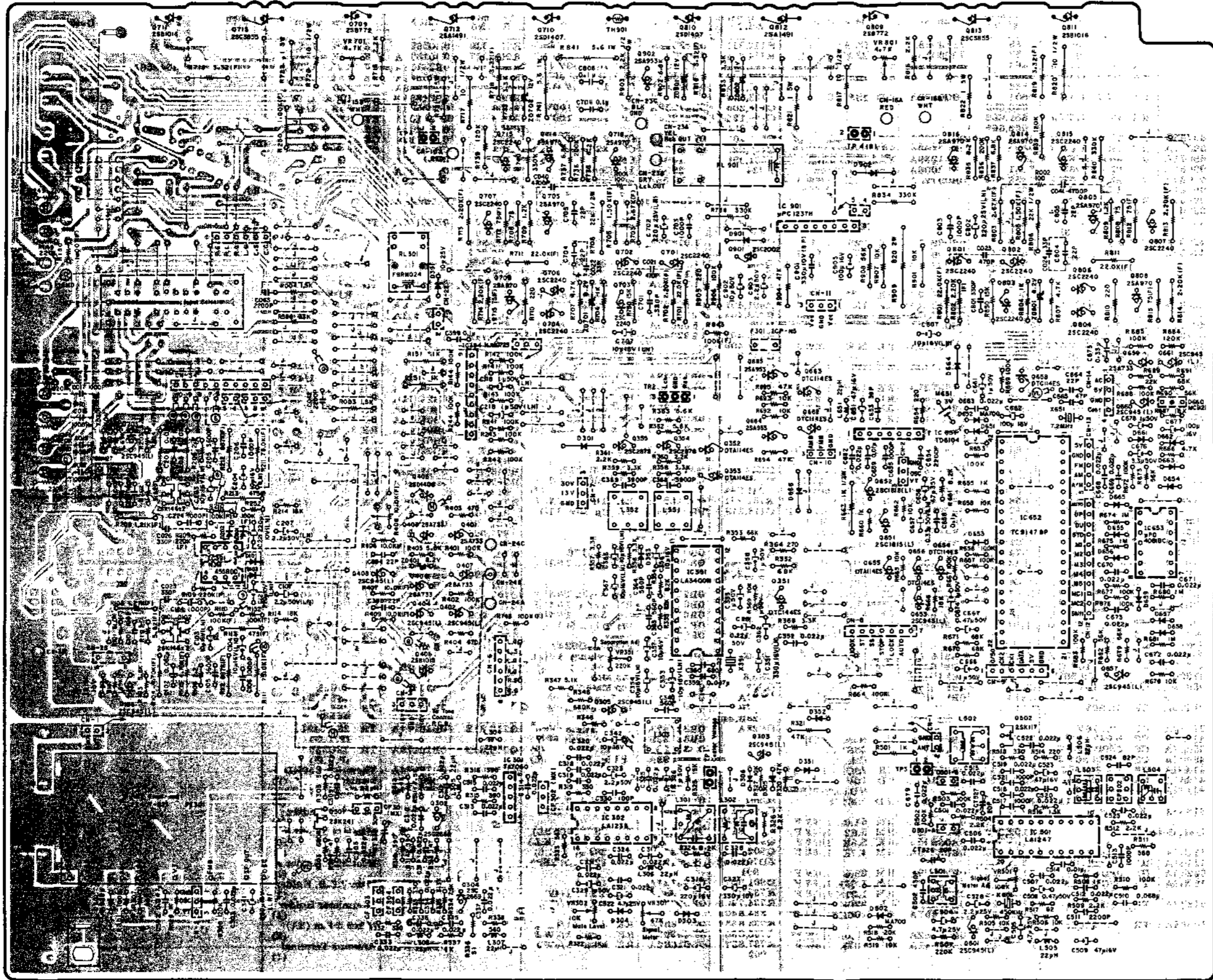


Fig. 5.13.3 For SR-2E (Europe)



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                       |
| R315,316           |          |                                     |
| 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                       |
| R33                |          |                                     |
| R320               | OB09717A | RK 47K 1/6W J                       |
| R321               | OB05641A | RK 47K 1/4W J                       |
| R322,329           | OB09677A | RK 1K 1/6W J                        |
| R337               |          |                                     |
| 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 61 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                           |
|                    | 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                           |

Fig. 5.13.4 For SR-2E (Germany)



