

SERVICE MANUAL

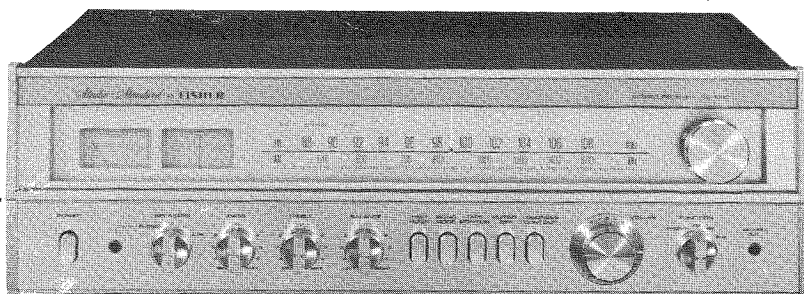
FISHER

RS-1015

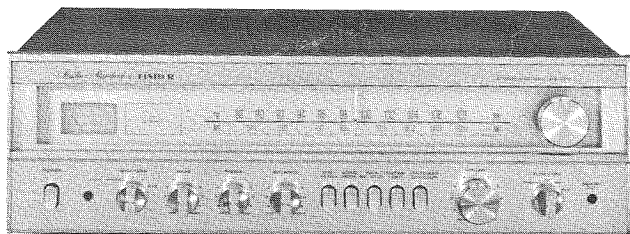
RS-1020

RS-1030

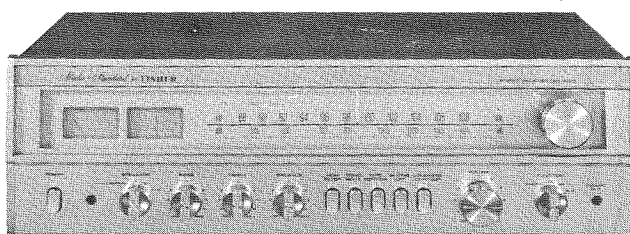
Stereo Receivers



RS-1030



RS-1015



RS-1020

WORLD LEADER IN HIGH QUALITY STEREO

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DISASSEMBLY INSTRUCTIONS

Removal Of Chassis From Cabinet

1. Remove 4 screws from left and right sides of cabinet.
2. Separate cabinet from chassis.
3. Remove 6 screws from bottom of cabinet. (Do Not Remove Leg From Bottom Of Cabinet).
4. Separate bottom of cabinet from chassis.

Removal Of Front Panel Assembly

1. Remove all Knobs with the exception of push buttons.
2. Remove 4 screws from top of panel.
3. Remove nut from "Function" and "Speaker" switches located on Front Panel Assembly.
4. Separate Front Panel Assembly from chassis.

Removal Of Meters

1. Unsolder leads from meter terminals.
2. Remove One screw and Meter Cover.
3. Grasp Meter firmly and pull back separating Meter from panel.

Removal Of Slide Rail Pointer

1. Remove Metal Slide Pointer from Slide Rail Pointer.
2. Remove 2 screws from top of Slide Rail Pointer.

Removal Of AM-FM Stereo Function Indicator Lamps

1. Grasp base of lamp with long-nosed Pliers and Carefully extract from grommet holder.
2. Unsolder AM-FM Indicator Lamp from P. C. Board. (RS-1020, RS-1030)

Removal And Replacement Of Dial Lamps

1. Remove Dial P. C. Board from Shelter Light with two flaps straight.
2. Grasp Dial Lamp and extract from lamp grommet holder.

Testing and troubleshooting any of the P.C. boards do not require removal since all component parts are top board mounted. For underneath board inspection purposes or when a defective component is to be unsoldered and replaced, the P.C. board can be sufficiently turned over by only removing the hold down hardware. Where it necessitates complete removal of any individual board then proceed as follows.

Removal Of AM-FM RF/IF/MPX Amp P. C. Board

1. Unscrew 2 screws from Drum. (Do Not Remove Dial String From Drum).
2. Remove 6 screws from P. C. Board.
3. Slide P. C. Board from plastic clip.
4. Unsolder connections and remove P. C. Board.

Removal Of EQ-Amp P. C. Board

1. Unsolder wire wraps from terminals.
2. Remove 4 hold down screws.

Removal Of Power Supply P. C. Board

1. Unsolder wire wraps from terminals.
2. Remove 5 hold down screws.
3. Slide P. C. Board from plastic clip.

Removal Of Main Amp P. C. Board

1. Unsolder wire wraps from terminals.
2. Remove 2 screws holding Power IC (PA 501X. RS-1030) (PA 401X. RS-1015, RS-1020)
3. Unscrew and remove plastic clip from P. C. Board.

Removal Of Tone Control Amp P. C. Board

1. Unsolder wire wraps from terminals.
2. Remove 2 screws from left and right sides of 4 push button switch.
3. Remove 4 nuts from variable resistors.
4. Unscrew and remove 2 plastic clips from P. C. Board.

RECOMMENDED TEST EQUIPMENT

The following test equipment is recommended to completely test and align the Receiver:

- Line Voltage Isolation Transformer.
- AC DC Multimeter.
- Accurately Calibrated AC Voltmeter.
- Oscilloscope (Flat to 100 kHz Minimum)
- Low-Distortion Audio Sine-Wave Generator
- Harmonic Distortion Analyzer
- Two (2) Load Resistors, 8-ohms, 250 Watts (Minimum Rating)
- Low-Distortion AM-FM Signal Generator
- 10.7 MHz Sweep Generator
- Multiplex Generator
- 455 kHz Sweep Generator

HARMONIC DISTORTION TEST

CAUTION: Limit the following tests to no more than ten minutes each. Use 8-ohm resistors with a minimum power rating of 250 watts when connecting a load across the SPEAKERS terminals.

CONTROL SETTINGS:

Unplug the AC power cord and set the front panel controls as follows:

BASS, TREBLE, and BALANCE controls to center positions

POWER push button out (not depressed)

SPEAKERS switch to PHONES

FUNCTION switch to AUX

HIGH FILTER, MONO MODE, TAPE MONITOR and LOUDNESS CONTOUR out (not depressed)

VOLUME control to MINIMUM position

LEFT CHANNEL DRIVEN

ONE CHANNEL DRIVEN:

- 1) Connect a low distortion audio generator to LEFT AUX IN jack. Set generator frequency to 1 kHz and output to minimum.
- 2) Connect an 8-ohm load resistor between SPEAKERS MAIN LEFT and COM terminals. Connect a Harmonic Distortion analyzer and an AC VTVM in parallel across the 8-ohm load.
- 3) Connect the AC power cord and set SPEAKERS switch to MAIN. Turn VOLUME control to MAX.
- 4) Increase generator output for
RS-1015 15W RMS (11.0V across the 8ohm load)
RS-1020 20W RMS (12.6V across the 8ohm load)
RS-1030 30W RMS (15.5V across the 8ohm load)
Harmonic Distortion Analyzer should measure 0.8% (RS-1015), 0.5% (RS-1020, RS-1030) distortion or less.
- 5) Repeat steps 1 through 4 for RIGHT CHANNEL.

BOTH CHANNELS DRIVEN


Connect 8-ohm load resistors across LEFT and RIGHT MAIN SPEAKERS terminals. Depress "MONO MODE" pushbutton. Adjust generator output and "BALANCE" control for RS-1015:15W/RS-1020:20W/RS-1030:30W at Left and Right Channels (RS-1015:11.0V/RS-1020:12.6V/RS-1030:15.5V) across the 8-ohm loads. Harmonic Distortion Analyzer should measure RS-1015:0.8%/RS-1020, RS-1030:0.5% distortion or less at each channel.

Nominal Specifications For Information Only.
Do Not Use For Servicing

| RECEIVERS | | RS-1015 | RS-1020 | RS-1030 |
|--|--------|---------------------------------|--------------------------------|--------------------------------|
| POWER AMPLIFIER SECTION Continuous RMS sine wave power per channel within stated bandwidth at no more than stated distortion and with an 8 ohm load. | | 15 W | 20 W | 30 W |
| Power Bandwidth | | 20Hz/20kHz | 20Hz/20kHz | 20Hz/20kHz |
| Total Harmonic Distortion | | 0.8 % | 0.5 % | 0.5 % |
| PREAMPLIFIER SECTION Input Sensitivity and Impedance At rated output, 8-ohms at 1kHz Phono | | 2mV/ 50k Ω | 2mV/ 50k Ω | 2mV/ 50k Ω |
| Phono (max input capability) | | 100mV | 100mV | 100mV |
| Auxiliary | | 150mV/100k Ω | 150mV/100k Ω | 150mV/100k Ω |
| Tape Monitor (1 and 2) | | 150mV/100k Ω | 150mV/100k Ω | 150mV/100k Ω |
| Hum & Noise (below rated output) Phono | | 60 dB | 60 dB | 60 dB |
| Auxiliary | | 70 dB | 70 dB | 70 dB |
| Tape Monitor (1 and 2) | | 70 dB | 70 dB | 70 dB |
| Frequency Response Phono (RIAA EQUALIZED ± 2 dB) | | 30Hz - 15kHz | 30Hz - 15kHz | 30Hz - 15kHz |
| Auxiliary input ± 2 dB | | 20Hz - 20kHz | 20Hz - 20kHz | 20Hz - 20kHz |
| Tape Monitor input ± 2 dB | | 20Hz - 20kHz | 20Hz - 20kHz | 20Hz - 20kHz |
| Bass Control Range (at 100Hz) | | ± 10 dB | ± 10 dB | ± 10 dB |
| Treble Control Range (at 10kHz) | | ± 10 dB | ± 10 dB | ± 10 dB |
| Loudness Contour (at 30dB volume attenuation) | | +8dB at 100Hz +4dB at 10kHz | +8dB at 100Hz +4dB at 10kHz | +8dB at 100Hz +4dB at 10kHz |
| High Filter | | -6dB (5kHz) | -6dB (5kHz) | -6dB (5kHz) |
| Separation (Stereo) @ 1kHz | | 40 dB | 40 dB | 40 dB |
| POWER SECTION INPUT | | — | — | 150mV/ 50k Ω |
| FM TUNER SECTION Usable Sensitivity | Mono | 2 μ V/11.2 dBf | 2 μ V/11.2 dBf | 2 μ V/11.2 dBf |
| | Stereo | 4.8 μ V/18.9 dBf | 4.8 μ V/18.9 dBf | 4.8 μ V/18.9 dBf |
| 50dB Quieting Sensitivity | Mono | 2.8 μ V/14.2 dBf | 2.8 μ V/14.2 dBf | 2.8 μ V/14.2 dBf |
| | Stereo | 38 μ V/ 36.8 dBf | 38 μ V/ 36.8 dBf | 38 μ V/ 36.8 dBf |
| Capture Ratio | | 1.2 dB | 1.2 dB | 1.2 dB |
| Alt Channel Selectivity | | 65 dB | 65 dB | 65 dB |
| Image Response Rejection | | 56 dB | 56 dB | 56 dB |
| Spurious Response Rejection | | 85 dB | 85 dB | 85 dB |
| AM Rejection | | 55 dB | 55 dB | 55 dB |
| Signal-to-Noise Ratio (Mono & Stereo) | | 68.66 dB | 68.66 dB | 68.66 dB |
| Total Harm. Distortion (Mono & Stereo) | | 0.3/0.4% | 0.3/0.4% | 0.3/0.4% |
| 50dB Quieting Sensitivity THD | Mono | 0.4 % | 0.4 % | 0.4 % |
| | Stereo | 0.5 % | 0.5 % | 0.5 % |
| Stereo Separation (1 kHz/10 kHz) | | 40/30 dB | 40/30 dB | 40/30 dB |
| Sub-Carrier Suppression (19/38kHz) | | 60/70 dB | 60/70 dB | 60/70 dB |
| AM TUNER SECTION Sensitivity | | 300 μ V/m | 300 μ V/m | 300 μ V/m |
| Selectivity | | 40 dB | 40 dB | 40 dB |
| Signal-to-Noise Ratio | | 55 dB | 55 dB | 55 dB |
| Image Frequency Rejection | | 50 dB | 50 dB | 50 dB |
| IF Rejection | | 45 dB | 45 dB | 45 dB |
| GENERAL | | 120V AC ± 10 % | 120V AC ± 10 % | 120V AC ± 10 % |
| Power Requirements (50/60 Hz) | | 160W/180VA | 210W/240VA | 300W/340VA |
| AC Outlets | | 2 | 2 | 2 |
| Dimensions H x W x D | | Inches 6-1/16"x19-1/8"x 13-1/8" | 6-1/16"x19-1/8"x 13-1/8" | 6-1/16"x19-1/8"x 13-1/8" |
| Weight (Lbs.) | | 21.6 | 23 | 24.3 |

AM-FM MULTIPLEX ALIGNMENT



AM ALIGNMENT

| Step | Adjusting circuit | Connection | | SG. frequency | Position of tuning dial | Adjustment | V.T.V.M. Oscilloscope |
|------|---------------------|--|--|--------------------------------------|--|--|--|
| | | Input | Output | | | | |
| 1 | IF | Connect sweep generator to VC4. | Connect oscilloscope to test point TP 19 | 455 KHz | Near max. capacity of VC at position with no signal. | AM 1st 9-21310 AM DET 9-21291 |  455 KHz |
| 2 | RF | Connect standard loop antenna to output terminal of SG. Place receiver 2 feet from loop antenna | Connect V.T.V.M. to TP 19 | 600 KHz (400Hz, 30 % modulation) | 600 KHz | AM ANT 9-21172 AM OSC 9-20851 | Max. |
| 3 | | | | 1400 KHz (400Hz, 30 % modulation) | 1400 KHz | TC4 TC5 | Max. |
| 4 | Repeat adjustments. | | | | | | |

- Variable capacitor completely closed.
- Set the dial pointer to very left line dial scale.
- Connect sweep generator, SG, V.T.V.M. and oscilloscope.

- Function switch to "AM."
- Use a screwdriver with plastic grip for all adjustments.

FM ALIGNMENT

| Step | Adjusting circuit | Connection | | SG.frequency | Position of tuning dial | Adjustment | V.T.V.M. Oscilloscope |
|------|---------------------|--|---|-----------------------------------|--|------------------------------|--|
| | | Input | Output | | | | |
| 1 | IF | Connect sweep generator to test point TP 5 through 0.01 μ F. | Connect oscilloscope to test point TP 7 | 10.7 MHz (none modulation) | Near max.capacity of VC. at position with no signal. | IFT In FRONT END |  10.7MHz |
| 2 | Ratio Det. | | Connect oscilloscope to test point TP 6 | | | FM QUADRA TURE COIL. 9-21320 |  |
| 3 | RF | Connect FM SG. to FM ANT terminals. | Connect V.T.V.M. to speaker terminal. | 90 MHz (400 Hz, 30 % modulation) | 90 MHz | LA LR | Max. |
| 4 | | | | 106 MHz (400 Hz, 30 % modulation) | 106 MHz | TCA TCR | Max. |
| 5 | Repeat adjustments. | | | | | | |

- Variable capacitor completely closed.
- Set the dial pointer to very left line of dial scale.
- Connect sweep generator, FM SG, V.T.V.M. and oscilloscope. FM ANT input impedance is 300 ohm.

- Function switch to "FM."
- Use a screwdriver with plastic grip for all adjustments.

FM MPX ALIGNMENT

| Step | Adjusting circuit | Connection | | Position of tuning dial | Adjustment | |
|------|--|--|---|---|---|---------------|
| | | Input | Output | | | |
| 1 | PLL IC FO (19 KHz) Adjustment | None | Connect Frequency counter or synchroscope to TP 8 | Near max. capacity of VC. at position with no signal. | Adjust VR 01 (5K-B) so that 19 KHz may be indicated on the frequency counter or synchroscope. | |
| 2 | FM STEREO Signal Separation | Connect FM stereo SG to FM ANT terminals. 19 KHz signal ON. Main channel, sub channel signal ON. Add 1000 Hz signal from L Ch. | Connect V.T.V.M. to output terminal (R channel). | | VR 02 (1K-B) | V.T.V.M. Min. |
| | | Connect FM stereo SG to FM ANT terminals. 19 KHz signal ON. Main channel, sub channel signal ON. Add 1000 Hz signal from R Ch. | Connect V.T.V.M. to output terminal (L channel) | | | |
| 3 | Repeat steps 1, 2, Set at position with max. channel separation. | | | | | |

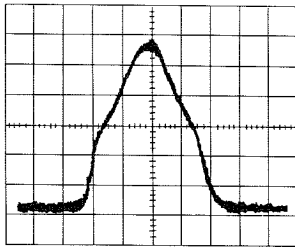
- Variable capacitor completely closed.
- Connect FM stereo SG and V.T.V.M.

- Function switch to "FM"
- Use a screwdriver with plastic grip for all adjustments.

ALIGNMENT WAVE FORMS

WITH OSCILLOSCOPE TIME BASE SETTINGS

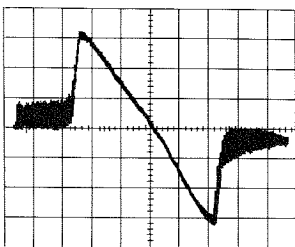
FM IF CURVE
100KHz



Vertical Sensitivity: 0.5V/cm.
Horizontal Sweep: 100 usec./cm.

IF FREQ.
FM IF
ALIGNMENT

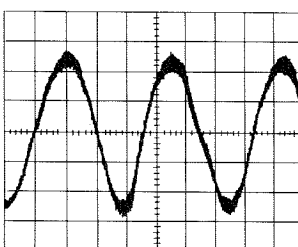
S-CURVE
100KHz



Vertical Sensitivity: 0.5V/cm.
Horizontal Sweep: 100 usec./cm.

