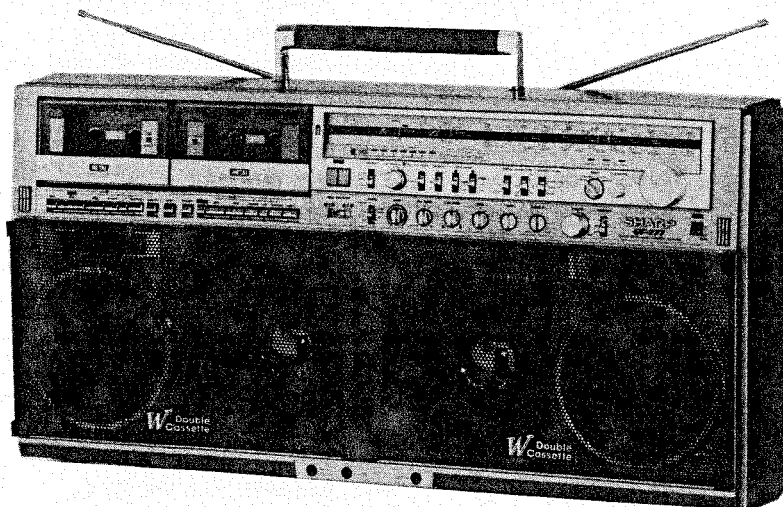


# SHARP SERVICE MANUAL

GF-777Z

SX3E6GF-777Z/



## GF-777Z

### Caution!

Under the employment of latest technologies this set uses leadless parts. Consult page 19, 20 without fail before replacing them.

In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

## FEATURES

- Multi-Amp 3-Way 6-Speaker System Massive 90W PMPO
- Dynamic Super Woofer Sound
- 16cm (6½") Woofer with Rigid Speaker Ring
- Horn Tweeter for Clear, Crisp Highs
- Two Decks Side by Side, for Versatile Record/Playback
- Soft-Touch Cassette Controls
- Brilliant Metal Tape Sound
- APLD (Auto Program Locate Device)
- Sharp Super Noise Reduction System

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**SHARP CORPORATION OSAKA, JAPAN**

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT,  
PLEASE REFER TO THE OPERATION MANUAL

## SPECIFICATIONS

### GENERAL

Power source: AC 110-120/210-220/230-240V,  
50/60Hz  
DC 15V (UM/SUM-1, R-20,  
HP-2, or battery x 10, "D" or  
external DC supply)

Speakers: Super Woofer; 16cm (6-1/2") x 2  
Woofer; 16cm (6-1/2") x 2  
Tweeter; Horn type x 2

Output power: PMPO 90W, AC Supply Opera-  
tion with 4 Amplifiers

Semiconductors: 17-IC's  
50-Transistors  
1-SCR  
1-FET  
60-Diodes  
11-LED's

Dimensions: Width; 752mm  
Depth; 166mm  
Height; 379mm

Weight (without batteries): 11.8kg

### TAPE RECORDER/PLAYER

Tape: Philips-type compact cassette tape

Frequency response: 30Hz to 18,000Hz (Metal tape)  
30Hz to 17,000Hz (CrO<sub>2</sub> tape)  
30Hz to 14,000Hz (Normal tape)

S/N ratio: Tape 2 56dB (Metal tape, NR switch: ON)  
Tape 1 60dB (SNRS: ON)  
56dB (SNRS: OFF)

Wow and flutter: 0.055% (WRMS)

Input sensitivity and input impedance:

Ext. Mic; 600 ohms  
Mixing mic; 600 ohms  
Line in; 0.2V/22K ohms

Output level and loaded impedance:

Headphones; 8 ohms to 25 ohms  
External speaker; 4 ohms to 8 ohms  
Line out; 0.6V/50K ohms

### RADIO

Frequency range: AM; 526.5kHz to 1,606.5kHz  
SW<sub>1</sub>; 2.3MHz to 7.3MHz  
SW<sub>2</sub>; 7.3MHz to 22MHz  
FM; 87.6MHz to 108MHz

Specifications for this model are subject to change without  
prior notice.

## POWER SUPPLY

The GF-777Z Unit will operate on an AC mains supply of 110  
~ 120 Volts, 210 ~ 220 Volts, or 230 ~ 240 Volts of

50Hz or 60Hz. For portable use it will operate on its internal  
batteries, or from an external 15 Volts DC supply (with an  
adaptor).

## AC SUPPLY VOLTAGE SELECTOR

The Voltage Selector setting should be checked to see that it  
conforms to the local AC supply voltage. This must be done  
before plugging in to the AC supply. Adjustment is made by  
turning the adjusting screw in either direction with a minus  
headed screwdriver until reading of Selector matches the local  
AC supply voltage.

### Caution:

Use this unit only on the specified voltages, otherwise  
damage, fire, or accidents may be caused. SHARP cannot  
accept responsibility for any damage resulting from the use  
of this unit on unspecified voltages.

## NAMES OF PARTS

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Deck 1: Cassette Compartment</li> <li>2. Deck 2: Cassette Compartment</li> <li>3. Super Woofer Sound Control Knob (Left)<br/>(JKNBK0229AFSA)</li> <li>4. Super Woofer Sound Control Knob (Right)<br/>(JKNBK0229AFSA)</li> <li>5. Tweeter (Left) (VSP0050TB334A)</li> <li>6. Woofer (Left) (VSP0016PB614A)</li> <li>7. Super Woofer (Left) (VSP0016WB604A)</li> <li>8. Deck 1: Monitoring Socket (QJAKJ0089AFZZ)</li> </ol> | <ol style="list-style-type: none"> <li>9. Mixing Microphone Socket (QJAKE0079AFZZ)</li> <li>10. Headphones Socket (QJAKJ0090AFZZ)</li> <li>11. Super Woofer (Right) (VSP0016WB604A)</li> <li>12. Woofer (Right) (VSP0016PB614A)</li> <li>13. Tweeter (Right) (VSP0050TB334A)</li> <li>14. Built-in Microphone For Left Channel Recording<br/>(RMICC0080AFZZ)</li> <li>15. Built-in Microphone For Right Channel Recording<br/>(RMICC0080AFZZ)</li> </ol> |
|--|--|

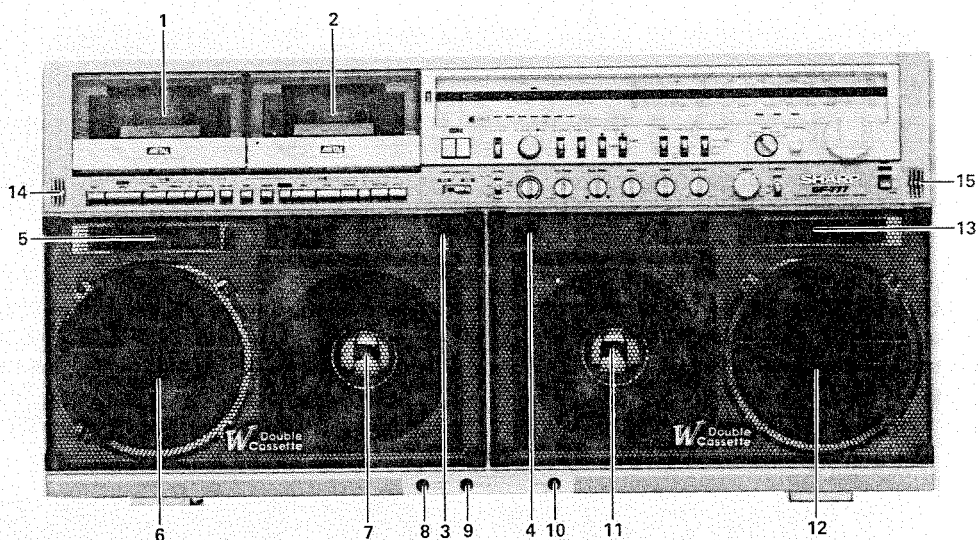


Figure 3-1

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>16. Deck 1: Cassette Ejection Key (JKNBP0126AFSA)</li> <li>17. Deck 1: Playback Key (JKNBP0133AFSA)</li> <li>18. Deck 1: Stop Key (JKNBP0127AFSA)</li> <li>19. Deck 1: Rewind/Review Key (JKNBP0131AFSA)</li> <li>20. Deck 1: Cut Key (JKNBP0128AFSA)</li> <li>21. Deck 1: Fast Forward Wind/Cue Key (JKNBP0134AFSA)</li> <li>22. Deck 1: Pause Key (JKNBP0129AFSA)</li> <li>23. Deck 2: Editing Key (JKNBP0135AFSA)</li> </ol> | <ol style="list-style-type: none"> <li>24. Deck 2: Pause Key (JKNBP0129AFSA)</li> <li>25. Deck 2: Record Key (JKNBP0136AFSA)</li> <li>26. Deck 2: Playback Key (JKNBP0130AFSA)</li> <li>27. Deck 2: Stop Key (JKNBP0127AFSA)</li> <li>28. Deck 2: Rewind/Review Key (JKNBP0131AF SA)</li> <li>29. Deck 2: Cut Key (JKNBP0128AFSA)</li> <li>30. Deck 2: Fast Forward Wind/Cue Key (JKNBP0132AFSA)</li> <li>31. Deck 2: Ejection Key (JKNBP0137AFSA)</li> </ol> |
|--|---|

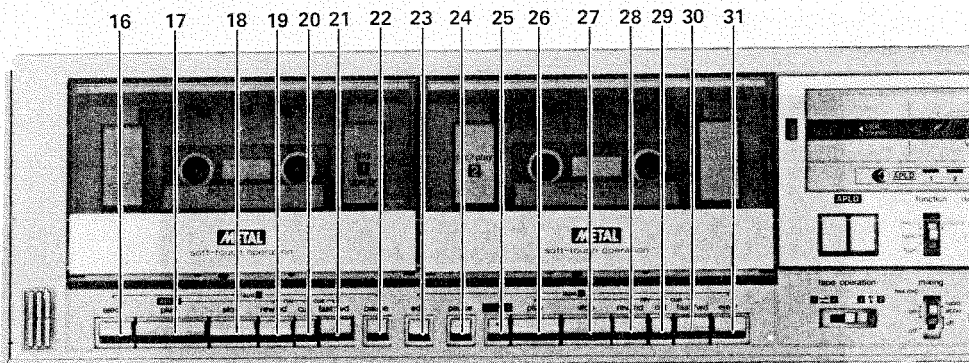


Figure 3-2

- 32. Deck 2: Tape Counter
- 33. Deck 2: Tape Counter Reset Button } (KCOUB0108AFZZ)
- 34. Stereo Recording Level Control Knob (Left) (JKNBK0228AFSA)
- 35. Stereo Recording Level Control Knob (Right) (JKNBK0227AFSA)
- 36. Recording Mode Switch Knob (JKNBK0392AFSA)
- 37. Dubbing Switch Knob (JKNBM0392AFSA)
- 38. VU Meter/Battery Indicator } (RMTRL0206AFZZ)
- 39. VU/Meter/Tuning Indicator }
- 40. Deck 1: Tape Selector Switch Knob (JKNBM0392AFSA)
- 41. Deck 2: Tape Selector Switch Knob (JKNBM0392AFSA)
- 42. SNRS Switch Knob (JKNBM0392AFSA)
- 43. Meter Selector/Dial Light Switch Knob (JKNBM0392AFSA)
- 44. FM Mode/FM Muting Switch (JKNBM0392AFSA)
- 45. Wave Band Selector Switch Knob (JKNBK0245AFSA)
- 46. Radio Echo Indicator (VHPGL-9PR9/-1)
- 47. Dubbing Indicator (VHPGL-9PG9/-1)
- 48. FM Stereo Broadcast Indicator (VHPGL-9PR9/-1)
- 49. Fine Tuning Control Knob (JKNBN0510AFSA)
- 50. Tuning Control Knob (JKNBN0480AFSA)
- 51. APLD Input Buttons (JKNBZ0205AFSA)

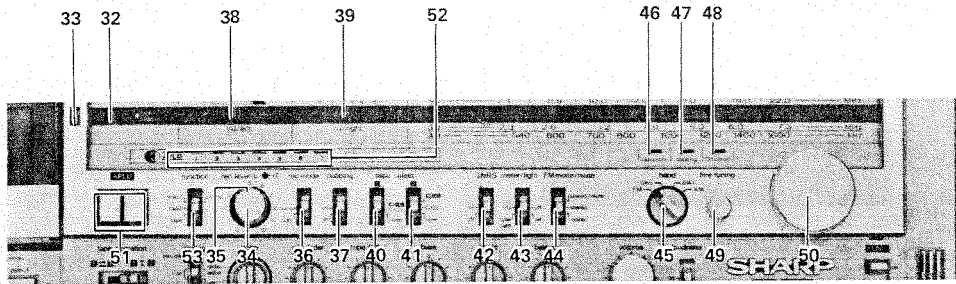


Figure 4-1

- 52. APLD Indicators (VHPGL-9PR9/-1)
- 53. Function Switch Knob (JKNBM0392AFSA)
- 54. Deck Mode Selector Switch Knob (JKNBM0393AFSA)
- 55. Mixing Switch Knob (JKNBM0392AFSA)
- 56. Echo Control Knob (JKNBK0226AFSA)
- 57. Microphone Fader Control Knob (JKNBK0226AFSA)
- 58. Tape Fading Control Knob (JKNBK0226AFSA)
- 59. Bass Tone Control Knob (JKNBK0226AFSA)
- 60. Treble Tone Control Knob (JKNBK0226AFSA)
- 61. Channel Balance Control Knob (JKNBK0226AFSA)
- 62. Output Volume Control Knob (JKNBK0225AFSA)
- 63. Loudness Switch Knob (JKNBM0392AFSA)

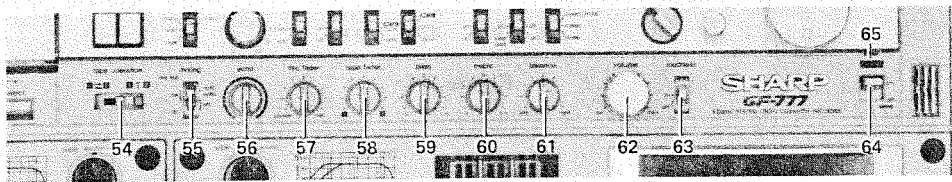


Figure 4-2

- 64. Power Switch Knob (JKNBM0394AFSA)
- 65. Power Indicator (VHPGL-9PR9/-1)
- 66. FM Antenna Terminals (QTANN0253AFZZ)
- 67. Input Selector Switch (QSW-S0309AFZZ)
- 68. Line Output Sockets
- 69. Record Player Input and Line Input Sockets
- 70. Grounding Terminal } (QJAKZ0113AFZZ)
- 71. Remote Start/Stop Control Socket }
- 72. External Microphone Socket }
- 73. AC Supply Voltage Selector (QSOCE0578AFZZ)
- 74. 15 Volt DC Terminal } (QSOCZ2185AFZZ)
- 75. AC Supply Input Terminal }
- 76. Battery Compartment (GFTAB1122AFSA)
- 77. Beat Interference Cancelling Switch (QSW-S0267AFZZ)
- 78. External Super Woofer Sockets } (QJAKH0074AFZZ)
- 79. External Main Speaker Sockets }
- 80. Telescopic Antenna (QANTR0116AFZZ)

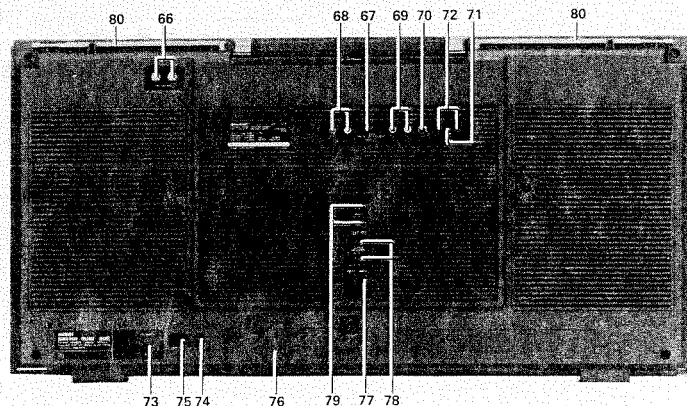


Figure 4-3



## DISASSEMBLY

### Caution:

Prior to the disassembly, be sure to draw the AC mains lead plug from the AC mains socket of the unit and to unload the

cassette compartment with a cassette tape.

### ■ Removal of Front Cabinet and Back Cabinet

1. Remove one tuning control knob, one fine tuning control knob, one volume control knob, two record control knobs, six other control knobs, one deck mode selector knob, one wave band selector knob and other ten selector knobs. Then remove two punching metals and two super woofer sound control knobs. See Fig. 5-1.

2. Remove nine screws at the front cabinet and back cabinet. See Fig. 5-2.
3. Open the back cabinet, and withdraw two antenna lead tips (white, black) from the cabinet inside. See Fig. 5-3.
4. Remove one socket from the power P.W.B. located at the lower of the back cabinet. See Fig. 5-4.

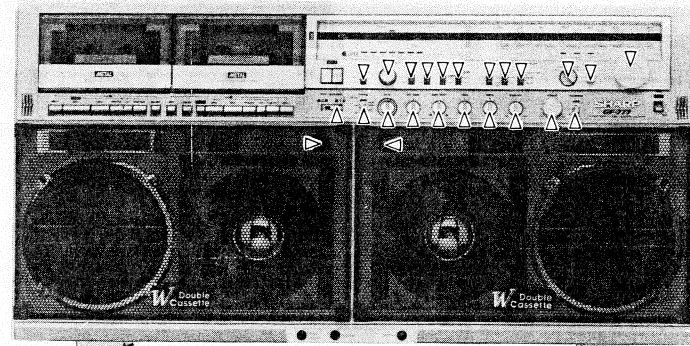


Figure 5-1

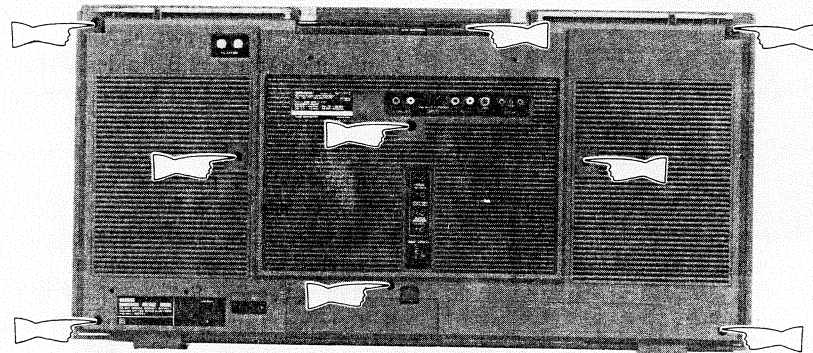


Figure 5-2

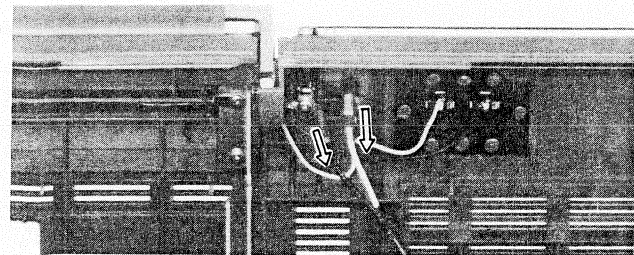


Figure 5-3

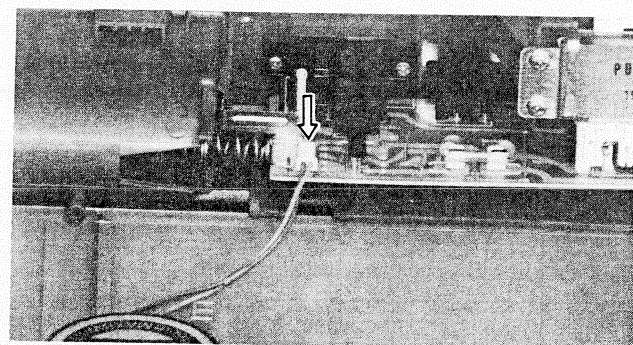


Figure 5-4

### ■ Removal of Main Frame

1. Remove five sockets at the power amplifier P.W.B. See Fig. 6-1.
2. Remove three screws at the main frame, two screws at the power switch holder, one screw at the power amplifier P.W.B., three screws at the headphone/microphone P.W.B. and one socket at the echo P.W.B. Then hold the main frame up to remove. See Fig. 6-2.

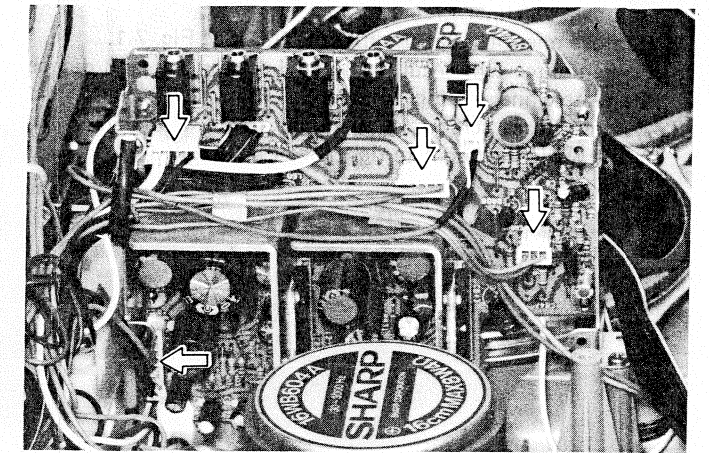


Figure 6-1

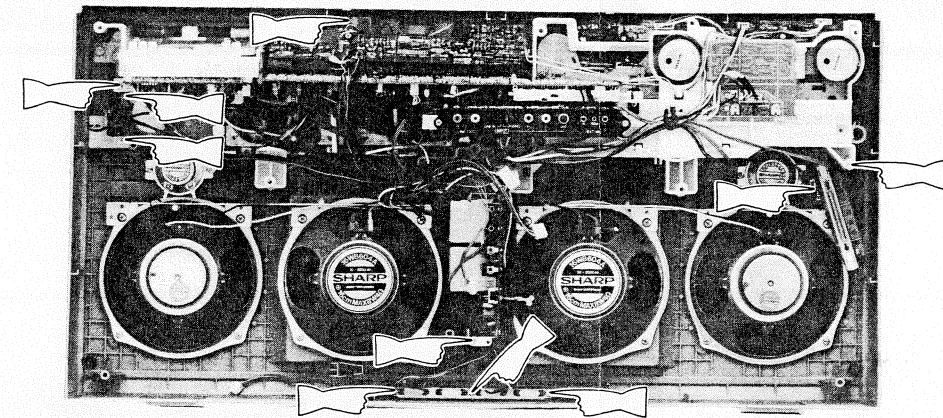


Figure 6-2

### ■ Removal of Mechanism Block

1. Remove three sockets at the mechanism P.W.B., two sockets at the record/playback P.W.B. and one socket at the bias current P.W.B. See Figs. 6-3 and 6-4.
2. Detach the tape counter drive belt from the tape take-up reel disk. Remove four screws at the mechanism block, and shift the mechanism block forwards and detach. See Fig. 6-5.

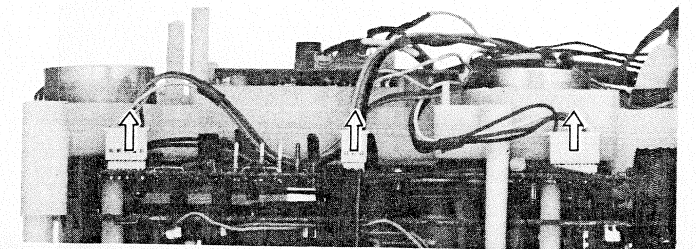


Figure 6-3

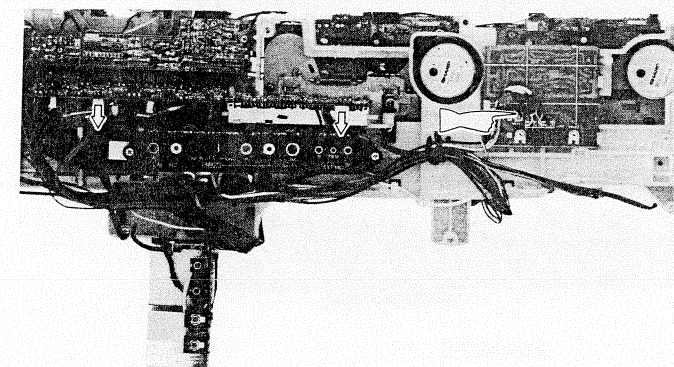


Figure 6-4

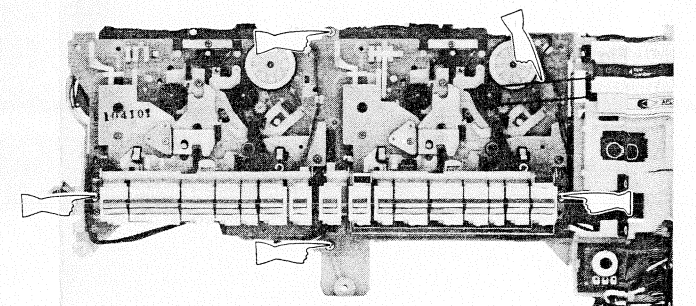


Figure 6-5



■ **Removal of Tuner Frame**

1. Remove one socket at the tuner P.W.B. See Fig. 7-1.
2. Loosen three tabs securing the dial scale plate, and detach the plate while shifting it down. See Fig. 7-2.
3. Remove three screws at the tuner frame, and detach the frame while shifting it to right. See Fig. 7-3.