6. SCHEMATIC DIAGRAMS

6.1. IC Block Diagrams

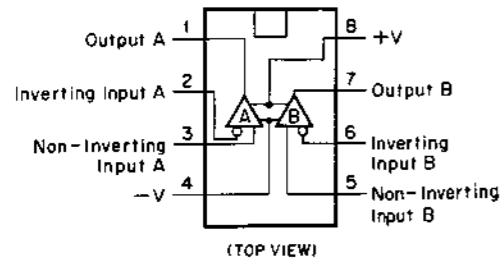


Fig. 6.1.1 Operational Amp. IC 4558DD, 072DE

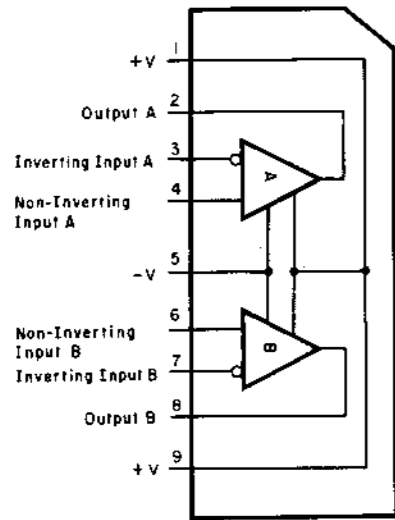


Fig. 6.1.2 Operational Amp. IC 072S

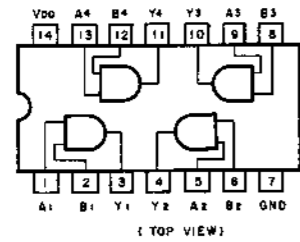


Fig. 6.1.3 AND Gate C-MOS IC μPD4081BC

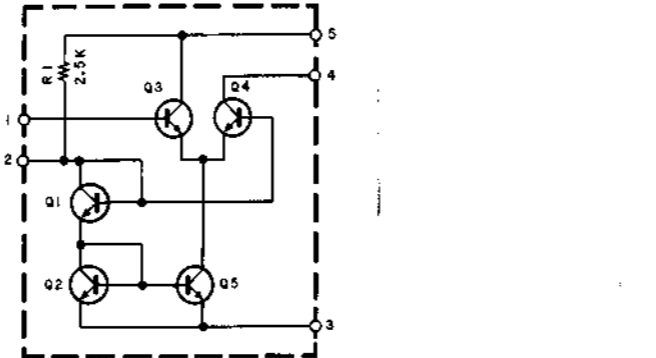


Fig. 6.1.4 FM IF Amp. IC TA7060AP

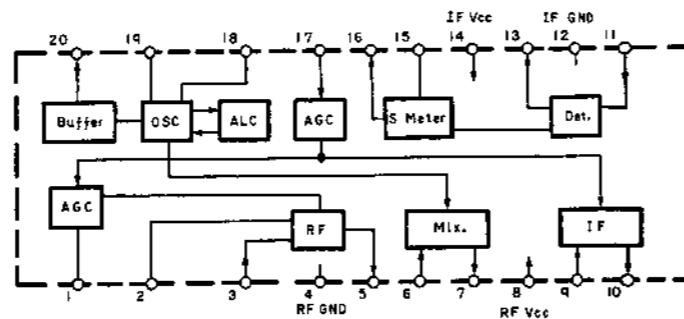


Fig. 6.1.5 AM Tuner IC LA1247

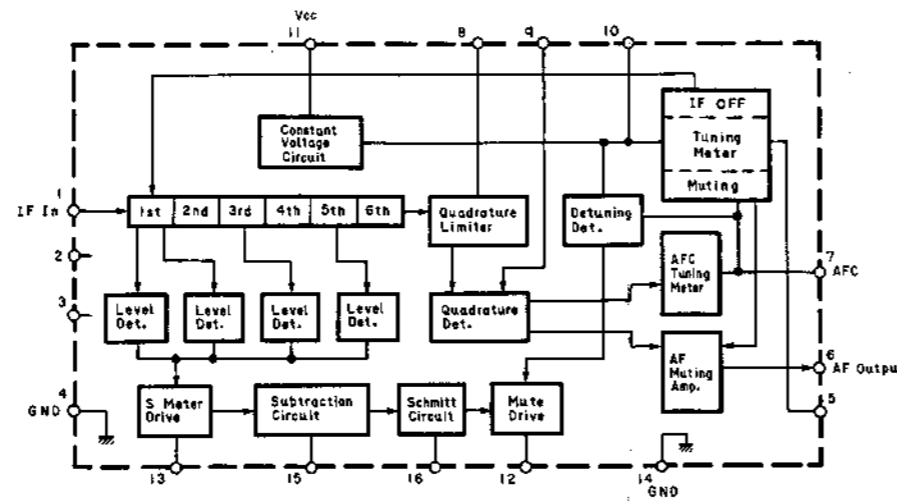


Fig. 6.1.6 FM IF System IC LA1235

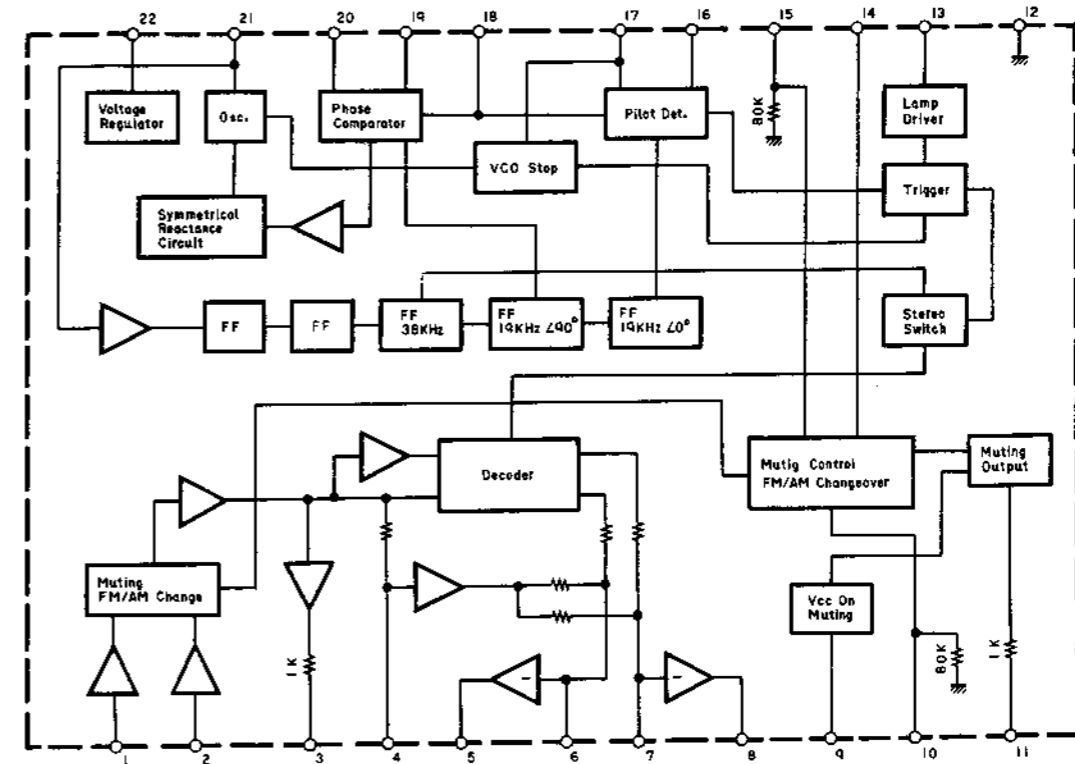


Fig. 6.1.7 FM Stereo Demodulator IC LA3400N

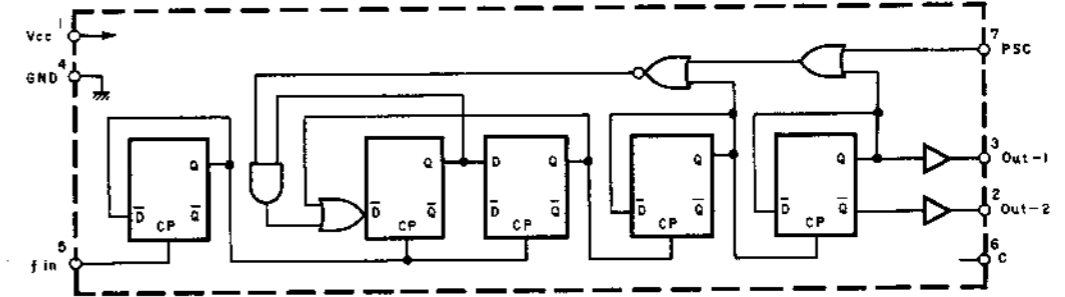


Fig. 6.1.8 ECL Prescaler (FM) IC TD6104



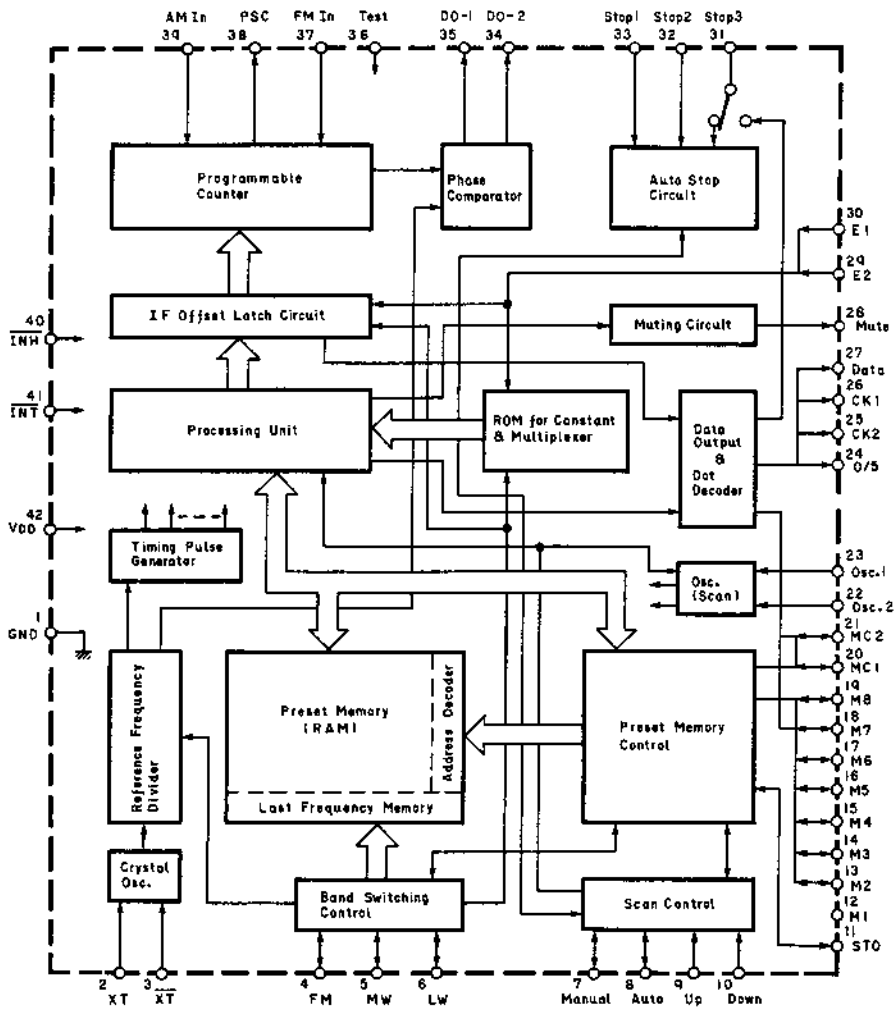


Fig. 6.1.9 FM/MW/LW 3-Band Digital Tuning (Stable Method) IC TC9147BP

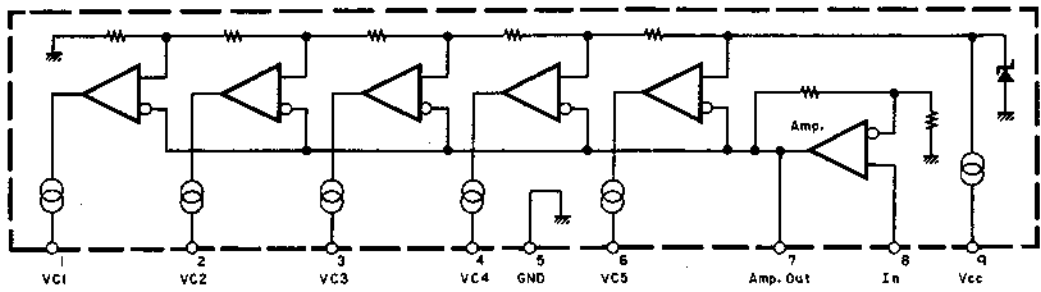