FM DETECTOR
ALIGNMENT

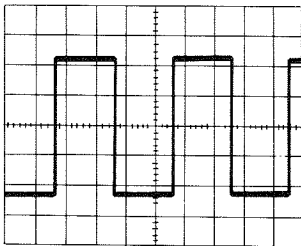
SINE WAVE



Vertical Sensitivity: 0.5V/cm.
Horizontal Sweep: 500 usec./cm.

SYMMETRICAL
TUNING

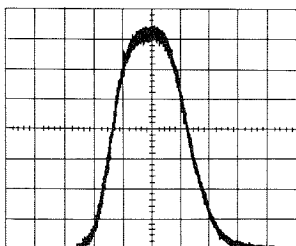
SQUARE WAVE



Vertical Sensitivity: 0.5V/cm.
Horizontal Sensitivity: 0.5V/cm.

MPX F.R.F.C.
ADJUSTMENT

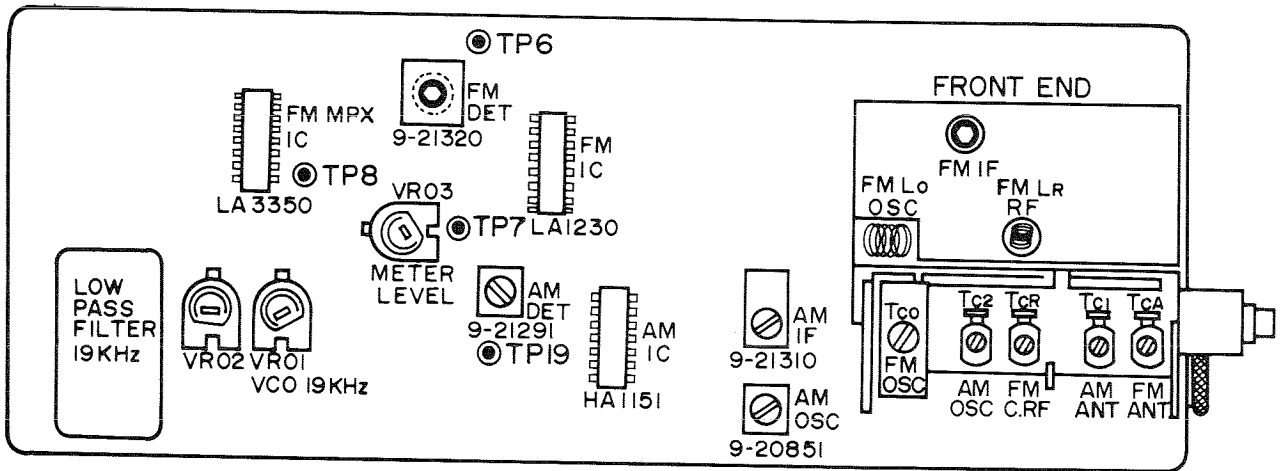
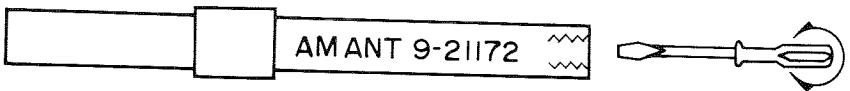
AM IF CURVE



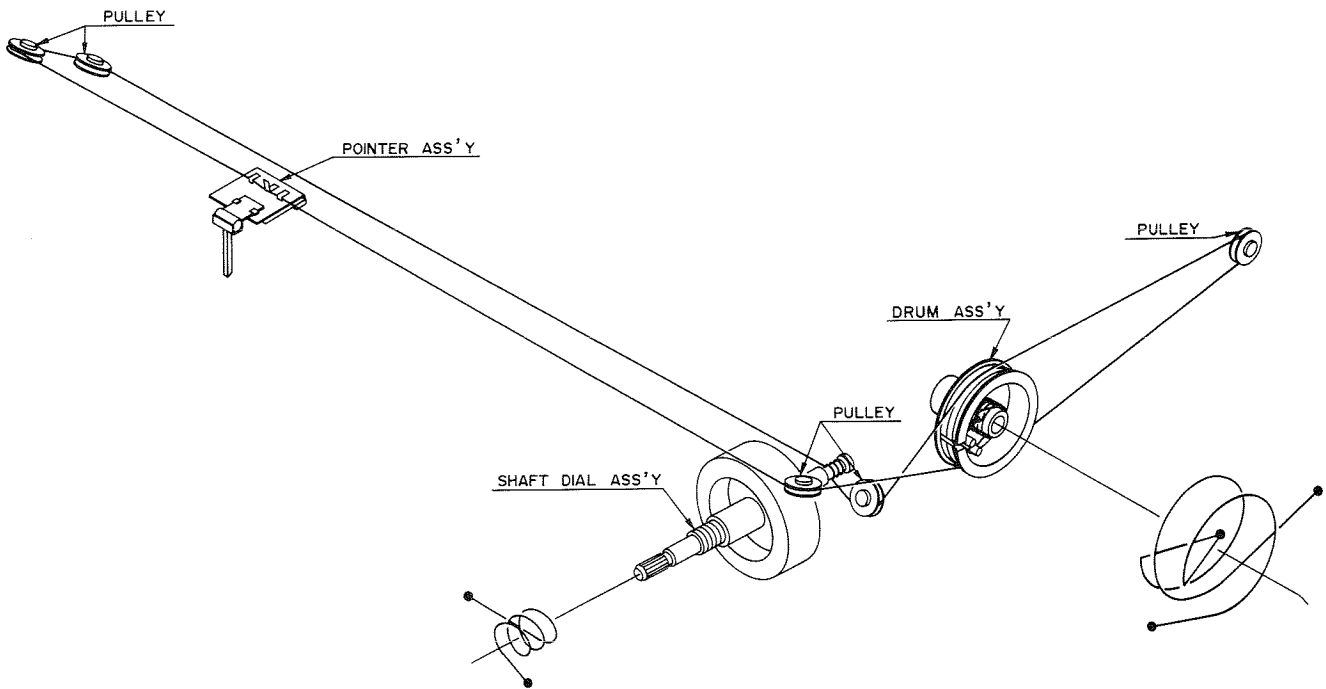
Vertical Sensitivity: 0.5V/cm.
Horizontal Sweep: 100 usec./cm.

10KHz
AM IF
ALIGNMENT

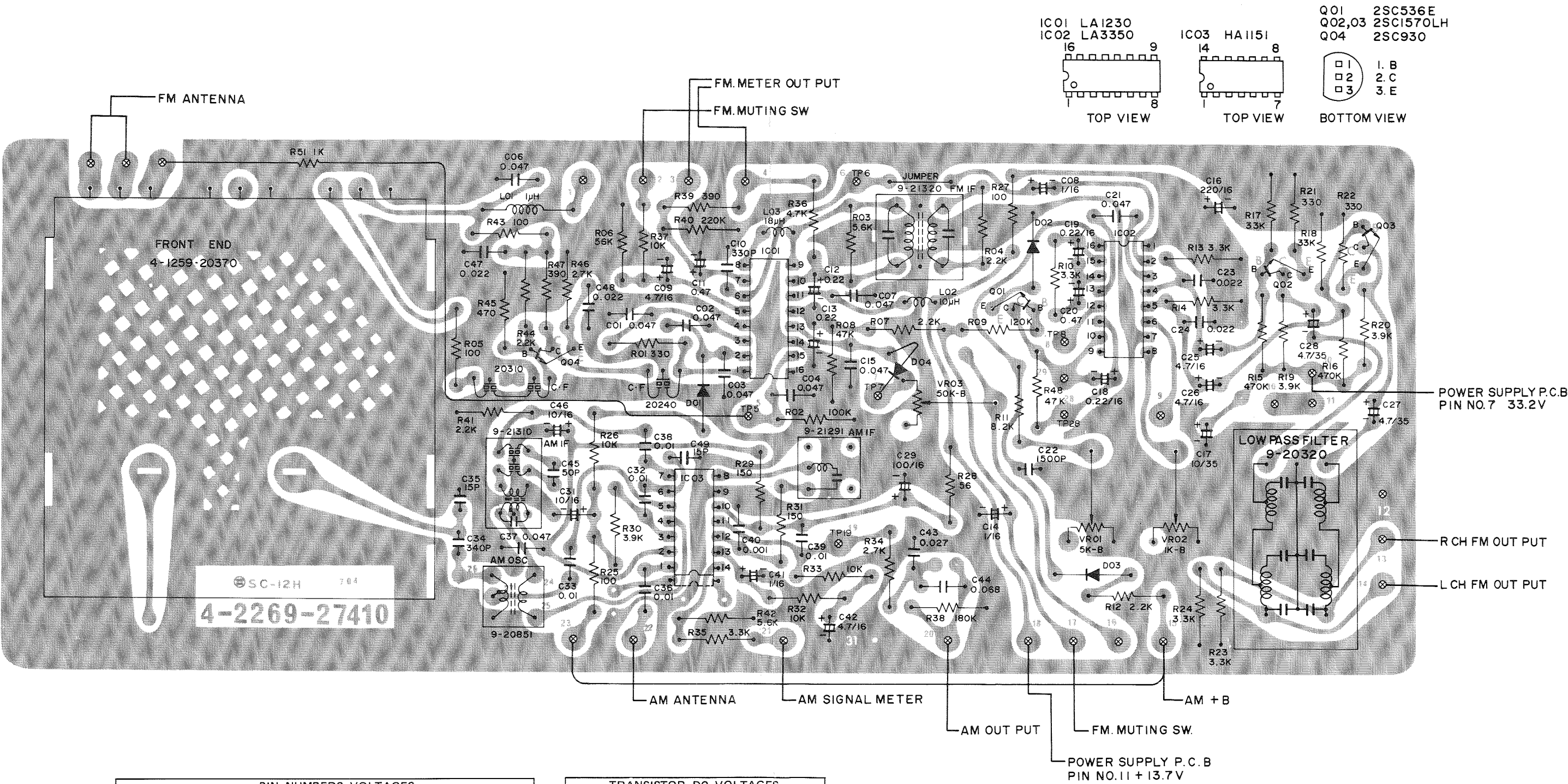
AM-FM RF/IF MPX BOARD LAYOUT



DIAL CORD STRINGING



AM-FM RF/IF MPX P.C.BOARD



| | PIN NUMBERS VOLTAGES | | | | | | | | | | | | | | | |
|-------------|----------------------|------|------|------|------|------|-----|-----|-----|------|------|-----|------|----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| IC01 LA1230 | 2.9 | 2.9 | 2.9 | 0 | 1.9 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 13.8 | 3 | 0.01 | 0 | 5.1 | 0 |
| IC02 LA3350 | 12.6 | 2.7 | 4.8 | 10.5 | 10.4 | 13.4 | 0 | 0.4 | | 0.6 | 2 | 2.4 | 1.9 | 2 | 2 | 2.7 |
| IC03 HA1151 | 0.97 | 12.7 | 10.9 | 12.7 | 3.5 | 1.24 | 2.1 | 8.5 | 0 | 13.3 | 1.6 | 0.7 | 1.4 | 0 | | |

| TRANSISTOR DC VOLTAGES | | | | |
|------------------------|-----------|-----|------|-----|
| SYMBOL No. | DEVICE | B | C | E |
| Q01 | 2SC536E | 1.1 | 0.6 | 0.5 |
| Q02 | 2SC1570LH | 2 | 16.5 | 1.4 |
| Q03 | 2SC1570LH | 2 | 16.5 | 1.4 |
| Q04 | 2SC930D | 2.2 | 12.8 | 1.6 |

BOTTOM VIEW

PARTS LIST

RF. IF. MPX. PCB Assy
1310 4001 72110

| Symbol NO. | Part Number | Description |
|------------|--------------|-----------------------|
| 79-1 | 4 1259 20370 | Front End |
| VR01 | 01 51283 | VR 5K (19KHz) |
| VR02 | 01 51282 | VR 1K (Separation) |
| VR03 | 4 2229 25400 | VR 50K Meter Level |
| | 4 2279 20240 | Ceramic Filter |
| | 4 2279 20310 | Ceramic Filter |
| | 4 2279 20320 | Low Pass Filter 19KHz |
| | 4 2569 21291 | IF Trans AM |
| | 4 2569 21310 | IF Trans AM |
| | 4 2569 21320 | IF Trans FM |
| | 4 2589 20851 | OSC Coil AM |
| L01 | 4 2539 20120 | IF Trap 1 μ H |
| L02 | 4 2539 20370 | 10 μ H \pm 10% |
| L03 | 4 2539 20380 | 18 μ H \pm 5% |

CAPACITORS

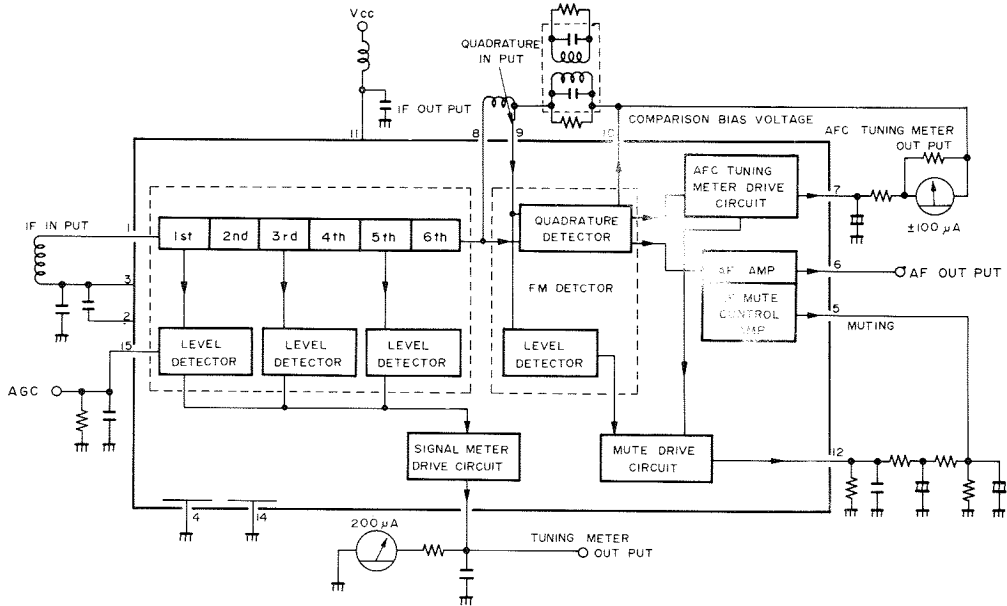
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|---------|------------|---------------------------------------|
| C01, 02 | CK22348-1 | Ceramic 0.047 μ F 50V |
| 03, 04 | | |
| 06, 07 | | |
| C08 | CS22340-5 | Sint. Alu. 1 μ F 16V |
| C09 | CE1252515 | Electroytic 4.7 μ F 16V \pm 10% |
| C10 | CK22347-7 | Ceramic 330pF 50V \pm 10% |
| C11 | CS22340-4 | Sint. Alu. 0.47 μ F 16V +40% -20% |
| C12, 13 | CS22340-2 | Sint. Alu. 0.22 μ F 16V +40% -20% |
| C14 | CE0252611 | Electrolytic 1 μ F 16V |
| C15 | CK22348-1 | Ceramic 0.047 μ F 50V +80% -20% |
| C16 | CE22342-15 | Electrolytic 220 μ F 16V |
| C17 | CE22342-28 | Electrolytic 10 μ F 35V |
| C18, 19 | CS22340-2 | Sint. Alu. 0.22 μ F 16V +40% -20% |
| C20 | CS22340-4 | Sint. Alu. 0.47 μ F 16V +40% -20% |
| C21 | CY22335-22 | Mylar 0.047 μ F 50V \pm 20% |
| C22 | 0217823 | Styrol 1500pF 35V \pm 5% |
| C23, 24 | CIHFRK223A | Mylar 0.022 μ F 50V \pm 10% |
| C25, 26 | CS22340-6 | Sint. Alu. 4.7 μ F 16V +40% -20% |
| C27, 28 | CL22305-14 | Tantal 4.7 μ F 35V \pm 20% |
| C29 | CE22342-11 | Electrolytic 100 μ F 16V |
| C31 | CE1252521 | Electrolytic 10 μ F 16V |
| C32, 33 | CY22335-1 | Mylar 0.01 μ F 50V \pm 20% |
| C34 | CIHSEJ341A | Styrol 340pF 50V \pm 5% |
| C35 | CK22344-9 | Ceramic 15pF 50V \pm 5% |
| C36 | CY22335-1 | Mylar 0.01 μ F 50V \pm 20% |
| C37 | CK22348-1 | Ceramic 0.047 μ F 50V +80% -20% |
| C38, 39 | CY22335-1 | Mylar 0.01 μ F 50V \pm 20% |
| C40 | CY22335-3 | Mylar 0.001 μ F 50V \pm 20% |
| C41 | CS22340-5 | Sint. Alu. 1 μ F 16V +40% -20% |
| C42 | CE1252515 | Electrolytic 4.7 μ F 16V |
| C43 | CIHFRM273A | Mylar 0.027 μ F 50V \pm 20% |
| C44 | CY22335-16 | Mylar 0.068 μ F 50V \pm 20% |
| C45 | CK0242011 | Ceramic 50pF 50V \pm 10% |
| C46 | CE1252521 | Electrolytic 10 μ F 16V |
| C47, 48 | CK22347-15 | Ceramic 0.022 μ F 50V +80% -20% |
| C49 | CK22344-9 | Ceramic 15pF 50V \pm 5% |

| Symbol No. | Part Number | Description |
|----------------|-------------|-------------|
| SEMICONDUCTORS | | |
| D01, 02 | TRDS442 | DS-442 |
| 03, 04 | | |
| IC01 | TRLA1230 | LA1230 |
| IC02 | TRLA3350 | LA3350 |
| IC03 | TRHA1151 | HA1151 |
| Q01 | TR2SC536E | 2SC536E |
| Q02, 03 | TR2SC1570LG | 2SC1570 LH |
| Q04 | TR2SC930D | 2SC930D |