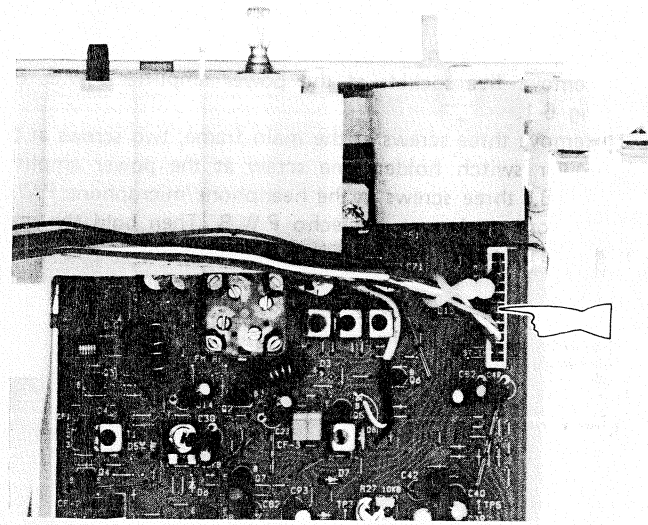


Figure 7-1

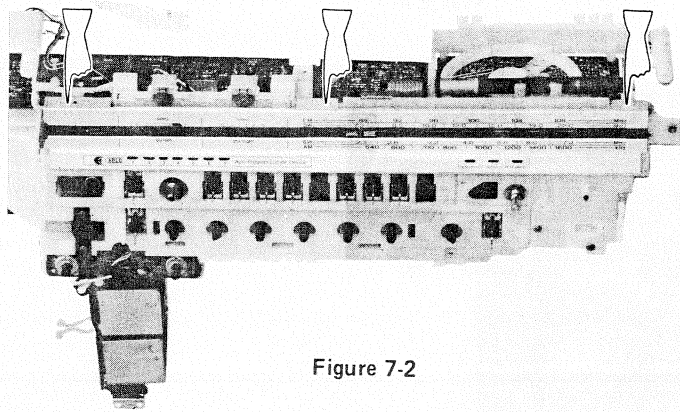


Figure 7-2

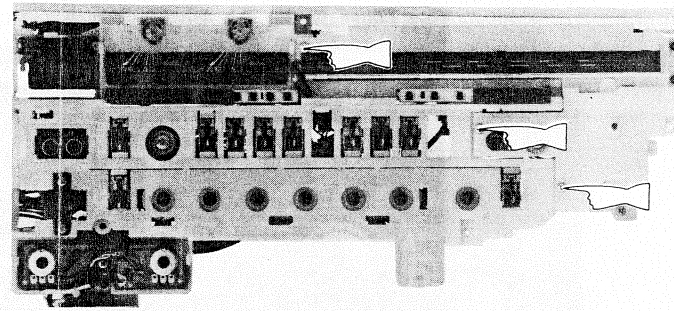


Figure 7-3

■ **Removal of Power Amplifier P.W.B.**

1. Remove one screw and two tabs at the super woofer sound control P.W.B., and one screw at the power amplifier P.W.B. Then hold up the power amplifier P.W.B. to remove. See Fig. 7-4.

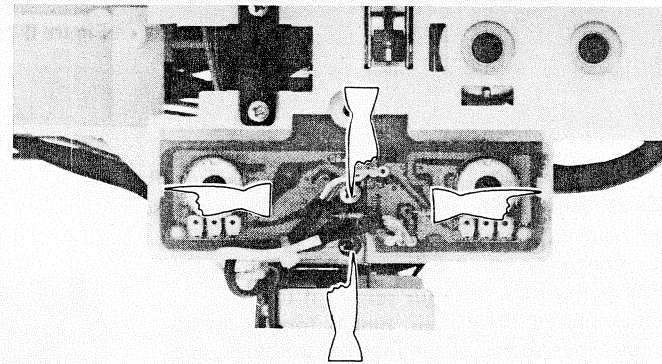


Figure 7-4

■ **Removal of Power P.W.B.**

1. Remove four screws at the power transformer and two screws at the AC socket. Then detach the power P.W.B. See Fig. 7-5.

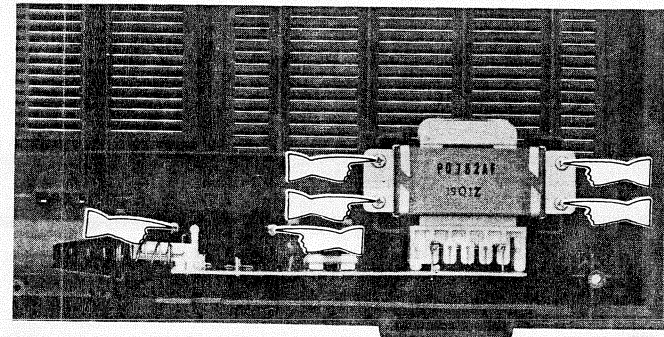


Figure 7-5

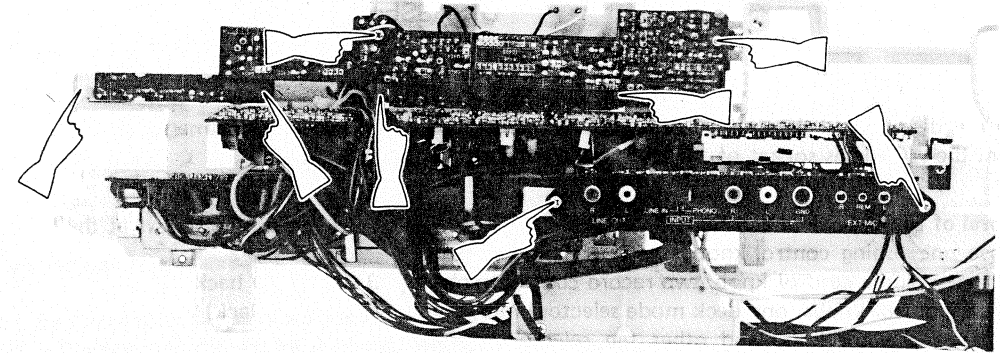


Figure 8-1

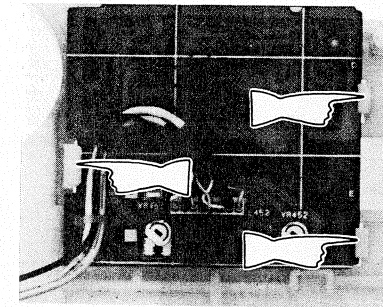


Figure 8-2

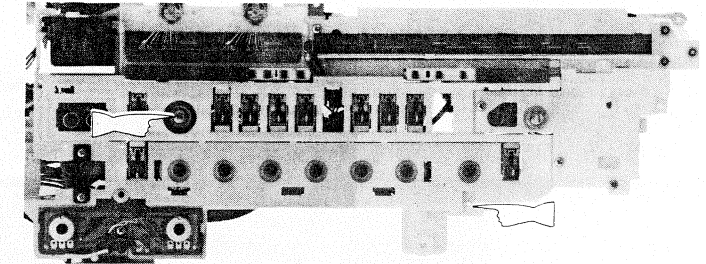


Figure 8-3

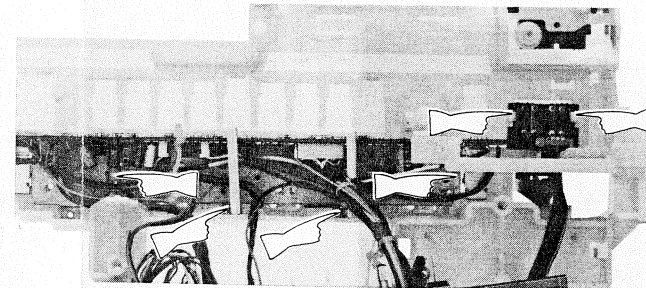
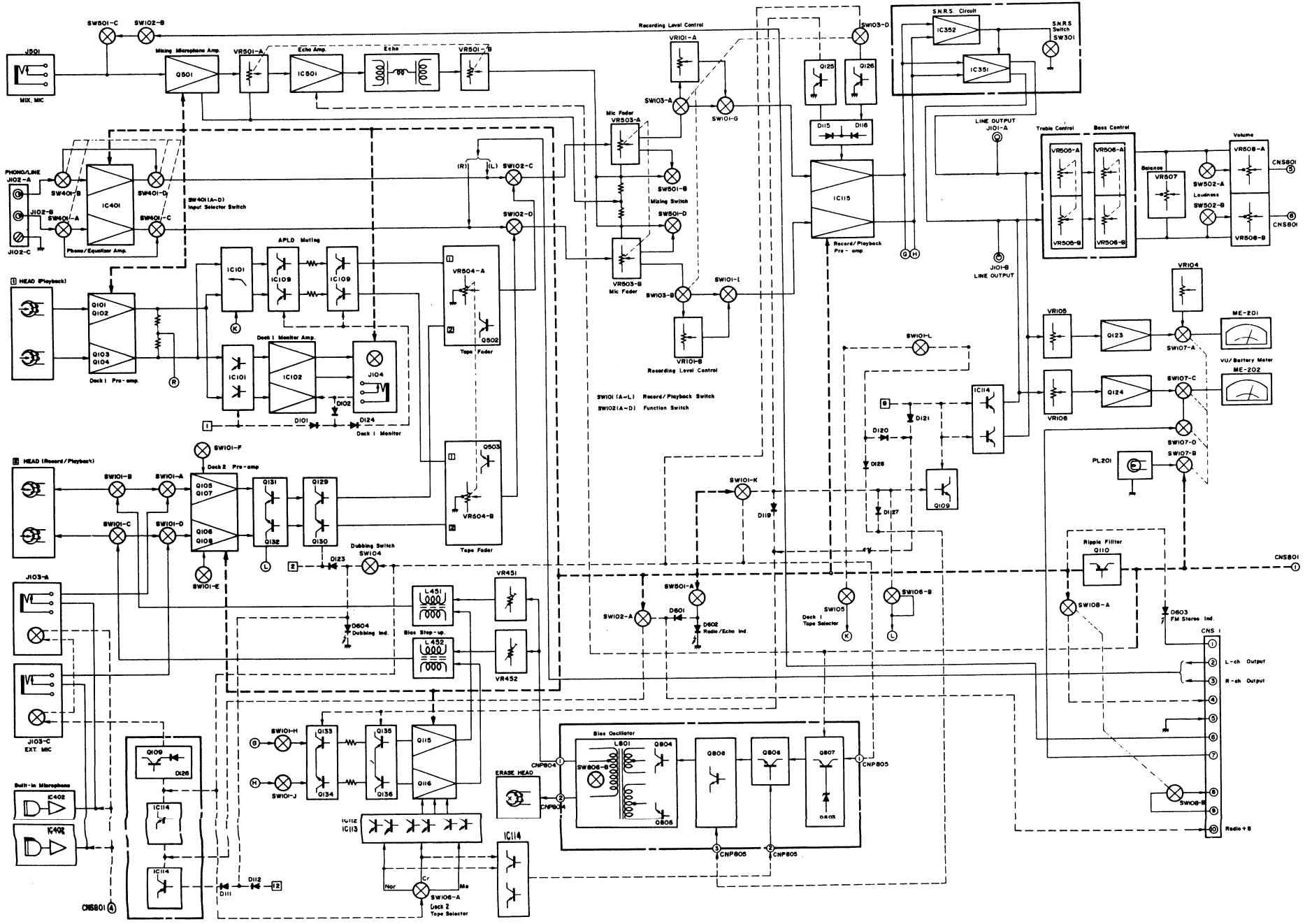


Figure 8-4

■ **Removal of Record/Playback P.W.B.**

1. Remove two screws at the APLD P.W.B. and four tabs at the indicator P.W.B. holder. See Fig. 8-1.
2. Remove three tabs at the bias current P.W.B. See Fig. 8-2.
3. Remove two screws at the input/output terminal board. See Fig. 8-1.
4. Remove one nut and one screw at the record/playback P.W.B. See Fig. 8-3.
5. Withdraw the record/playback P.W.B., and remove two screws and two tabs at the angle supporting the volume P.W.B. See Fig. 8-4.
6. Remove two tabs at the APLD switch P.W.B. Thus it is possible to detach the record/playback P.W.B. and volume P.W.B. from the main frame. See Fig. 8-4.

Figure 9 BLOCK DIAGRAM



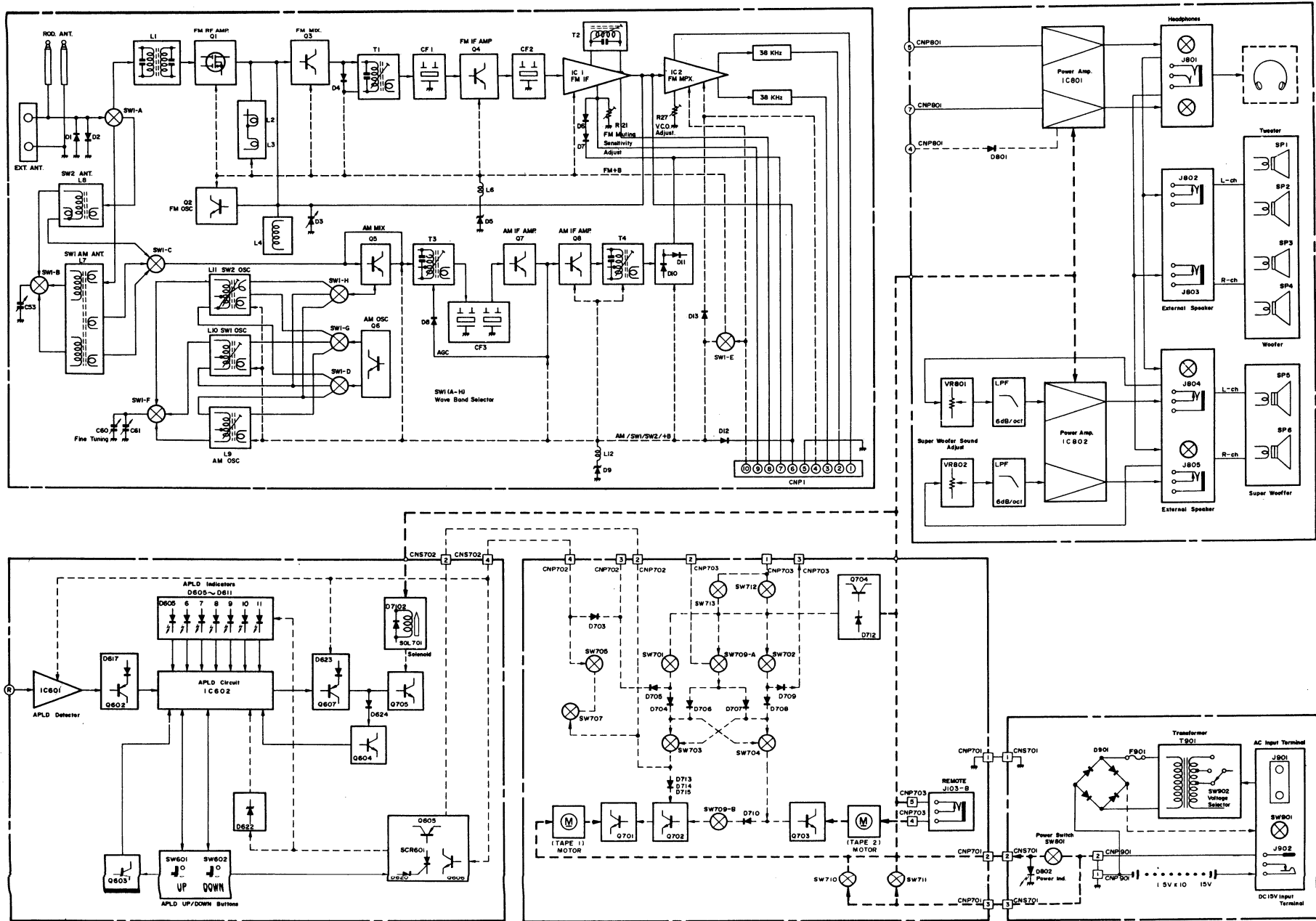


Figure 10 BLOCK DIAGRAM



## MECHANICAL ADJUSTMENT

### Pinch Roller Pressure Check

- 1) Set the unit in play mode.
- 2) Push a tension gauge (0 to 500 g) into the pinch roller lever to make the pinch roller off the capstan, and release the gauge applied force gently so that the pinch roller sets back to the capstan (the pinch roller again rotates).

At the time, the tension gauge reading must be 300 to 380 g.

- 3) If the step 2) is unsatisfied, bend the pinch roller pressure spring properly, or renew it.

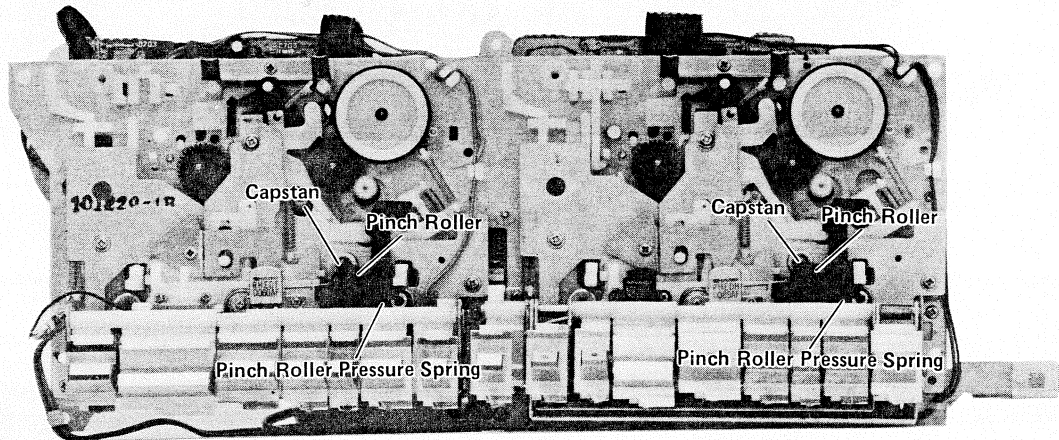
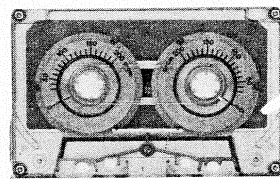


Figure 11-1

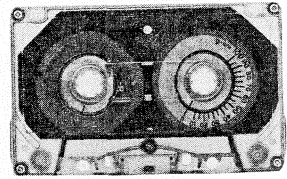
### ■ TORQUE CHECK AT PLAY, FAST FORWARD AND REWIND MODES

Put a torque meter cassette in the cassette compartment of the set, and see that the measured torque in each mode is normal as follows:

Mode	Torque meter cassette	Measured torque
Playback	TW-2111	35 ~ 60 gram-cm
Fast-forward	TW-2231	90 ~ 135 gram-cm
Rewind	TW-2231	90 ~ 135 gram-cm



TW-2231



TW-2111

Figure 11-2

### ■ GAP CHECK OF PINCH ROLLER LEVER

Place the set in play mode, and see that the pinch roller lever moves to create the gaps (A), (B) and (C) as shown in Fig. 11-3.

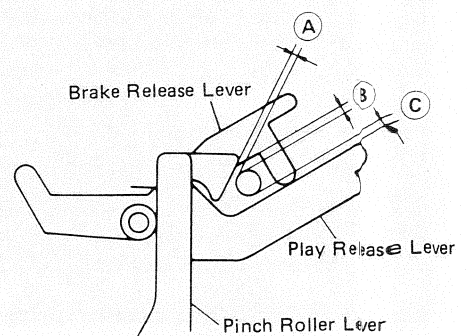


Figure 11-3

### Tape Speed Adjustment

- 1) Reproduce a test tape (TEAC, MTT-111, 3 kHz-prerecorded) — the playback must be at the middle of the tape but not at either the beginning or the end.
- 2) Connect a wow/flutter meter, across a 100K ohm resistor, to the line output socket.
- 3) Adjust the semi-variable resistor, using a plastic screwdriver via the hole at the motor unit bottom, so that the playback frequency will be 2,985 to 3,015 Hz (Deck 1) and 2,970 to 3,000 Hz (Deck 2).

### Note:

The motor pulley, flywheel drive belt, flywheel, take-up pulley, take-up idler and take-up turntable, etc. must be free of any contamination.

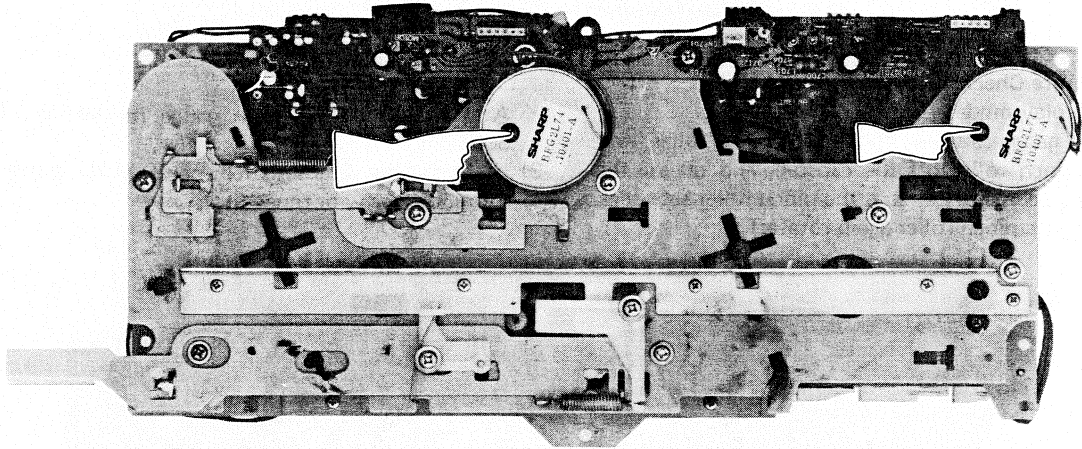


Figure 12-1

ELECTRICAL ADJUSTMENT

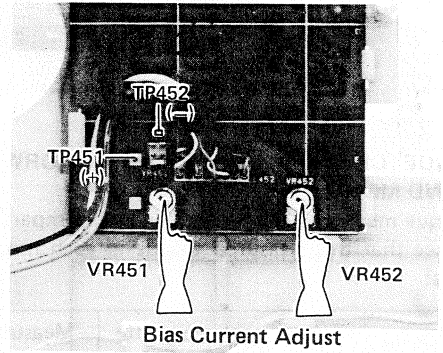


Figure 12-3

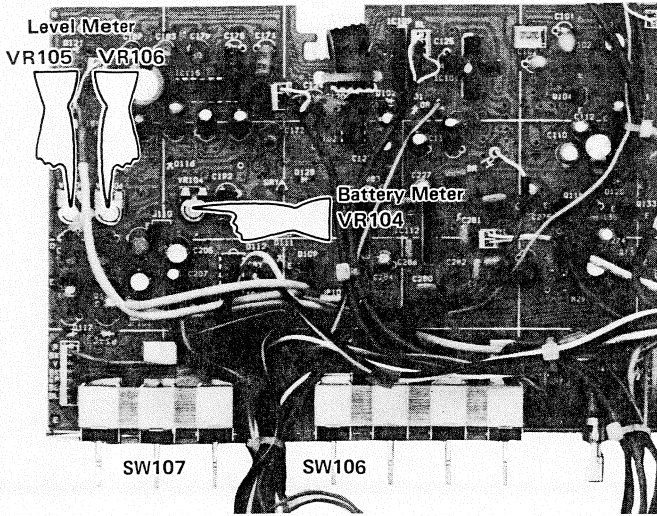


Figure 12-2

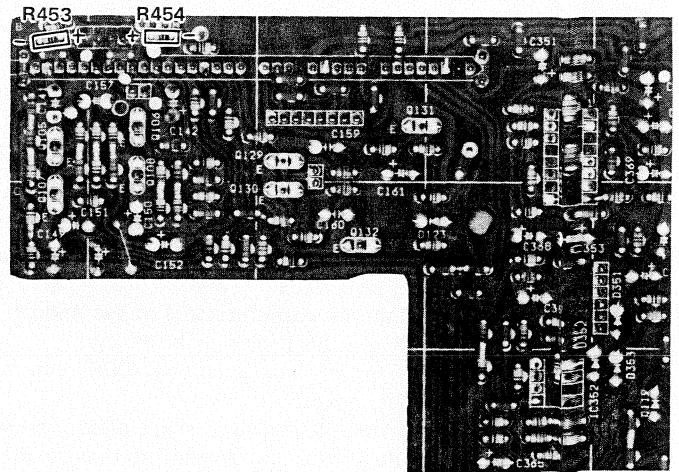


Figure 12-4



### Record Amplifier Bias Current/Bias Oscillator Frequency Adjustment

- 1) Connect a VTVM to both ends of the resistor (R453 or R454) on the record/playback amp. printed wiring board.
- 2) Set the function selector switch to "tape", the deck-2 tape selector switch to "Normal" and the beat interference canceller switch to "A" position.
- 3) Connect an oscilloscope (the vertical input) to the output of VTVM, and an audio generator to the oscilloscope (the horizontal input).
- 4) Place the unit in record mode, and check that the bias oscillator frequency, on the oscilloscope Lissajou's figure, is 76 to 84 kHz. Next by setting the beat interference canceller switch to "B" and "C" positions, the range of that frequency must be within  $-1.5 \pm 1.0$  kHz and  $-6 \pm 1.5$  kHz in respective positions.
- 5) Adjust the bias current adjust semi-variable resistor (VR451 or VR452) so that the VTVM reads 4.4 mV.