Fig. 6.1.10 Signal Meter Driver IC LB1413N

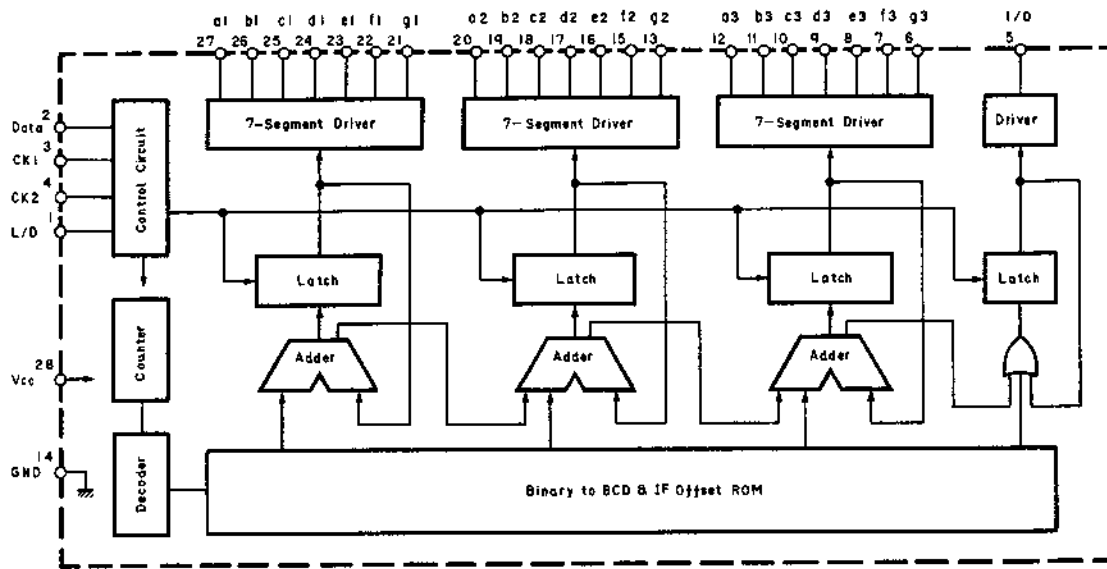


Fig. 6.1.11 Indicator Driver IC TD6801A

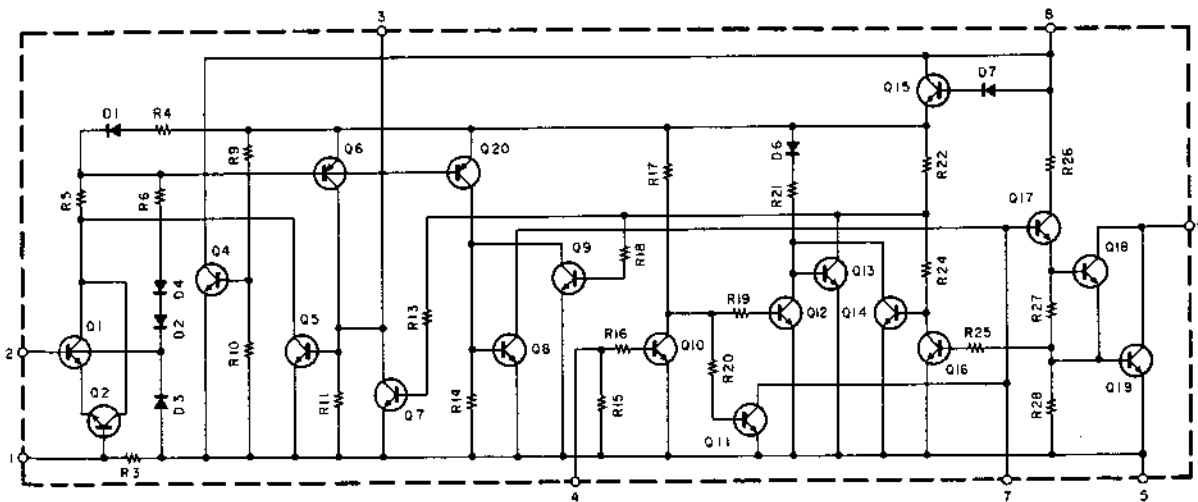


Fig. 6.1.12 Power Amp./Speaker Protector IC μPC1237H

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

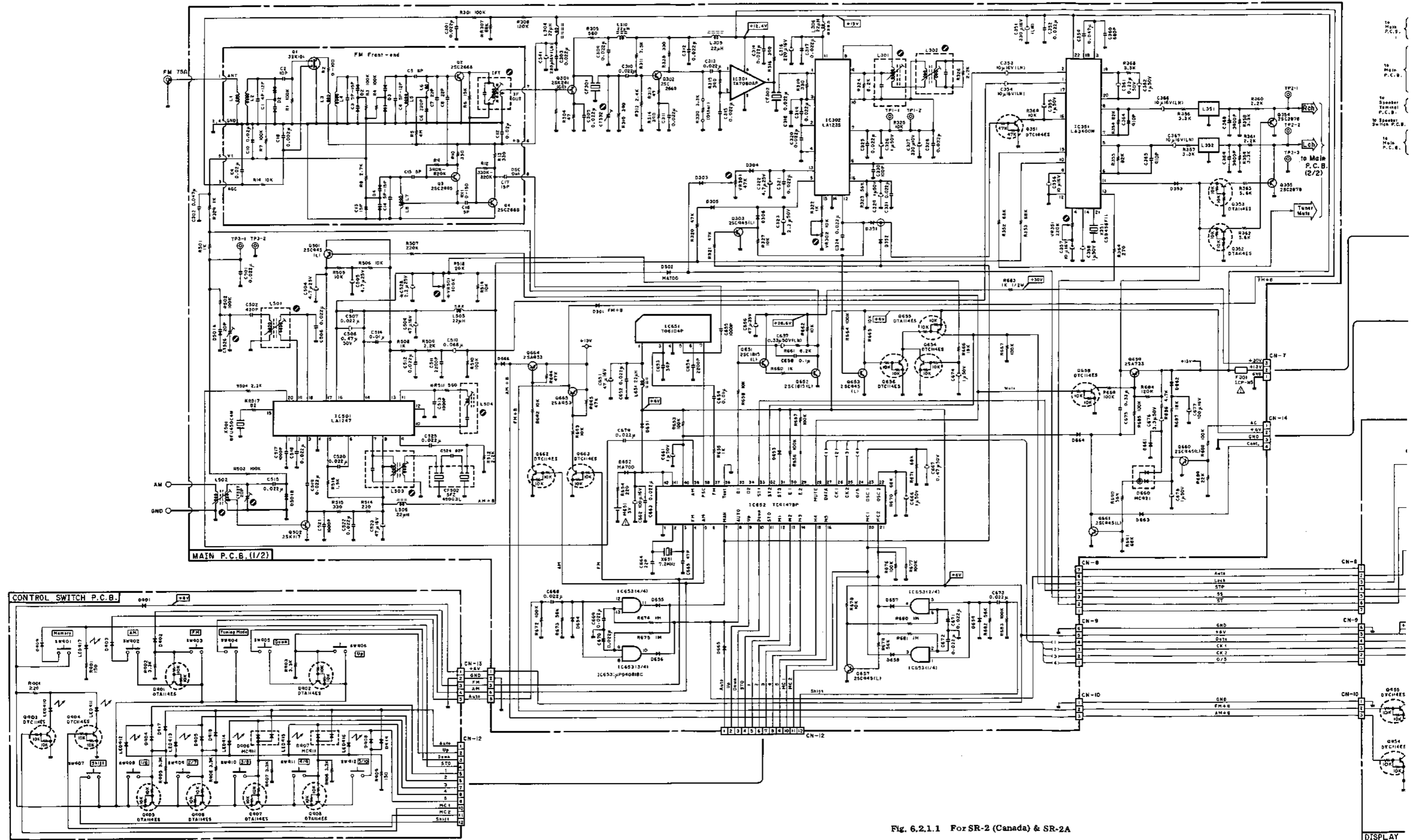


Fig. 6.2.1.1 For SR-2 (Canada) & SR-2A

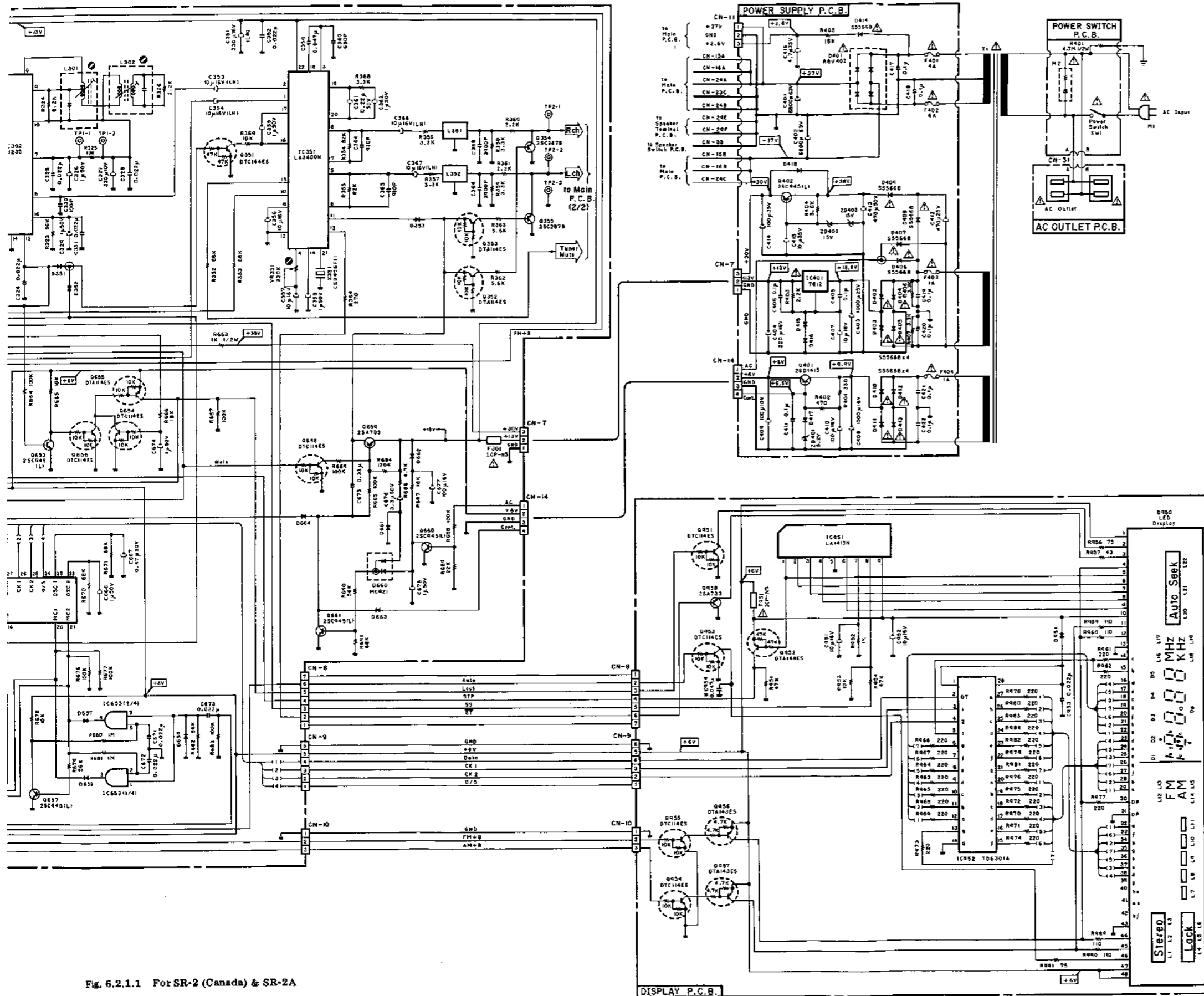



Fig. 6.2.1.1 For SR-2 (Canada) & SR-2A

**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 1S1176 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)

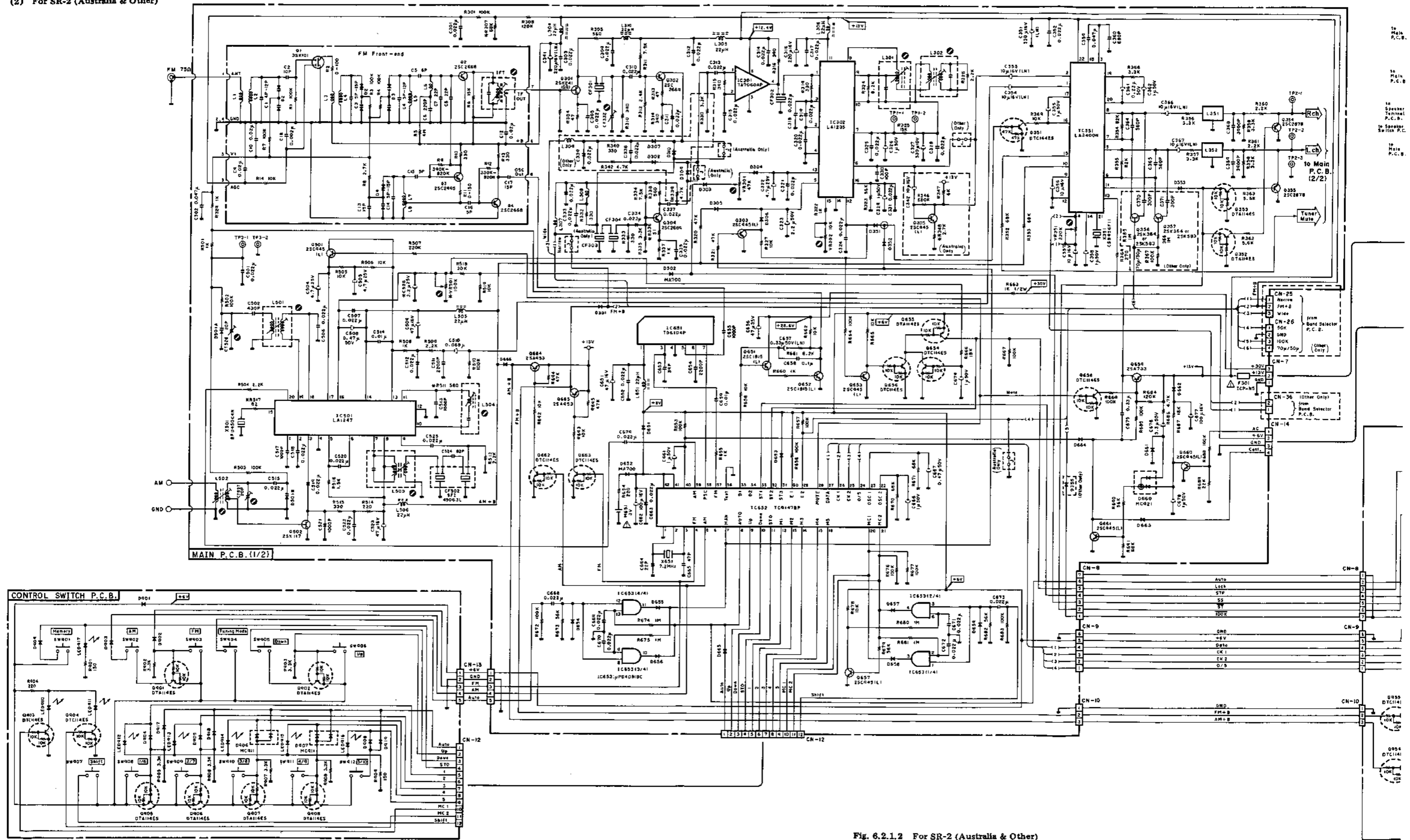


Fig. 6.2.1.2 For SR-2 (Australia & Other)

To Main P.C.B.  
To Speaker Terminal P.C.B.  
To Main P.C.B.  
To Main P.C.B.

DISPLAY

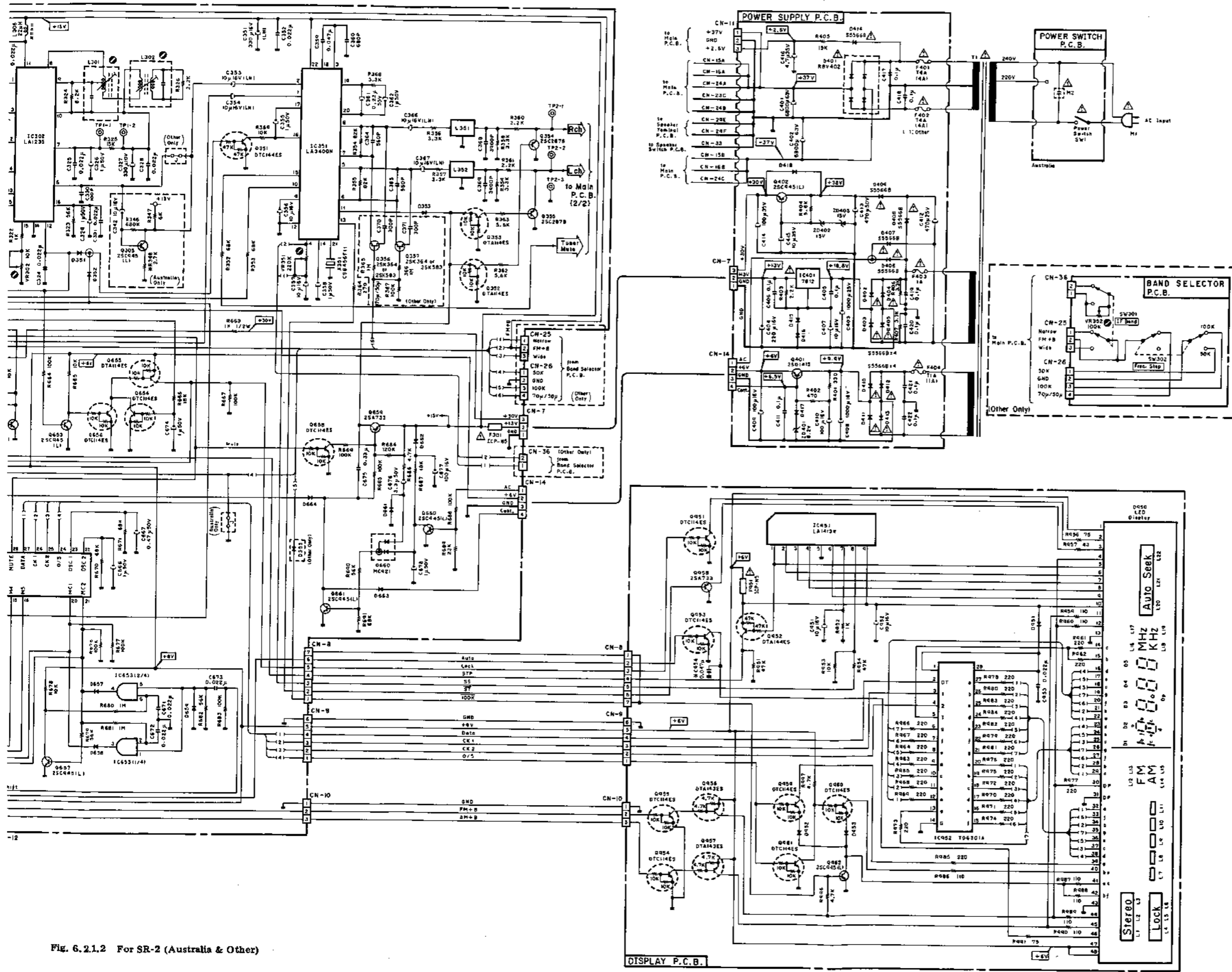



Fig. 6.2.1.2 For SR-2 (Australia & Other)