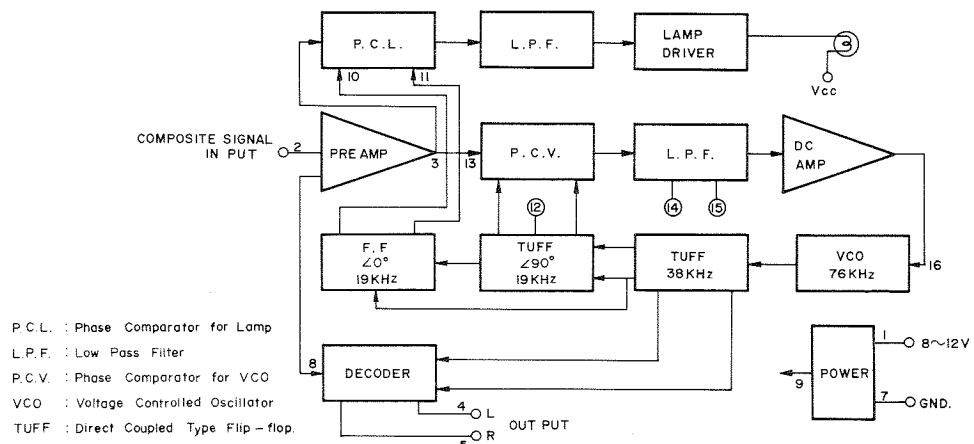
RESISTORS

| | | | | | |
|---------|------------|--------|------|------|----------|
| R01 | RF25DC331J | Carbon | 330 | 1/4W | \pm 5% |
| R02 | RF25DC104J | Carbon | 100K | 1/4W | \pm 5% |
| R03 | RF25DC562J | Carbon | 5.6K | 1/4W | \pm 5% |
| R04 | RF25DC222J | Carbon | 2.2K | 1/4W | \pm 5% |
| R05 | RF25DC101J | Carbon | 100 | 1/4W | \pm 5% |
| R06 | RF25DC563J | Carbon | 56K | 1/4W | \pm 5% |
| R07 | RF25DC222J | Carbon | 2.2K | 1/4W | \pm 5% |
| R08 | RF25DC473J | Carbon | 47K | 1/4W | \pm 5% |
| R09 | RF25DC124J | Carbon | 120K | 1/4W | \pm 5% |
| R10 | RF25DC332J | Carbon | 3.3K | 1/4W | \pm 5% |
| R11 | RF25DC822J | Carbon | 8.2K | 1/4W | \pm 5% |
| R12 | RF25DC222J | Carbon | 2.2K | 1/4W | \pm 5% |
| R13, 14 | RF25DC332J | Carbon | 3.3K | 1/4W | \pm 5% |
| R15, 16 | RF25DC474J | Carbon | 470K | 1/4W | \pm 5% |
| R17, 18 | RF25DC333J | Carbon | 33K | 1/4W | \pm 5% |
| R19, 20 | RF25DC392J | Carbon | 3.9K | 1/4W | \pm 5% |
| R21, 22 | RF25DC331J | Carbon | 330 | 1/4W | \pm 5% |
| R23, 24 | RF25DC332J | Carbon | 3.3K | 1/4W | \pm 5% |
| R25 | RF25DC101J | Carbon | 100 | 1/4W | \pm 5% |
| R26 | RF25DC103J | Carbon | 10K | 1/4W | \pm 5% |
| R27 | RF25DC101J | Carbon | 100 | 1/4W | \pm 5% |
| R28 | RF25DC560J | Carbon | 56 | 1/4W | \pm 5% |
| R29 | RF25DC151J | Carbon | 150 | 1/4W | \pm 5% |
| R30 | RF25DC392J | Carbon | 3.9K | 1/4W | \pm 5% |
| R31 | RF25DC151J | Carbon | 150 | 1/4W | \pm 5% |
| R32, 33 | RF25DC103J | Carbon | 10K | 1/4W | \pm 5% |
| R34 | RF25DC272J | Carbon | 2.7K | 1/4W | \pm 5% |
| R35 | RF25DC332J | Carbon | 3.3K | 1/4W | \pm 5% |
| R36 | RF25DC472J | Carbon | 4.7K | 1/4W | \pm 5% |
| R37 | RF25DC103J | Carbon | 10K | 1/4W | \pm 5% |
| R38 | RF25DC184J | Carbon | 180K | 1/4W | \pm 5% |
| R39 | RF25DC391J | Carbon | 390 | 1/4W | \pm 5% |
| R40 | RF25DC224J | Carbon | 220K | 1/4W | \pm 5% |
| R41 | RF25DC222J | Carbon | 2.2K | 1/4W | \pm 5% |
| R42 | RF25DC562J | Carbon | 5.6K | 1/4W | \pm 5% |
| R43 | RF25DC101J | Carbon | 100 | 1/4W | \pm 5% |
| R44 | RF25DC222J | Carbon | 2.2K | 1/4W | \pm 5% |
| R45 | RF25DC471J | Carbon | 470 | 1/4W | \pm 5% |
| R46 | RF25DC272J | Carbon | 2.7K | 1/4W | \pm 5% |
| R47 | RF25DC391J | Carbon | 390 | 1/4W | \pm 5% |
| R48 | RF25DC473J | Carbon | 47K | 1/4W | \pm 5% |
| R51 | RF25DC102J | Carbon | 1K | 1/4W | \pm 5% |

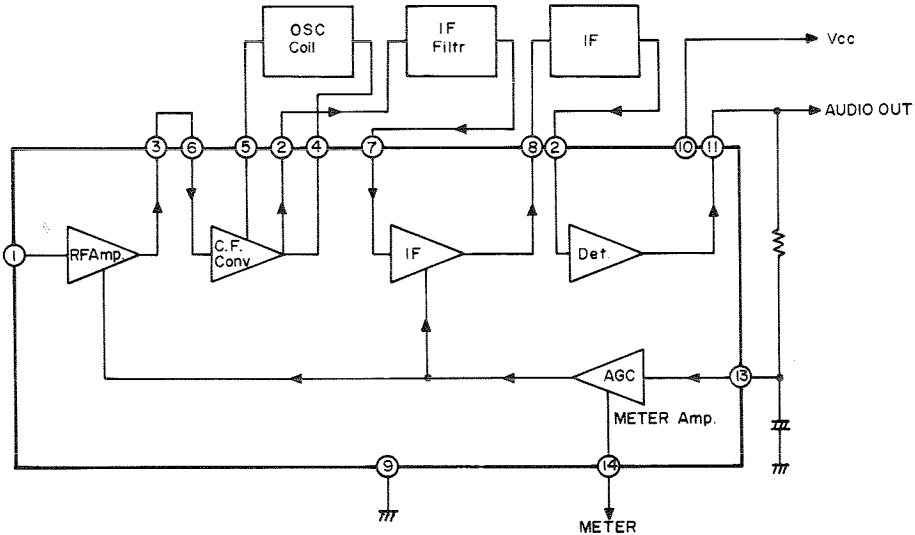
FM IF IC LA1230 SIGNAL FLOW



FM MPX IC LA3350 SIGNAL FLOW

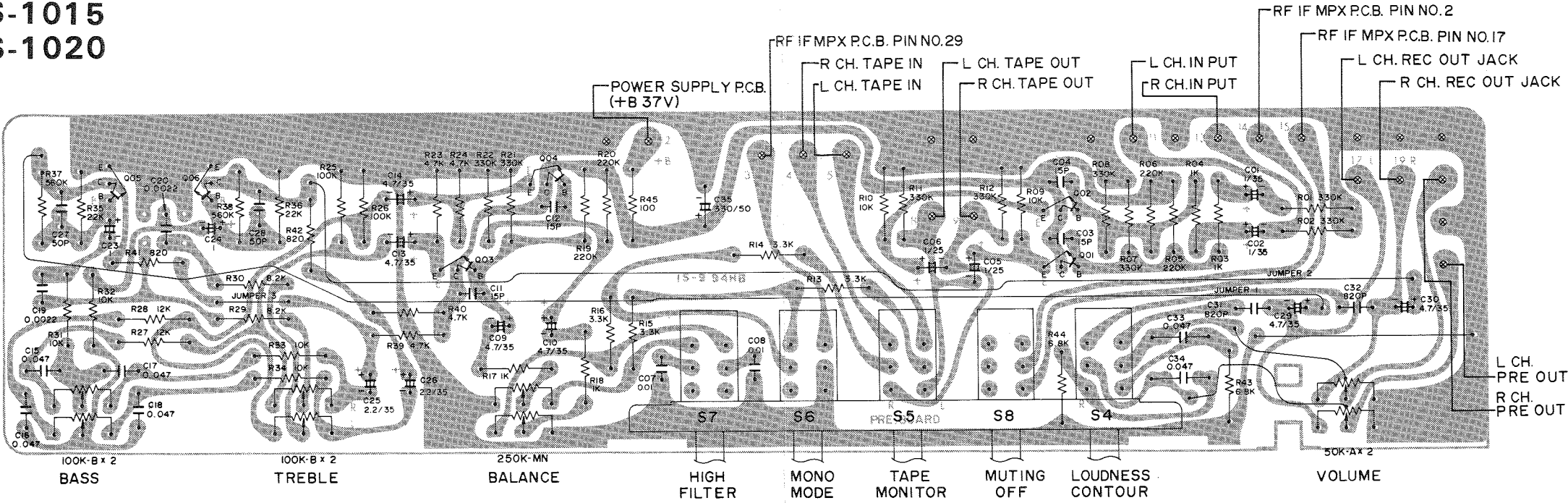


AM RF IF IC HA1151 SIGNAL FLOW

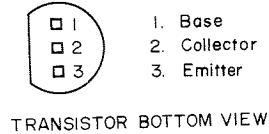


TONE CONTROL AND MODE SELECTOR P.C.BOARD

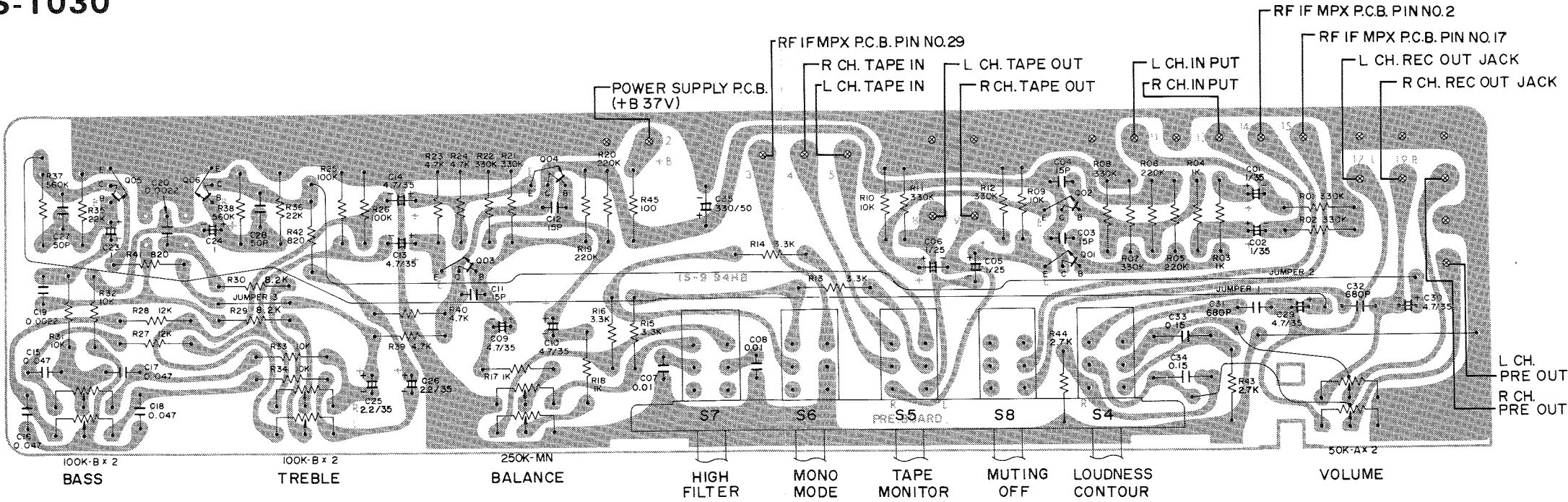
RS-1015
RS-1020



| TRANSISTOR DC VOLTAGES | | | | |
|------------------------|-----------|------|------|------|
| SYMBOL No. | DEVICE | B | C | E |
| Q01, 02 | 2SC1570LH | 20.3 | 35.1 | 20 |
| Q03, 04 | 2SC1570LH | 20 | 35.1 | 19.4 |
| Q05, 06 | 2SC1570LH | 0.6 | 18.8 | 0 |



RS-1030



BOTTOM VIEW

PARTS LIST

TONE PCB Assy
1310 4001 72130 (RS-1015, RS-1020)
1310 4001 72131 (RS-1030)

| Symbol No. | Part Number | Description |
|------------|--------------|--|
| | 4 2229 25380 | VR-250K Balance |
| | 4 2229 25390 | VR-100K Bass/Treble |
| | 4 2229 25370 | VR-50K Volume (RS-1015) (RS-1020) |
| | 4 2229 25410 | VR-50K Volume (RS-1030) |
| S7 | 4 2319 34060 | SW Push 5 Key High Filter, Mono Mode, Tape Monitor, Muting Off, Loudness Contour |
| S6, S5 | | |
| S8, S4 | | |

CAPACITORS

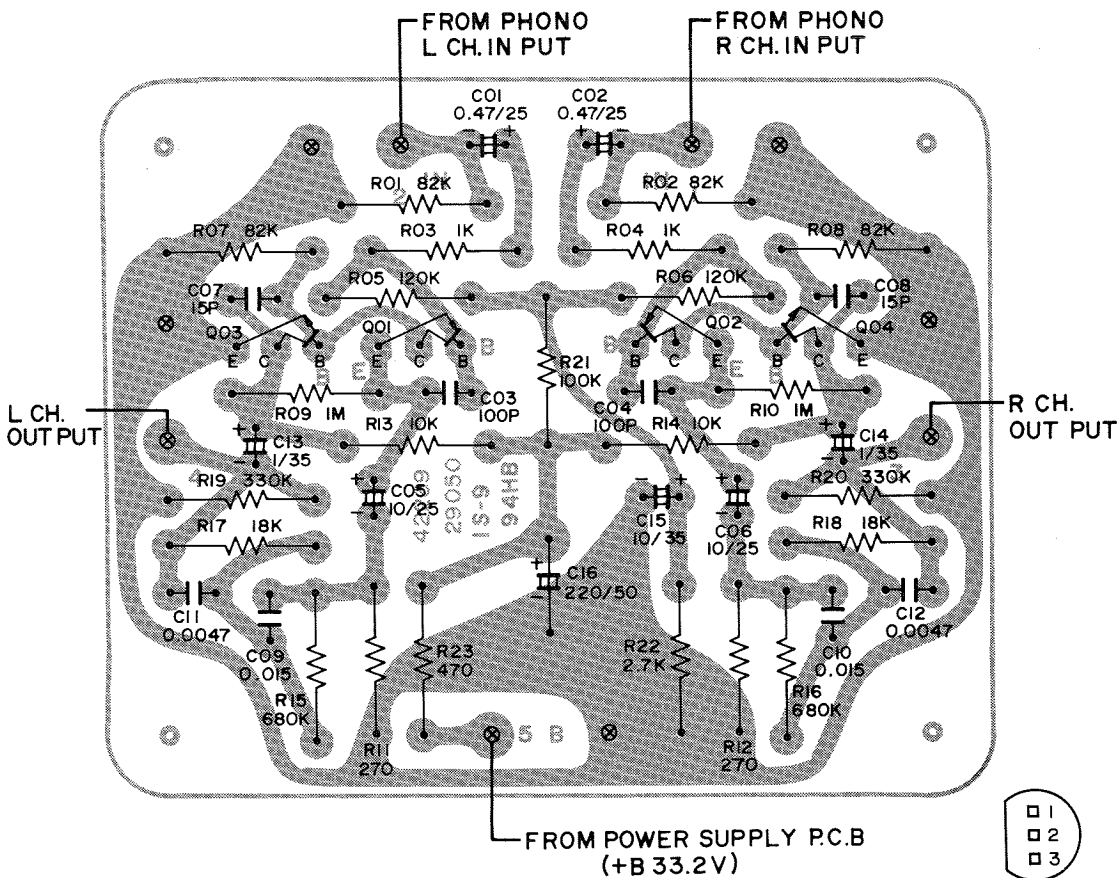
| | | |
|---------|------------|--|
| C01, 02 | CL22305-3 | Tantal 1 μ F 35V \pm 20% |
| C03, 04 | CK22344-9 | Ceramic 15pF 50V \pm 5% |
| C05, 06 | CL22305-3 | Tantal 1 μ F 35V \pm 20% |
| C07, 08 | CY22335-1 | Mylar 0.01 μ F 50V \pm 5% |
| C09, 10 | CL22305-14 | Tantal 4.7 μ F 35V \pm 20% |
| C11, 12 | CK22344-9 | Ceramic 15pF 50V \pm 5% |
| C13, 14 | CL22305-14 | Tantal 4.7 μ F 35V \pm 20% |
| C15, 16 | CY22335-22 | Mylar 0.047 μ F 50V \pm 5% |
| 17, 18 | | |
| C19, 20 | CY22335-21 | Mylar 0.0022 μ F 50V \pm 5% |
| C23, 24 | CS22340-5 | Sint, Alu, 1 μ F 25V \pm 5% |
| C25, 26 | CL22305-11 | Tantal 2.2 μ F 35V \pm 20% |
| C27, 28 | CK0242011 | Ceramic 50pF 50V \pm 10% |
| C29, 30 | CL22305-14 | Tantal 4.7 μ F 35V \pm 20% |
| C31, 32 | CK22347-11 | Ceramic 820pF 50V \pm 10% (RS-1015, RS-1020) |
| C31, 32 | CK22347-10 | Ceramic 680pF 50V \pm 10% (RS-1030) |
| C33, 34 | CY22335-22 | Mylar 0.047 μ F 50V \pm 5% (RS-1015 RS-1020) |
| C33, 34 | CY22335-19 | Mylar 0.15 μ F 50V \pm 5% (RS-1030) |
| C35 | CE22342-27 | Electrolytic 330 μ F 50V |

| Symbol No. | Part Number | Description |
|----------------|-------------|-------------|
| SEMICONDUCTORS | | |
| Q01, 02 | TR2SC1570LH | 2SC1570LH |
| 03, 04 | | |
| 05, 06 | | |