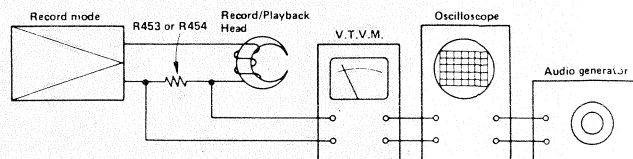


Figure 13-1

### Erase Current Check

- 1) Connect the VTVM between the test point TP451 and TP452.
- 2) Set the function selector switch to "tape", the deck-2 tape selector switch to "Metal" positions.
- 3) Place the unit in record mode, and check the at the VTVM is reading 135 to 185 mV.

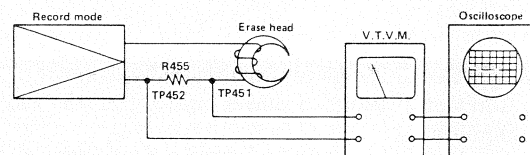


Figure 13-2

### Record/Playback Head Azimuth Adjustment

- 1) Connect a VTVM, across a 50K ohm resistor, to the line output socket.
- 2) Set the function selector switch to "tape" position.
- 3) Put a test tape (TEAC, MTT-114, 10 kHz, 250 pWb/mm, -10 dB prerecorded) into the unit, and play it.
- 4) Adjust the head azimuth adjusting screw so that sine waveform attains the maximum and the same phase in right and left.

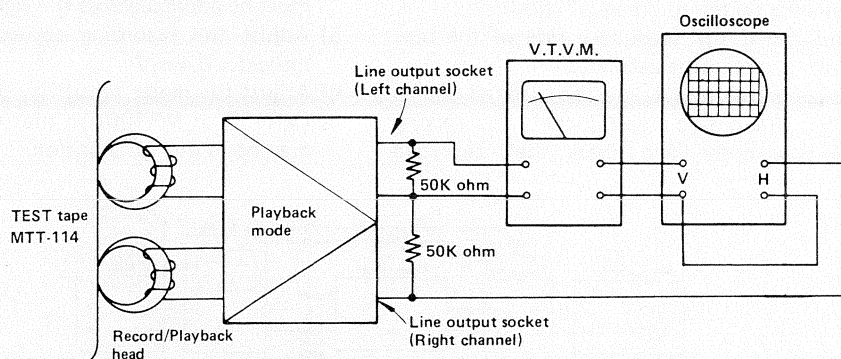
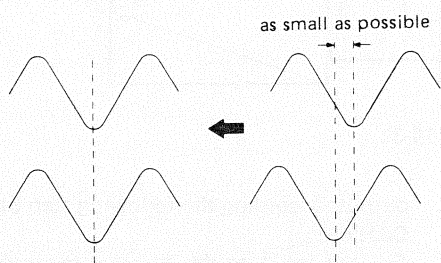


Figure 13-3

### Note:

For some heads, there may be a phase difference between right and left channels when the output is made maximum. In this case, adjust the head azimuth so that such phase difference will be as small as possible while keeping the output still maximum.

Tighten the screw in the proper direction by using the adjusting screw.

- 5) Even without using the oscilloscope, also adjust the head azimuth adjusting screw so that outputs of both the right and left channels attain the maximum and the same phase in right and left.

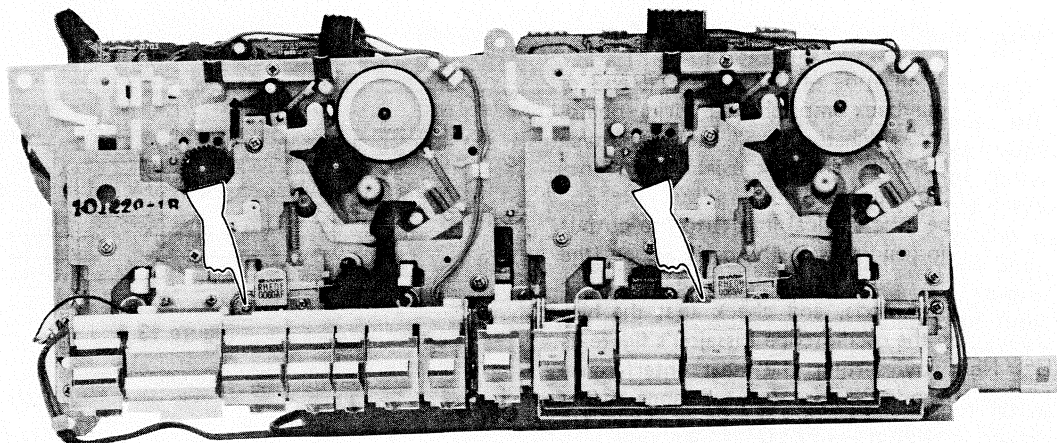


Figure 14-1

### Battery Condition Meter Sensitivity Adjustment

- 1) Connect a regulated power supply (DC 15V) to the battery terminal.
- 2) Set the function selector switch to "tape" position.
- 3) Place the unit in playback mode, and set the meter selector Dial Light switch to "tune/batt/on" position.
- 4) Reduce this supply voltage, slowly, until the voltage, when the pointer on the battery meter in the "0" position, must remain at 10.0 to 10.8V and the Meter illumination lamp must light, then.
- 5) If such voltage is lower than 9.9V, correct it by using the semi-variable resistor (VR104) on the printed wiring board.

#### Note:

This adjustment shall be after "VU Indicator Sensitivity Adjustment".

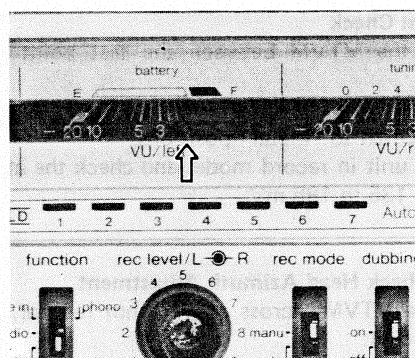


Figure 14-2

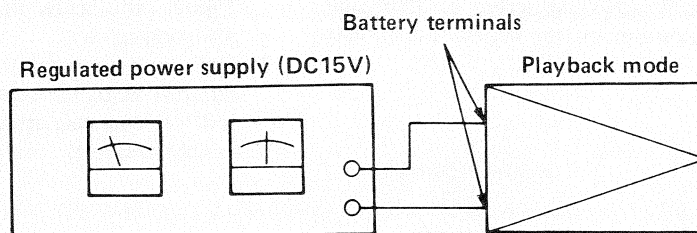


Figure 14-3

### VU Meter Sensitivity Adjustment

- 1) Connect a VTVM to both ends of the resistor (R453 or R454) on the record/playback amp. printed wiring board.
- 2) Set the function selector switch to "tape" and the recording mode selector switch to "manual" position.
- 3) Short pins ④ and ⑥ at the secondary side of the bias oscillation coil (L801) to stop the oscillation.
- 4) Connect an audio generator (1 kHz) to the external microphone input socket, line/phono input socket, and mixing microphone socket in order, and check their recorded

outputs according the following step 5) and 6).

#### Caution:

For the input to the external microphone input socket, it must be applied across the right and left channels.

- 5) Adjust the recording control knob so that the VTVM indicates 0.4 mV.
- 6) Adjust the meter sensitivity adjusting semi-variable resistor (VR105 or VR106) so that the pointer of the level meter may be in the "0" position.

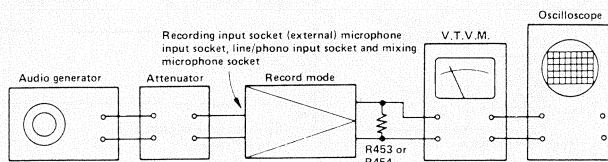


Figure 14-4

### Record Amplifier Sensitivity Check

- 1) Connect a VTVM to both ends of the resistor (R453 or R454) on the record/playback amp. printed wiring board.
- 2) Short pins ④ and ⑥ at the secondary side of the bias oscillation coil (L801) to stop the oscillation.
- 3) Set the function selector switch to "tape" and the deck-2 tape selector switch to "normal" position.
- 4) Place the unit in record mode, and check if the VTVM reading becomes 0.2mV with the respective inputs tabulated below – the input oscillation frequency is set to 1 kHz and 0 dB = 1 V is assumed.

#### Note:

For the input to the external microphone input socket, it must be applied across the right and left channels.

Sockets	Inputs
External microphone input	0.09mV ~ 0.178mV (-78 ±3dB)
Mixing microphone	0.9mV ~ 1.8mV (-58 ±3dB)
Line input	0.06V ~ 0.13V (-21 ±3dB)
Phono input	1.0mV ~ 2.0mV (-57 ±3dB)

### Playback Amplifier Sensitivity Check

- 1) Connect a VTVM, across a 4 ohm resistor, to the external speaker socket.
- 2) Set the function selector switch to "tape", the treble/bass tone control knob to "center" and the volume control knob to "10/max." position.
- 3) Reproduce a test tape (TEAC, MTT-118, 1 kHz, -10dB of 250 pWb/mm, prerecorded).
- 4) At the time, the VTVM must read approx. 2.0V.
- 5) Then connect the VTVM to the line output socket and the deck-1 monitor output socket in order, then the VTVM reading must be approx. 200mV for the former, and approx. 10mV for the latter.

#### Note:

For measuring the output from the deck-1 monitor output socket, the test tape be played through the use of the deck-1.

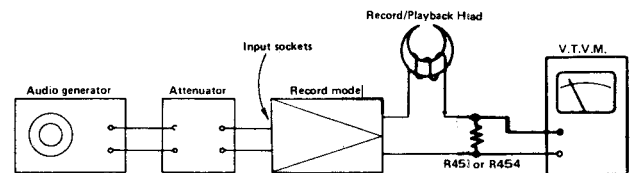


Figure 15-1

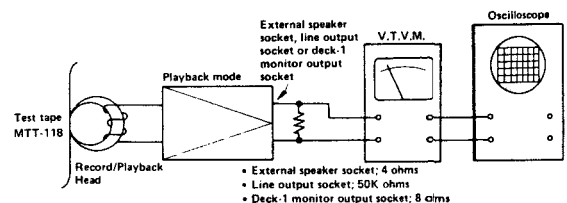


Figure 15-2

### Record/Playback Sensitivity Check

- 1) Connect a VTVM, across a 4 ohm resistor, to the external main speaker socket.
- 2) Set the function selector switch to "tape", the deck-2 tape selector switch to "normal", the treble/bass tone control knob to "center", the volume control knob to "10/max.", the recording level control knob to "max." and the recording mode selector switch to "manual", position.
- 3) Connect an audio generator to the external microphone input sockets of both channels, and apply a 1 kHz signal of output level -78 dB (0.126 mV, 0 dB = 1 V) to these sockets at a time.
- 4) Record this signal on a normal tape (TEAC, MTT-502).
- 5) Reproduce this recorded tape, then the VTVM must read approx. 1.5 V.

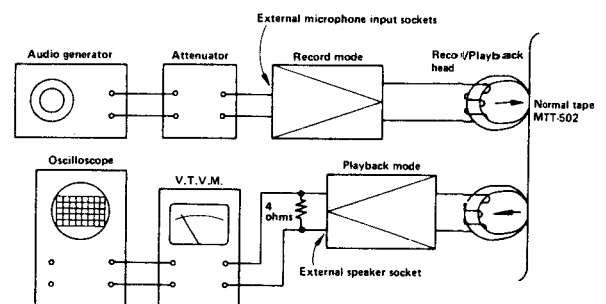


Figure 15-3

## GENERAL ALIGNMENT INSTRUCTION

Should it become necessary at any time to check the alignment of this receiver, proceed as follows:

1. Set the volume control (VR508) to maximum.
2. Attenuate the signals from the generator enough to swing the most sensitive range of the output meter.
3. Use a non-metallic alignment tool.
4. Repeat adjustments to insure good results.
5. Set the function selector switch (SW'02) to "radio" position.
6. Set the fine tuning control (C60) to mechanical center position.

## AM IF/RF ALIGNMENT

(Refer to Figure 17-9)

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		RECEIVER		ADJUSTMENT
			CONNECTION TO RECEIVER	INPUT SIGNAL FREQUENCY	DIAL SETTING	REMARKS	
1	AM	IF	Refer to Figure 17-1.	Exactly 455kHz. (Unmodulated)	High end of dial. (minimum capacity)	Adjust for best "IF" curve	Adjust the AM IF transformers. (T3), (T4)
2	AM	Band Coverage	Refer to Figure 17-2.	Exactly 510kHz. (400Hz, 30%, AM modulated)	Low end of dial. (maximum capacity)	Adjust for maximum output.	Adjust the AM oscillation coil (L9).
3	AM		Same as step 2.	Exactly 1650kHz. (400Hz, 30%, AM modulated)	High end of dial. (minimum capacity)	Same as step 2.	Adjust the AM oscillation trimmer (C71).
4	AM	Tracking	Same as step 2.	Exactly 600kHz. (400Hz, 30%, AM modulated)	600kHz.	Same as step 2.	Adjust the AM bar antenna coil (L7). See <a href="#">[Note A]</a> .
5	AM		Same as step 2.	Exactly 1400kHz. (400Hz, 30%, AM modulated)	1400kHz.	Same as step 2.	Adjust the AM antenna trimmer (C58).
6	AM	Repeat step 2, 3, 4 and 5 until no further improvement can be made.					
7	SW <sub>1</sub>	Band Coverage	Refer to Figure 17-3.	Exactly 2.25MHz. (400Hz, 30%, AM modulated)	Low end of dial. (maximum capacity)	Same as step 2.	Adjust the SW <sub>1</sub> oscillation coil (L10).
8	SW <sub>1</sub>		Same as step 7.	Exactly 7.4MHz. (400Hz, 30%, AM modulated)	High end of dial. (minimum capacity)	Same as step 2.	Adjust the SW <sub>1</sub> oscillation trimmer (C69).
9	SW <sub>1</sub>	Tracking	Same as step 7.	Exactly 2.6MHz. (400Hz, 30%, AM modulated)	2.6MHz.	Same as step 2.	Adjust the SW <sub>1</sub> bar antenna coil (L7). See <a href="#">[Note A]</a> .
10	SW <sub>1</sub>		Same as step 7.	Exactly 6.0MHz. (400Hz, 30%, AM modulated)	6.0MHz.	Same as step 2.	Adjust the SW <sub>1</sub> antenna trimmer (C56).
11	SW <sub>1</sub>	Repeat steps 7, 8, 9 and 10 until no further improvement can be made.					
12	SW <sub>2</sub>	Band Coverage	Same as step 7.	Exactly 7.2MHz. (400Hz, 30%, AM modulated)	Low end of dial. (maximum capacity)	Same as step 2.	Adjust the SW <sub>2</sub> oscillation coil (L11).
13	SW <sub>2</sub>		Same as step 7.	Exactly 22.5MHz. (400Hz, 30%, AM modulated)	High end of dial. (minimum capacity)	Same as step 2.	Adjust the SW <sub>2</sub> oscillation trimmer (C67).
14	SW <sub>2</sub>	Tracking	Same as step 7.	Exactly 8.5MHz. (400Hz, 30%, AM modulated)	8.5MHz.	Same as step 2.	Adjust the SW <sub>2</sub> antenna coil (L8).
15	SW <sub>2</sub>		Same as step 7.	Exactly 19MHz. (400Hz, 30%, AM modulated)	19MHz.	Same as step 2.	Adjust the SW <sub>2</sub> antenna trimmer (C54).
16	SW <sub>2</sub>	Repeat steps 12, 13, 14 and 15 until no further improvement can be made.					

**[Note A]** Check the alignment of the receiver antenna coil by bringing a piece of ferrite (such as a coil slug) near the antenna loop stick, then a piece of brass. If ferrite increases output, loop requires more inductance. If brass increases output, loop

requires less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or away to decrease inductance.

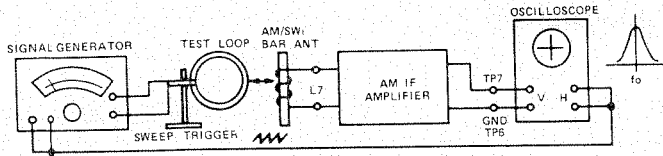


Figure 17-1

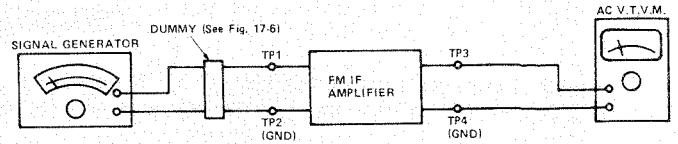


Figure 17-5

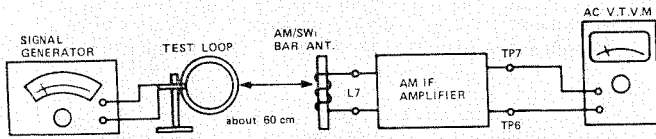


Figure 17-2

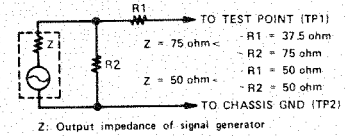


Figure 17-6 FM DUMMY

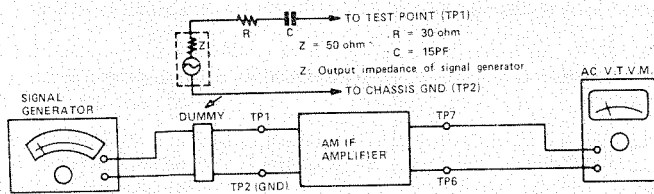


Figure 17-3

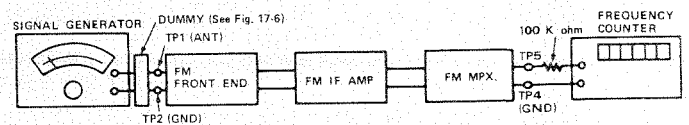


Figure 17-7

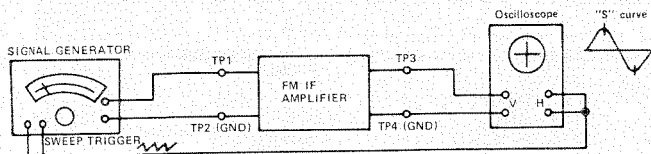


Figure 17-4

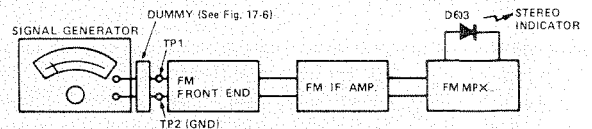


Figure 17-8

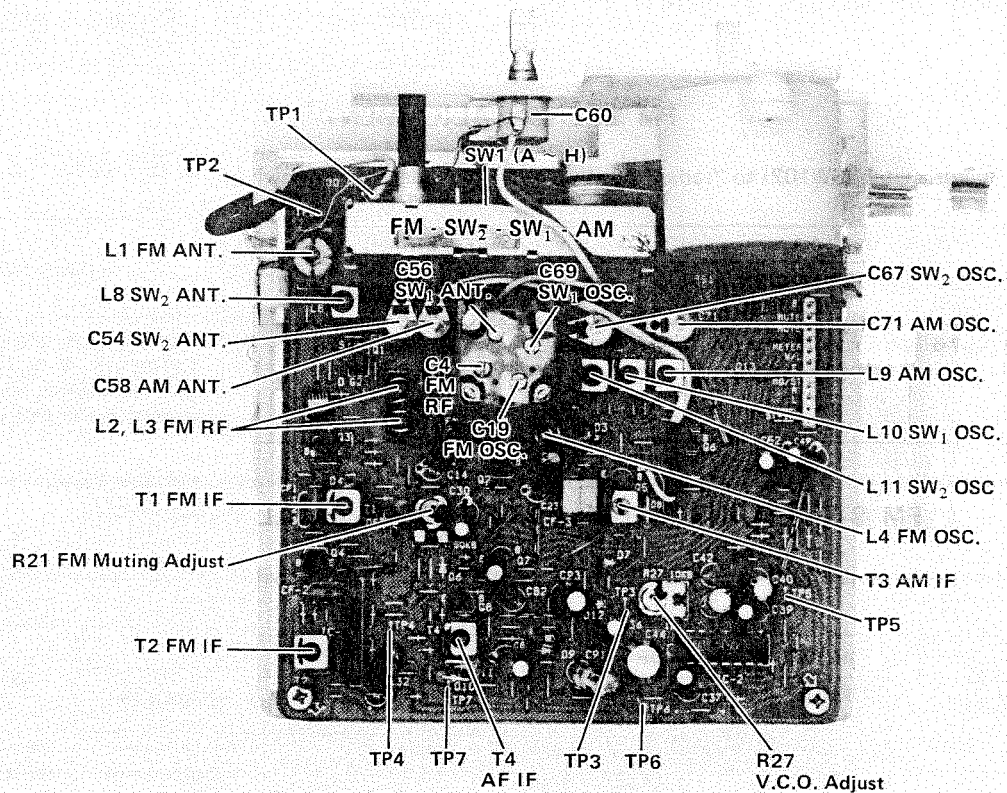


Figure 17-9

## FM IF/RF ALIGNMENT

- Set the wave-band selector switch (SW1) to "FM" position.
- Set the FM mode/FM mute switch (SW108) to "stereo" position.

(Refer to Figure 17-9)

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		RECEIVER		ADJUSTMENT
			CONNECTION TO RECEIVER	INPUT SIGNAL FREQUENCY	DIAL SETTING	REMARKS	
1	FM	IF See Note B	Refer to Figure 17-4.	Exactly 10.7MHz. (Unmodulated)	High end of dial. (minimum capacity)	Adjust for best "S" curve.	Adjust the FM IF transformers 1. (T1) 2. (T2)
2	FM	Band Coverage	Refer to Figure 17-5 and 17-6.	Exactly 87.1MHz. (400Hz, 30%, FM modulated)	Low end of dial. (maximum capacity)	Adjust for maximum output.	Adjust the FM oscillation coils (L4).
3			Same as step 2.	Exactly 109MHz. (400Hz, 30%, FM modulated)	High end of dial. (minimum capacity)	Same as step 2.	Adjust the FM oscillation trimmer (C19).
4	FM	Tracking	Same as step 2.	Exactly 88MHz. (400Hz, 30%, FM modulated)	88MHz.	Same as step 2.	Adjust the FM RF coils (L2, L3).
5			Same as step 2.	Exactly 108MHz. (400Hz, 30%, FM modulated)	108MHz.	Same as step 2.	Adjust the FM RF trimmer (C4).
6	FM	Repeat steps 2, 3, 4 and 5 until no further improvement can be made.					

### Note B

There are 5 kinds of ceramic filters (CF1, CF2) available with this unit and they are given color indication as tabulated below to differentiate the central frequency from one to another among them. When using them, be sure to make the two of the same type a pair.

When other ceramic filters than the one (red) having the central frequency of 10.7 MHz are used, note that a marker (10.7 MHz) of FM sweep generator, if used, will be deviated — therefore, adjust the generator by putting off the marker.

Central frequency (fo)	Color	Central frequency (fo)
		D Black: 10.64MHz ±30kHz
B Blue: 10.67MHz ±30kHz		
A Red: 10.70MHz ±30kHz		
C Orange: 10.73MHz ±30kHz		
E White: 10.76MHz ±30kHz		

Color Mark

1. Input  
2. GND  
3. Output

## FM STEREO ALIGNMENT

- Set the function selector switch (SW102) to "radio" position and FM mode/FM mute switch (SW108) to "stereo/mute" position.

STEP	SIGNAL GENERATOR		RECEIVER		ADJUSTMENT
	CONNECTION TO RECEIVER	INPUT SIGNAL FREQUENCY	DIAL SETTING	REMARKS	
1	Refer to Figures 17-6 and 17-7.	Exactly 98MHz (54dB) unmodulated.	98MHz.	Adjust for 19 ±0.1kHz.	Turn the FM muting sensitivity adjusting semivariable resistor (R21) fully counterclockwise. Adjust the semivariable resistor (R27)

## FM STEREO INDICATOR LIGHTING LEVEL ALIGNMENT

- Set the function selector switch (SW102) to "radio" position and FM mode/FM mute switch (SW108) to "stereo/mute" position.