**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)

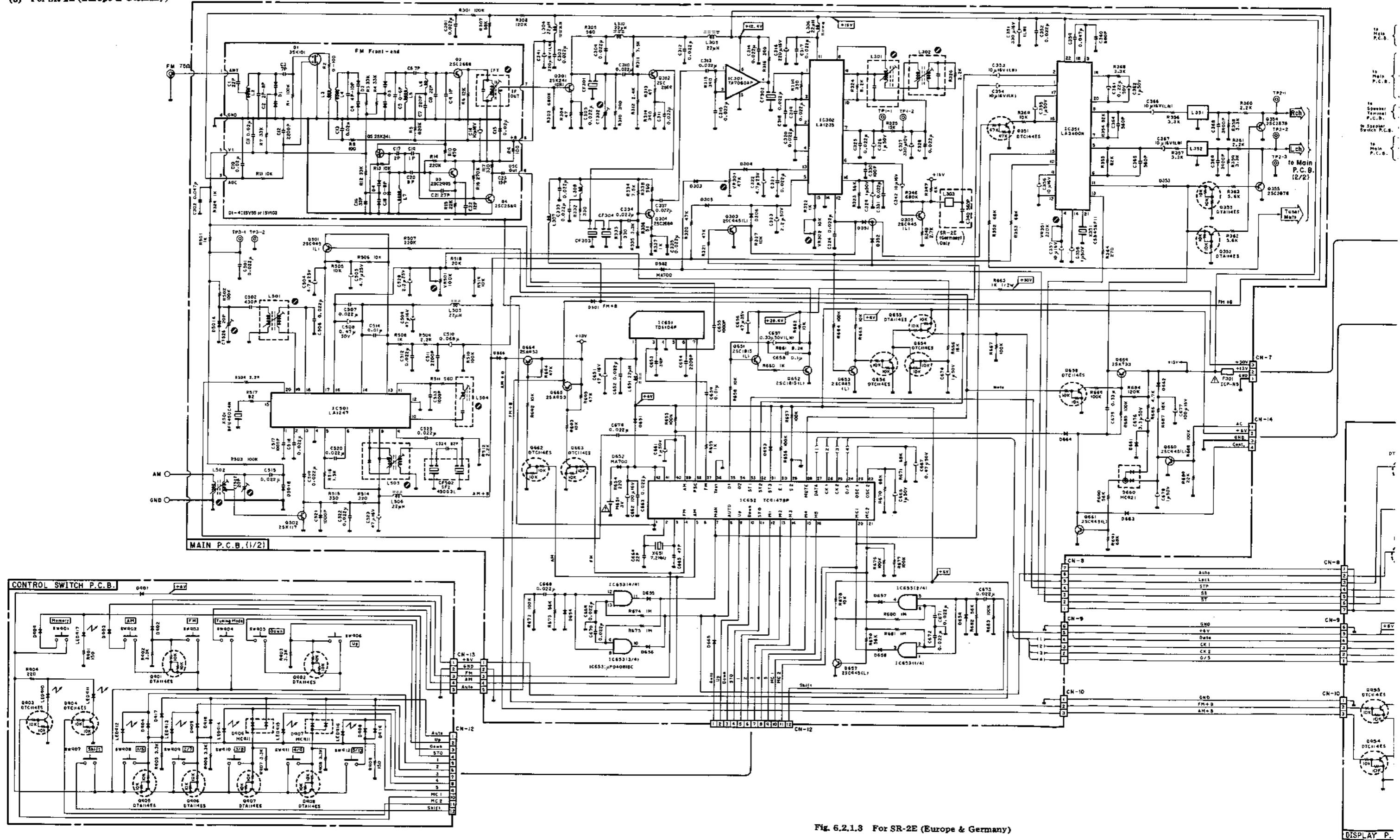


Fig. 6.2.1.3 For SR-2E (Europe & Germany)

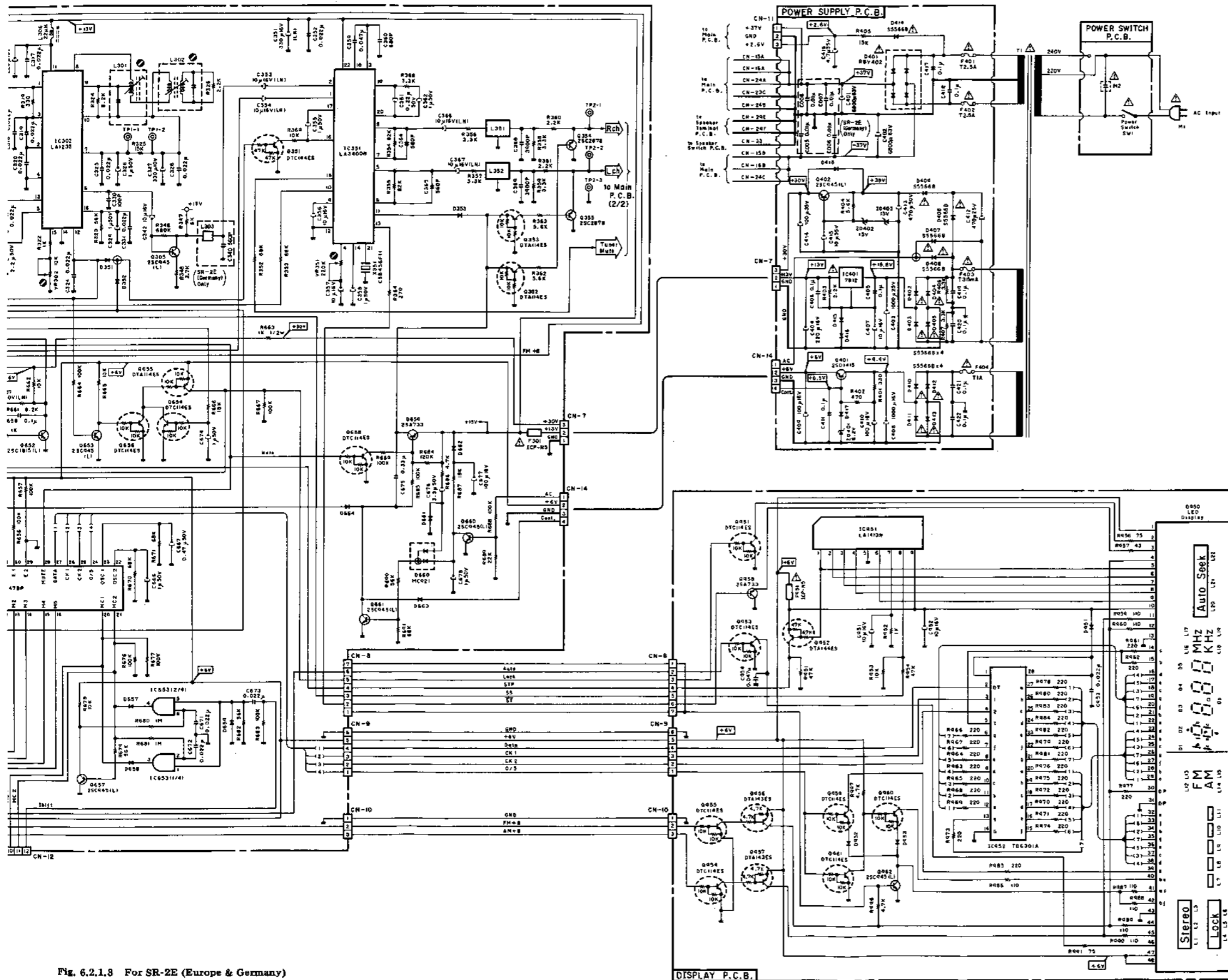



Fig. 6.2.1.3 For SR-2E (Europe & Germany)

**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. 2SA733, 2SA608SP, 2SA1048 and 2SA1175 are interchangeable with each other.
  3. 2SC945, 2SC5368P, 2SC2458 and 2SC2785 are interchangeable with each other.