RESISTORS

| | | |
|---------|------------|---|
| R01, 02 | RF25DC334J | Carbon 330K 1/4W \pm 5% |
| R03, 04 | RF25DC102J | Carbon 1K 1/4W \pm 5% |
| R05, 06 | RF25DC224J | Carbon 220K 1/4W \pm 5% |
| R07, 08 | RF25DC334J | Carbon 330K 1/4W \pm 5% |
| R09, 10 | RF25DC103J | Carbon 10K 1/4W \pm 5% |
| R11, 12 | RF25DC334J | Carbon 330K 1/4W \pm 5% |
| R13, 14 | RF25DC332J | Carbon 3.3K 1/4W \pm 5% |
| R15, 16 | RF25DC332J | Carbon 3.3K 1/4W \pm 5% |
| R17, 18 | RF25DC102J | Carbon 1K 1/4W \pm 5% |
| R19, 20 | RF25DC224J | Carbon 220K 1/4W \pm 5% |
| R21, 22 | RF25DC334J | Carbon 330K 1/4W \pm 5% |
| R23, 24 | RF25DC472J | Carbon 4.7K 1/4W \pm 5% |
| R25, 26 | RF25DC104J | Carbon 100K 1/4W \pm 5% |
| R27, 28 | RF25DC123J | Carbon 12K 1/4W \pm 5% |
| R29, 30 | RF25DC822J | Carbon 8.2K 1/4W \pm 5% |
| R31, 32 | RF25DC103J | Carbon 10K 1/4W \pm 5% |
| 33, 34 | | |
| R35, 36 | RF25DC223J | Carbon 22K 1/4W \pm 5% |
| R37, 38 | RF25DC564J | Carbon 560K 1/4W \pm 5% |
| R39, 40 | RF25DC472J | Carbon 4.7K 1/4W \pm 5% |
| R41, 42 | RF25DC821J | Carbon 820 1/4W \pm 5% |
| R43, 44 | RF25DC682J | Carbon 6.8k 1/4W \pm 5% (RS-1015, RS1020) |
| R43, 44 | RF25DC272J | Carbon 2.7k 1/4W \pm 5% (RS-1030) |
| R45 | RF25DC101J | Carbon 100 1/4W \pm 5% |

EQ P.C.BOARD



TRANSISTOR BOTTOM VIEW

| TRANSISTOR DC VOLTAGES | | | | |
|------------------------|-----------|------|------|-----|
| SYMBOL No. | DEVICE | B | C | E |
| Q01, 02 | 2SA763E | 0.74 | 0.58 | 1.3 |
| Q03, 04 | 2SC1570LH | 0.58 | 11 | 0 |

BOTTOM VIEW

PARTS LIST

EQ PCB Assy
1310 4001 72120

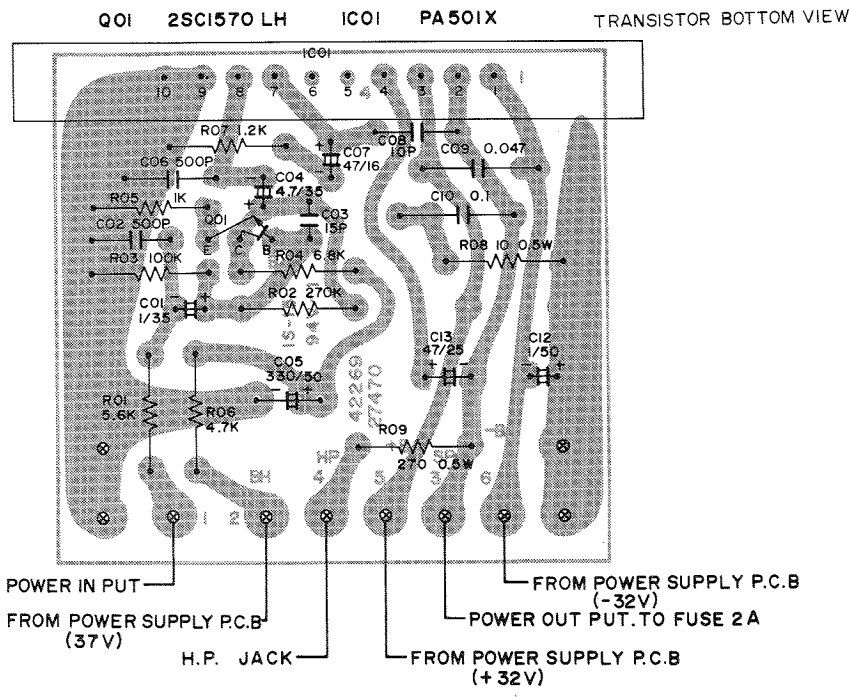
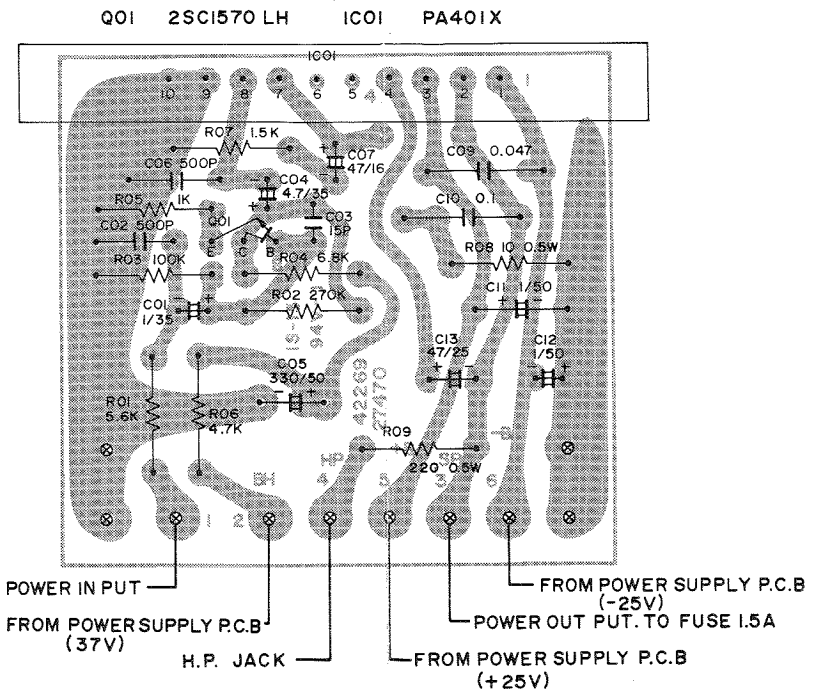
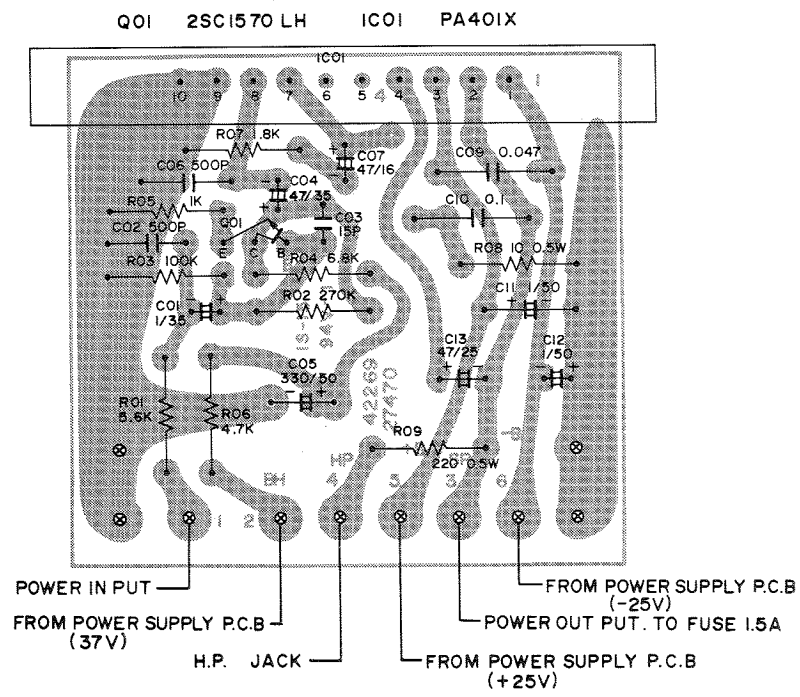
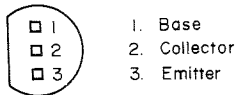
| Symbol No. | Part Number | Description |
|----------------|-------------|--------------------------------------|
| CAPACITORS | | |
| C01, 02 | CS22340-5 | Sint, Alu 0.47 μ F 25V \pm 20% |
| C03, 04 | CK222347-1 | Ceramic 100pF 50V \pm 20% |
| C05, 06 | CE1252621 | Electrolytic 10 μ F 25V |
| C07, 08 | CK22344-9 | Ceramic 15pF 50V \pm 5% |
| C09, 10 | CY22335-2 | Mylar 0.015 μ F 50V \pm 5% |
| C11, 12 | CY22335-8 | Mylar 0.0047 μ F 50V \pm 5% |
| C13, 14 | CL22305-3 | Tantal 1 μ F 35V \pm 20% |
| C15 | CIVTRM106A | Tantal 10 μ F 35V \pm 20% |
| C16 | CE22342-26 | Electrolytic 220 μ F 50V |
| SEMICONDUCTORS | | |
| Q01, 02 | TR2SA763E | 2SA763E |
| Q03, 04 | TR2SC1570LH | 2SC1570LH |

| Symbol No. | Part Number | Description |
|------------|-------------|---------------------------|
| RESISTORS | | |
| R01, 02 | RF25DC823J | Carbon 82K 1/4W \pm 5% |
| R03, 04 | RF25DC102J | Carbon 1K 1/4W \pm 5% |
| R05, 06 | RF25DC124J | Carbon 120K 1/4W \pm 5% |
| R07, 08 | RF25DC823J | Carbon 82K 1/4W \pm 5% |
| R09, 10 | RF25DC105J | Carbon 1M 1/4W \pm 5% |
| R11, 12 | RF25DC271J | Carbon 270 1/4W \pm 5% |
| R13, 14 | RF25DC103J | Carbon 10K 1/4W \pm 5% |
| R15, 16 | RF25DC684J | Carbon 680K 1/4W \pm 5% |
| R17, 18 | RF25DC183J | Carbon 18K 1/4W \pm 5% |
| R19, 20 | RF25DC334J | Carbon 330K 1/4W \pm 5% |
| R21 | RF25DC104J | Carbon 100K 1/4W \pm 5% |
| R22 | RF25DC272J | Carbon 2.7K 1/4W \pm 5% |
| R23 | RF25DC471J | Carbon 470 1/4W \pm 5% |

RS-1015

POWER AMP P.C.BOARD
RS-1020

RS-1030



| TRANSISTOR DC VOLTAGES | | | | |
|------------------------|-----------|-----|------|-----|
| SYMBOL No. | DEVICE | B | C | E |
| Q01 | 2SC1570LH | 2.8 | 11.6 | 2.2 |

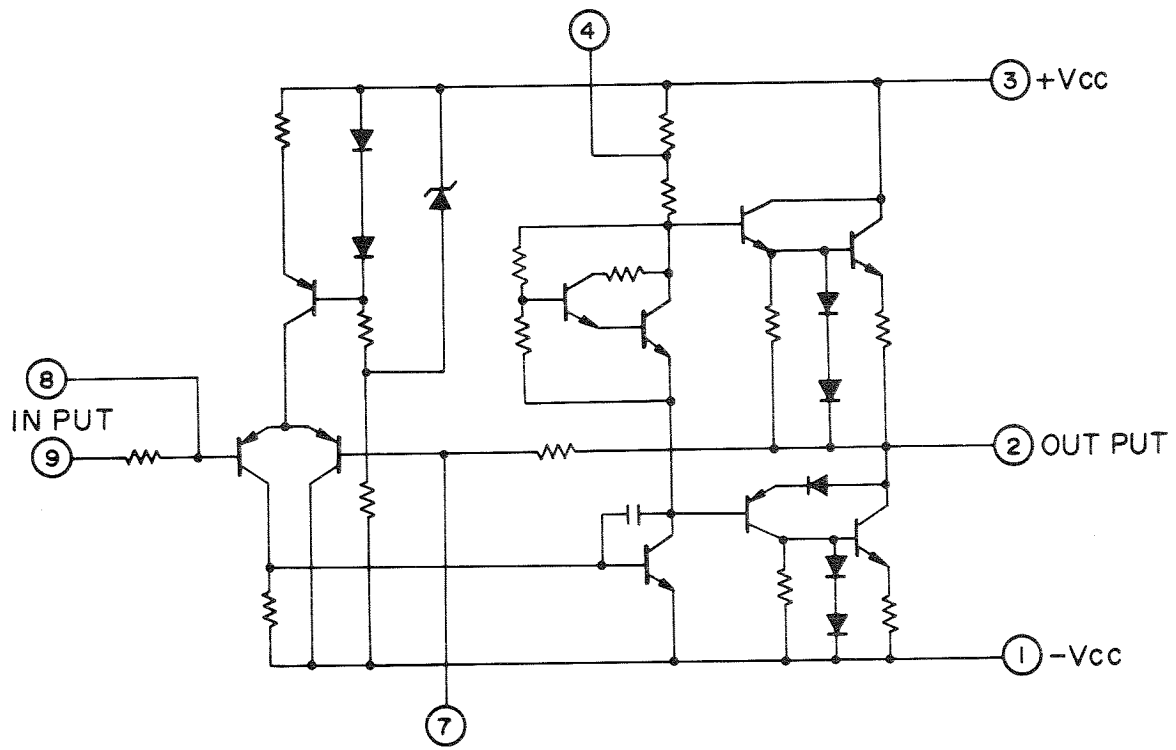
IC01 PA401X

| PIN NUMBERS & VOLTAGES | | | | | | | | | |
|------------------------|---|----|------|---|---|-------|------|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| -25 | 0 | 25 | 12.8 | | | 0.086 | 0.08 | 0 | |

IC01 PA501X

| PIN NUMBERS & VOLTAGES | | | | | | | | | |
|------------------------|---|----|------|---|---|-------|------|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| -32 | 0 | 32 | 16.6 | | | 0.086 | 0.08 | 0 | |

POWER AMP IC EQUIVALENT CIRCUIT



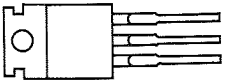
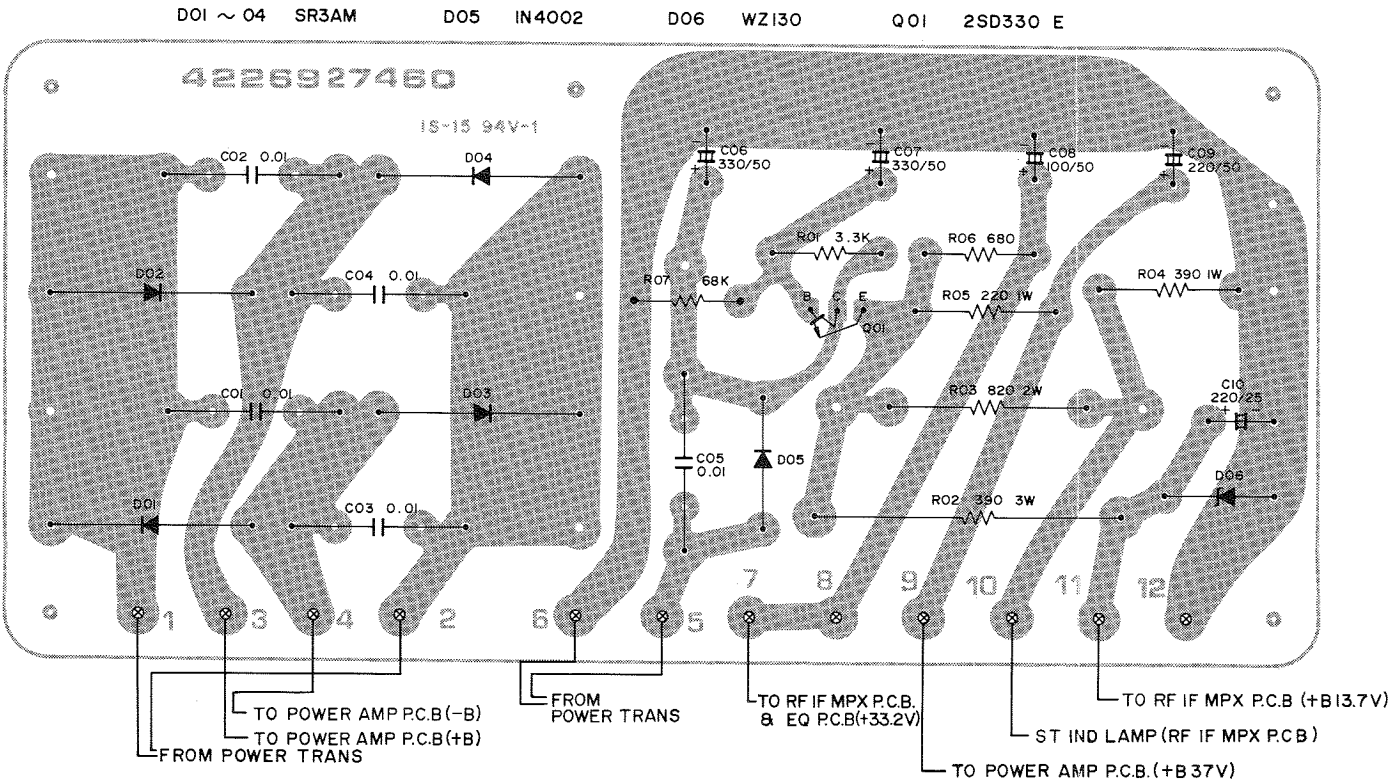
PARTS LIST