STEP	BAND	FM STAGE	SIGNAL GENERATOR		RECEIVER		ADJUSTMENT
			CONNECTION TO RECEIVER	INPUT SIGNAL FREQUENCY	DIAL SETTING	REMARKS	
1	FM	Stereo	Refer to Figures 17-6 and 17-8.	Exactly 98MHz (20dB) (19kHz, 10%, FM modulated)	98MHz	Adjust for the indicator starts lighting.	Adjust the semivariable resistor (R21).



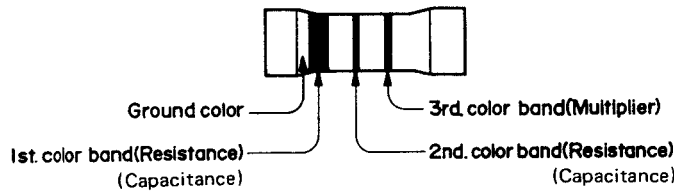
**EXPLANATORY NOTES OF CHIP RESISTORS, CHIP CAPACITORS AND CHIP JUMPERS.**

	Appearance	Dimensions
<ul style="list-style-type: none"> <li>• Tubular-shaped chip resistor</li> <li>• Tubular-shaped chip capacitor</li> <li>• Tubular-shaped chip jumper</li> </ul>		<p>L: <math>5.9 \pm 0.2</math>mm            C: <math>1.0 \pm 0.5</math>mm            D1: <math>2.2 \pm 0.1</math>mm            D2: 2.4mm(max)</p>

Table 19-1

**IDENTIFICATION OF TUBULAR-SHAPED CHIP RESISTORS, TUBULAR-SHAPED CHIP CAPACITORS AND TUBULAR-SHAPED CHIP JUMPERS.**

**Appearance of Tubular-Shaped Chip Resistor and/or Tubular-Shaped Chip Capacitor**



Color band	1st color band	2nd color band	3rd color band
Black	0	0	$10^0$
Brown	1	1	$10^1$
Red	2	2	$10^2$
Orange	3	3	$10^3$
Yellow	4	4	$10^4$
Green	5	5	$10^5$
Blue	6	6	—
Violet	7	7	—
Gray	8	8	—
White	9	9	—
Gold	—	—	$10^{-1}$

Table 19-2 Color Codes of Tubular-Shaped Chip Resistors and Tubular-Shaped Chip Capacitors

- **Identification of the tubular-shaped chip resistor**  
If the ground color is ivory, this means a tubular-shaped chip resistor.
- **Identification of the tubular-shaped chip capacitor**  
If the ground color is green, this means a tubular-shaped chip capacitor. It is pink for the semiconductor chip capacitor (VCTYMF...562K), however.
- **Identification of the tubular-shaped chip jumper**  
This jumper has no color band indication on it: no resistance is given for any jumper of this type.  
If the ground color is ivory, this means a tubular-shaped chip jumper.

Note:

The 1st color band is thicker than the 2nd and/or 3rd color band.

There is no indication about the resistance tolerance and the capacitance tolerance. But the tubular-shaped chip resistor is specified to have the tolerance J ( $\pm 5\%$ ).

**DIFFERENCES OF TUBULAR-SHAPED CHIPS AGAINST THE ORDINARY TYPES OF RESISTORS, CAPACITORS AND JUMPERS.**

**Tubular-shaped chip resistor**

Item	Ordinary resistor	Tubular-shaped chip
Parts No.	VRD-ST2EE...J	VRD-MF2EE...J
Appearance	<p>Lead Color code</p>	<p>Electrode Color code</p>
Attachment on PWB	<p>PWB Solder</p>	<p>PWB Adhesive Solder</p>
Symbol on wiring diagram	<p>R81</p>	<p>R81</p>

Table 19-3

**Tubular-shaped chip capacitor**

Item	Ordinary capacitor	Tubular-shaped chip
Parts No.	VCKYAT1HB...K	VCKYMF1HB...K
Appearance	<p>Lead Color code</p>	<p>Electrode Color code</p>
Attachment on PWB	<p>PWB Solder</p>	<p>PWB Adhesive Solder</p>
Symbol on wiring diagram	<p>C81</p>	<p>C81</p>

Table 19-4

### Tubular-shaped chip jumper

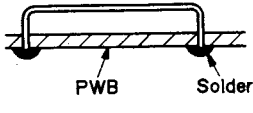
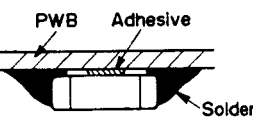
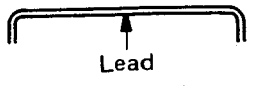
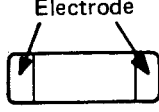

Item	Ordinary jumper	Tubular-shaped chip	Item	Ordinary resistor	Square-shaped chip
Parts No.	VWRASAS- . . . .	VRD-MF2EE000C	Attachment of PWB  Symbol on wiring diagram		
Appearance				non	

Table 20-1

### SERVICING OF LEADLESS TYPE RESISTORS AND CAPACITORS

Their servicing method is different from that for the ordinary type of resistors and capacitors.

#### Removal of the Tubular-Shaped Chip

Using a soldering iron, heat the solder at each terminal of the chip to get it absorbed into a braided wire applied thereon. See Fig. 20-1.

Holding the chip with a pincette, take it off gently using the soldering iron's heat applied on each terminal of it. See Fig. 20-2.

#### Precautions on removal:

- When handling the soldering iron, use a proper force and keep a careful manner.
- When removing the chip, do not use undue force with the pincette.
- The soldering iron in use should operate on AC mains; it is best if provided with a thermal control (240° or so).
- The chip once removed must not be used again.

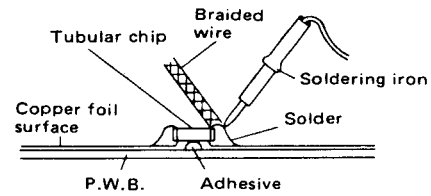


Figure 20-1

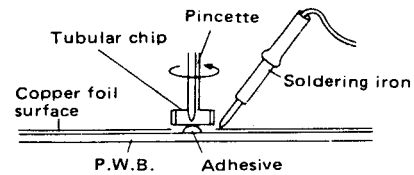


Figure 20-2

#### Attachment of Tubular-Shaped Chip

Temporarily solder one terminal of the chip on the copper foil surface. See Fig. 20-3.

Holding one end of the chip with a pincette, completely solder both terminals of it one after another. See Fig. 20-4.

#### Precautions on attachment:

- When soldering the chip terminals, do not touch them directly with the soldering iron. The soldering must be as quick as possible being careful not to hurt the terminals and the body itself.
- When touching the chip with a pincette, hold its terminal but never its body.
- Keep the chip's body in contact with the P.W.B. when soldering.
- The soldering iron in use should operate on AC mains; it is best if provided with a thermal control (240° or so).
- The soldering amount must be enough but not be outside the specified area.

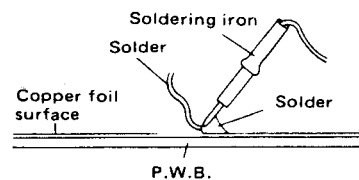


Figure 20-3

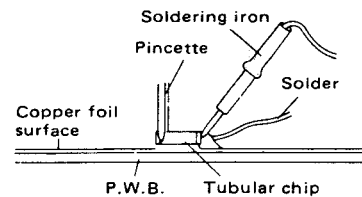


Figure 20-4

#### General Cautions on Handling and Storage

- Oxidization on the chip's terminals results in poor soldering. Do not handle them with bare hands.
- For storage, avoid the following places where oxidization will occur and their capacitance or resistance will be deteriorated.
  - 1) Sulfur or chlorine gas floating places
  - 2) Directly sunlit places
  - 3) High temperature/high humidity places

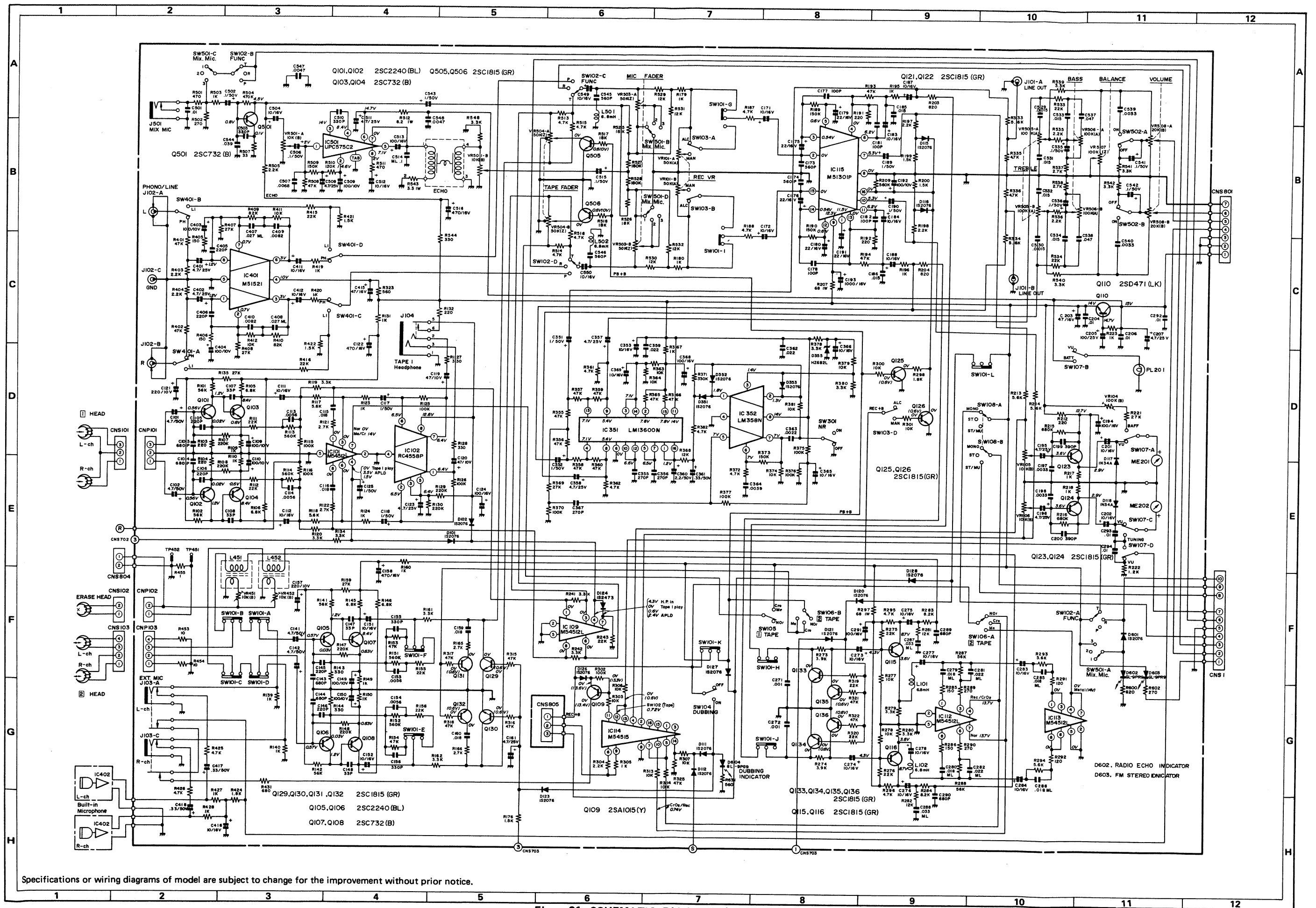


Figure 21 SCHEMATIC DIAGRAM (1/2)

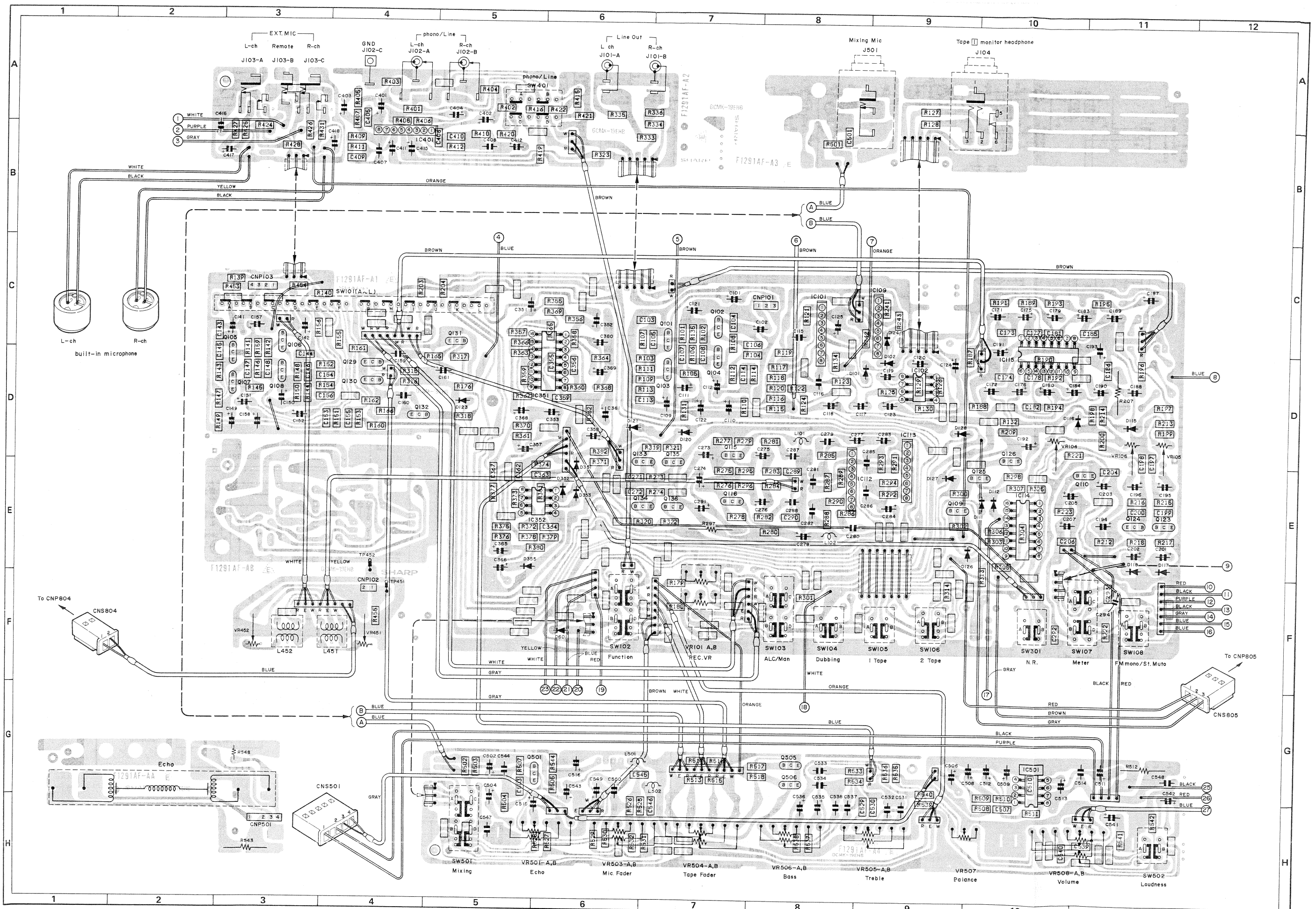


Figure 23 WIRING SIDE OF P.W. BOARD (1/6)



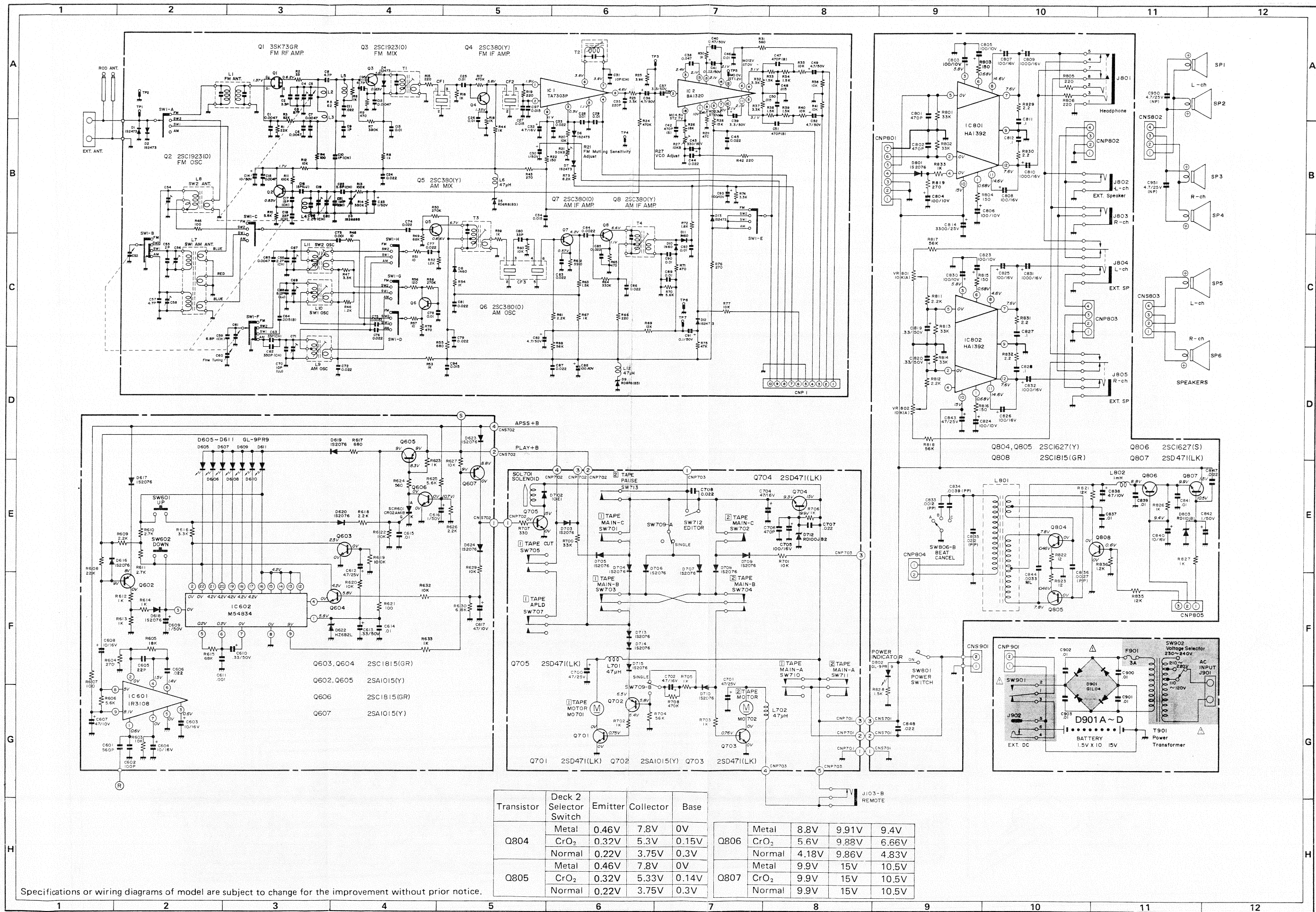


Figure 25 SCHEMATIC DIAGRAM (2/2)



Figure 27 WIRING SIDE OF P.W. BOARD (2/6)

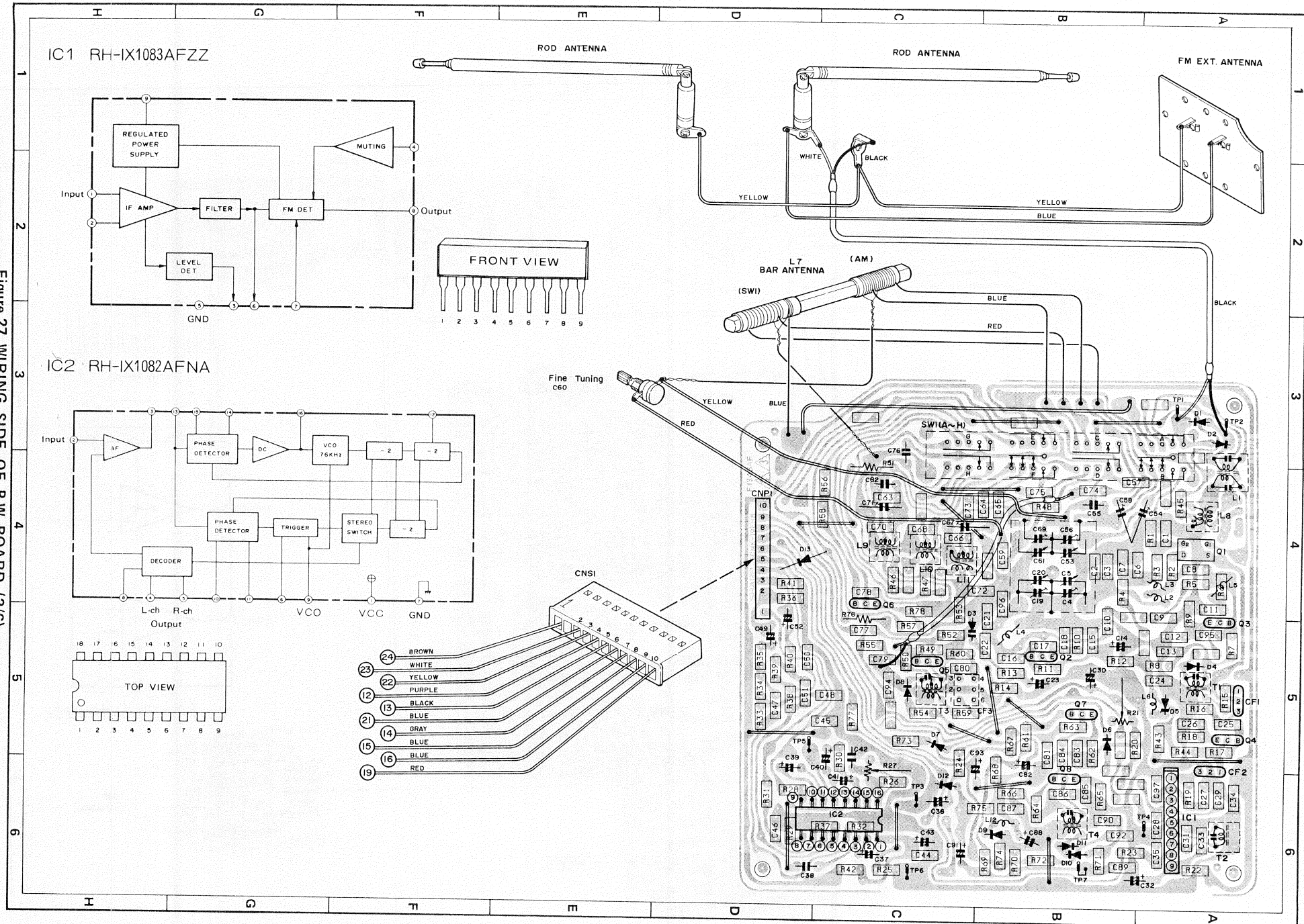


Figure 28 WIRING SIDE OF P.W. BOARD (3/6)