6.2.2. Amplifier Section  
(1) For SR-2 & SR-2A

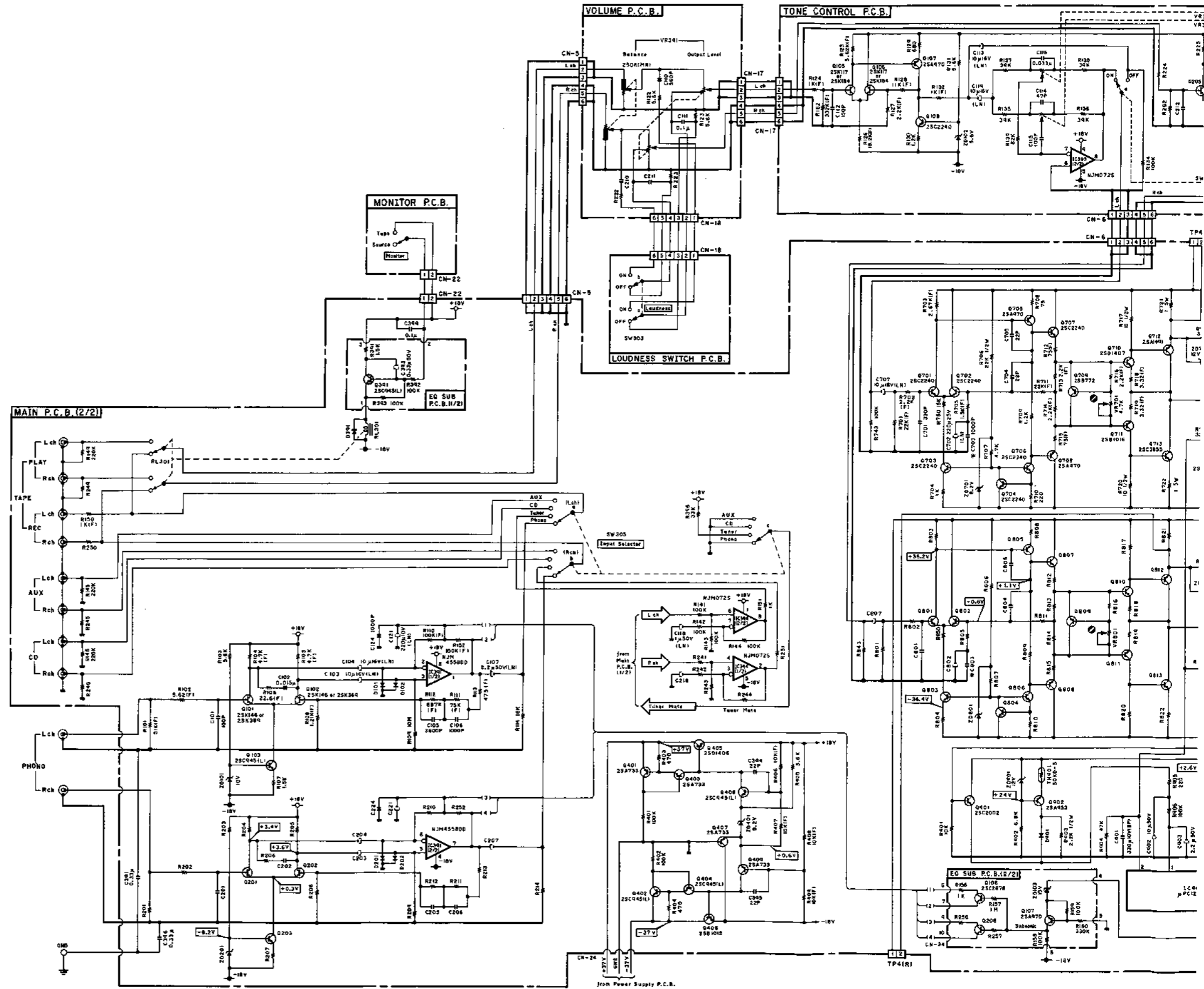
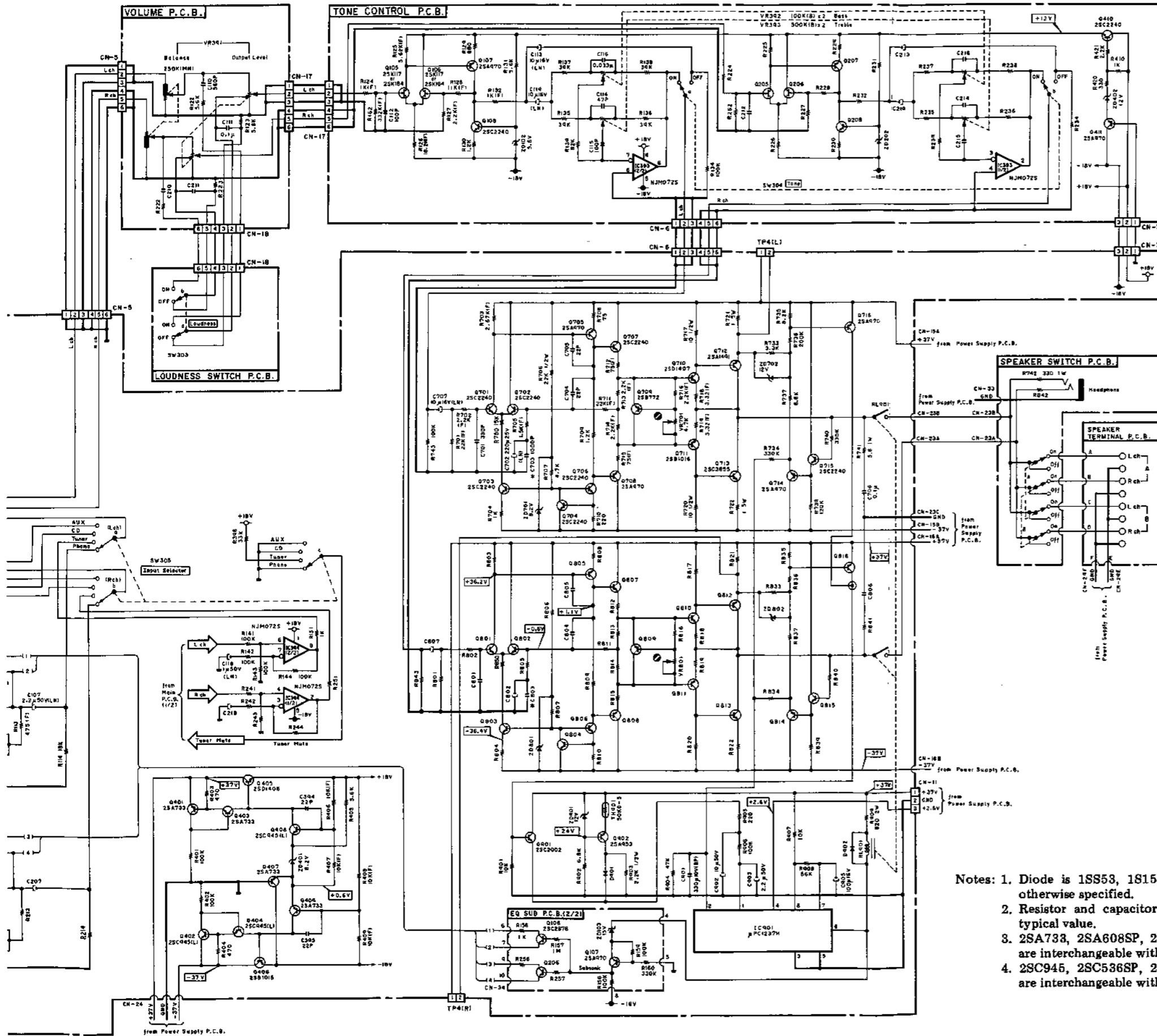
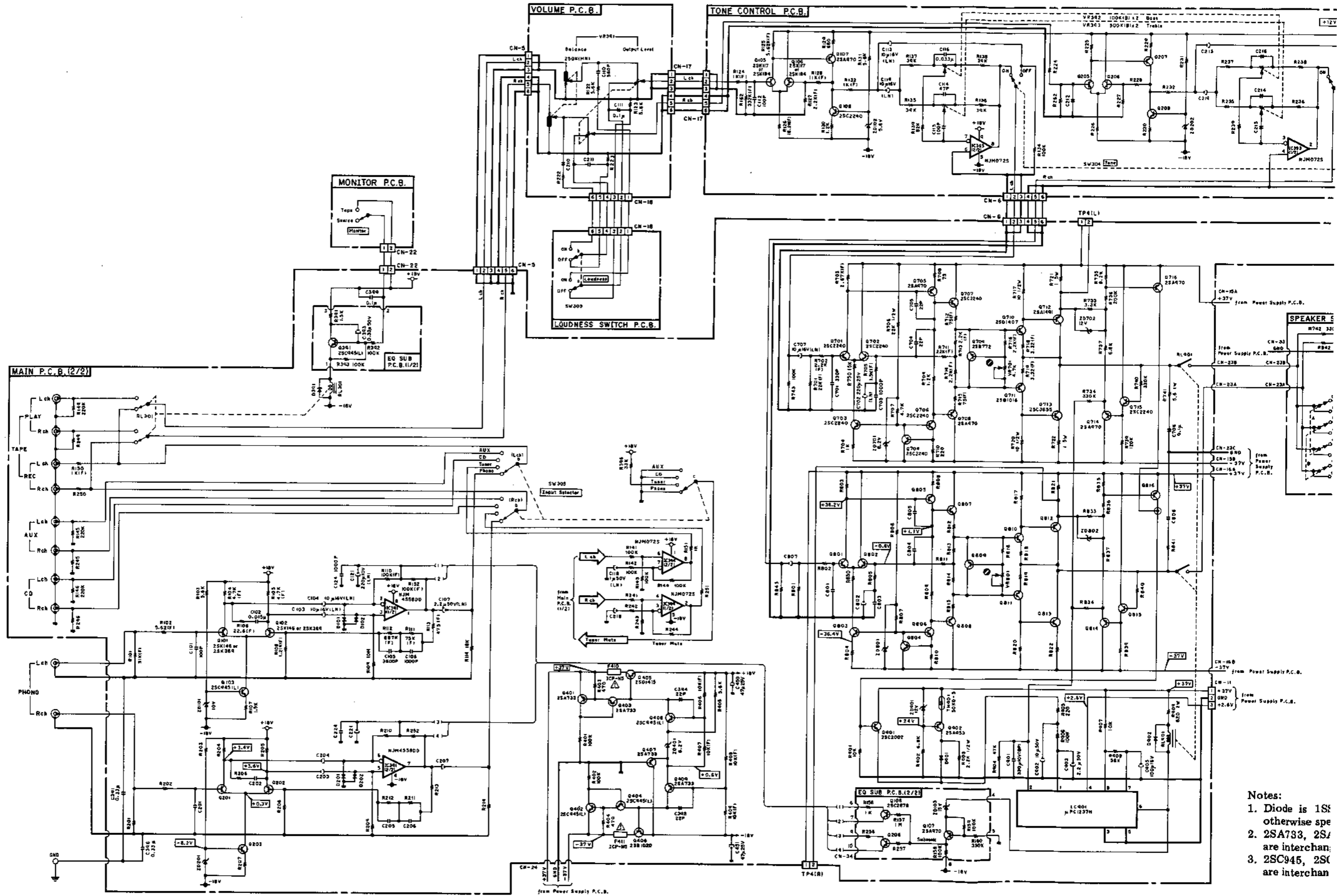


Fig. 6.2.2.1 For SR-2 & SR-2A



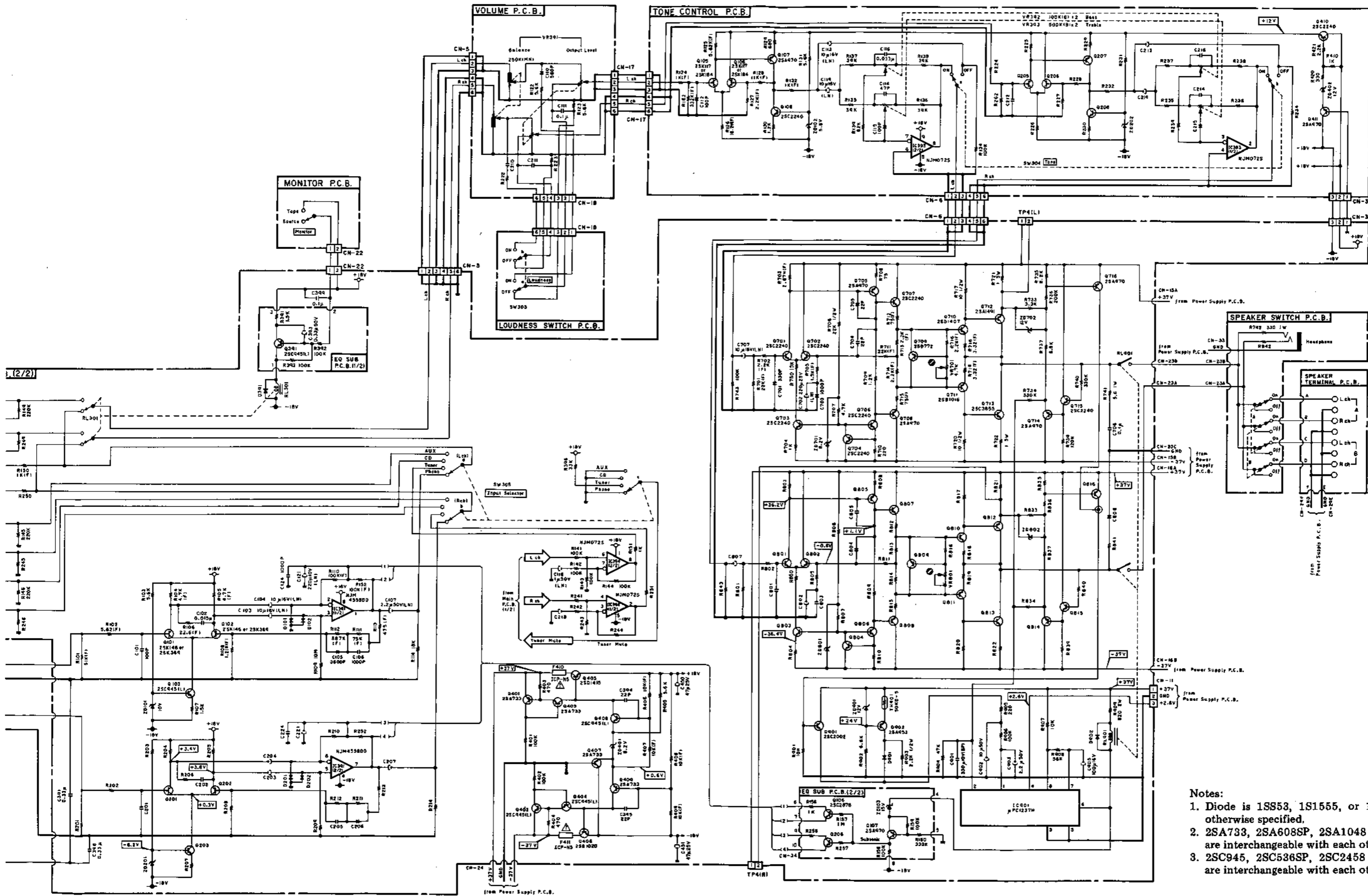
- Notes:
1. Diode is 1SS53, 181555, or 1SS176 unless otherwise specified.
  2. Resistor and capacitor marked with \* show typical value.
  3. 2SA733, 2SA608SP, 2SA1048 and 2SA1175 are interchangeable with each other.
  4. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