POWER AMP PCB Assy
1310 4001 72150 (RS-1015)
1310 4001 72151 (RS-1020)
1310 4001 72152 (RS-1030)

| Symbol No. | Part Number | Description |
|------------|-----------------------|---|
| CAPACITORS | | |
| C01 | CL22305-3 | Tantal 1μF 35V ±20% |
| C02 | CK22351-3 | Ceramic 500pF 50V ±10% |
| C03 | CK22344-9 | Ceramic 15pF 50V ±5% |
| C04 | CL22305-14 | Tantal 4.7μF 35V ±20% |
| C05 | CIHRB337A | Electrolytic 330μF 50V |
| C06 | CK22351-3 | Ceramic 500pF 50V ±10% |
| C07 | CE1252515 | Electrolytic 47μF 16V |
| C08 | CK22344-32 | Ceramic 10pF 50V(RS-1030) |
| C09 | C2YFRK473B | Mylar 0.047μF 150V ±10% |
| C10 | CY22335-18 | Mylar 0.1μF 50V ±20% |
| C11, 12 | CE22342-2 | Electrolytic 1μF 50V (RS-1015, RS-1020) |
| C12 | CE22342-2 | Electrolytic 1μF 50V (RS-1030) |
| C13 | CE0252625 42349 21230 | Electrolytic 47μF 25V Relay Thermal (RS-1030) |

| SEMICONDUCTORS | | |
|----------------|-------------|---|
| Symbol No. | Part Number | Description |
| IC01 | TR09023 | PA401X (RS-1015, RS-1020) |
| IC01 | TR09024 | PA501X (RS-1030) |
| Q01 | TR2SC1570LH | 2SC1570 LH |
| RESISTORS | | |
| R01 | RF25DC562J | Carbon 5.6K 1/4W ±5% |
| R02 | RF25DC274J | Carbon 270K 1/4W ±5% |
| R03 | RF25DC104J | Carbon 100K 1/4W ±5% |
| R04 | RF25DC682J | Carbon 6.8K 1/4W ±5% |
| R05 | RF25DC102J | Carbon 1K 1/4W ±5% |
| R06 | RF25DC472J | Carbon 4.7K 1/4W ±5% |
| R07 | RF25DC182J | Carbon 1.8k 1/4W ±5% (RS-1015) |
| R07 | RF25DC152J | Carbon 1.5k 1/4W ±5% (RS-1020) |
| R07 | RF25DC122J | Carbon 1.2k 1/4W ±5% (RS-1030) |
| R08 | RC20RF100J | Carbon 10 1/2W ±10% |
| R09 | R50DC221J | Metal Oxide Film 220 1/2W ±10% (RS-1015, RS-1020) |
| R09 | R50DC271J | Metal Oxide Film 270 1/2W ±10% (RS-1030) |

POWER SUPPLY P.C.BOARD



Emitter
Collector
Base

PARTS LIST

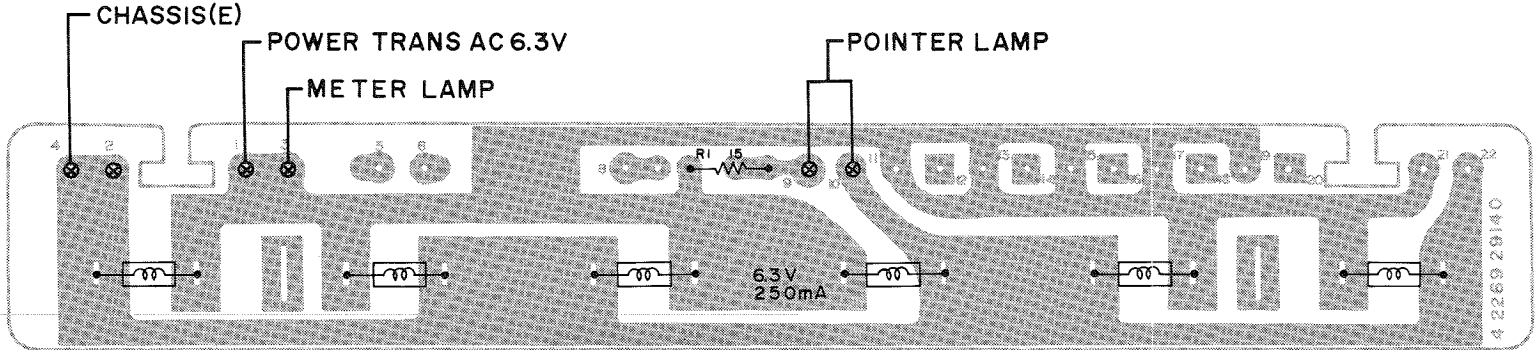
POWER SUPPLY PCB Assy
1310 4001 72140

| Symbol No. | Part Number | Description |
|-----------------------|-------------|------------------------------------|
| CAPACITORS | | |
| C01, 02, 03, 04, 05 | CK22359-1 | Ceramic 0.01 μ F 500V +100 -0% |
| C06, 07 | CE22342-27 | Electrolytic 330 μ F 50V |
| C08 | CE22342-9 | Electrolytic 100 μ F 50V |
| C09 | CE22342-26 | Electrolytic 220 μ F 50V |
| C10 | CE22342-14 | Electrolytic 220 μ F 25V |
| SEMICONDUCTORS | | |
| D01, 02, 03, 04 | TRSR3AM | Diode SR3AM |
| D05 | TR1N4002 | Diode 1N4002 |
| D06 | TRWZ130 | Diode WZ-130 |
| Q01 | TR2SD330E | 2SD330E |
| RESISTORS | | |
| R01 | RF25DC332J | Carbon 3.3K 1/4W \pm 5% |
| R02 | RPG3W391K | Metal Oxide Film 390 3W \pm 10% |
| R03 | RW200W821J | Metal Oxide Film 820 2W \pm 10% |
| R04 | RW200W391J | Metal Oxide Film 390 1W \pm 10% |
| R05 | 0111410 | Metal Oxide Film 220 1W \pm 10% |
| R06 | RF25DC681J | Carbon 680 1/4W \pm 5% |
| R07 | RF25DC683J | Carbon 68K 1/4W \pm 5% |

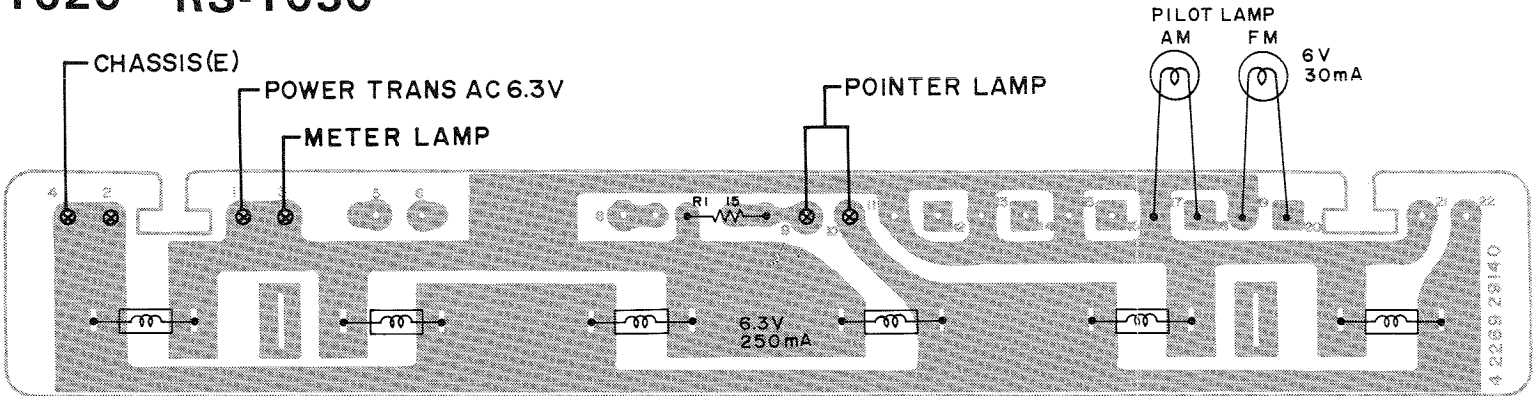
| TRANSISTOR DC VOLTAGE | | | | |
|-----------------------|---------|------|------|----|
| SYMBOL No. | DEVICE | B | C | E |
| Q01 | 2SD330E | 42.6 | 44.7 | 42 |

DIAL LAMP P.C.BOARD

RS-1015



RS-1020 RS-1030

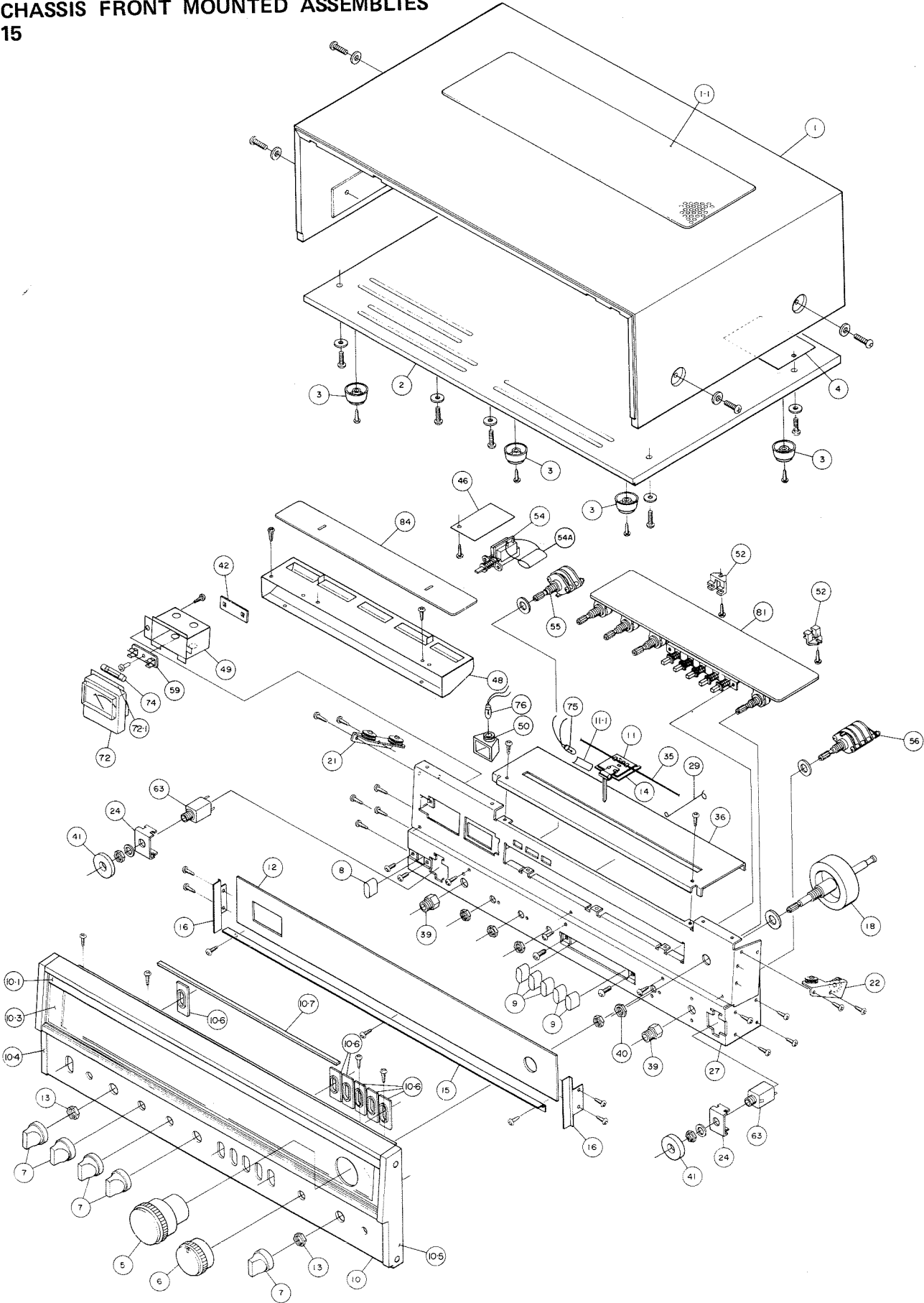


BOTTOM VIEW

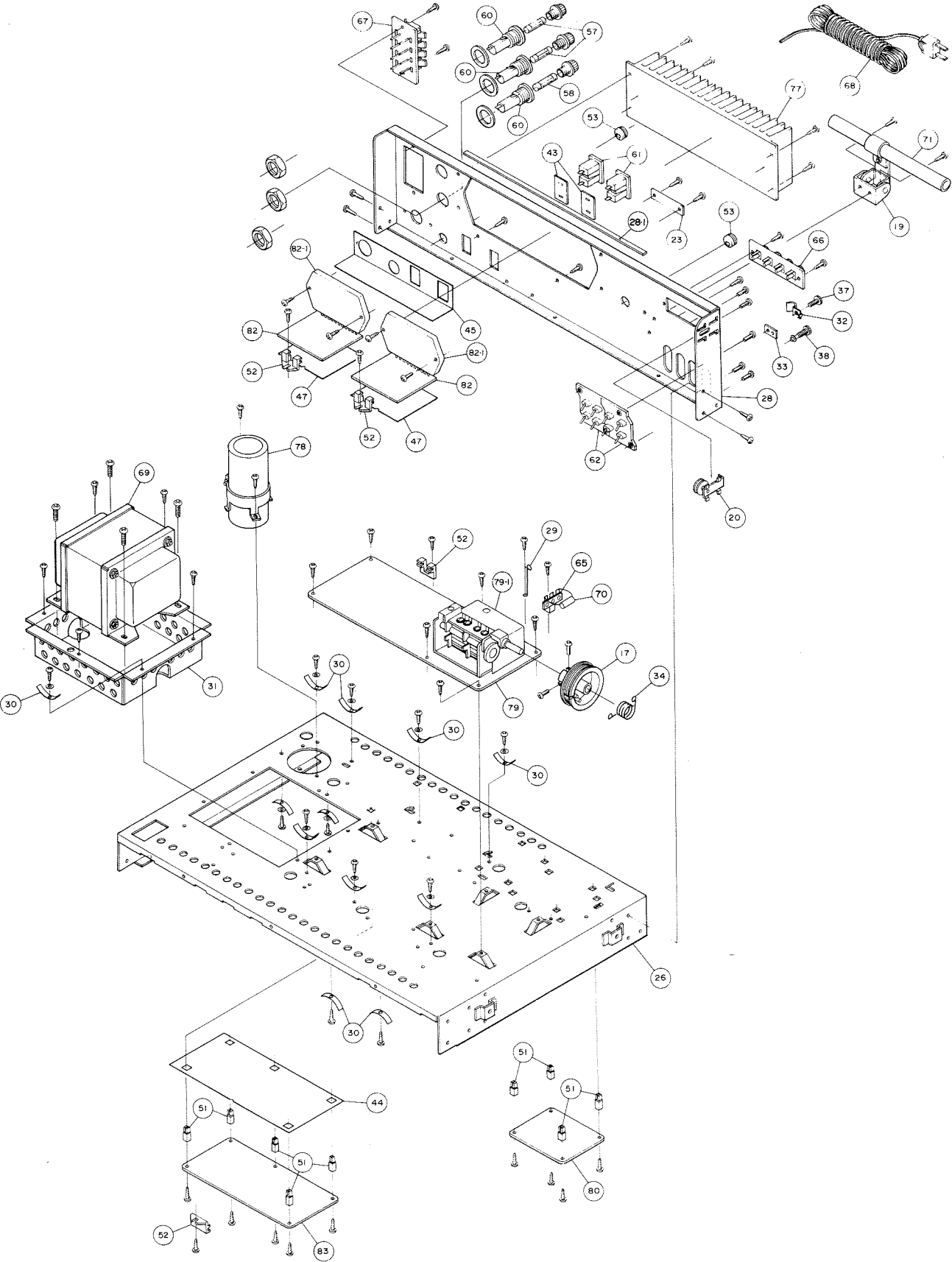
DIAL LAMP PCB Assy
1310 4001 72160 (RS-1015)
1310 4001 72161 (RS-1020, RS-1030)

| Symbol No. | Part Number | Description |
|------------------|--------------|---|
| 4 | 2359 20930 | Lamp Holder |
| | LM2767201 | Pilot Lamp, Fuse type 6.3V 250mA |
| | LM4612920726 | Pilot Lamp AM,FM ind 6V 30mA (RS-1020, RS-1030) |
| RESISTORS | | |
| R01 | RF25DC150J | Carbon 15 1/4W \pm 5% |