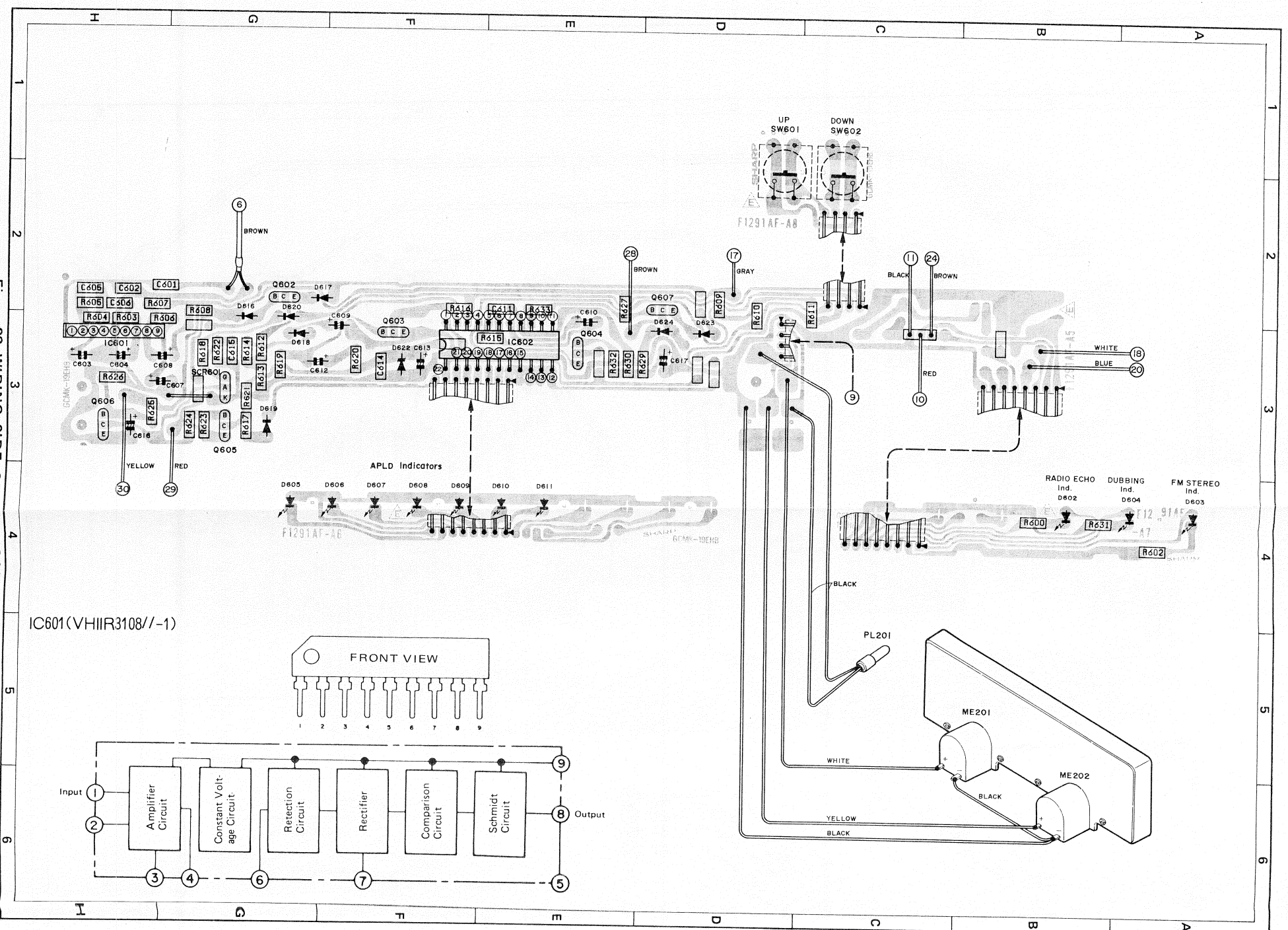




Figure 29 WIRING SIDE OF P.W. BOARD (4/6)

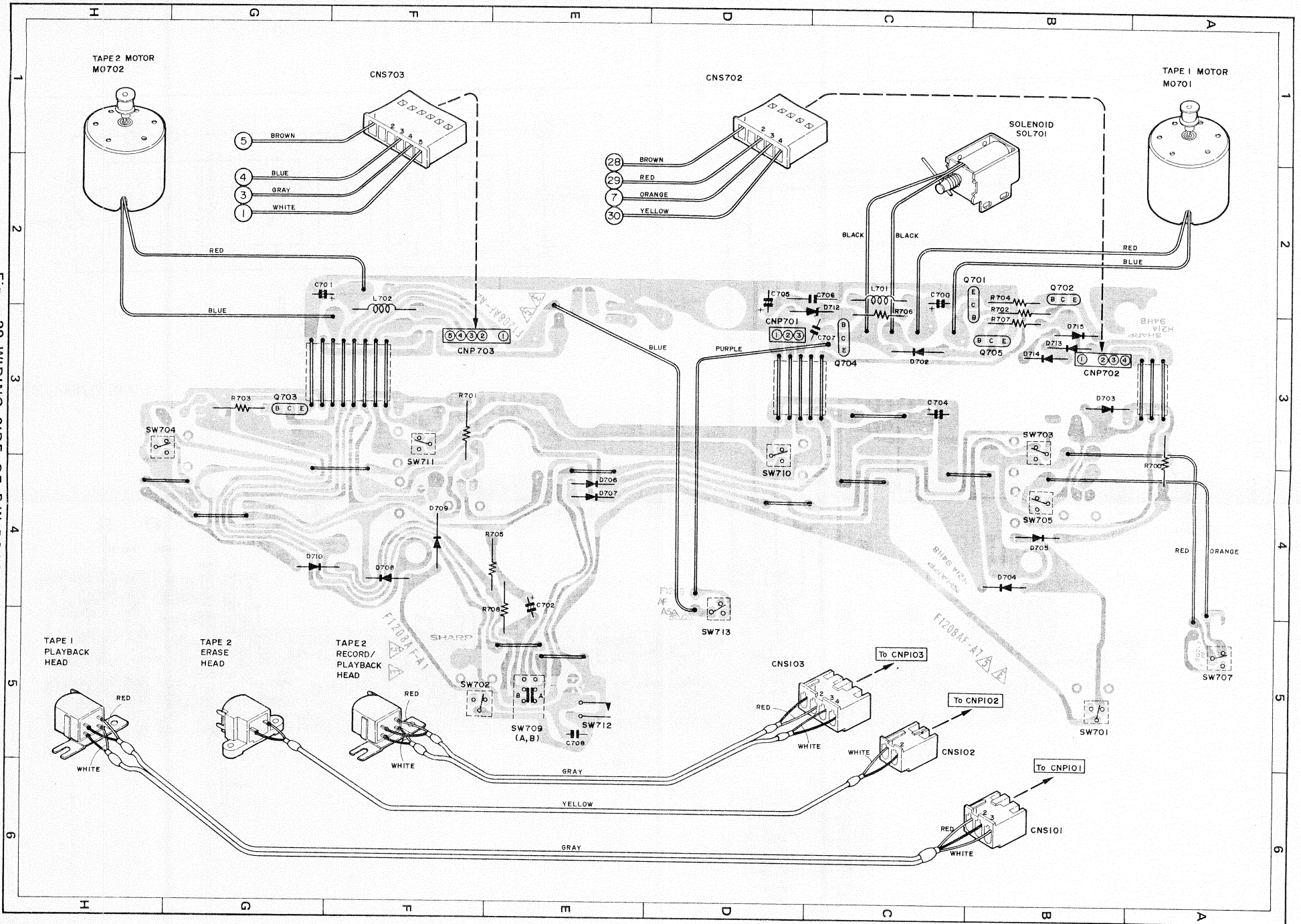
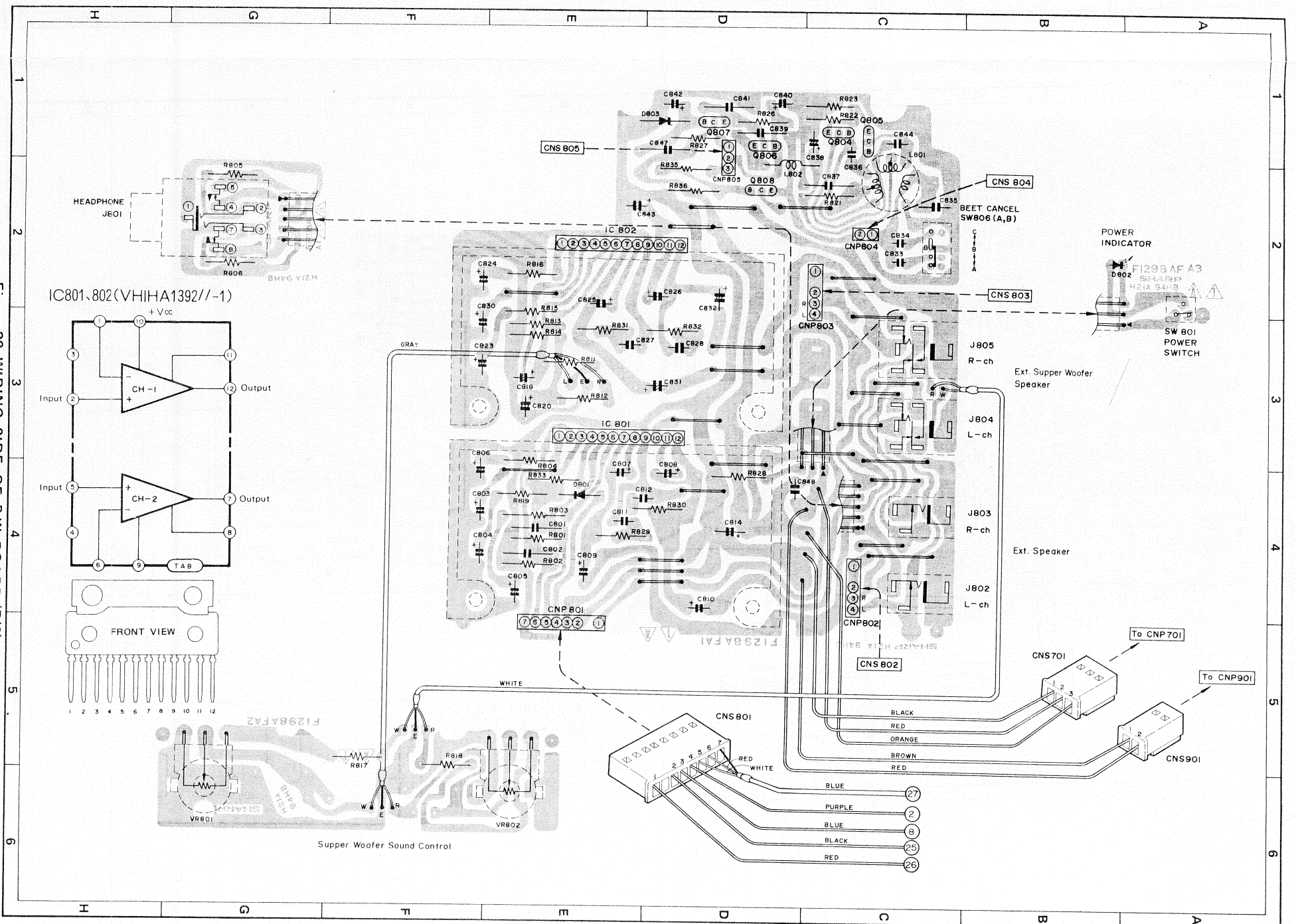


Figure 30 WIRING SIDE OF P.W. BOARD (5/6)



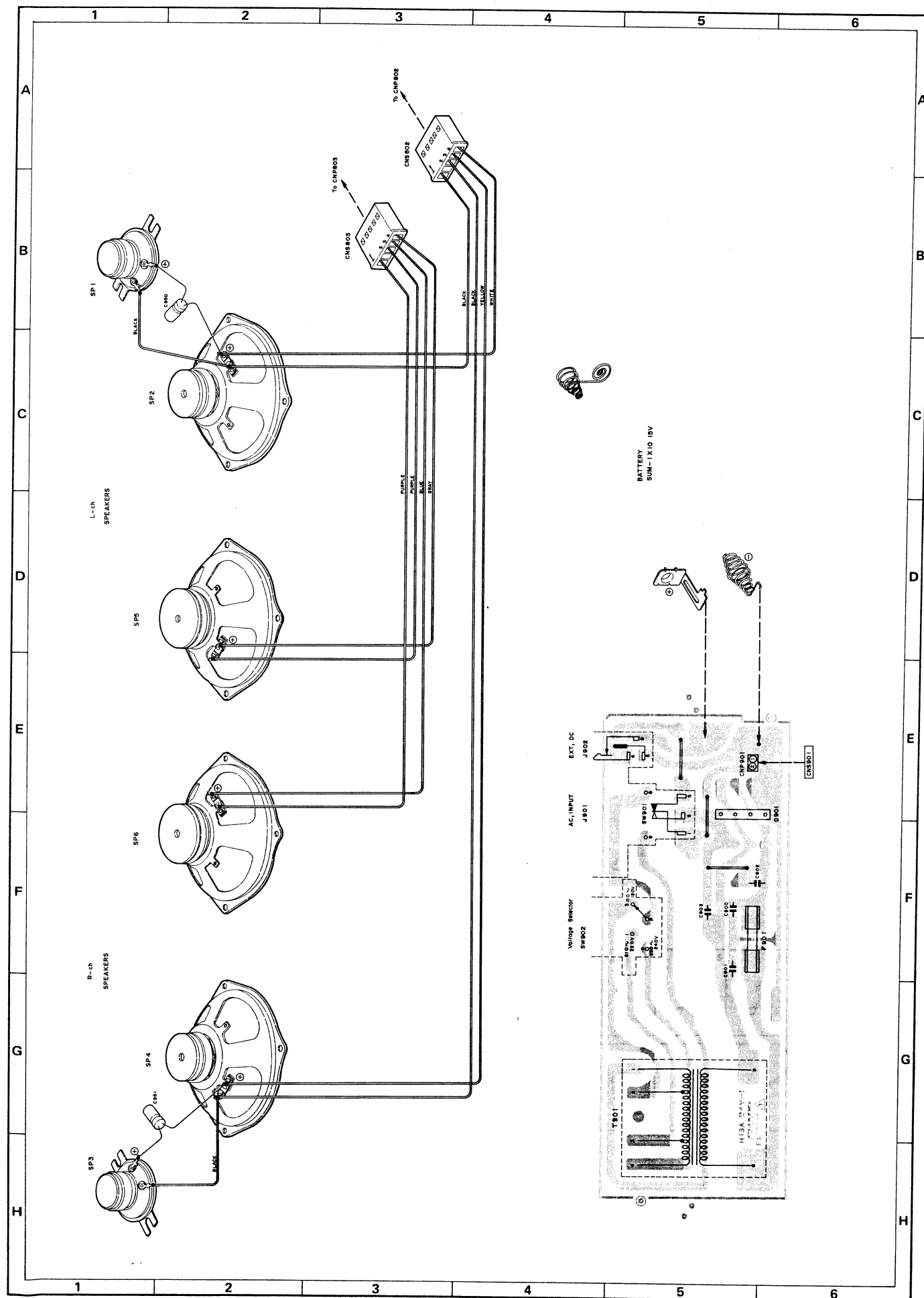


Figure 31 WIRING SIDE OF P.W. BOARD (6/6)

### NOTES ON SCHEMATIC DIAGRAM

Ref. No.	Names of Switch	Switch Position
SW1 (A, B)	Wave Band Selector Switch	FM-SW <sub>2</sub> -SW <sub>1</sub> -AM
SW101 (A ~ L)	Record/Playback Switch	Playback-Record
SW102 (A, B)	Function Switch	Tape-Radio-Line in/Phono
SW103 (A ~ D)	Recording Mode Switch	Manual-Auto
SW104 (A)	Dubbing Switch	on-off
SW105 (A, B)	Deck 1 Tape Selector Switch	Metal/CrO <sub>2</sub> -normal
SW106 (A, B)	Deck 2 Tape Selector Switch	Metal-CrO <sub>2</sub> -normal
SW107 (A ~ D)	Meter Selector/Dial Light Switch	VU/off-Tune/Batt/on
SW108 (A, B)	FM Mode/FM Muting Switch	Stereo/Mute-Stereo-Mono
SW301	SNRS Switch	on-off
SW401 (A, B)	Input Selector Switch	Line in-Phono
SW501 (A ~ D)	Mixing Switch	Radio/Echo/on-on/off-off/off
SW502 (A, B)	Loudness Switch	on-off
SW601	APLD UP Switch	on-off
SW602	APLD DOWN Switch	on-off
SW701	Deck 1 Main Switch (C)	on-off
SW702	Deck 2 Main Switch (C)	on-off
SW703	Deck 1 Main Switch (B)	on-off
SW704	Deck 2 Main Switch (B)	on-off
SW705	Deck 1 APLD Switch	on-off
SW707	Deck 1 APLD Cut Switch	on-off
SW709 (A, B)	Deck Mode Selector Switch	1 $\rightarrow$ 2-1 or 2
SW710	Deck 1 Main Switch (A)	on-off
SW711	Deck 2 Main Switch (A)	on-off
SW712	Editing Switch	on-off
SW713	Pause Switch	on-off
SW801	Power Switch	on-off
SW806 (A, B)	Beat Interference Cancelling Switch	A-B-C
SW901	AC/DC Selector Switch	AC-DC
SW902	AC Supply Voltage Selector Switch	110 ~ 120-210 ~ 220-230 ~ 240V

- Parts marked with "Δ" ( ) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.
- To differentiate the units of resistors, such symbols as K and M are used: the symbol K means 1000 ohms and the symbol M means 1 Meg. ohm (1/4 W).
- Capacitor  
Unless otherwise specified, any capacitance is expressed in microfarad. P = picofarad  
The types of capacitors are seen from the symbols ML (mylar capacitor). Styrol (polystyrene film capacitor) and CH (temperature compensating ceramic capacitor).

- As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
- For voltages at each point of the tuner, they are indicated in parentheses for AM and the values without parentheses are for FM. In any case, the voltage is measured with no signal given, by using VTVM.
- Attention should be drawn to voltage and the relevant conditions below.  
Audio voltage — in play mode and under no signal condition. Parenthesized parts voltage — under record condition. PHONO circuit voltage — in PHONO mode ON position.





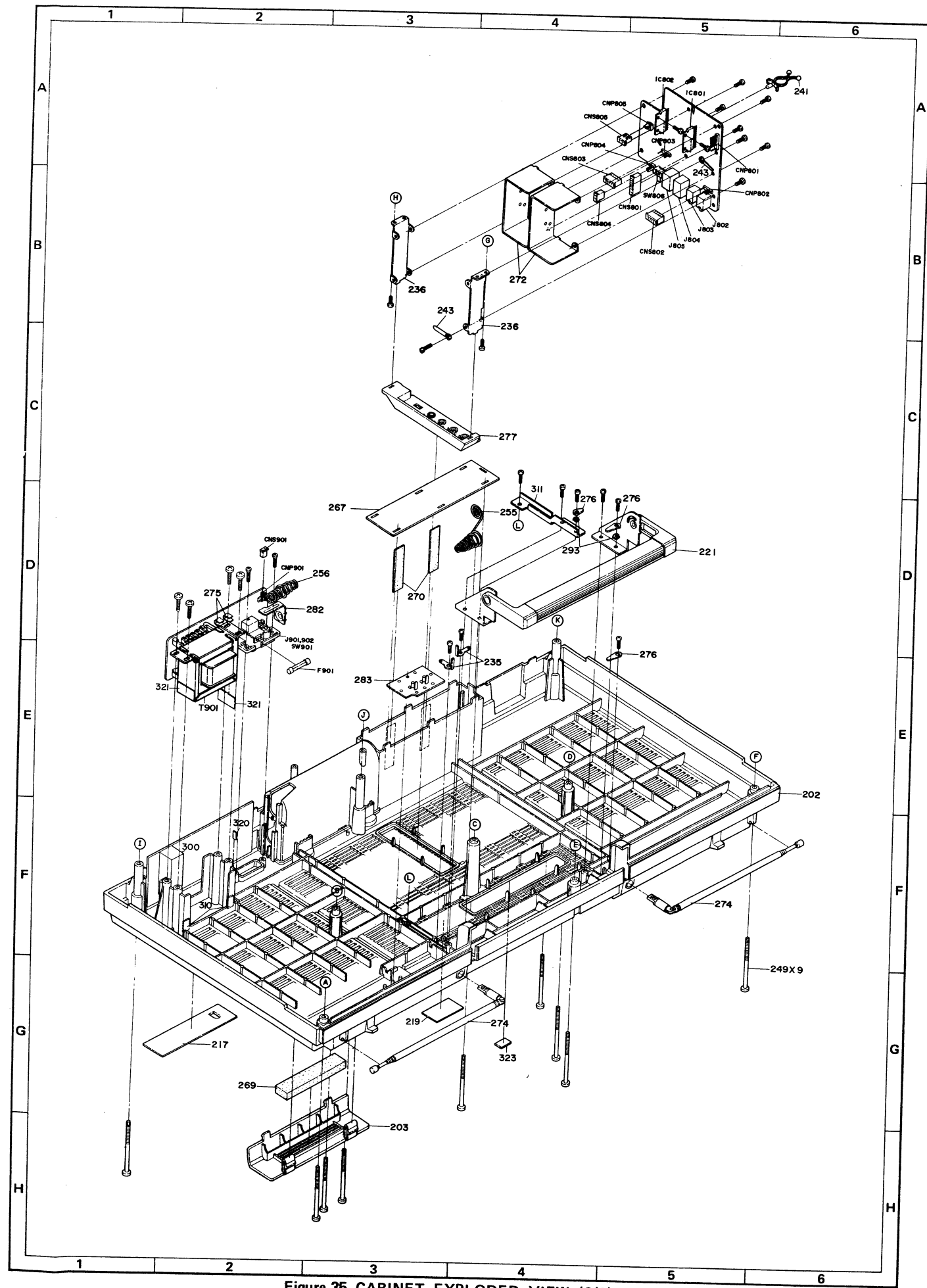


Figure 35 CABINET EXPLODED VIEW (3/3)

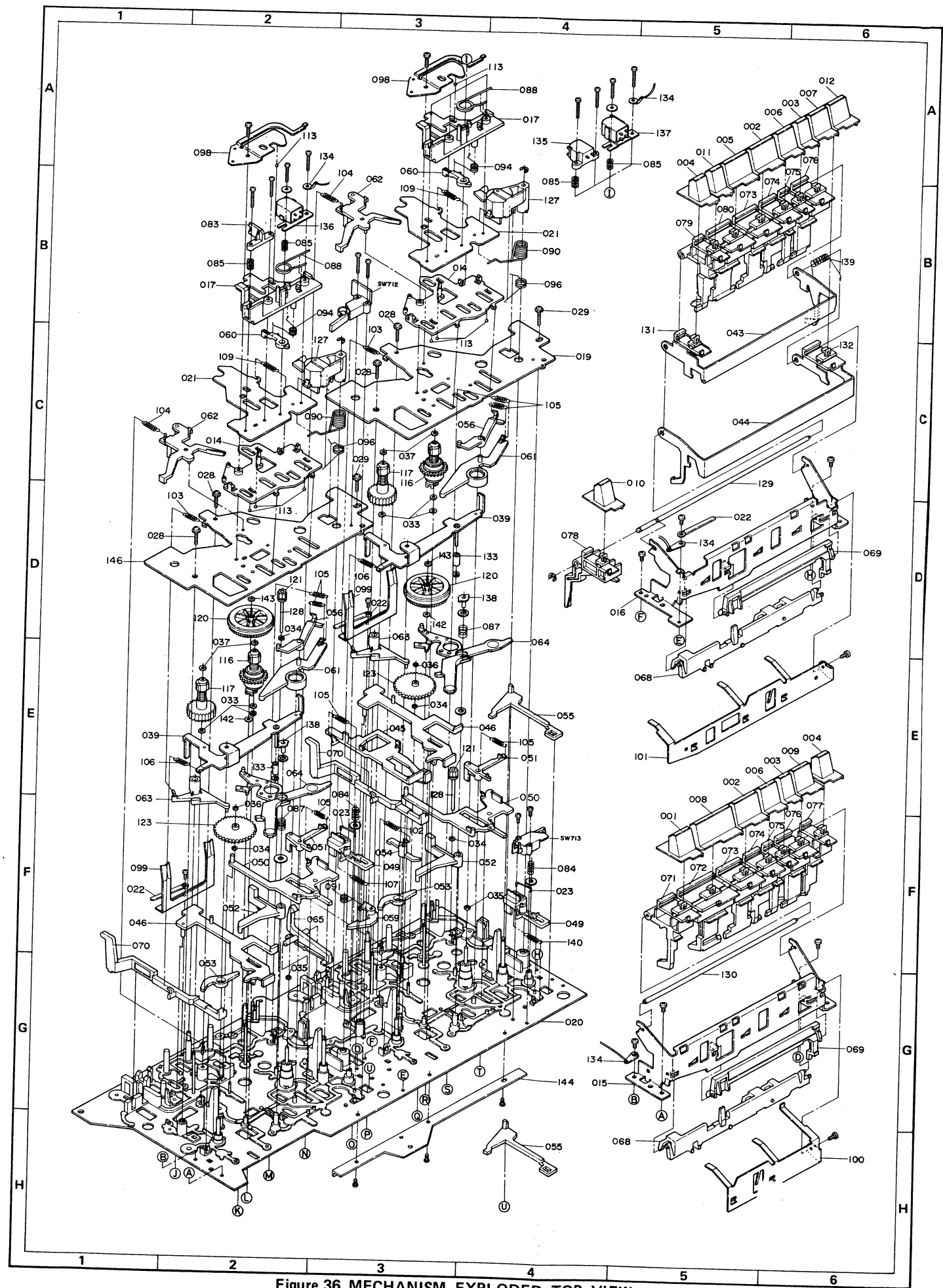


Figure 36 MECHANISM EXPLODED TOP VIEW

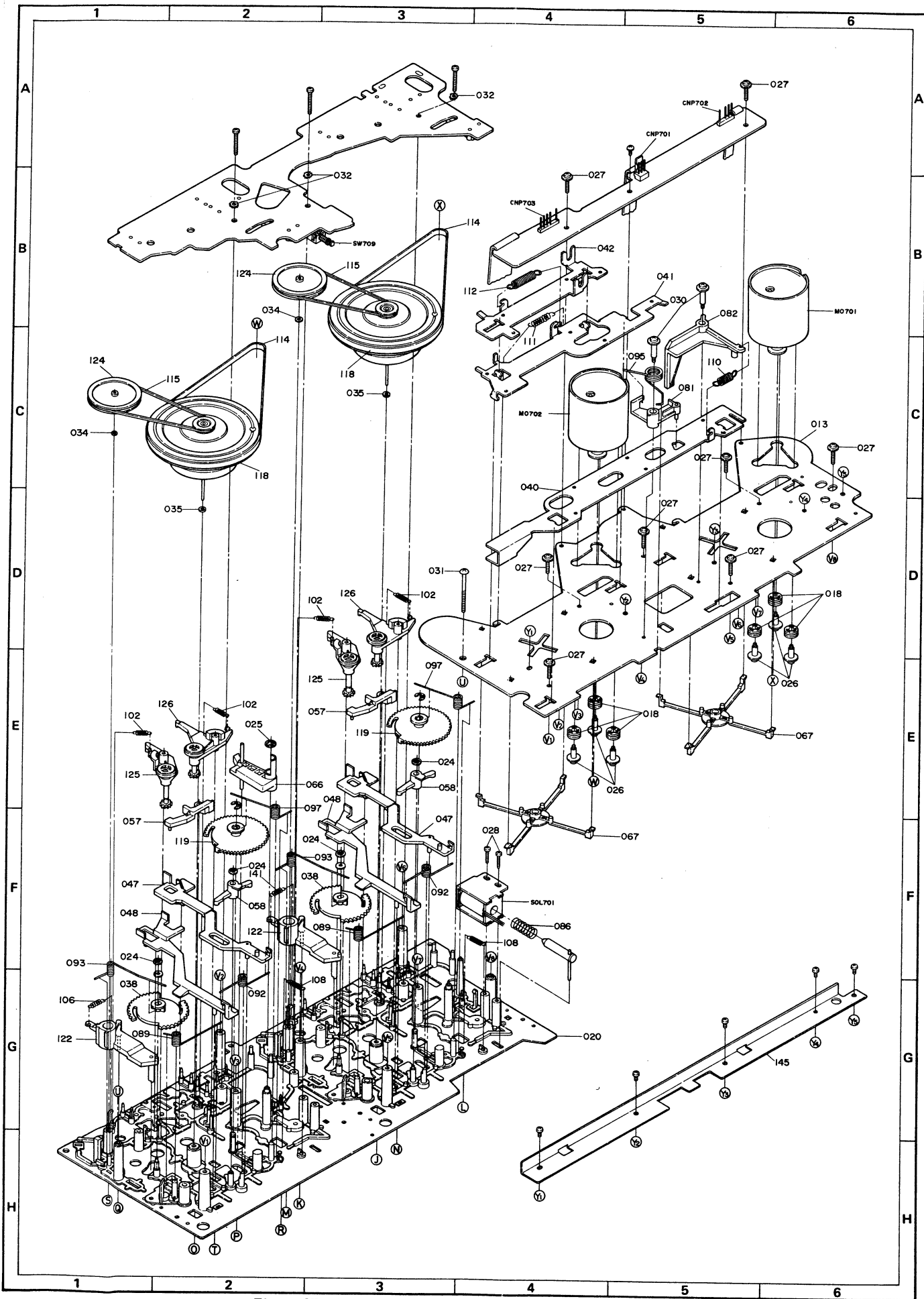


Figure 37 MECHANISM EXPLODED BOTTOM VIEW

DIAL CORD STRINGING

1. Turn the drum fully counterclockwise, and set the cord in the numerical order from 1 to 9 as shown in Fig. 38-2.
2. Turn the tuning control knob driving shaft fully clockwise, and adjust the dial pointer to come into "0" position of the dial scale plate. See Fig. 38-1.