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



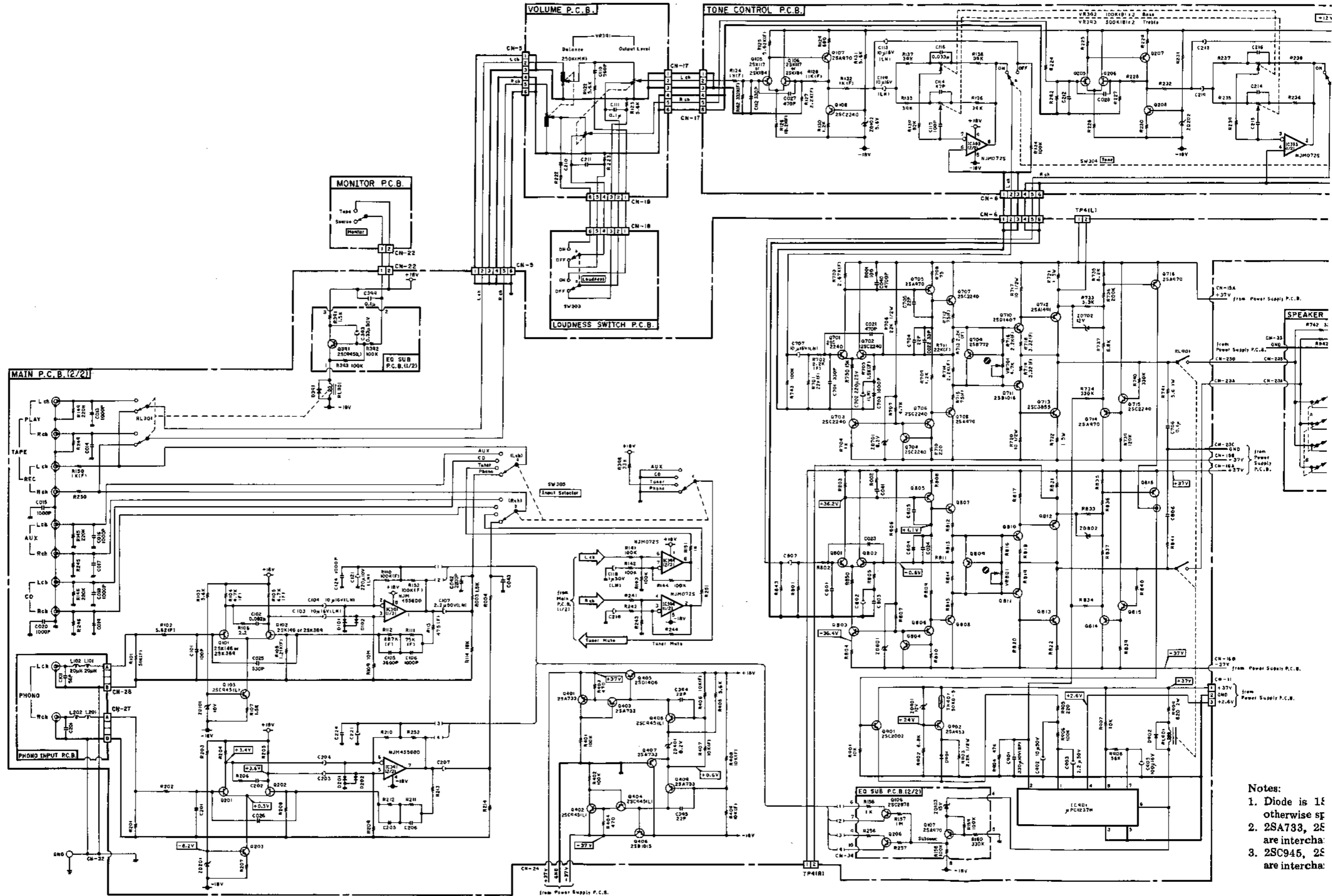
- Notes:
1. Diode is 1S/ otherwise spe
  2. 2SA733, 2S/ are interchan;
  3. 2SC945, 2S/ are interchan

Fig. 6.2.2.2 For SR-2E (Europe)



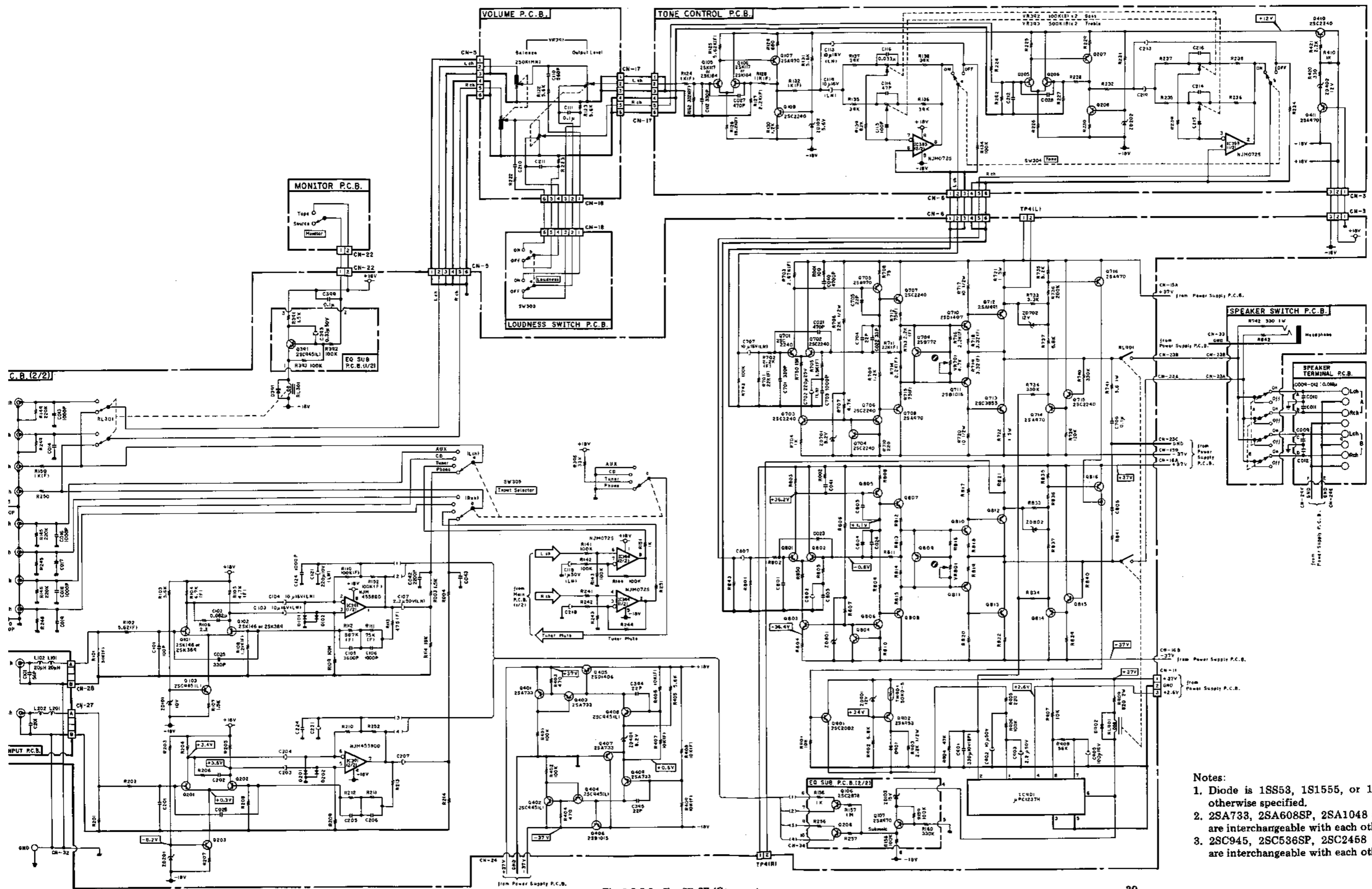
- Notes:
1. Diode is 1S853, 1S1555, or 1SS176 unless otherwise specified.
  2. 2SA733, 2SA608SP, 2SA1048 and 2SA1175 are interchangeable with each other.
  3. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

Fig. 6.2.2.2 For SR-2E (Europe)



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

Fig. 6.2.2.3 For SR-2E (Germany)

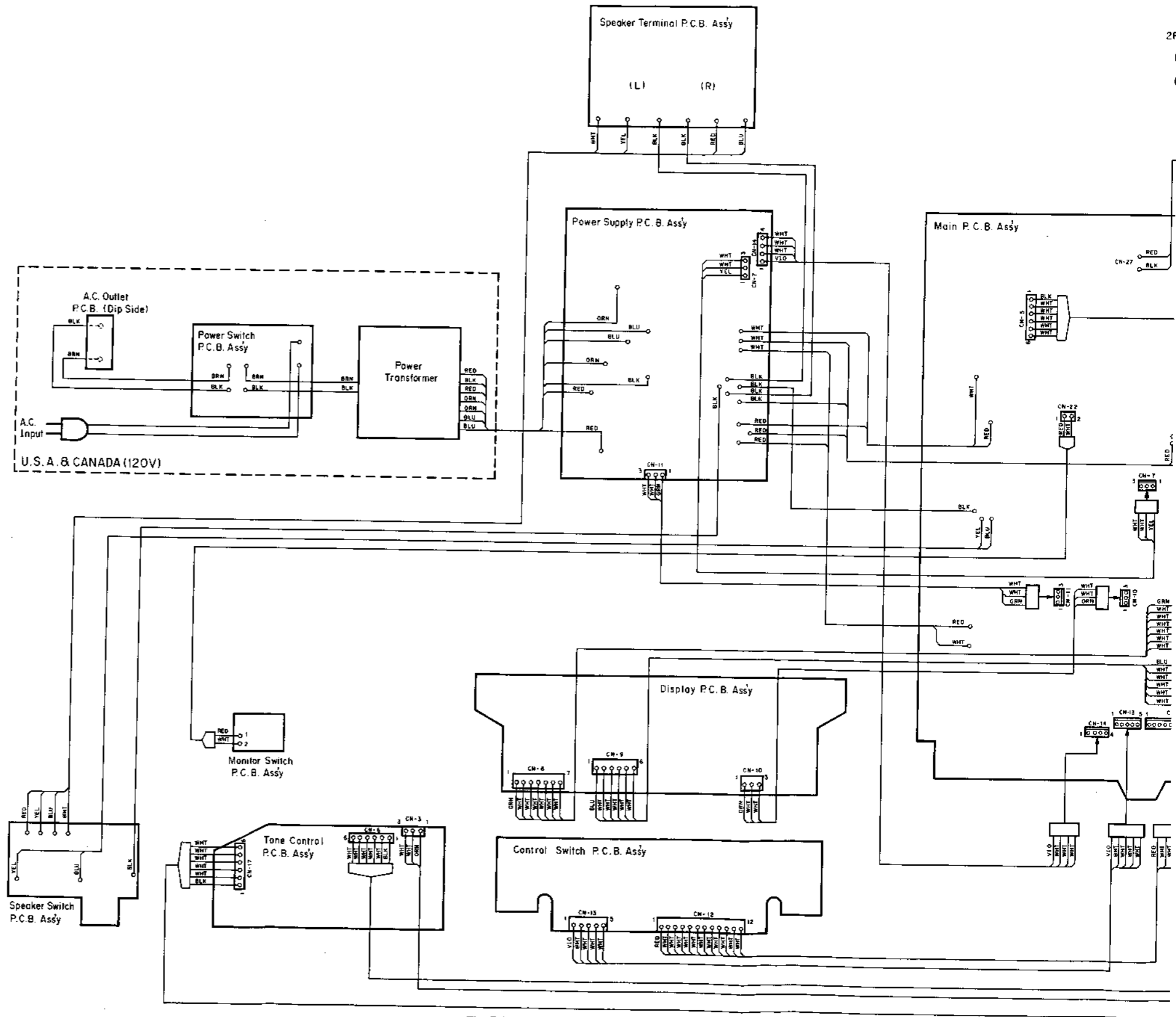
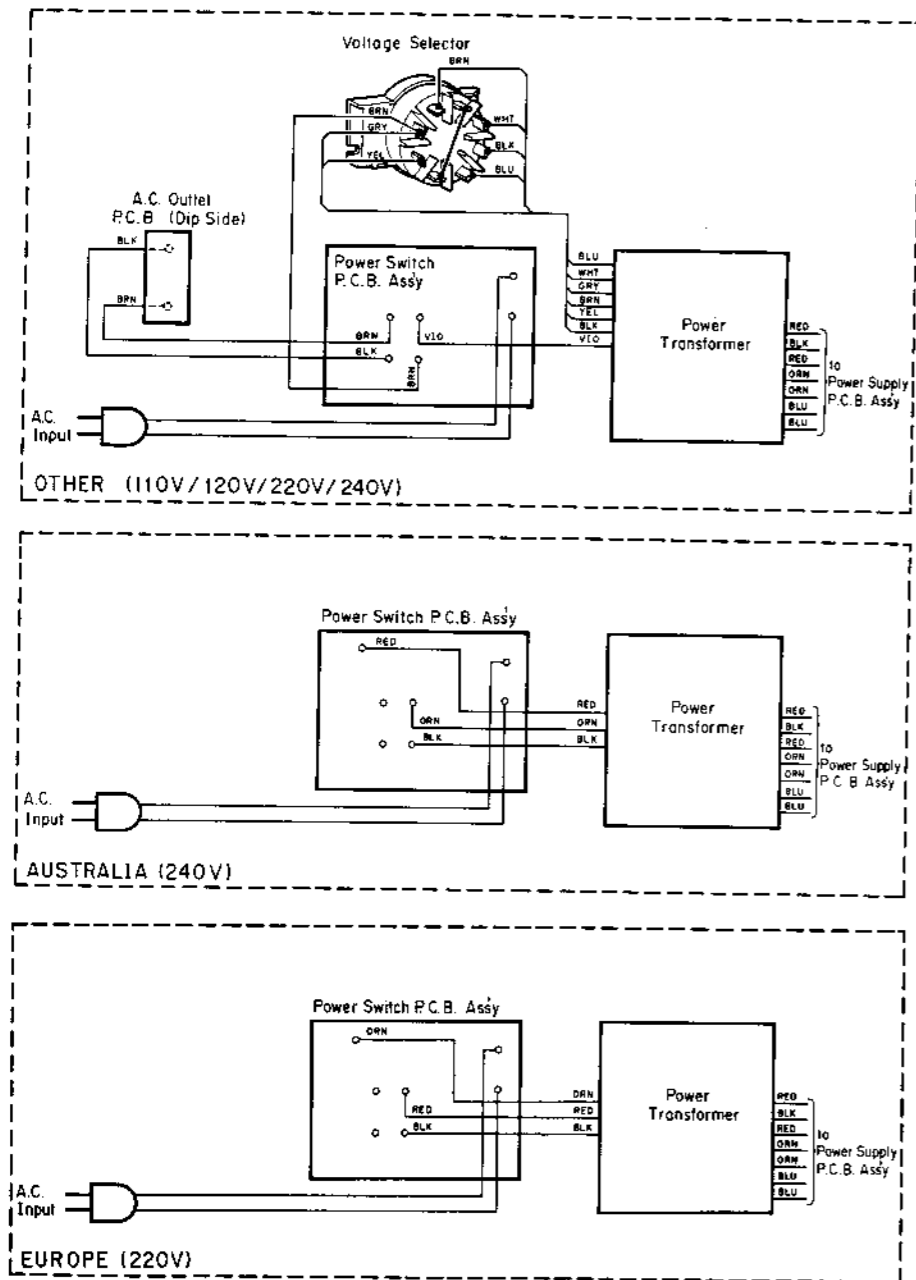