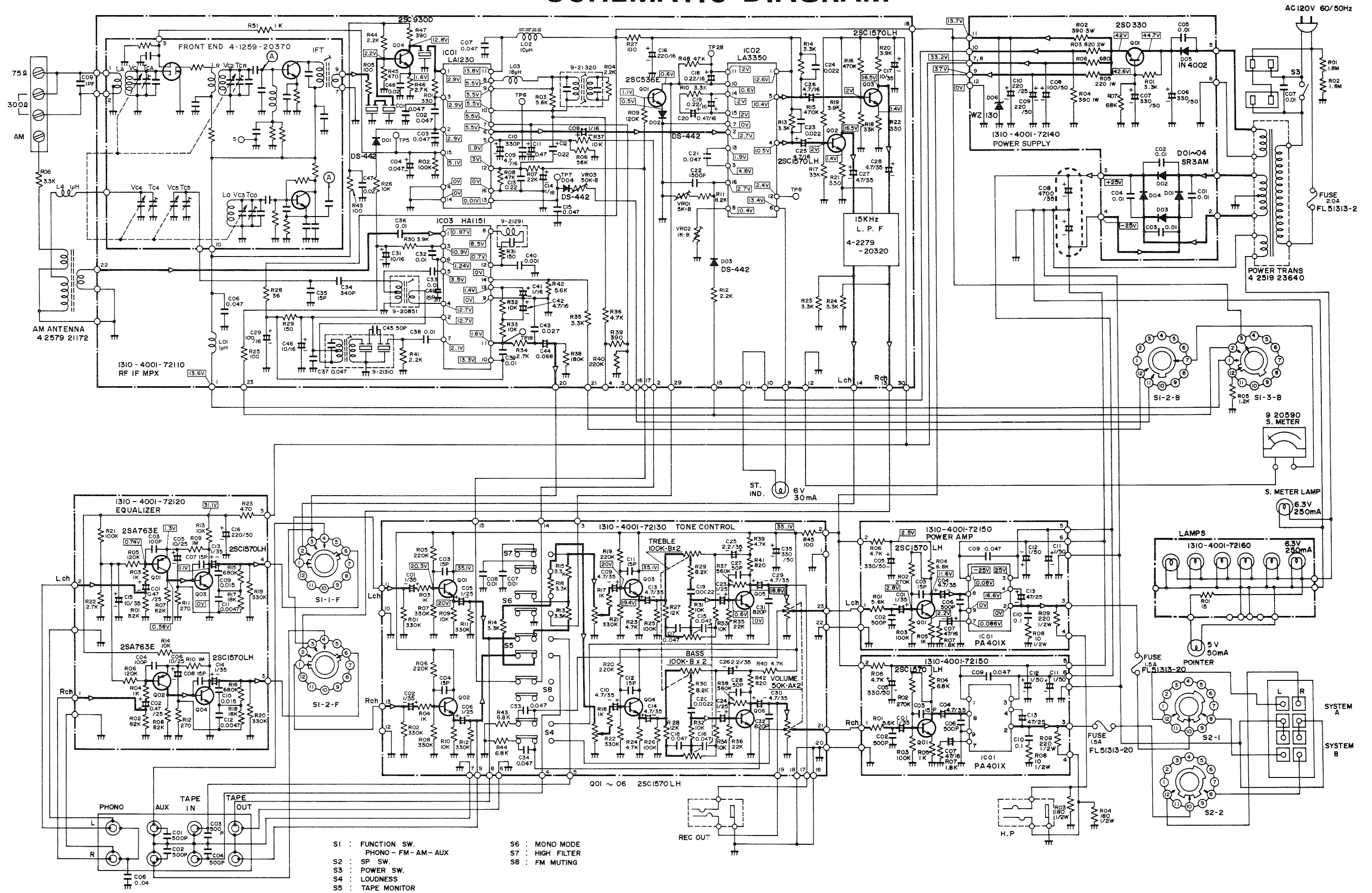
EXPLODED VIEW OF CABINET
AND CHASSIS FRONT MOUNTED ASSEMBLIES
RS-1015



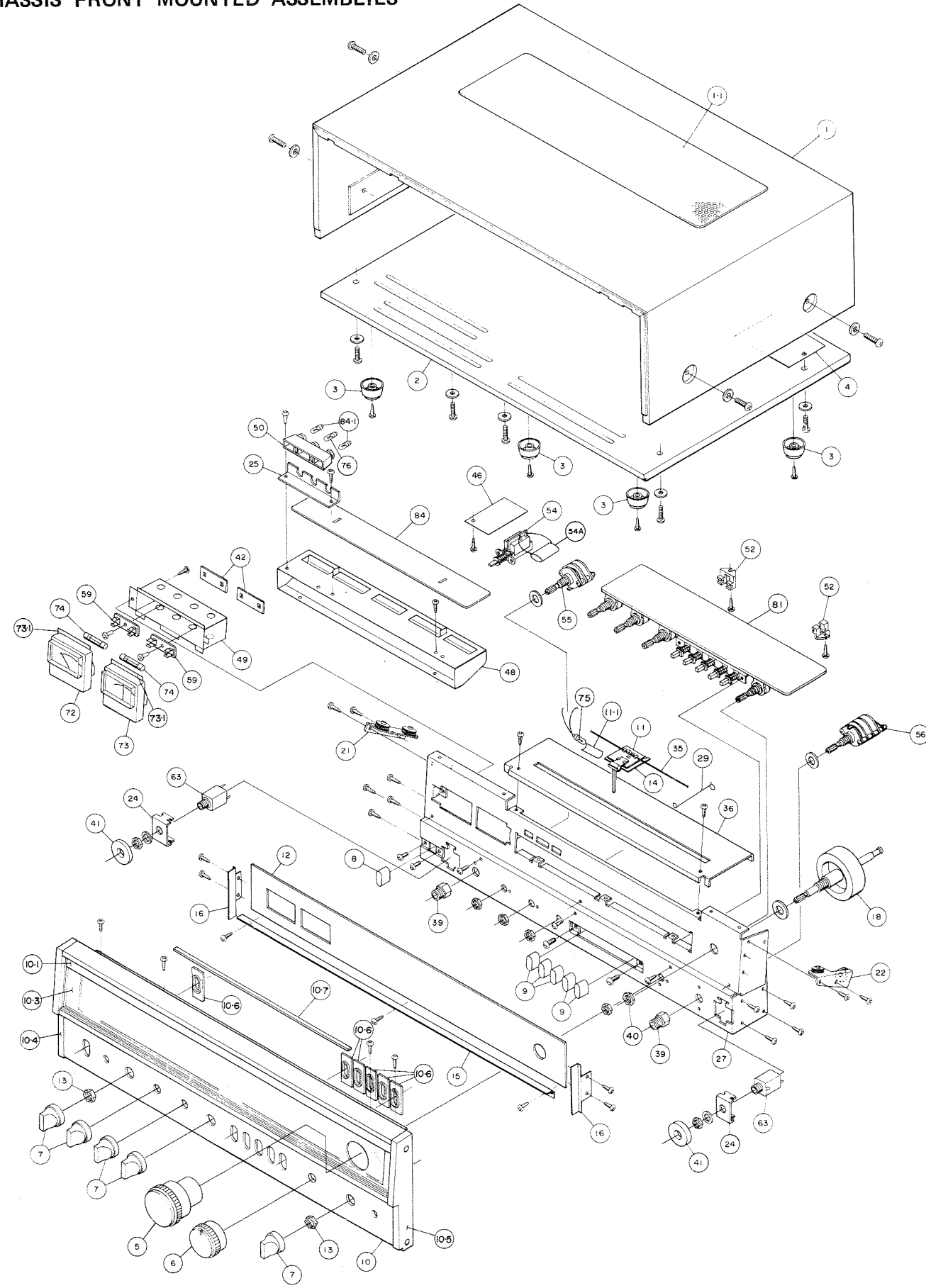
EXPLODED VIEW OF CHASSIS
AND REAR MOUNTED ASSEMBLIES
RS-1015



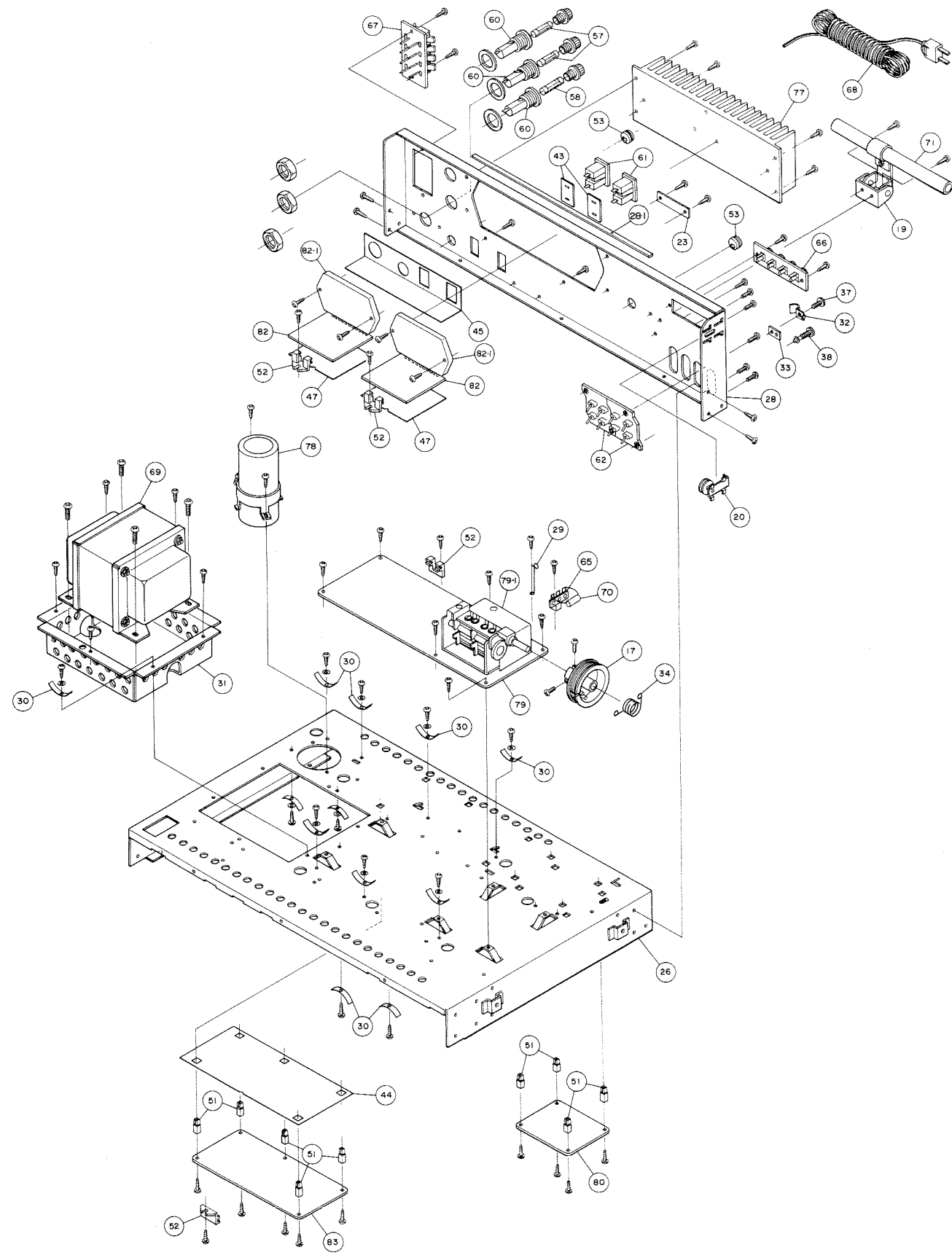
SCHEMATIC DIAGRAM



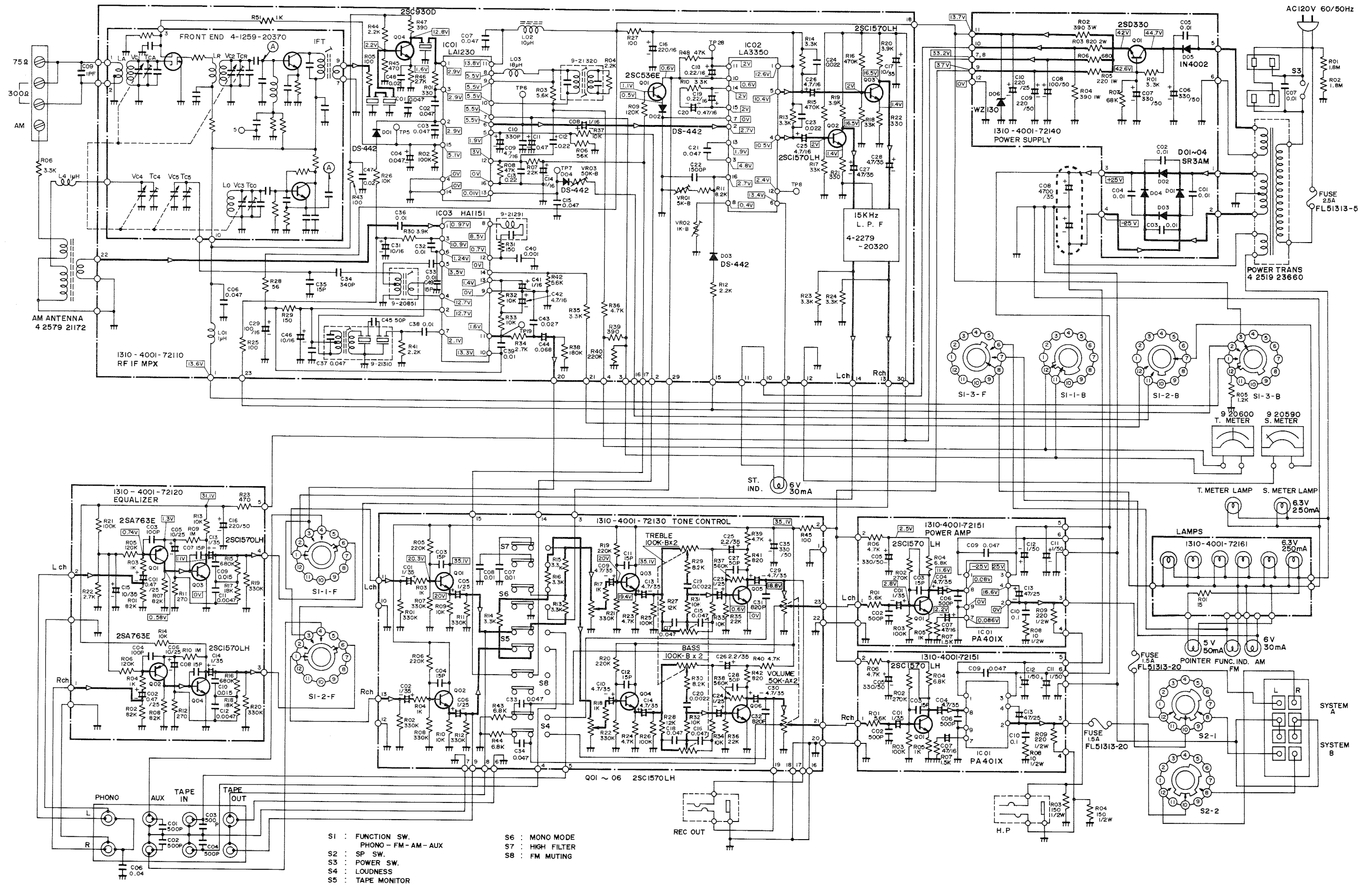
EXPLODED VIEW OF CABINET
AND CHASSIS FRONT MOUNTED ASSEMBLIES
RS-1020



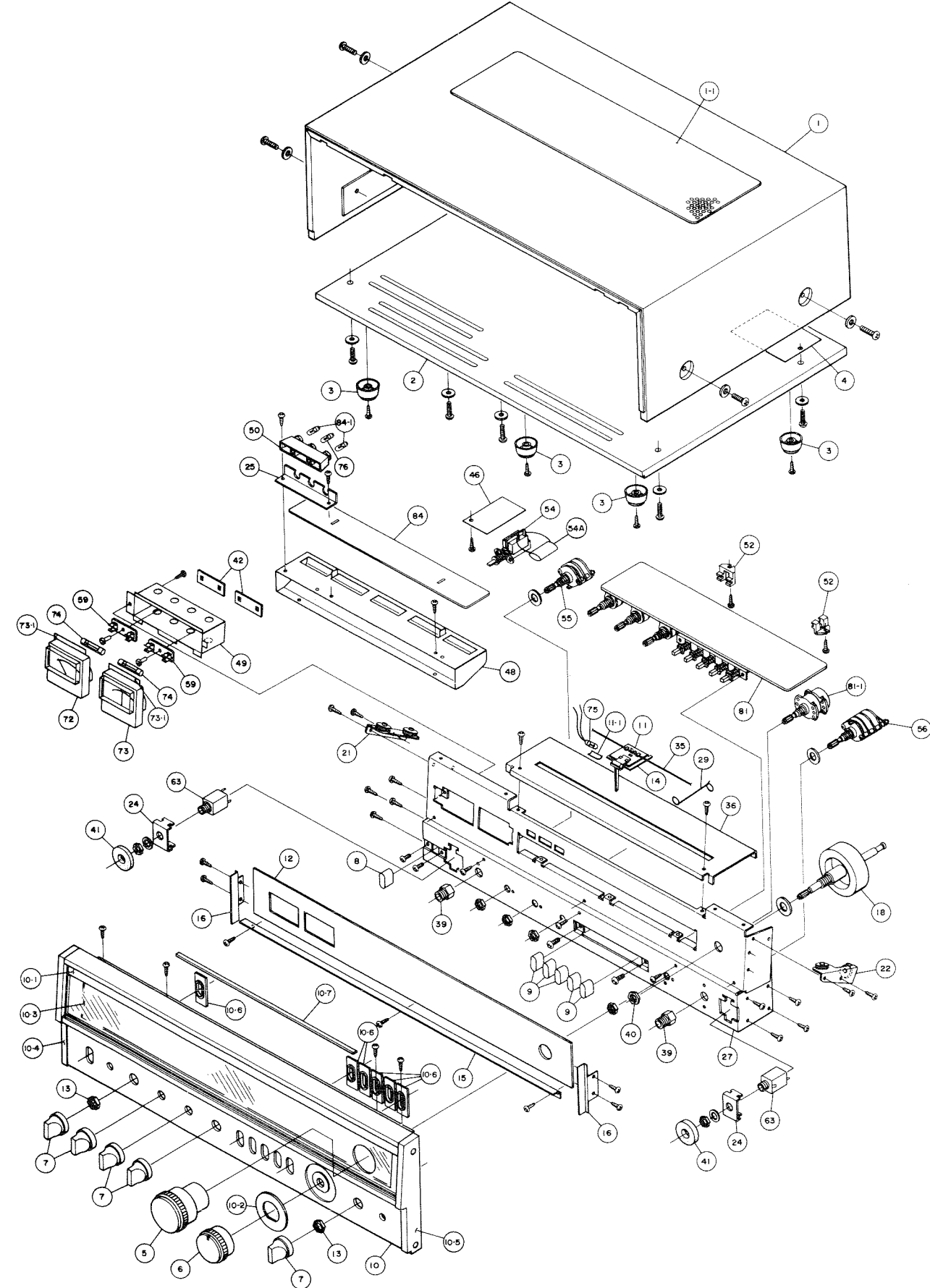
EXPLODED VIEW OF CHASSIS
AND REAR MOUNTED ASSEMBLIES
RS-1020



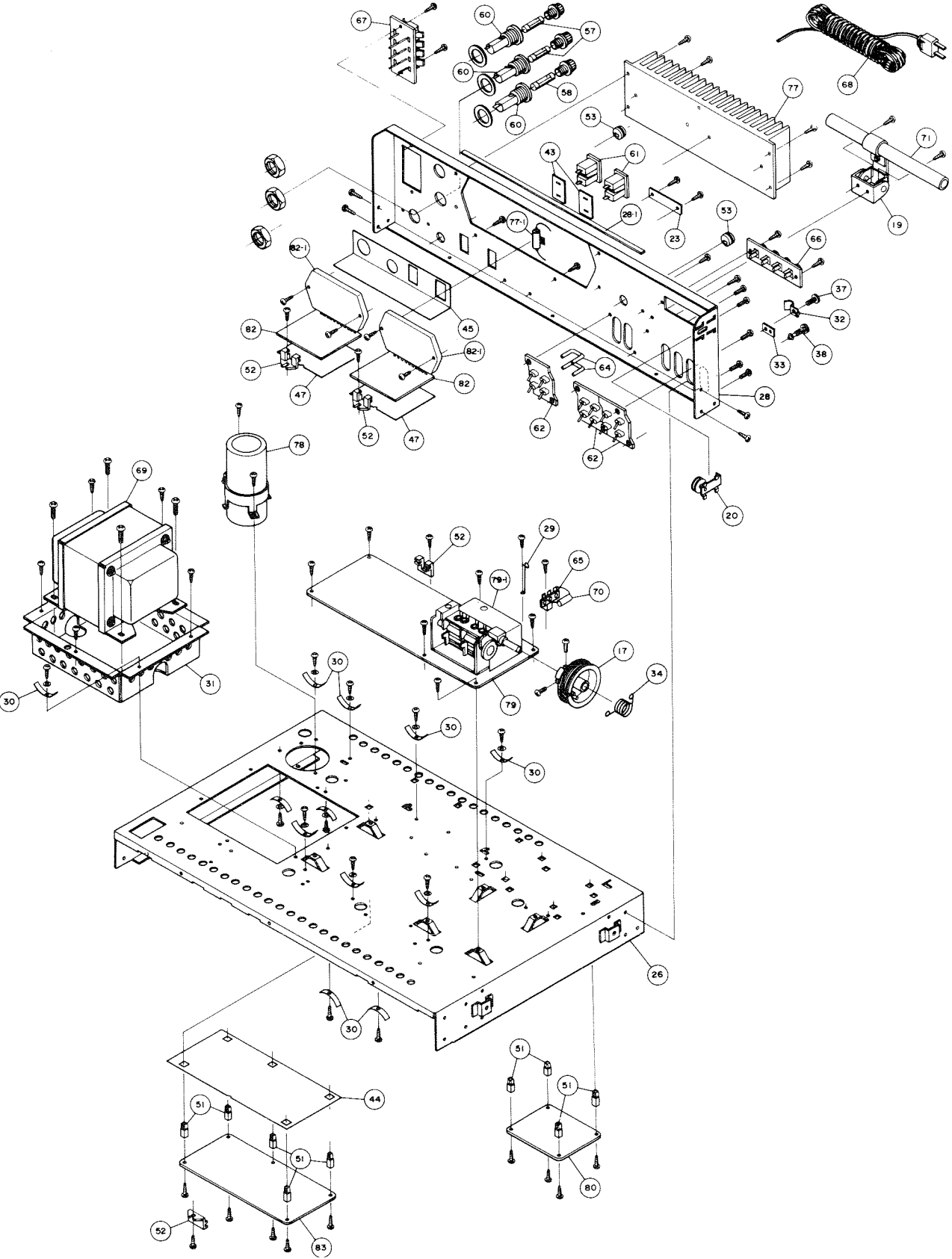
SCHEMATIC DIAGRAM



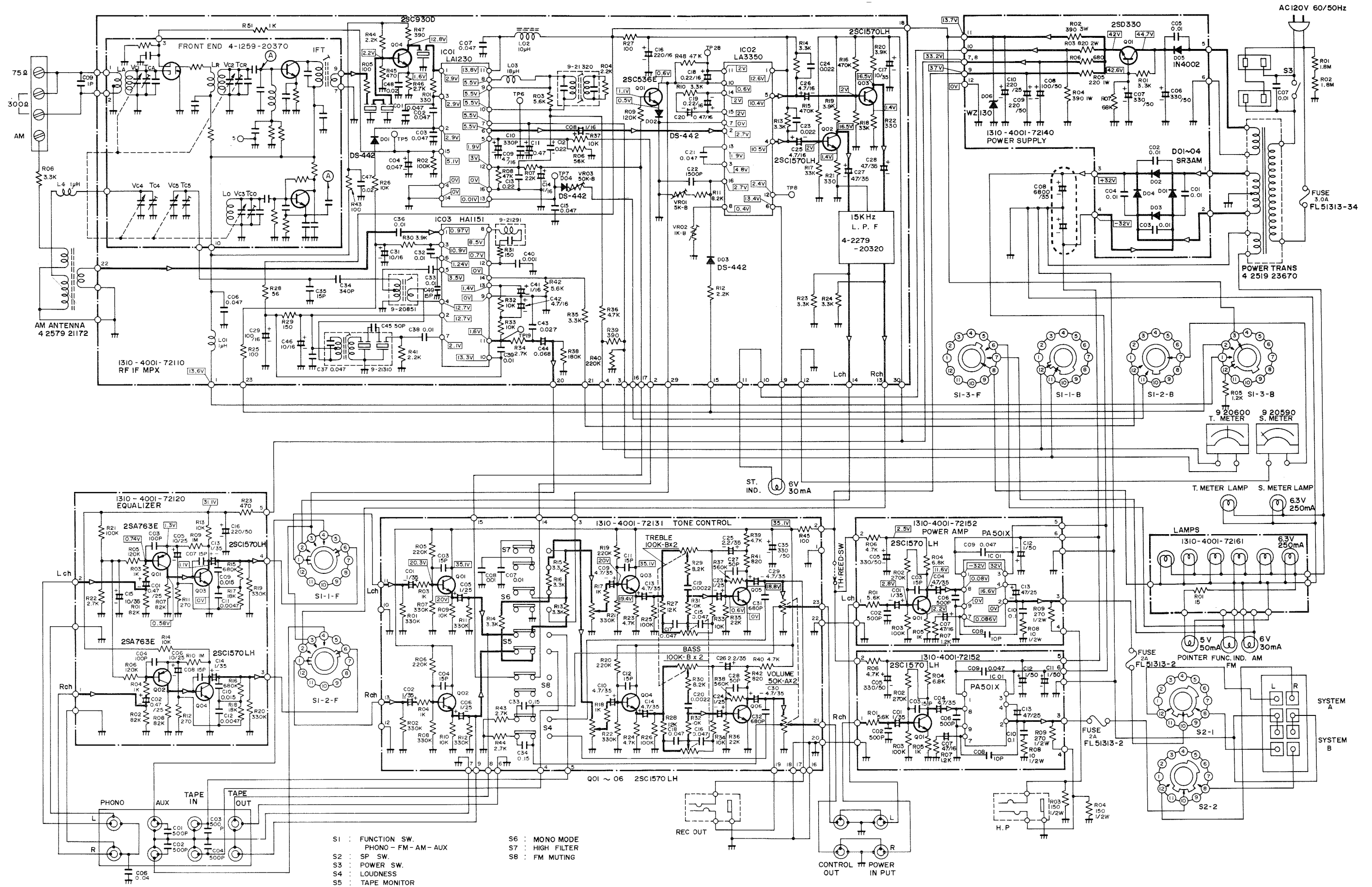
EXPLODED VIEW OF CABINET
AND CHASSIS FRONT MOUNTED ASSEMBLIES
RS-1030



EXPLODED VIEW OF CHASSIS
AND REAR MOUNTED ASSEMBLIES
RS-1030



SCHEMATIC DIAGRAM



PARTS LIST

CABINET PARTS LIST

| Symbol No. | Part Number | Description |
|------------|-----------------|----------------|
| 1A | 1310 1101 08400 | Cabinet Assy |
| 1 * | 1312 1101 32000 | Cabinet P/O 1A |
| 1 - 1 * | 1312 1312 11003 | Grill P/O 1A |
| 2 * | 1312 1105 17100 | Plate, Bottom |
| 3 * | 1312 1801 13200 | Leg |
| 4 * | 1312 6101 21900 | Shield |

APPEARANCE PARTS LIST

| Symbol No. | Part Number | Description |
|------------|-----------------|-------------------------------------|
| 5 | 1310 1001 35300 | Knob, Tuning |
| 6 | 1310 1001 35400 | Knob, Volume |
| 7 | 1310 1001 35500 | Knob, Controls |
| 8 | 1310 1001 35600 | Knob, Push, Power Switch |
| 9 | 1310 1001 35700 | Knob, Push, Button |
| 10 | 1310 1016 22600 | Dress Panel Assy (RS-1015) |
| 10 | 1310 1016 22601 | Dress Panel Assy (RS-1020) |
| 10 | 1310 1016 22602 | Dress Panel Assy (RS-1030) |
| 10 - 1 * | 1312 1110 18400 | Insert "RS-1015" |