Figure 38-1

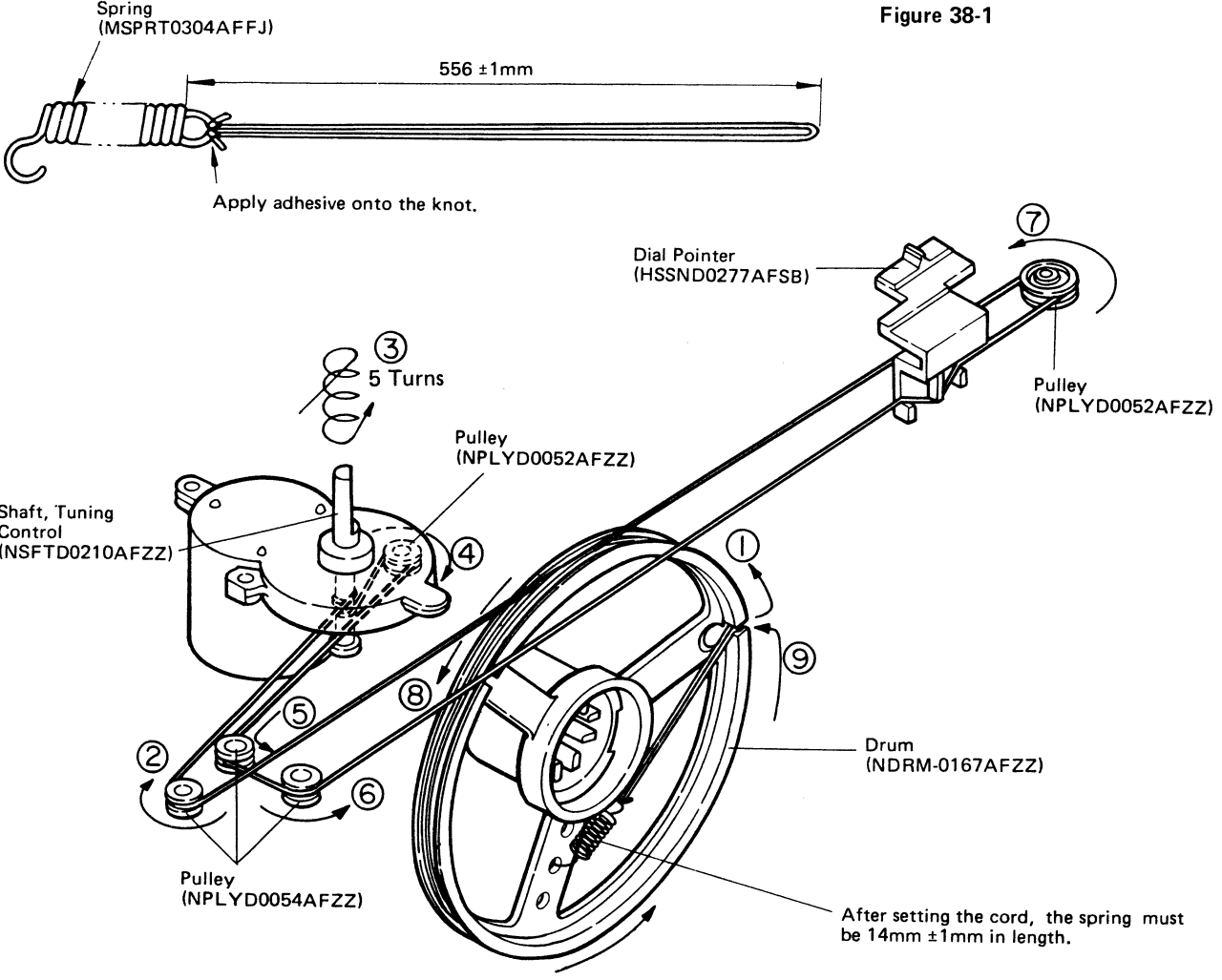
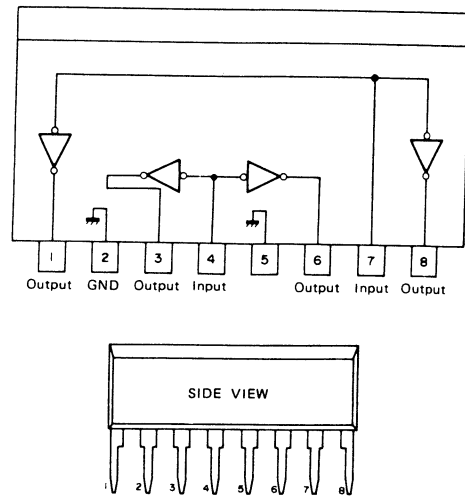
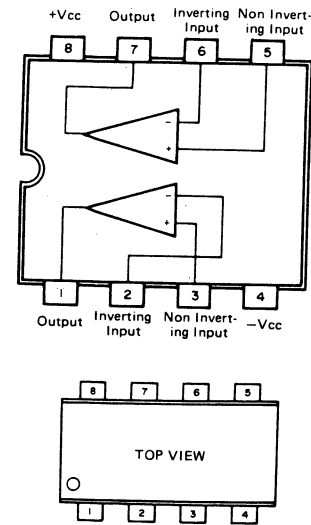


Figure 38-2

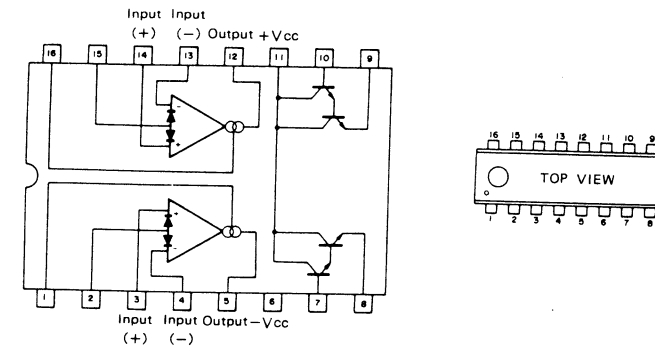
IC101, 109, 112, 113 (VHIM54512L/-1)



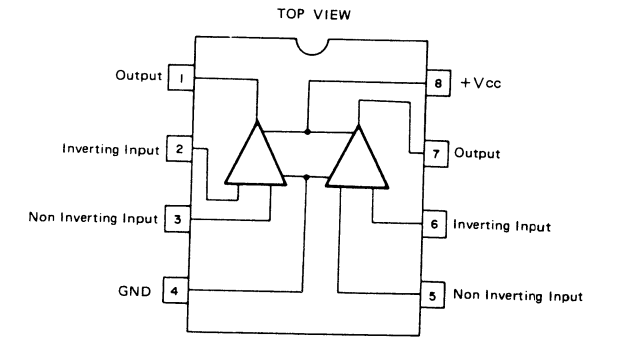
IC102 (VHIRC4558P/-1)



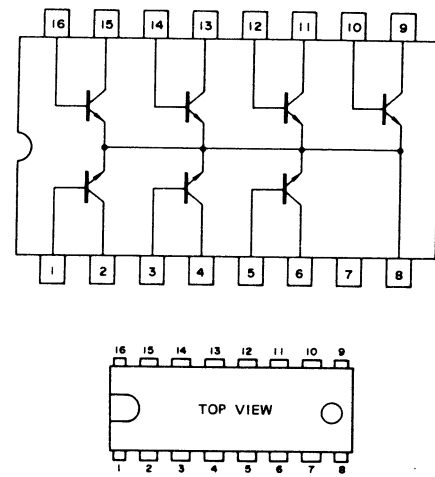
IC351 (VHILM13600N-1)



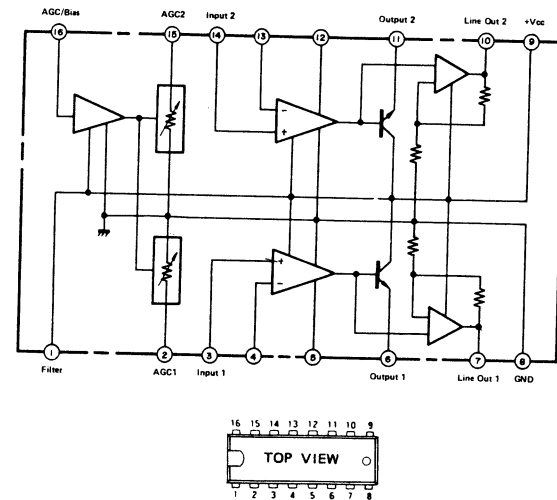
IC352 (VHILM358N// -1)



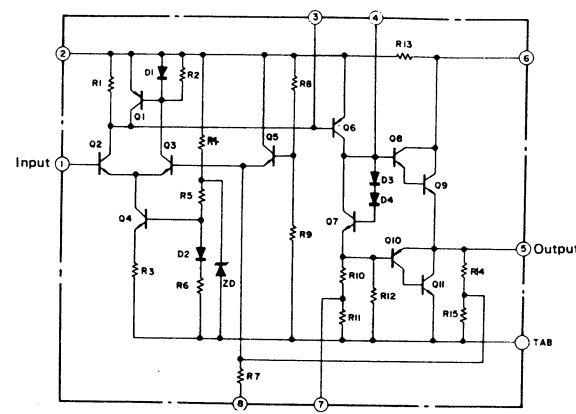
IC114 (VHIM54515// -1)



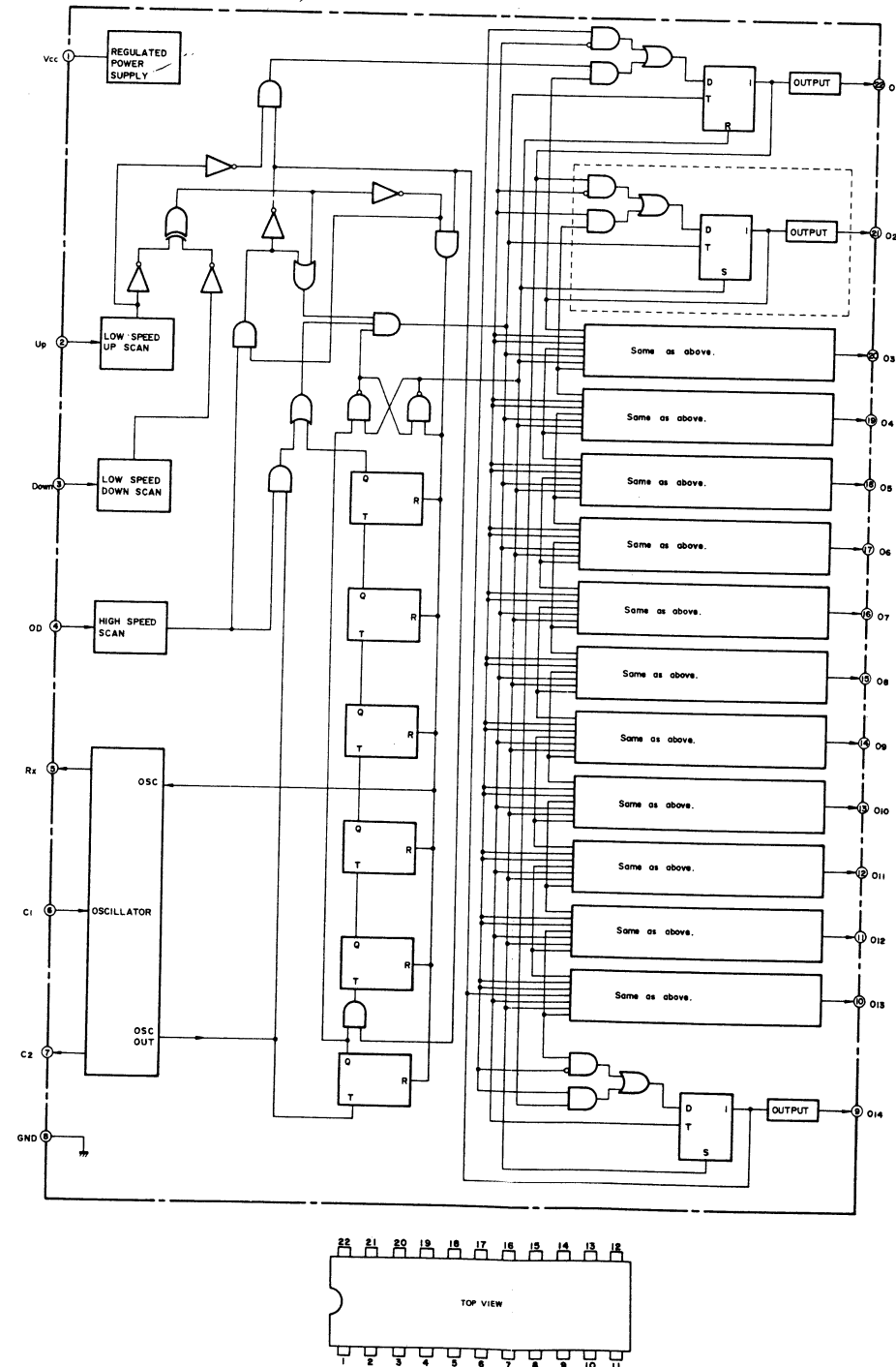
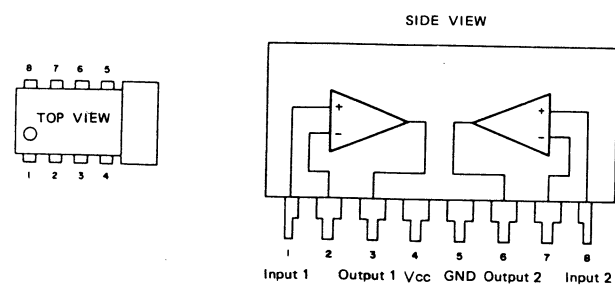
IC115 (VHIM51301P/-1)



IC501 (VHIUPC575C2-1)



IC401 (RH-IX1079AFZZ)