- Notes:
1. Diode is 1SS53, 1S1555, or 1SS176 unless otherwise specified.
  2. 2SA733, 2SA608SP, 2SA1048 and 2SA1175 are interchangeable with each other.
  3. 2SC945, 2SC536SP, 2SC2458 and 2SC2785 are interchangeable with each other.

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  |

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

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

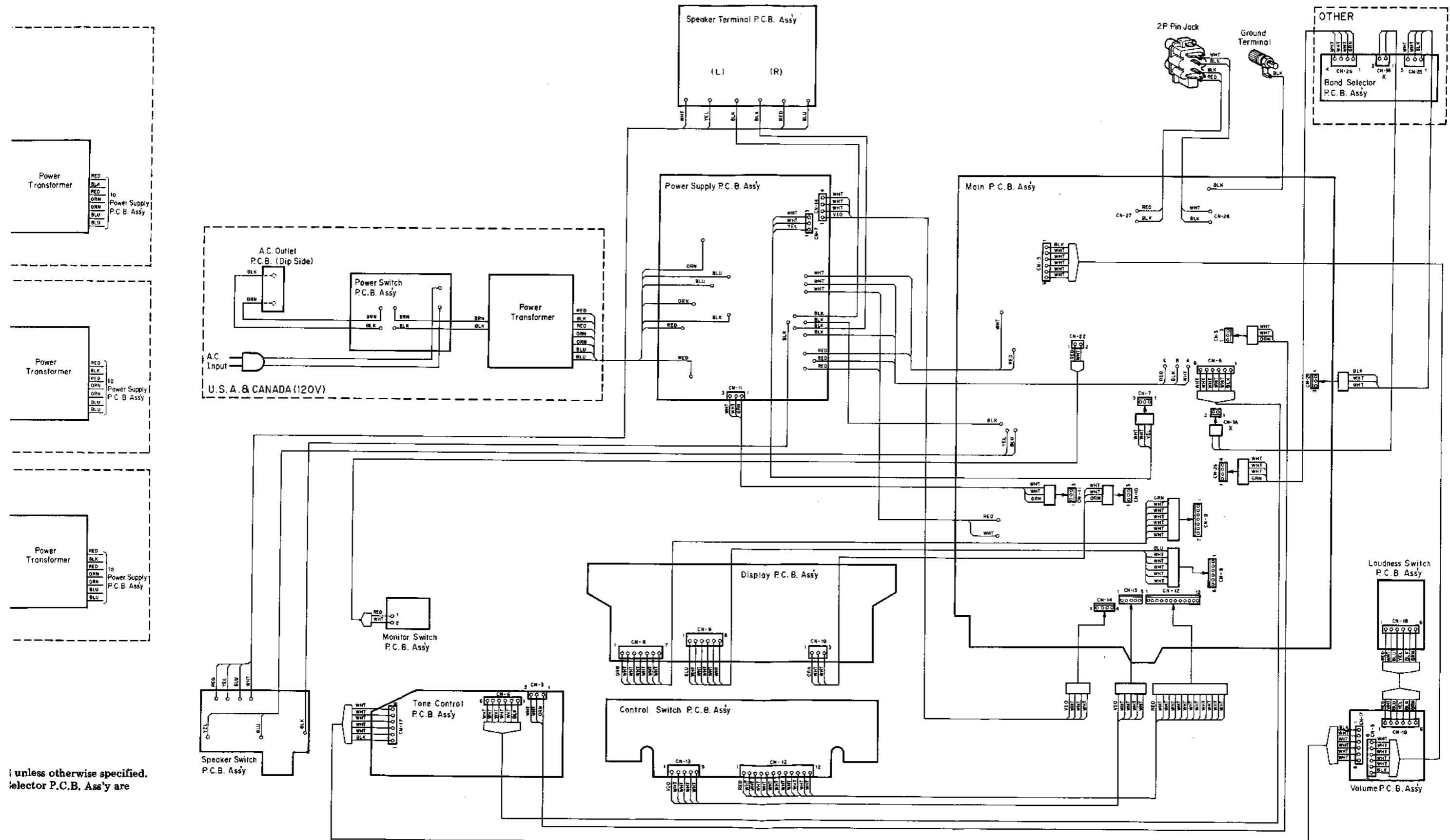


Fig. 7.1 For SR-2, SR-2A & SR-2E (Europe)



(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.

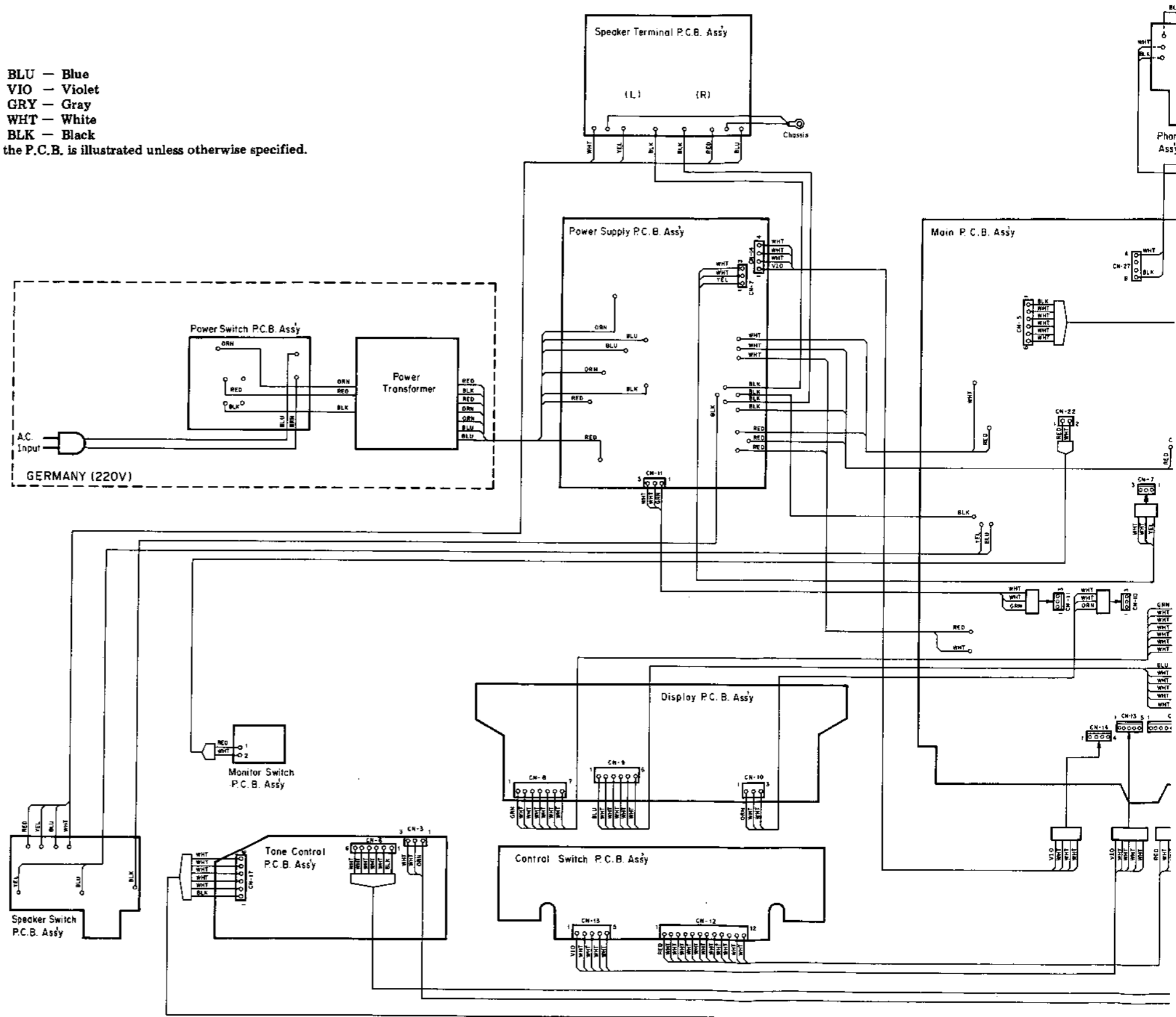


Fig. 7.2 For SR-2E (Germany)

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.