| 10 - 2 * | 1312 1110 18500 | Volume Level Plate, RS-1030, P/O 10 |
| 10 - 1 * | 1312 1110 18401 | Insert "RS-1020" P/O 10 |
| 10 - 1 * | 1312 1110 18402 | Insert "RS-1030" P/O 10 |
| 10 - 3 * | 1312 1205 16300 | Window P/O 10 |
| 10 - 4 * | 1312 1311 35900 | End Strip (Left) P/O 10 |
| 10 - 5 * | 1312 1311 35901 | End Strip (Right) P/O 10 |
| 10 - 6 * | 1312 6113 23300 | Bushing P/O 10 |
| 10 - 7 * | 1312 5205 16700 | Cushion P/O 10 |
| 11 | 1310 3011 16500 | Dial Pointer Assy |
| 11 - 1 * | 1312 6308 16400 | Filter, Dial Pointer |
| 12 | 1312 1201 28100 | Dial Plate (RS-1015) |
| 12 | 1312 1201 28101 | Dial Plate (RS-1020) |
| 12 | 1312 1201 28102 | Dial Plate (RS-1030) |
| 14 * | 1312 5205 16800 | Cushion, Dial Pointer |
| 15 * | 1312 6113 23400 | Shelter, Bottom, Dial Plate |
| 16 * | 1312 6113 23500 | Shelter, Left/Right; Dial Plate |

CHASSIS PARTS LIST

| Symbol No. | Part Number | Description |
|------------|-----------------|-------------------------------------|
| 18 | 1310 3003 19100 | Tuning Shaft Assy |
| 19 | 1310 3008 11702 | Support, Antenna Assy |
| 20 * | 1310 3020 05800 | Pully Assy Rear |
| 21 * | 1310 3020 06900 | Pully Assy Left Front |
| 22 * | 1310 3020 07000 | Pully Assy Right Front |
| 23 * | 1312 1310 23200 | Nameplate, Rear |
| 24 * | 1312 3101 38000 | Mounting Bracket, (Head Phone Jack) |
| 26 * | 1312 3301 21800 | Chassis |
| 27 * | 1312 3305 20000 | Front Panel (RS-1015) |
| 27 * | 1312 3305 20001 | Front Panel (RS-1020, RS-1030) |
| 28 * | 1312 3306 22200 | Rear Panel (RS-1015) |
| 28 * | 1312 3306 22201 | Rear Panel (RS-1020) |
| 28 * | 1312 3306 22202 | Rear Panel (RS-1030) |
| 28 - 1 * | 1312 5205 16700 | Cushion |