# REPLACEMENT PARTS LIST

## "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

### NOTES:

Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
<b>INTEGRATED CIRCUITS</b>											
IC1	RH-IX1083AFZZ	FM IF Amp. (TA7303P)	AK	Q110	VS2SD471LK2-A	Ripple Filter (2SD471LK)	AD	D712	VHERD100JB2-1	Zener, 10V/400mW (RD100JB2)	AB
IC2	RH-IX1082AFNA	PLL FM MPX Demodulator (BA1320)	AH	Q115, 116	VS2SC1815GR-1	Record Equalizer Amp. (2SC1815GR)	AB	D713, 714, D715	VHD1S2076//-1	Reverse Current Prevention (1S2076)	AB
IC101	VHIM54512L/-1	Deck 1, APLD Muting/Normal-Chrome Selector (M54512L)	AF	Q123, 124	VS2SC1815GR-1	Meter Drive Amp. (2SC1815GR)	AB	D801	VHD1S2076//-1	Built-in Microphone Muting (1S2076)	AB
IC102	VHIRC4558P/-1	Deck 1, Monitor Output Amp. (RC4558P)	AG	Q125	VS2SC1815GR-1	Automatic Playback Level Control (2SC1815GR)	AB	D802	VHPGL-9PR9/-1	Power Indicator (GL-9PR9)	AC
IC109	VHIM54512L/-1	Deck 1, APLD Muting (M54512L)	AF	Q126	VS2SC1815GR-1	Automatic Record Level Control (2SC1815GR)	AB	D803	VHERD110JB1-1	Zener, 11V/400mW (RD110JB1)	AB
IC112	VHIM54512L/-1	Switching, Record Equalizer (M54512L)	AF	Q129, 130	VS2SC1815GR-1	Muting (2SC1815GR)	AB	△D901A~D	VHDGIL04///-1	Rectifier (GIL04)	AH
IC113	VHIM54512L/-1	Switching, Record Equalizer (M54512L)	AF	Q131, 132	VS2SC1815GR-1	Normal-Chrome Selector (2SC1815GR)	AB	<b>THYRISTOR</b>			
IC114	VHIM54515//1	Built-in Microphone Bias Selector (M54515)	AG	Q133, 134, Q135, 136	VS2SC1815GR-1	Muting, Edit (2SC1815GR)	AB	SCR601	VHSCR02AM1B-U	APLD Power Switching (CR02AM-1B)	AE
IC115	VHIM51301P/-1	Record/Playback Amp. (M51301P)	AK	Q501	VS2SC732-B/-1	Microphone Amp. (2SC732B)	AD	<b>FILTERS</b>			
IC351	VHILM13600N-1	Voltage Control, Low Pass Filter (LM13600N)	AP	Q505, 506	VS2SC1815GR-1	Switching, Tape Fader (2SC1815GR)	AB	CF1	RFILF0071AFZZ	FM 1st IF 10.7MHz ±20KHz	AD
IC352	VHILM358N//1	Mix. Amp., High Pass Filter, Peak Detector (LM358N)	AG	Q602	VS2SA1015Y/-1	APLD Phase Inverter (2SA1015Y)	AB	CF2	RFILF0071AFZZ	FM 2nd IF 10.7MHz ±20KHz	AD
IC401	RH-IX1079AFZZ	Phono Equalizer Amp. (M51521)	AG	Q603	VS2SC1815GR-1	APLD Arrangement Circuit (D605) (2SC1815GR)	AB	CF3	RFILA0074AFZZ	AM IF 455KHz ±1KHz	AE
IC501	VHIUPC575C21F	Echo Amp. (UPC575C2)	AH	Q604	VS2SC1815GR-1	APLD Malfunction Prevention (2SC1815GR)	AB	<b>TRANSFORMERS</b>			
IC601	VHIR3108//1	APLD Amp. & Detector (IR3108)	AK	Q605	VS2SA1015Y/-1	APLD Power Switching (2SA1015Y)	AB	T1	RCILIO289AFZZ	FM IF	AC
IC602	VHIM54834//1	APLD Control Circuit (M54834)	AQ	Q606	VS2SC1815GR-1	APLD Power Switching (2SC1815GR)	AB	T2	RCILIO208AFZZ	FM IF	AC
IC801	VHIHA1392//1	Audio Power Amp. (HA1392)	AR	Q607	VS2SA1015Y/-1	Switching, Solenoid Drive (Q705) (2SA1015Y)	AB	T3	RCILIO256AFZZ	AM IF	AC
IC802	VHIHA1392//1	Super Woofer Sound Power Amp. (HA1392)	AR	Q701	VS2SD471LK2-A	Deck 1 Moter Drive (2SD471LK)	AD	T4	RCILIO170AFZZ	AM IF	AC
<b>TRANSISTORS</b>											
Q1	VS3SK73-GR/-1	FM RF Amp. (3SK73GR)	AF	Q702	VS2SA1015Y/-A	Switching, Moter Drive (Q701) (2SA1015Y)	AB	△T901	RTRNP0782AFZZ	Power	AY
Q2	VS2SC1923-O-A	FM Local Oscillator (2SC1923O)	AC	Q703	VS2SD471LK2-A	Deck 2 Moter Drive (2SD471LK)	AD	<b>COILS</b>			
Q3	VS2SC1923-O-A	FM Mixer (2SC1923O)	AC	Q704	VS2SD471LK2-A	APLD Regulated Power Supply (2SD471LK)	AD	L1	RCILA0510AFZZ	FM Antenna	AC
Q4	VS2SC380-Y/-A	FM IF Amp. (2SC380Y)	AB	Q705	VS2SD471LK2-A	Solenoid Drive (2SD471LK)	AD	L2, 3	RCILR0342AFZZ	FM RF	AA
Q5	VS2SC380-Y/-A	AM Mixer (2SC380Y)	AB	Q804, 805	VS2SC1627Y/-A	Bias Oscillator (2SC1627Y)	AC	L4	RCILB0463AFZZ	FM Local Oscillator	AA
Q6	VS2SC380-O/-A	AM Local Oscillator (2SC380O)	AB	Q806	VS2SC1627S/-A	Switching, Voltage Regulated Power or Bias Oscillator (2SC1627S)	AD	L5	RCILC0072AFZZ	FM RF Choke	AA
Q7	VS2SC380-O/-A	AM IF Amp. (2SC380O)	AB	Q807	VS2SD471LK2-A	Voltage Regulated Power or Bias Oscillator (2SD471LK)	AD	L6	VP-CU470K0000	47μH, Choke	AD
Q8	VS2SC380-Y/-A	AM IF Amp. (2SC380Y)	AB	Q808	VS2SC1815GR-A	Switching, Bias Oscillator (2SC1815GR)	AB	L7	RCILA0532AFZZ	AM & SW1 Antenna	AL
Q101, 102	VS2SC2240BL-1	Deck 1 Pre-amp. (2SC2240BL)	AC	<b>DIODES</b>							
Q103, 104	VS2SC732-B/-1	Deck 1 Pre-amp. (2SC732B)	AD	D1, 2	VHD1S2473//U	Electrostatic Protector (1S2473)	AB	L8	RCILAO495AFZZ	SW2 Antenna	AD
Q105, 106	VS2SC2240BL-1	Deck 2 Pre-amp. (2SC2240BL)	AC	D3	VHC1S2688-BSF	Variable Capacitance, AFC (1S2688B)	AC	L9	RCILB0444AFZZ	AM Local Oscillator	AC
Q107, 108	VS2SC732-B/-1	Deck 2 Pre-amp. (2SC732B)	AD	<b>REF. NO. PART NO. DESCRIPTION CODE</b>							
Q109	VS2SA1015Y/-1	Switching, Built-in Microphone (2SA1015Y)	AB	<b>REF. NO. PART NO. DESCRIPTION CODE</b>							
				D4	VHD1S2473//U	Overlord (1S2473)	AB	D713, 714, D715	VHD1S2076//-1	Reverse Current Prevention (1S2076)	AB
				D5	VHERD6R8JB3-U	Zener, 6.8V/400mW (RD6R8JB)	AB	D801	VHD1S2076//-1	Built-in Microphone Muting (1S2076)	AB
				D6, 7	VHD1S2473//U	Level Shift, FM Tuning (1S2473)	AB	D802	VHPGL-9PR9/-1	Power Indicator (GL-9PR9)	AC
				D8	VHD1N60////U	AM AGC (1N60)	AB	D803	VHERD110JB1-1	Zener, 11V/400mW (RD110JB1)	AB
				D9	VHERD6R8JB3-U	Zener, 6.8V/400mW (RD6R8JB)	AB	△D901A~D	VHDGIL04///-1	Rectifier (GIL04)	AH
				D10	VHD1N60////U	AM Detector (1N60)	AB	<b>THYRISTOR</b>			
				D11	VHD1N60////U	Level Shift, AM Tuning (1N60)	AB	SCR601	VHSCR02AM1B-U	APLD Power Switching (CR02AM-1B)	AE
				D12	VHD1S2473//U	Switching (1S2473)	AB	<b>FILTERS</b>			
				D13	VHD1S2473//U	Switching (1S2473)	AB	CF1	RFILF0071AFZZ	FM 1st IF 10.7MHz ±20KHz	AD
				D101	VHD1S2076//U	Switching, APLD Mode (1S2076)	AB	CF2	RFILF0071AFZZ	FM 2nd IF 10.7MHz ±20KHz	AD
				D102	VHD1S2076//U	Switching, Deck 1 Monitor Output (1S2076)	AB	CF3	RFILA0074AFZZ	AM IF 455KHz ±1KHz	AE
				D111	VHD1S2076//U	Switching, Dubbing Mode (1S2076)	AB	<b>TRANSFORMERS</b>			
				D112	VHD1S2076//U	Reverse Current Prevention (1S2076)	AB	T1	RCILIO289AFZZ	FM IF	AC
				D115, 116	VHD1S2076//U	Automatic Record Level Control (1S2076)	AB	T2	RCILIO208AFZZ	FM IF	AC
				D117, 118	VHD1N34A//U	Logarithmic Compression (1N34A)	AB	T3	RCILIO256AFZZ	AM IF	AC
				D120, 121, D123	VHD1S2076//U	Reverse Current Prevention (1S2076)	AB	T4	RCILIO170AFZZ	AM IF	AC
				D124	VHD1S2473//U	APLD Muting (1S2473)	AB	△T901	RTRNP0782AFZZ	Power	AY
				D126	VHD1S2076//U	Switching, Built-in Microphone (1S2076)	AB	<b>COILS</b>			
				D127	VHD1S2076//U	Switching, Transistor Q808, Play Mode (1S2076)	AB	L1	RCILA0510AFZZ	FM Antenna	AC
				D128	VHD1S2076//U	Switching, Transistor Q808, Record Mode (1S2076)	AB	L2, 3	RCILR0342AFZZ	FM RF	AA
				D351	VHD1S2076//U	Reverse Current Prevention (1S2076)	AB	L4	RCILB0463AFZZ	FM Local Oscillator	AA
				D352, 353	VHD1S2076//U	Protector, Peak Detector Amp. (1S2076)	AB	L5	RCILC0072AFZZ	FM RF Choke	AA
				D355	VHEHZ6B2L//U	Zener, 6.2V/400mW (HZ6B2L)	AB	L6	VP-CU470K0000	47μH, Choke	AD
				D601	VHD1S2076//U	Switching, Radio Mode (1S2076)	AB	L7	RCILA0532AFZZ	AM & SW1 Antenna	AL
				D602	VHPGL-9PR9/-1	Radio Echo Indicator (GL-9PR9)	AC	L8	RCILAO495AFZZ	SW2 Antenna	AD
				D603	VHPGL-9PR9/-1	FM Stereo Broadcast Indicator (GL-9PR9)	AC	L9	RCILB0444AFZZ	AM Local Oscillator	AC
				D604	VHPGL-9PG9/-1	Dubbing Indicator (GL-9PG9)	AD	L10	RCILB0357AFZZ	SW1 Local Oscillator	AD
				D605, 606, D607, 608, D609, 610, D611	VHPGL-9PR9/-1	APLD Indicators (GL-9PR9)	AC	L11	RCILB0601AFZZ	SW2 Local Oscillator	AC
				D616, 617, D618	VHD1S2076//U	Reverse Current Prevention (1S2076)	AB	L12	VP-CU470K0000	47μH, Choke	AD
				D619	VHD1S2076//U	APLD Indicator Malfunction Prevention (1S2076)	AB	L101, 102	RCILZ0102AFZZ	6.8mH	AC
				D620	VHD1S2076//U	Reverse Current Prevention (1S2076)	AB	L451, 452	RCILB0547AFZZ	Bias Step-up	AE
				D622	VHEHZ6B2L//U	Zener, 6.2V/400mW (HZ6B2L)	AB	L501, 502	RCILZ0102AFZZ	6.8mH	AC
				D623	VHD1S2076//U	Reverse Voltage Protector, Transistor Q607 (1S2076)	AB	L701, 702	VP-CH470K0000	47μH	AB
				D624	VHD1S2076//U	APLD Malfunction Prevention (1S2076)	AB	L801	RCILB0546AFZZ	Bias Oscillator	AE
				D702	VHD10E1////1	Suge Current Absorber (10E1)	AC	L802	VP-CH102K0000	1mH	AB
				D703, 704, D705, 706, D707, 708, D709, 710	VHD1S2076//U	Reverse Current Prevention (1S2076)	AB	<b>CONTROLS</b>			
				<b>REF. NO. PART NO. DESCRIPTION CODE</b>							
				D712	VHERD100JB2-1	Zener, 10V/400mW (RD100JB2)	AB	R21	RVR-M0006SGZZ	50K ohm (B), FM Muting Sensitivity Adjust	AC
				D713, 714, D715	VHD1S2076//-1	Reverse Current Prevention (1S2076)	AB	R27	RVR-M0004SGZZ	10K ohm (B), Voltage Controlled Oscillator Adjust	AC
				D801	VHD1S2076//-1	Built-in Microphone Muting (1S2076)	AB	VR101 (A,B)	RVR-A0160AFZZ	50K ohm (A), Recording Level	AK
				D802	VHPGL-9PR9/-1	Power Indicator (GL-9PR9)	AC	VR104	RVR-M0007SGZZ	100K ohm (B), Battery Condition Meter Sensitivity Adjust	AC
				D803	VHERD110JB1-1	Zener, 11V/400mW (RD110JB1)	AB	VR105, 106	RVR-M0004SGZZ	10K ohm (B), VU Meter Sensitivity Adjust	AC
				△D901A~D	VHDGIL04///-1	Rectifier (GIL04)	AH	VR451, 452	RVR-M0004SGZZ	10K ohm (B) Bias Current Adjust	AC
				<b>REF. NO. PART NO. DESCRIPTION CODE</b>							
				SCR601	VHSCR02AM1B-U	APLD Power Switching (CR02AM-1B)	AE	VR501 (A,B)		10K ohm (B), Echo	
				<b>FILTERS</b>							
				CF1	RFILF0071AFZZ	FM 1st IF 10.7MHz ±20KHz	AD	VR503 (A,B)		50K ohm (Z), Mic Fader	
				CF2	RFILF0071AFZZ	FM 2nd IF 10.7MHz ±20KHz	AD	VR504 (A,B)		50K ohm (Z), Tape Fader	
				CF3	RFILA0074AFZZ	AM IF 455KHz ±1KHz	AE	VR505 (A,B)		100K ohm (A), Treble Tone	AS
				<b>TRANSFORMERS</b>							
				T1	RCILIO289AFZZ	FM IF	AC	VR506 (A,B)		100K ohm (A), Bass Tone	
				T2	RCILIO208AFZZ	FM IF	AC	VR507		100K ohm (Z), Balance	
				T3	RCILIO256AFZZ	AM IF	AC	<b>REF. NO. PART NO. DESCRIPTION CODE</b>			
				T4	RCILIO170AFZZ	AM IF	AC	RVR-Z0100AFZZ			
				△T901	RTRNP0782AFZZ	Power	AY	<b>REF. NO. PART NO. DESCRIPTION CODE</b>			



REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
C606	VCTYMF1CY223N	.022MFD, 16V, ±30%	AA	R32	VRD-MF2EE332J	3.3K ohm		R132	VRD-MF2EE221J	220 ohm		R315, 316,	VRD-MF2EE473J	47K ohm	
C611	VCKYMF1HB102K	.001MFD, 50V, ±10%	AA	R33	VRD-MF2EE152J	1.5K ohm		R134	VRD-MF2EE332J	3.3K ohm		R317, 318			
C614, 615	VCTYMF1EX103N	.01MFD, 25V, ±30%	AA	R34	VRD-MF2EE152J	1.5K ohm		R135	VRD-MF2EE273J	27K ohm		R319, 320	VRD-MF2EE223J	22K ohm	
C706	VCKYAT1HB471K	470PF, 50V, ±10%, Ceramic	AA	R35, 36	VRD-MF2EE103J	10K ohm		R139, 140	VRD-MF2EE102J	1K ohm		R321, 322	VRD-MF2EE473J	47K ohm	
C707	VCKZPV1HF223Z	.022MFD, 50V, +80-20%, Ceramic	AA	R37	VRD-MF2EE332J	3.3K ohm		R141, 142	VRD-MF2EE563J	56K ohm		R323	VRD-MF2EE561J	560 ohm	
C708	VCKZPU1HF223Z	.022MFD, 50V, +80-20%, Ceramic	AA	R38, 39	VRD-MF2EE152J	1.5K ohm		R143, 144	VRD-MF2EE331J	330 ohm		R325	VRD-MF2EE473J	47K ohm	
C801, 802	VCKYAT1HB471K	470PF, 50V, ±10%, Ceramic	AA	R40, 41	VRD-MF2EE103J	10K ohm		R145, 146	VRD-MF2EE682J	6.8K ohm		R333, 334	VRD-MF2EE562J	5.6K ohm	
C811, 812	VCTYPV1EX104M	.1MFD	AB	R42	VRD-MF2EE221J	220 ohm		R147, 148	VRD-MF2EE224J	220K ohm		R335, 336	VRD-MF2EE472J	4.7K ohm	
C827, 828	VCTYPV1EX104M	.1MFD	AB	R43	VRD-MF2EE271J	270 ohm		R149, 150	VRD-MF2EE102J	1K ohm		R355, 356,			
C833	VCQPKQ2AA122J	.0012MFD, 100V, ±5%, Polypropylene	AB	R44	VRD-MF2EE102J	1K ohm		R151, 152	VRD-MF2EE564J	560K ohm		R357, 358,	VRD-MF2EE473J	47K ohm	
C834	VCQPKQ2AA392J	.0039MFD, 100V, ±5%, Polypropylene	AB	R45	VRD-MF2EE101J	100 ohm		R153, 154	VRD-MF2EE473J	47K ohm		R359, 360			
C835	VCQPKV2AA223J	.022MFD, 100V, ±5%, Polypropylene	AB	R46	VRD-MF2EE122J	1.2K ohm		R155, 156	VRD-MF2EE223J	22K ohm		R361, 362	VRD-MF2EE472J	4.7K ohm	
C836	VCQPKQ2AA272J	.0027MFD, 100V, ±5%, Polypropylene	AB	R47	VRD-MF2EE332J	3.3K ohm		R159	VRD-MF2EE273J	27K ohm		R363, 364	VRD-MF2EE103J	10K ohm	
C837, 839, C841	VCTYAT1EX103N	.01MFD, 25V, ±30%, Semiconductor	AA	R48	VRD-MF2EE100J	10 ohm		R160	VRD-MF2EE102J	1K ohm		R365, 366	VRD-MF2EE473J	47K ohm	
C844	VCQYKV1HM332J	.0033MFD, 50V, ±5%, Mylar	AB	R49	VRD-MF2EE683J	68K ohm		R161, 162	VRD-MF2EE332J	3.3K ohm		R367	VRD-MF2EE102J	1K ohm	
C847	VCTYAT1CY223N	.022MFD, 16V, ±30%, Semiconductor	AA	R50	VRD-MF2EE274J	270K ohm		R165, 166	VRD-MF2EE272J	2.7K ohm		R368	VRD-MF2EE123J	12K ohm	
C848	VCKZPV1HF223Z	.022MFD, 50V, +80-20%, Ceramic	AA	R51	VRD-RE2EE100J	10 ohm, 1/4W, ±5%, Carbon		R176	VRD-MF2EE152J	1.5K ohm		R369	VRD-MF2EE273J	27K ohm	
C900, 901, C902, 903	VCKZPV1HF103Z	.01MFD, 50V, +80-20%, Ceramic	AA	R52	VRD-MF2EE122J	1.2K ohm		R179, 180	VRD-MF2EE102J	1K ohm		R370	VRD-MF2EE104J	100K ohm	
<b>RESISTORS</b>				R53, 54	VRD-MF2EE102J	1K ohm		R187, 188	VRD-MF2EE472J	4.7K ohm		R371	VRD-MF2EE334J	330K ohm	
* Tubular type carbon film resistor (1/4W, ±5%) is identified by the symbol MF of the part No. VRD-MFOOOOOO; this MF does not mean the lead wire.				R55	VRD-MF2EE681J	680 ohm		R189, 190	VRD-MF2EE154J	150K ohm		R372	VRD-MF2EE472J	4.7K ohm	
R1	VRD-MF2EE223J	22K ohm		R56	VRD-MF2EE121J	120 ohm		R191, 192	VRD-MF2EE221J	220 ohm		R373	VRD-MF2EE154J	150K ohm	
R2	VRD-MF2EE330J	33 ohm		R57	VRD-MF2EE100J	10 ohm		R193, 194	VRD-MF2EE473J	47K ohm		R374	VRD-MF2EE103J	10K ohm	
R3	VRD-MF2EE823J	82K ohm		R58	VRD-MF2EE274J	270K ohm		R195, 196	VRD-MF2EE102J	1K ohm		R375, 376,			
R4	VRD-MF2EE101J	100 ohm		R59	VRD-MF2EE102J	1K ohm		R197, 198	VRD-MF2EE222J	2.2K ohm		R377	VRD-MF2EE104J	100K ohm	
R5	VRD-MF2EE820J	82 ohm		R60	VRD-MF2EE103J	10K ohm		R199, 200	VRD-MF2EE152J	1.5K ohm		R378	VRD-MF2EE332J	3.3K ohm	
R6	VRD-MF2EE102J	1K ohm		R61	VRD-MF2EE222J	2.2K ohm		R203, 204	VRD-MF2EE821J	820 ohm		R379	VRD-MF2EE103J	10K ohm	
R7	VRD-MF2EE394J	390K ohm		R62	VRD-MF2EE391J	390 ohm		R207	RR-SZ1006AFZZ	68 ohm, 1W, ±5%, Metal Oxide Filme		R380	VRD-MF2EE332J	3.3K ohm	
R8	VRD-MF2EE102J	1K ohm		R63	VRD-MF2EE152J	1.5K ohm		R209	VRD-MF2EE564J	560K ohm		R381	VRD-MF2EE103J	10K ohm	
R9	VRD-MF2EE471J	470 ohm		R64	VRD-MF2EE334J	330K ohm						R382	VRD-MF2EE472J	4.7K ohm	
R10	VRD-MF2EE562J	5.6K ohm		R65	VRD-MF2EE471J	470 ohm						R401, 402	VRD-MF2EE473J	47K ohm	
R11	VRD-MF2EE104J	100K ohm		R66	VRD-MF2EE221J	220 ohm	AA					R403, 404	VRD-MF2EE222J	2.2K ohm	AA
R12	VRD-MF2EE103J	10K ohm		R67	VRD-MF2EE102J	1K ohm		R212	VRD-MF2EE221J	220 ohm	AA	R405, 406	VRD-MF2EE151J	150 ohm	
R13	VRD-MF2EE104J	100K ohm		R68	VRD-MF2EE563J	56K ohm		R213, 214	VRD-MF2EE562J	5.6K ohm		R407, 408	VRD-MF2EE273J	27K ohm	
R14	VRD-MF2EE334J	330K ohm		R69	VRD-MF2EE123J	12K ohm		R215, 216	VRD-MF2EE684J	680K ohm		R409, 410	VRD-MF2EE823J	82K ohm	
R15	VRD-MF2EE221J	220 ohm	AA	R70	VRD-MF2EE562J	5.6K ohm		R217, 218	VRD-MF2EE102J	1K ohm		R411, 412	VRD-MF2EE103J	10K ohm	
R16	VRD-MF2EE102J	1K ohm		R71	VRD-MF2EE471J	470 ohm		R221	VRD-MF2EE273J	27K ohm		R415, 416	VRD-MF2EE223J	22K ohm	
R17	VRD-MF2EE474J	470K ohm		R72	VRD-MF2EE182J	1.8K ohm		R222	VRD-MF2EE122J	1.2K ohm		R419, 420	VRD-MF2EE102J	1K ohm	
R18	VRD-MF2EE102J	1K ohm		R73	VRD-MF2EE822J	8.2K ohm		R223	VRD-MF2EE102J	1K ohm		R421, 422	VRD-MF2EE152J	1.5K ohm	
R19	VRD-MF2EE221J	220 ohm		R74	VRD-MF2EE332J	3.3K ohm		R241, 242	VRD-MF2EE332J	3.3K ohm		R424	VRD-MF2EE182J	1.8K ohm	
R20	VRD-MF2EE103J	10K ohm		R75	VRD-MF2EE473J	47K ohm		R243	VRD-MF2EE223J	22K ohm		R425, 426	VRD-MF2EE472J	4.7K ohm	
R22	VRD-MF2EE151J	150 ohm		R76	VRD-RE2EE271J	270 ohm, 1/4W, ±5%, Carbon		R273, 274	VRD-MF2EE392J	3.9K ohm		R427, 428	VRD-MF2EE102J	1K ohm	
R23	VRD-MF2EE332J	3.3K ohm		R77	VRD-MF2EE103J	10K ohm		R275, 276	VRD-MF2EE223J	22K ohm		R431	VRD-MF2EE681J	680 ohm	
R24	VRD-MF2EE474J	470K ohm		R78	VRD-MF2EE471J	470 ohm		R277, 278	VRD-MF2EE103J	10K ohm		R453, 454	VRD-MF2EE100J	10 ohm	
R25	VRD-MF2EE392J	3.9K ohm			VRD-MF2EE000C	0 ohm (Jumper)		R279, 280	VRD-MF2EE332J	3.3K ohm		R455	VRD-MF2EE1R0J	1 ohm	
R26	VRD-MF2EE183J	18K ohm		R101, 102	VRD-MF2EE563J	56K ohm		R281, 282	VRD-MF2EE123J	12K ohm		R501	VRD-MF2EE471J	470 ohm	
R28	VRD-MF2EE153J	15K ohm		R103, 104	VRD-MF2EE221J	220 ohm		R283, 284	VRD-MF2EE822J	8.2K ohm		R502	VRD-MF2EE271J	270 ohm	
R29	VRD-MF2EE471J	470 ohm		R105, 106	VRD-MF2EE682J	6.8K ohm		R285, 286	VRD-MF2EE151J	150 ohm		R503	VRD-MF2EE102J	1K ohm	
R30	VRD-MF2EE102J	1K ohm		R107, 108	VRD-MF2EE224J	220K ohm		R287, 288	VRD-MF2EE563J	56K ohm		R504	VRD-MF2EE474J	470K ohm	
R31	VRD-MF2EE561J	560 ohm		R109, 110	VRD-MF2EE102J	1K ohm		R289, 290	VRD-MF2EE271J	270 ohm		R505	VRD-MF2EE222J	2.2K ohm	
				R111, 112	VRD-MF2EE223J	22K ohm		R291, 292	VRD-MF2EE121J	120 ohm		R507	VRD-MF2EE330J	33 ohm	
				R113, 114	VRD-MF2EE564J	560K ohm		R293, 294	VRD-MF2EE562J	5.6K ohm		R508	VRD-MF2EE473J	47K ohm	
				R115, 116	VRD-MF2EE104J	100K ohm		R295, 296	VRD-MF2EE472J	4.7K ohm		R509	VRD-MF2EE154J	150K ohm	
				R117, 118	VRD-MF2EE562J	5.6K ohm		R297	RR-SZ1006AFZZ	68 ohm, 1W, ±5%, Metal Oxide Filme		R510	VRD-MF2EE124J	120K ohm	
				R119, 120	VRD-MF2EE332J	3.3K ohm						R511	VRD-MF2EE471J	470 ohm	
				R121, 122	VRD-MF2EE272J	2.7K ohm		R298	VRD-MF2EE182J	1.8K ohm		R512	RR-SZ1005AFZZ	8.2 ohm, 1W, ±5%, Metal Oxide Filme	
				R123, 124	VRD-MF2EE102J	1K ohm		R300, 301	VRD-MF2EE103J	10K ohm					
				R125, 126	VRD-MF2EE104J	100K ohm		R302	VRD-MF2EE104J	100K ohm		R513, 514,			
				R127, 128	VRD-MF2EE331J	330 ohm		R303	VRD-MF2EE103J	10K ohm		R515, 516,	VRD-MF2EE472J	4.7K ohm	
				R129, 130	VRD-MF2EE224J	220K ohm		R304	VRD-MF2EE222J	2.2K ohm		R517, 518,	VRD-MF2EE183J	18K ohm	
				R131	VRD-MF2EE102J	1K ohm		R305	VRD-MF2EE102J	1K ohm		R525, 526			
								R306, 307,	VRD-MF2EE103J	10K ohm		R527, 528	VRD-MF2EE184J	180K ohm	
								R313, 314							