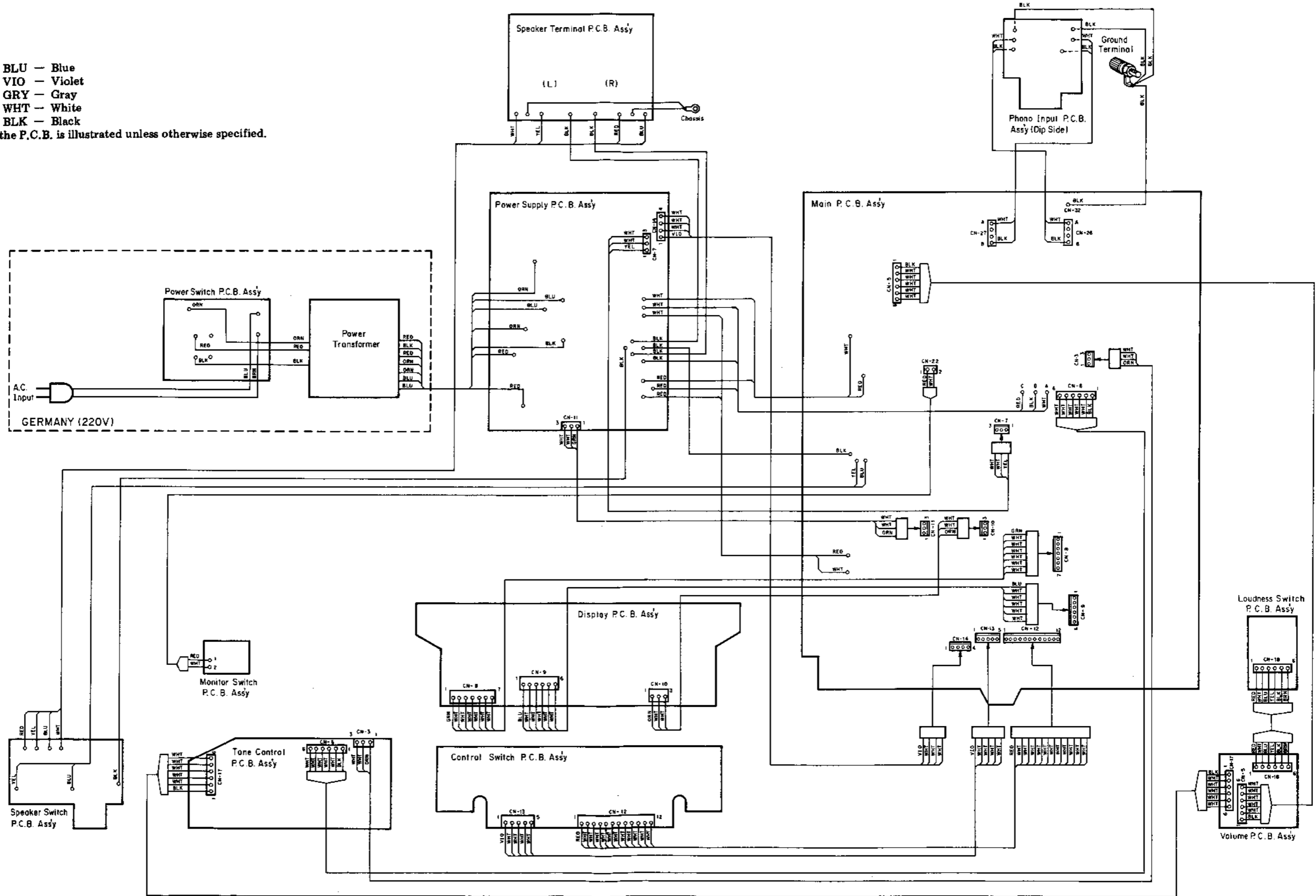


Fig. 7.2 For SR-2E (Germany)

## 8. BLOCK DIAGRAMS

### 8.1. Tuner Section

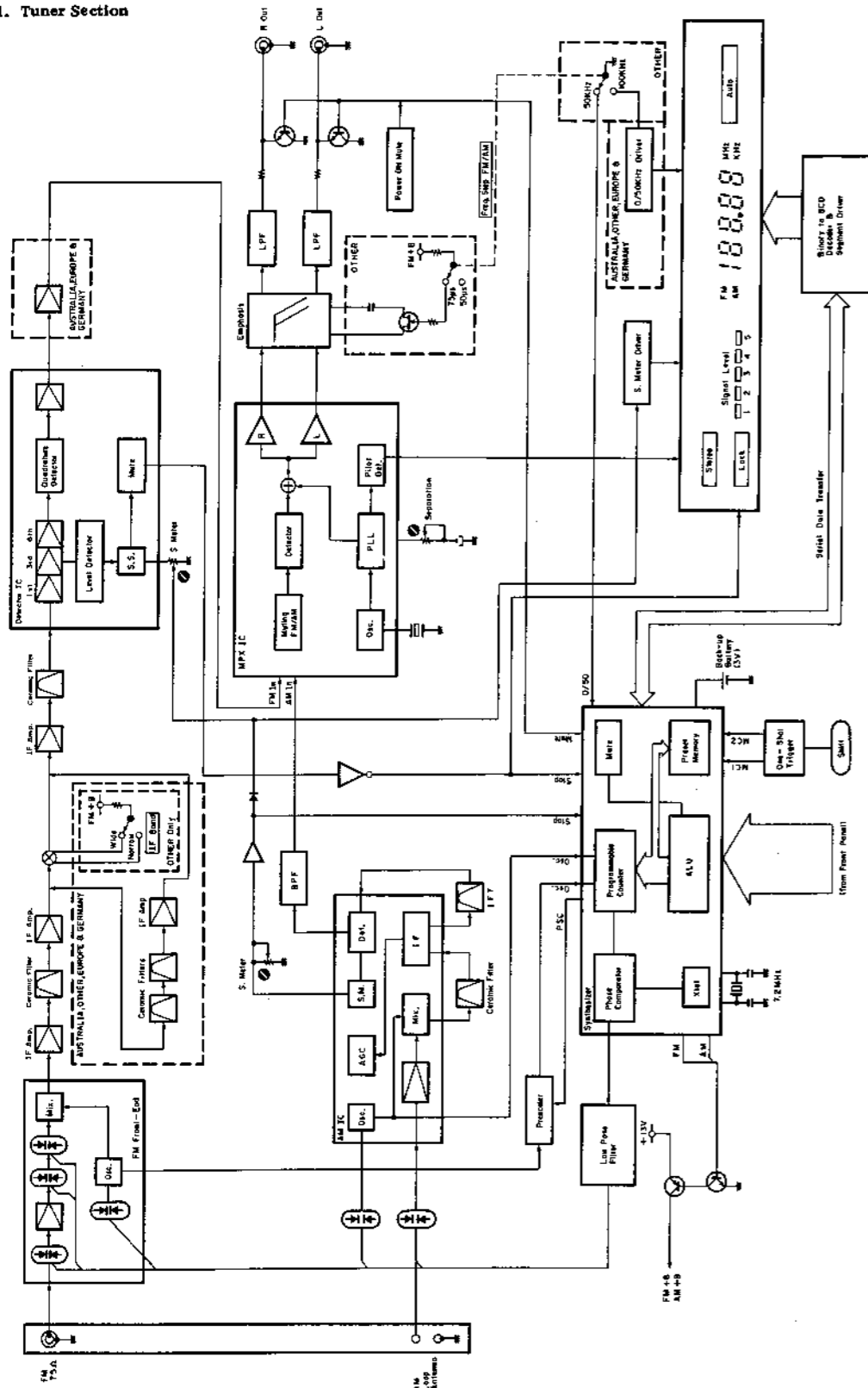


Fig. 8.1

### 8.2. Amplifier Section

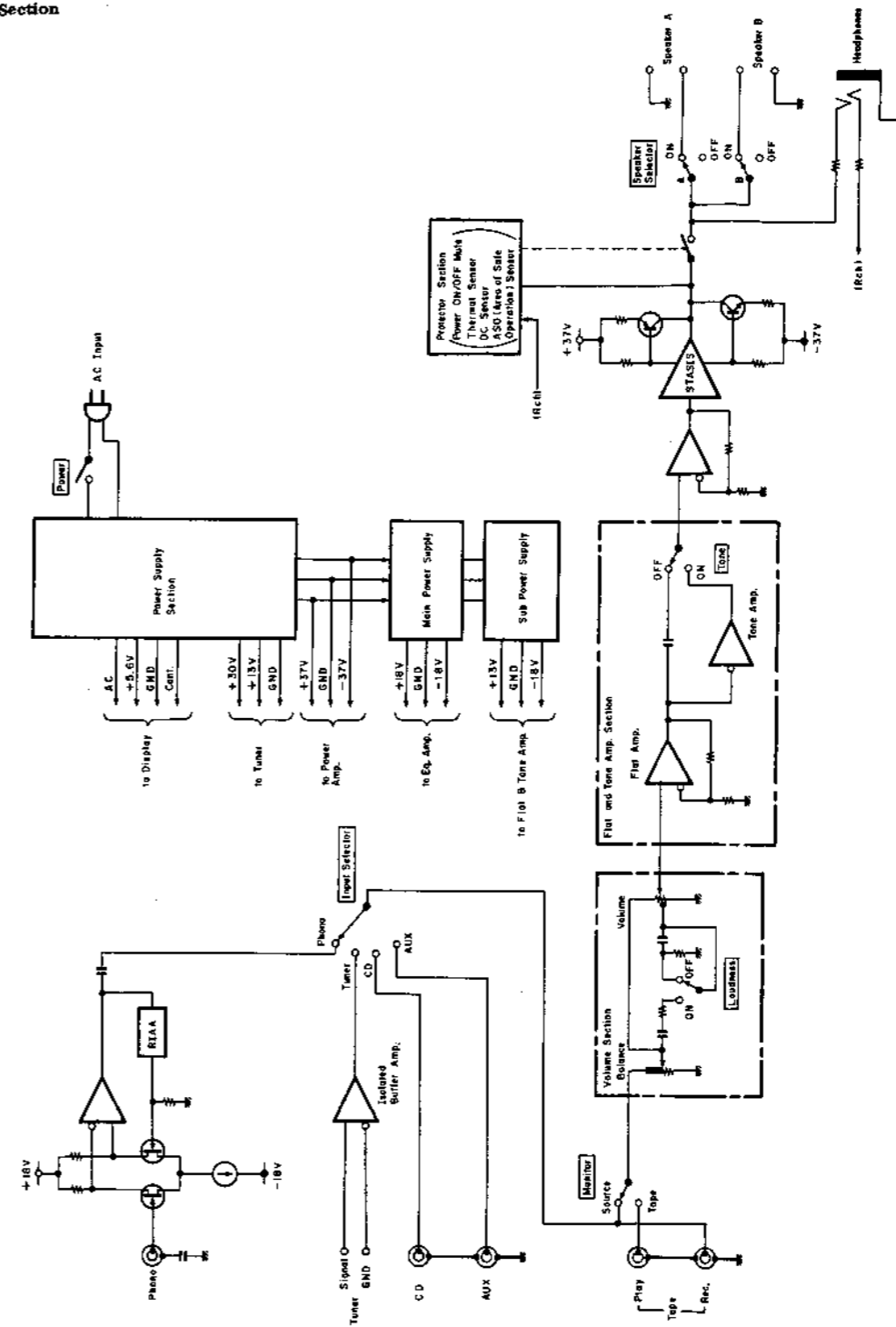


Fig. 8.2

## 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 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<br>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<br>5–75,000 Hz; +0, –3 dB  |
| Signal to Noise Ratio (A-WTD, Input Shorted)                       | Better than 105 dB re Rated Power<br>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  | 22 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 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  $\mu$ 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 (Mono)     | 11 dBf/1.9 $\mu$ V              |
| 50-dB Quieting Sensitivity        |                                 |
| Mono                              | 14.7 dBf/3.0 $\mu$ V            |
| Stereo                            | 37.5 dBf/41.1 $\mu$ V           |
| Signal to Noise Ratio at 65 dBf   |                                 |
| Mono                              | Better than 79 dB               |
| Stereo                            | Better than 74 dB               |
| Muting Threshold                  | 30 dBf/17.8 $\mu$ 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 $\mu$ /m                |
| Signal to Noise Ratio at 90 dB $\mu$ /m     | Better than 52 dB             |
| Total Harmonic Distortion at 90 dB $\mu$ /m | Less than 0.3%                |
| 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  $\mu$ 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  $\mu$ V  
50-dB Quieting Sensitivity  
  Mono . . . . . 21.0 dBf/6.1  $\mu$ V  
  Stereo . . . . . 42.0 dBf/69.0  $\mu$ V  
Signal to Noise Ratio at 65 dBf  
  Mono . . . . . Better than 74 dB  
  Stereo . . . . . Better than 69 dB  
Muting Threshold . . . . . 30 dBf/17.3  $\mu$ 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 $\mu$ /m  
Signal to Noise Ratio at 90 . . . . Better than 52 dB  
dB $\mu$ /m  
Total Harmonic Distortion . . . . Less than 0.3%  
at 90 dB $\mu$ /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 . . . . . 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 . . . . . 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 μV
- 50-dB Quieting Sensitivity
  - Mono . . . . . 23.0 dBf/7.7 μV
  - Stereo . . . . . 43.0 dBf/77.4 μV

**Signal to Noise Ratio at 65 dBf**

|  |                         |
|--|-------------------------|
| Mono                                     | Better than 72 dB       |
| Stereo                                   | Better than 67 dB       |
| Muting Threshold                         | 30 dBf/17.3 $\mu$ V     |
| Frequency Response                       | 20—15,000 Hz $\pm$ 1 dB |
| <b>Total Harmonic Distortion (1 kHz)</b> |                         |
| 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 $\mu$ /m                   |
| Signal to Noise Ratio at 90 dB $\mu$ /m     | Better than 52 dB                |
| Total Harmonic Distortion at 90 dB $\mu$ /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<br>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.
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Service Manual

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

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