PARTS LIST

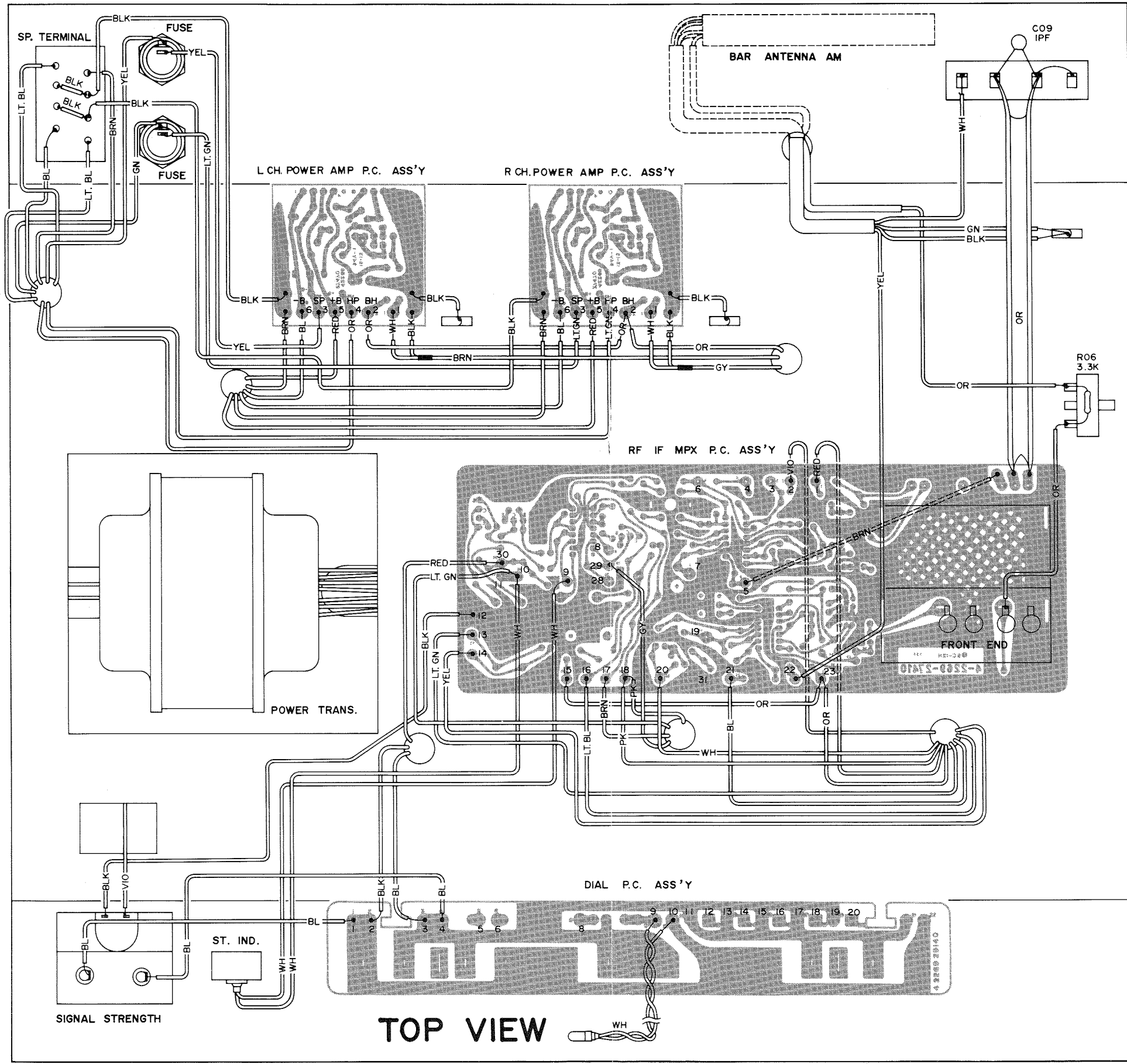
MISC. PARTS LIST

| Symbol No. | Part Number | Description |
|------------|-----------------|--|
| 17 | 1310 3002 11300 | Drum Assy, Tuning Gang |
| 34 | 1312 4111 00400 | Tension Spring |
| 35 * | 1312 4112 10200 | Dial Cord |
| 41 * | 1312 4208 16400 | Spacer Cushion, Head Phone Jack |
| 42 * | 1312 6107 13900 | Insulator, Meter Lamp |
| 43 * | 1312 6107 19300 | Insulator, AC Recept |
| 44 * | 1312 6107 21400 | Insulator P.C.B. |
| 45 * | 1312 6107 21500 | Insulator, Rear Panel |
| 46 * | 1312 6107 21600 | Insulator, P.C.B. |
| 47 * | 1312 6107 21700 | Insulator, P.C.B. |
| 48 * | 1312 6110 23700 | Housing, Dial Lamp P.C.B |
| 49 * | 1312 6110 25700 | Housing, Meter Lamp |
| 50 * | 1312 6111 12100 | Housing, Stereo Beacon Lamp |
| 51 * | 1312 3614 17101 | P.C.B. Mounting Clip |
| 52 * | 1312 3614 18300 | P.C.B. Mounting Clam |
| 54A (C07) | CK22359-1 | Capacitor, Ceramic, 0.01 μ F 500V |
| 57 | FL51313-20 | Fuse, 1.5A 125V Slo-Blo Speaker (RS-1015, RS-1020) |
| 57 | FL51313-2 | Fuse, 2A 125V Slo-Blo Speaker (RS-1015,1020,1030) |
| 58 | FL51313-2 | Fuse, 2A 125V Slo-Blo Power (RS-1015) |
| 58 | FL51313-5 | Fuse, 2.5A 125V Slo-Blo Power (RS-1020) |
| 58 | FL51313-34 | Fuse, 3A 125V Slo-Blo Power (RS-1030) |
| 59 | 4 2359 20160 | Holder, Lamp |
| 68 * | 4 2439 20720 | Line Cord |
| 70 (L04) | 4 2539 20120 | IF Trap Coil 1 μ F |
| 71 | 4 2579 21172 | AM Antenna |
| 72 (M-1) | 4 5119 20590 | Meter, Signal Strenth |
| 72-1 * | 1312 1406 12300 | Plate Color (RS-1015) |
| 73 (M-2) | 4 5119 20600 | Meter, Center of Channel (RS-1020,RS-1030) |
| 73-1 * | 1312 1406 12300 | Plate Color (RS-1020, RS-1030) |
| 74 | LM2767201 | Lamp, Meter/Dial 6.3V 250MA |
| 75 | 4 6129 20592 | Lamp, Pointer 5V 50mA |
| 76 | 4 6129 20726 | Lamp, Stereo Indicator 6V 30mA |
| 77-1 | 4 2349 21230 | Thermal Relay (RS-1030) |

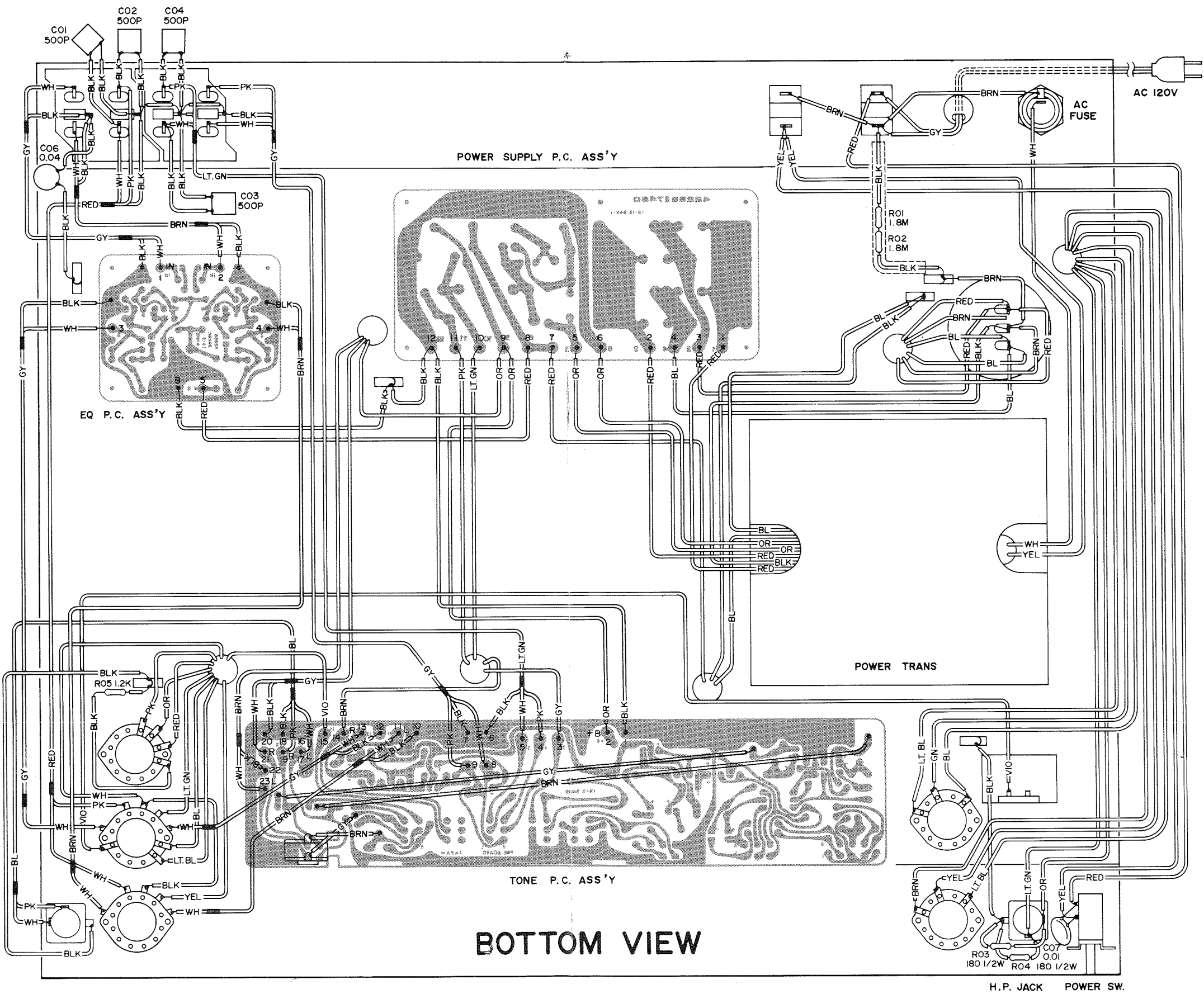
| Symbol No. | Part Number | Description |
|------------|-----------------|---|
| 79 * | 1310 4001 72110 | RF IF MPX P.C.B. Assy |
| 80 * | 1310 4001 72120 | Equaliser P.C.B. Assy |
| 81 * | 1310 4001 72130 | Tone P.C.B. Assy (RS-1015, RS1020) |
| 81 * | 1310 4001 72131 | Tone P.C.B. Assy (RS-1030) |
| 82 * | 1310 4001 72150 | Power Amp P.C.B. Assy (RS-1015) |
| 82-1 | TR09023 | IC PA401X (RS-1015,1020) |
| 82 * | 1310 4001 72151 | Power Amp P.C.B. Assy (RS-1020) |
| 82 * | 1310 4001 72152 | Power Amp P.C.B. Assy (RS-1030) |
| 82-1 | TR09024 | IC PA501X (RS-1030) |
| 83 * | 1310 4001 72140 | Power Supply P.C.B. Assy |
| 84 * | 1310 4001 72160 | Dial Lamp P.C.B. Assy (RS-1015) |
| 84 * | 1310 4001 72161 | Dial Lamp P.C.B. Assy (RS-1020, RS-1030) |
| C01,02 | CK22351-3 | Cap Ceramic 500pF 50V |
| C03,04 | | |
| C06 | CK22362-14 | Cap Ceramic 0.04 μ F 50V |
| C09 | CK0248631 | Cap Ceramic 1pF 50V |
| R01,02 | RC20BF185J | Resistor 1.8Mohm 1/2W \pm 5% |
| R03,04 | RC20BF180J | Resistor 180ohm 1/2W \pm 5% (RS-1015) |
| R03,04 | RC20BF150J | Resistor 150ohm 1/2W \pm 5% (RS-1020,RS-1030) |
| R05 | RF25DC122J | Resistor 1.2kohm 1/4W \pm 5% |
| R06 | RF25DC332J | Resistor 3.3kohm 1/4W \pm 5% |

NOTE: * Asterisk indicates not a service part

POINT TO POINT WIRING DIAGRAM

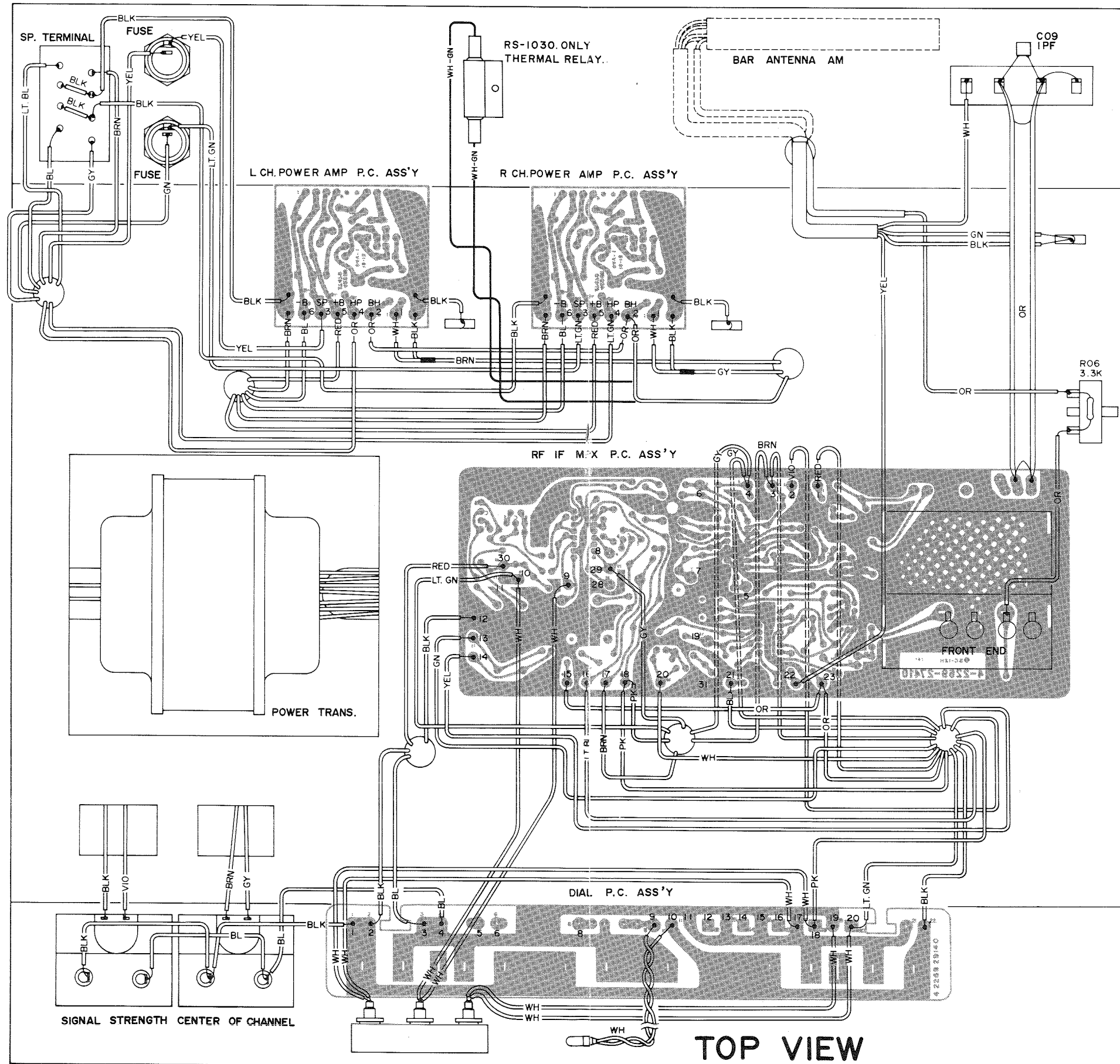


POINT TO POINT WIRING DIAGRAM



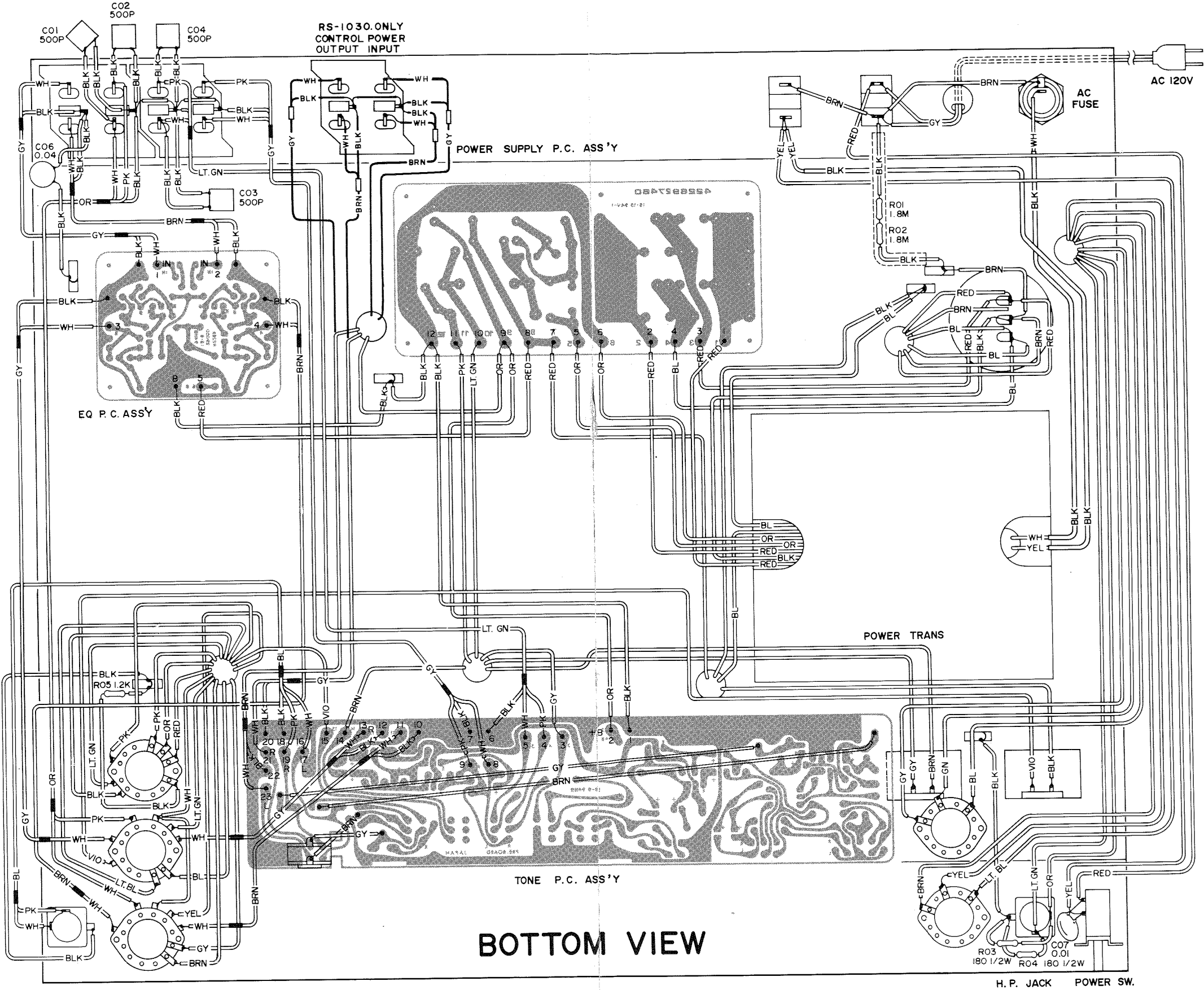
BOTTOM VIEW

POINT TO POINT WIRING DIAGRAM



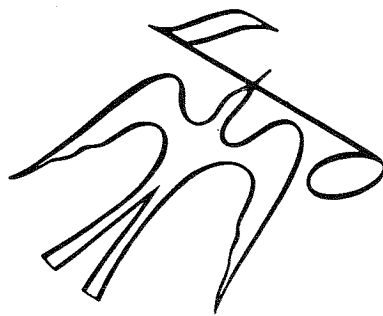
RS-1020
RS-1030

POINT TO POINT WIRING DIAGRAM



BOTTOM VIEW

NOTES



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