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
R529, 530, } R531, 532 }	VRD-MF2EE123J	12K ohm	AA	<b>MECHANICAL PARTS</b>			
R533, 534	VRD-MF2EE223J	22K ohm		001	JKNBP0126AFSA	Key, Deck 1 Cassette Ejection	AE
R535, 536	VRD-MF2EE222J	2.2K ohm		002	JKNBP0127AFSA	Key, Stop	AE
R537, 538	VRD-MF2EE272J	2.7K ohm		003	JKNBP0128AFSA	Key, Cut	AE
R539, 540, } R541, 542 }	VRD-MF2EE332J	3.3K ohm		004	JKNBP0129AFSA	Key, Pause	AE
R543	RR-SZ1007AFZZ	3.3 ohm, 1W, ±5%, Metal Oxide Filme		005	JKNBP0130AFSA	Key, Deck 2 Playback	AE
R544	VRD-MF2EE331J	330 ohm		006	JKNBP0131AFSA	Key, Rewind/Review	AE
R548	VRD-RU2EE332J	3.3K ohm		007	JKNBP0132AFSA	Key, Deck 2 Fast Forward Wind/Cue	AE
R600	VRD-MF2EE821J	820 ohm		008	JKNBP0133AFSA	Key, Deck 1 Playback	AE
R602	VRD-MF2EE271J	270 ohm		009	JKNBP0134AFSA	Key, Deck 2 Fast Forward Wind/Cue	AE
R603	VRD-MF2EE103J	10K ohm		010	JKNBP0135AFSA	Key, Deck 2 Editing	AE
R604	VRD-MF2EE271J	270 ohm		011	JKNBP0136AFSA	Key, Deck 2 Record	AE
R605	VRD-MF2EE183J	18K ohm		012	JKNBP0137AFSA	Key, Deck 2 Cassette Ejection	AE
R606	VRD-MF2EE562J	5.6K ohm		013	LANGF0594AFZZ	Bracket, Motor Retaining	AH
R607	VRD-MF2EE101J	100 ohm		014	LANGG0078AFZZ	Bracket, Sub Chassis Guide	AC
R608	VRD-MF2EE223J	22K ohm		015	LANGK0250AFFW	Bracket, Deck 1 Button Block	AC
R609	VRD-MF2EE222J	2.2K ohm		016	LANGK0258AFZZ	Bracket, Deck 2 Button Block	AF
R610, 611 } R612, 613, }	VRD-MF2EE272J	2.7K ohm		017	LANGT0978AFZZ	Bracket, Head Base	AB
R614	VRD-MF2EE102J	1K ohm		018	LBSHZ0072AFZZ	Cushion, Motor	AB
R615	VRD-MF2EE683J	68K ohm		019	LCHSM0361AFZZ	Second Chassis (Deck 2)	-
R616	VRD-MF2EE332J	3.3K ohm		020	LCHSM0374AFZZ	Main Chassis	-
R617	VRD-MF2EE681J	680 ohm		021	LCHSS0159AFZZ	Sub Chassis	-
R618	VRD-MF2EE222J	2.2K ohm		022	LHLDW3056AFZZ	Wire Holder, 31mm	AA
R619	VRD-MF2EE104J	100K ohm		023	LPINZ0051AFZZ	Pin, Pause Lever	AA
R620	VRD-MF2EE103J	10K ohm		024	LSTWC2001AFZZ	Stop Ring, 2mm Dia	AA
R621	VRD-MF2EE101J	100 ohm		025	LSTWC4004AFZZ	Stop Ring, 4mm Dia	AA
R622	VRD-MF2EE103J	10K ohm		026	LX-BZ0219AFFD	Screw, Motor Retaining	AA
R623	VRD-MF2EE102J	1K ohm		027	LX-HZ0056AFFD	Screw, 3mm Dia x t10mm	AA
R624	VRD-MF2EE561J	560 ohm		028	LX-HZ0077AFZZ	Screw, 2.6mm Dia x t10mm	AA
R625	VRD-MF2EE562J	5.6K ohm		029	LX-HZ0078AFZZ	Flange Screw, 2.6mm Dia x t12mm	AA
R626	VRD-MF2EE222J	2.2K ohm		030	LX-HZ0079AFZZ	Screw, Record Interlocking	AA
R627, 629 } R630	VRD-MF2EE103J	10K ohm		031	LX-HZ0081AFZZ	Screw, 3mm Dia x t30mm	AA
R631	VRD-MF2EE682J	6.8K ohm		032	LX-WZ0014AGFK	Lock Washer, 2.6mm Dia	AA
R632	VRD-MF2EE561J	560 ohm		033	LX-WZ5018AGZZ	Washer, 2.1mm Dia	AA
R633	VRD-MF2EE102J	1K ohm		034	LX-WZ5020AGZZ	Washer, 1.7mm Dia	AA
R700	VRD-ST2EE333J	33K ohm, 1/4W, ±5%, Carbon		035	LX-WZ9053AFZZ	Washer, Oil Cut	AA
R701	VRD-ST2EE103J	10K ohm, 1/4W, ±5%, Carbon		036	LX-WZ9063AFZZ	Washer, 1.5mm Dia	AA
R702, 703 } R704	VRD-ST2EE102J	1K ohm, 1/4W, ±5%, Carbon		037	LX-WZ9064AFZZ	Washer, 2mm Dia	AA
R705, 706 } R707	VRD-ST2EE563J	56K ohm, 1/4W, ±5%, Carbon		038	MCAMP0054AFZZ	Cam, Pause	AB
R708	VRD-ST2EE331J	330 ohm, 1/4W, ±5%, Carbon		039	MLEVF1120AFZZ	Lever, P.A.D.	AD
	VRD-ST2EE474J	470K ohm, 1/4W, ±5%, Carbon		040	MLEVF1199AFZZ	Lever, Tape Operation Selector Interlocking	AD
R801, 802 } R803, 804 }	VRD-ST2EE333J	33K ohm, 1/4W, ±5%, Carbon		041	MLEVF1200AFZZ	Lever, Record Switch	AD
R805, 806 } R811, 812 }	VRD-ST2EE151J	150 ohm, 1/4W, ±5%, Carbon		042	MLEVF1201AFZZ	Lever, Over Stroke	AC
R813, 814 } R815, 816 }	VRD-ST2EE221J	220 ohm, 1/4W, ±5%, Carbon		043	MLEVF1202AFZZ	Lever, Deck 2 Pause Key Interlocking	AD
R817, 818 } R819 }	VRD-ST2EE222J	2.2K ohm, 1/4W, ±5%, Carbon		044	MLEVF1203AFZZ	Lever, Deck 2 Cassette Ejection Key Interlocking	AD
R821	VRD-ST2EE333J	33K ohm, 1/4W, ±5%, Carbon		045	MLEVP0216AFZZ	Lever, Record	AB
R822, 823 } R826, 827 }	VRD-ST2EE120J	12 ohm, 1/4W, ±5%, Carbon		046	MLEVP0217AFZZ	Lever, Playback	AB
R828	VRD-ST2EE102J	1K ohm, 1/4W, ±5%, Carbon		047	MLEVP0218AFZZ	Lever, Rewind	AB
R829, 830, } R831, 832 }	VRD-ST2EE152J	1.5K ohm, 1/4W, ±5%, Carbon		048	MLEVP0219AFZZ	Lever, Fast Forward	AC
R833	VRD-ST2EE2R2J	2.2 ohm, 1/4W, ±5%, Carbon		049	MLEVP0220AFZZ	Lever, Pause	AB
R835	VRD-ST2EE102J	1K ohm, 1/4W, ±5%, Carbon		050	MLEVP0221AFZZ	Lever, P.A.D. Lock	AB
R836	VRD-ST2EE123J	12K ohm, 1/4W, ±5%, Carbon		051	MLEVP0222AFZZ	Lever, Auxiliary P.A.D. Lock	AB
	VRD-ST2EE122J	1.2K ohm, 1/4W, ±5%, Carbon		052	MLEVP0223AFZZ	Lever, Start	AB
	VRD-MF2EE000C	0 ohm, 1/4W, ±0.25 ohm, Jumper		053	MLEVP0332AFZZ	Lever, Cassette Eject Prevention	AC
				054	MLEVP0225AFZZ	Lever, Record Prevention	AB
				055	MLEVP0226AFZZ	Lever, Lock Release	AB
				056	MLEVP0227AFZZ	Lever, Brake Release	AB
				057	MLEVP0228AFZZ	Lever, APLD Switch	AB

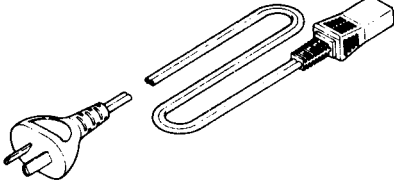
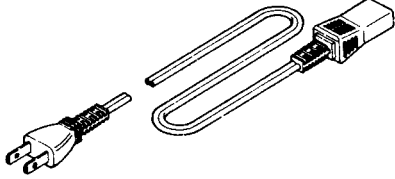
REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
058	MLEVP0229AFZZ	Lever, Fast Forward/ Rewind Prevention	AB	116	NDAIR0150AFSA	Turntable, Take-up	AG
059	MLEVP0230AFZZ	Lever, Record Sensor	AB	117	NDAIR0151AFSA	Turntable, Supply	AE
060	MLEVP0231AFZZ	Lever, Sub Chassis Lock	AB	118	NFLYC0090AFZZ	Flywheel Assembly	AP
061	MLEVP0232AFZZ	Lever, Playback Release	AB	119	NGERH0066AFZZ	Gear, P.A.D.	AB
062	MLEVP0233AFZZ	Lever, Brake	AB	120	NGERH0067AFZZ	Gear, Playback	AE
063	MLEVP0234AFZZ	Lever, Auto Stop Control	AB	121	NGERP0052AFZZ	Gear, Playback Drive	AD
064	MLEVP0235AFZZ	Lever, Sensor	AB	122	NIDR-0073AFZZ	Idler, Playback	AD
065	MLEVP0236AFZZ	Lever, Erase Protector	AB	123	NIDR-0074AFZZ	Idler, Rewind	AB
066	MLEVP0237AFZZ	Lever, Record Interlocking	AD	124	NPLYR0076AFZZ	Pulley, Playback	AB
067	MLEVP0239AFZZ	Lever, Thrust	AC	125	NR0LV0017AFZZ	Roller, Fast Forward	AF
068	MLEVP0240AFZZ	Lever, Main Button Block	AB	126	NR0LX0014AFZZ	Roller, Rewind	AF
069	MLEVP0241AFZZ	Lever, Sub Button Block	AB	127	NR0LY0043AFZZ	Pinch Roller	AG
070	MLEVP0277AFZZ	Lever, Cassette Ejection	AC	128	NSFTN0008AFFW	Shaft, Playback Pulley	AB
071	MLEVP0278AFZZ	Lever, Deck 1 Cassette Ejection Key	AC	129	NSFTT0149AFFW	Shaft, Deck 2 Key Block	AD
072	MLEVP0279AFZZ	Lever, Deck 1 Playback Key	AC	130	NSFTT0154AFFW	Shaft, Deck 1 Key Block	AD
073	MLEVP0280AFZZ	Lever, Stop Key	AC	131	PGIDM0093AFZZ	Guide, Deck 2 Pause Button	AC
074	MLEVP0281AFZZ	Lever, Rewind Key	AC	132	PGIDM0094AFZZ	Guide, Deck 2 Cassette Ejection Button	AC
075	MLEVP0282AFZZ	Lever, Cut Key	AC	133	PGUMR0052AFZZ	Cushion, P.A.D. Lever	AB
076	MLEVP0283AFZZ	Lever, Fast Forward Key	AC	134	QCNW-0964AFZZ	Terminal Lug with Lead	AC
077	MLEVP0284AFZZ	Lever, Deck 1 Pause Key	AC	135	RHEDA0081AFZZ	Erase Head	AL
078	MLEVP0285AFZZ	Lever, Deck 2 Editing Key	AC	136	RHEDF0060AFZZ	Playback Head	AQ
079	MLEVP0286AFZZ	Lever, Deck 2 Record Key	AC	137	RHEDH0089AFZZ	Record/Playback Head	AR
080	MLEVP0287AFZZ	Lever, Deck 2 Playback Key	AC	138	LSLVM0113AFFW	Stop Ring, Sensor Lever Retainer	AC
081	MLEVP0288AFZZ	Detent Lever, Tape Operation Selector	AD	MO701, 702	RMOTV0099AFZZ	Motor	AV
082	MLEVP0289AFZZ	Lever, Tape Operation Selector	AB	SOL701	RPLU-0126AFZZ	Plunger Solenoid	AK
083	MLEVP0290AFZZ	Lever, Deck 1 to 2 Sequential Playback	AB	139	MSPRD0358AFFJ	Spring, Pause Lock Hold	AB
084	MSPRC0229AFFJ	Spring, Pause Lever Pin	AB	140	MSPRT0793AFFJ	Spring, Deck 2 Pause	AB
085	MSPRC0230AFFJ	Spring, Head Azimuth	AB	141	MSPRT0794AFFJ	Spring, Deck 2 Playback Arm	AB
086	MSPRC0231AFFJ	Spring, Solenoid	AB	142	LX-WZ9069AFZZ	Washer, 4mm Dia	AA
087	MSPRC0248AFFJ	Spring, Sensor Lever	AB	143	LX-WZ9070AFZZ	Washer, 3mm Dia	AA
088	MSPRD0376AFFJ	Spring, Over Stroke	AB	144	LANGF0645AFFW	Bracket, Main Chassis Strengthen	AC
089	MSPRD0312AFFJ	Spring, P.A.D. Lock Lever	AB	145	LANGF0646AFFW	Bracket, Motor Retaining	AD
090	MSPRD0359AFFJ	Spring, Pinch Roller	AB	146	LCHSM0384AFZZ	Bracket Strengthen Second Chassis (Deck 1)	—
091	MSPRD0315AFFJ	Spring, Record Sensor Lever	AB	<b>MISCELLANEOUS</b>			
092	MSPRD0316AFFJ	Spring, Fast Forward/ Rewind Release	AB	201	GCAB-1086AFSA	Front Cabinet Assembly	BG
093	MSPRD0318AFFJ	Spring, Pause Cam	AB	201-1	GCABA1605AFSA	Front Cabinet	BE
094	MSPRD0335AFFJ	Spring, Sub Chassis Lock	AB	201-2	HDECQ0134AFSA	Decoration Plate, Built-in Microphone	AD
095	MSPRD0344AFFJ	Detent Spring, Tape Operation Selector Lever	AA	201-3	HPNLC1330AFSA	Operation Panel, Front	AM
096	MSPRD0348AFFJ	Spring, Pinch Roller Return	AA	201-4	HPNLD1201AFSA	Window, Dial	AH
097	MSPRD0349AFFJ	Spring, P.A.D. Gear	AB	202	GCABB1578AFSA	Rear Cabinet	BA
098	MSPRP0283AFFJ	Plate Spring, Sub Chassis Retainer	AB	203	GFTAB1122AFSA	Lid, Battery Compartment	AE
099	MSPRP0252AFFJ	Spring, Cassette Retainer	AB	204	GFTAC1153AFSA	Cassette Compartment	AK
100	MSPRP0269AFFJ	Plate Spring, Deck 1 Key Retainer	AB	205	GFTAC1154AFSA	Plate, Transparent, Cassette Compartment	AH
101	MSPRD0270AFFJ	Plate Spring, Deck 2 Key Retainer	AA	206	HBDGB1058AFSA	SHARP Badge	AF
102	MSPRT0739AFFJ	Spring, Record Prevention Lever	AB	207	HBDGS1052AFSA	Double Cassette Badge	AD
103	MSPRT0740AFFJ	Spring, Auto Stop Control Lever	AB	208	HDALM0330AFSA	Plate, Dial	AM
104	MSPRT0741AFFJ	Spring, Brake Lever	AB	209	HDAP-0190AFSA	Back Plate, Dial	AE
105	MSPRT0743AFFJ	Spring, Brake Release Lever	AB	210	HDECA0473AFSA	Decoration Plate, Cassette Compartment	AD
106	MSPRT0744AFFJ	Spring, Cassette Lock Lever	AB	211	HDECP0063AFSA	Mirror, Cassette Compartment	AB
107	MSPRT0745AFFJ	Spring, Deck 1 Pause Lever	AB	212	HDECQ0135AFSA	Decoration Plate, Cassette Compartment	AD
108	MSPRT0746AFFJ	Spring, Playback Key Lever	AB	213	HDECQ0146AFSA	Decoration Plate, Deck 1 Cassette Compartment	AE
109	MSPRT0747AFFJ	Spring, Sub Chassis Return	AB	214	HDECQ0147AFSA	Decoration Plate, Deck 2 Cassette Compartment	AE
110	MSPRT0762AFFJ	Spring, Tape Operation Selector Lever	AA	215	HDECQ0144AFSA	Scale, Cassette Compartment	AF
111	MSPRT0763AFFJ	Spring, Record Switch Lever	AA	216	HGRL-1073AFSA	Decoration Grill, Speakers	AN
112	MSPRT0764AFFJ	Spring, Over Stroke Lever	AA	217	HINDP0326AFSA	Label, Warning	AC
113	NBALS0006AGFJ	Steel Ball, 2mm Dia	AA	218	HPNC-0138AFSA	Punching Metal	AU
114	NBLTH0076AFZZ	Belt, Flywheel Drive	AC	219	HINDP0928AFSA	Label, Specifications	AB
115	NBLTK0184AFZZ	Belt, Playback	AB				

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE			
220	HSSND0277AFSB	Pointer	AD	270	PFLT-0127AF00	Felt, Battery Compartment	AA			
221	JHND41054AFSA	Handle	AW	271	PGUMM0144AF00	Gum, Punching Metal Retainer	AA			
222	JKNBK0225AFSA	Knob, Volume Control	AF	272	PRDAR0252AFZZ	Heat Sink	AG			
223	JKNBK0226AFSA	Knob, Echo/Mic. Fader/Tape Fader/Bass Tone Control/Treble Tone Control/Balance Control	AE	△	QACCZ0051AF00	AC Supply Cord	AH			
224	JKNBK0227AFSA	Knob, Recording Level Control (Large)	AE	274	QACCL0050AF00	AC Supply Cord	AM			
225	JKNBK0228AFSA	Knob, Recording Level Control (Small)	AE		QANTR0116AFZZ	FM/SW2/SW1 Telescopic Aerial	AN			
226	JKNBK0229AFSA	Knob, Super Woofer Sound	AC		CNP702,802	QCNCM0402SGZZ	Plug, 4 Pin	AB		
227	JKNBM0392AFSA	Knob, Function Selector/Recording Mode Selector/Dubbing Switch/Tape Selector/Super Noise Reduction System Switch/Meter Indication Selector/FM Mode Mute Switch/Mic. Mixing/Loudness	AD		CNP803,501					
228	JKNBM0393AFSA	Knob, Tape Operation Mode Selector	AE		CNP703	QCNCM0503SGZZ	Plug, 5 Pin	AC		
229	JKNBM0394AFSA	Knob, Power Switch	AE		CNP801	QCNCM0705SGZZ	Plug, 7 Pin	AC		
230	JKNBN0480AFSA	Knob, Tuning Control	AL		CNP804	QCNCM0958AFZZ	Plug, 2 Pin	AB		
231	JKNBZ0205AFSA	Knob, APLD Input Button	AK		CNP1	QCNCM1001AGZZ	Plug, 10 Pin	AC		
232	KCOUB0108AFZZ	Digital Tape Counter	AK		CNP901	QCNCM131BAFZZ	Plug, 2 Pin	AC		
233	LANGK0259AFFW	Bracket, Lever Retainer	AA		CNP701,805	QCNCM136CAFZZ	Plug, 3 Pin	AB		
234	LANGK0260AFFW	Bracket, Jack Retaining	AB		CNP102	QCNCM583BAFZZ	Plug, 2 Pin	AA		
235	LANGQ0815AFFW	Terminal, Junction	AA		CNP101	QCNCM584CAFZZ	Plug, 3Pin	AA		
236	LANGT1018AFFW	Bracket, P.A. Board Retaining	AC		CNP103	QCNCM585DAFZZ	Plug, 4 Pin	AB		
237	LHLDF1247AFZZ	Main Frame	AT		CNS101	QCNCM1535AFZZ	Socket, 3 Pin with Wire Leads	AF		
●237-1		Main Frame Assembly			CNS103	QCNCM0997AFZZ	Socket, 4 Pin with Wire Leads	AG		
238	LHLDF1248AFZZ	Sub Frame	AL		CNS102	QCNCM0998AFZZ	Socket, 2 Pin with Wire Leads	AE		
239	LHLQ1052AFZZ	Holder, Power Switch	AE		CNS803	QCNCM0999AFZZ	Socket, 4 Pin with Wire Leads	AE		
240	LHLDW1068AFZZ	Nylon Band, 100mm	AA		CNS802	QCAW-1000AFZZ	Socket, 4 Pin with Wire Leads	AF		
241	LHLDW1072AFZZ	Wire Holder, 11.5mm Dia	AB			QCNCM1002AFZZ	Jumper, 3 Leads, 460mm	AC		
242	LHLDW1075AFZZ	Nylon Band, 60mm Dia	AA			QCNCM1004AFZZ	Jumper, 5 Leads, 320mm	AC		
243	LHLDW9003CEZZ	Wire Holder, 45mm	AA			QCNCM1005AFZZ	Jumper, 5 Leads, 80mm	AB		
244	LHLDX1054AFSA	Guide, Cassette Compartment	AG			QCNCM1006AFZZ	Jumper, 3 Leads, 80mm	AB		
245	LHLZ1125AFZZ	Holder, Tweeter	AD			QCNCM1008AFZZ	Jumper, 5 Leads, 500mm	AD		
246	LHLZ1149AFZZ	Holder, L.E.D.	AC			QCNCM1009AFZZ	Jumper, 7 Leads, 60mm	AB		
247	LHLZ1150AFZZ	Holder, L.E.D.	AC			QCNCM1031AFZZ	Jumper, 4 Leads, 260mm	AC		
249	LX-CZ0002AFZZ	Screw, Cabinet Retaining	AB			QCNCM1032AFZZ	Jumper, 4 Leads, 520mm	AD		
250	MLEVP0291AFZZ	Lever, Record/Playback Selector	AC			QCNCM1036AFZZ	Jumper, 3 Leads, 60mm	AB		
251	MLEVP0292AFZZ	Lever, Cassette Compartment Lock	AC			QCNCM1037AFZZ	Jumper, 5 Leads, 60mm	AB		
252	MLEVP0296AFZZ	Lever, Tape Operation Selector	AC			QCNCM1038AFZZ	Jumper, 8 Leads, 60mm	AC		
253	MLIFP0011AFZZ	Damper, Cassette Compartment	AG		CNS501	QCNCM1228AFZZ	Socket 4 Pin/Plug 2 Pin x 2/ Plug 3 Pin/Plug 4 Pin with Wire Leads Assembly	AM		
255	MSPRC0190AFFJ	Spring, Battery Terminal	AC			QCNCM1216AFZZ	Jumper, 8 Leads, 80mm	AC		
256	MSPRC0192AFFJ	Spring, Battery Terminal	AB			CNS804	QCNCM1217AFZZ	Socket 2 Pin/Plug 2 Pin x 2/ Plug 8 Pin with Wire Leads Assembly	AN	
257	MSPRD0345AFFJ	Spring, Cassette Compartment	AB			CNS702	QCNCM1218AFZZ	Socket, 4 Pin with Wire Leads	AF	
258	MSPRT0304AFFJ	Spring, Dial Stringing	AA			CNS703	QCNCM1219AFZZ	Socket, 5 Pin with Wire Leads	AE	
259	MSPRT0765AFFJ	Spring, Cassette Compartment Lock Lever	AB			CNS1	QCNCM1220AFZZ	Socket 10 Pin/Plug 3 Pin/ Plug 4 Pin/Plug 7 Pin with Wire Leads Assembly	AL	
260	MSPRZ0056AFFJ	Spring, Cassette Compartment	AA			CNS805	QCNCM1221AFZZ	Socket, 3 Pin with Wire Leads	AE	
261	NBLTK0194AFZZ	Belt, Tape Counter Drive	AC			CNS801	QCNCM1222AFZZ	Socket, 7 Pin & Plug 3 Pin with Wire Leads	AH	
262	NDRM-0167AFZZ	Drum, Dial Stringing	AG				QCNCM1223AFZZ	Plug 2 Pin/Plug 3 Pin x 3/ Plug 7 Pin/Plug 9 Pin with Wire Leads Assembly	AQ	
●262-1		Drum Assembly					QCNCM1224AFZZ	Plug 2 Pin/Plug 3 Pin with Wire Leads Assembly	AL	
263	NPLYD0052AFZZ	Pulley, Dial Stringing	AB				QCNCM1225AFZZ	Plug 2 Pin/Plug 3 Pin with Wire Leads Assembly	AP	
264	NPLYD0054AFZZ	Pulley, Dial Stringing	AB				QCNCM1226AFZZ	Plug 2 Pin/Plug 3 Pin with Wire Leads Assembly	AF	
265	NSFTD0210AFZZ	Shaft, Tuning Control	AH				QCNCM1227AFZZ	Plug 2 Pin/Plug 3 Pin with Wire Leads Assembly	AG	
266	PCOVZ7061AF00	Cover, Battery Compartment	AC				CNS901	QCNCM1231AFZZ	Socket, 2 Pin with Wire Leads	AD
267	PCUSU0128AFZZ	Cushion, Coil	AA				CNS701	QCNCM1232AFZZ	Socket, 3 Pin with Wire Leads	AE
268	PCUSU0231AF00	Cushion, Battery Compartment	AB				△F901	QFS-C252EAGNI	Fuse, 2.5A	AE
269							△275	QFSDH2051AFZZ	Fuse Holder	AA
							276	QHWS-3001AGFN	Lug	AA
							J501	QJAKE0079AFZZ	Socket, Mixing Microphone	AE
							J802, 803, J804, 805, 277	QJAKH0074AFZZ	Socket, External Speaker (Super Woofer Sound)	AL
								QCNCM1279AFZZ	Plug 2 Pin/Plug 3 Pin with Wire Leads Assembly	AF



REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
J104	QJAKJ0089AFZZ	Socket, Deck 1 Monitor Output	AF	287	RREVA0010AFZZ	Reverberant Unit	AN
J801	QJAKJ0090AFZZ	Socket, Headphone	AF	288	RTPEK0092AFZZ	Cassette Tape	AQ
J101 (A,B)		Line Output		290	LHLDW1089AFZZ	Wire Holder	AA
J102 (A,B)		Phono/Line Input		291	LHLDW1086AFZZ	Wire Holder	AA
J102 (C)	QJAKZ0113AFZZ	Earthing Terminal	AQ		QCNW-1402AFZZ	Wiring Lead, Telescopic Aerial	AE
J103 (A,C)		External Microphone Input		292	LHLDW9002CEZZ	Wire Holder	AA
J103 (B)		Remote		293	LX-WZ3017CEFN	Lock Washer	AA
	QJUM-0009AFZZ	Jumper, 10mm	-	294	LHLDZ1146AFZZ	Holder, Built-in Microphone	AB
	QJUM-0011AFZZ	Jumper, 12.5mm	-	295	PCOVU8127AFZZ	Cover, Lamp	AC
	QJUM-0012AFZZ	Jumper, 10mm	-	296	PCUSS0146AF00	Cushion, Echo P.W. Board	AA
	QJUM-0013AFZZ	Jumper, 12.5mm	-	297	LANGA0089AFFW	Bracket, Volume P.W. Board Retainer	AB
	QJUM-0014AFZZ	Jumper, 20mm	-				
280	QLUGP0109CEFW	Lug Terminal, 17mm	AA	298	PCUSZ0012AFZZ	Shading, L.E.D.	AA
281	QLUGP0111CEFW	Lug Terminal, 13mm	AA	299	PCUSZ0013AFZZ	Shading, L.E.D.	AB
△ SW902	QSOCE0578AFZZ	Voltage Selector	AG	300	PGUMS0180AF00	Cushion, Power P.W. Board Protector	AC
△ J901, 902, SW901	QSOCZ2185AFZZ	AC Input DC 15V Input AC/DC Selector Switch	AH	301	LANGF0639AFFW	Bracket, Tuning Shaft Retaining	AA
SW104	QSW-B0132AFZZ	Switch, Dubbing	AF	302	LHLDZ1056AFZZ	Holder, Bar Antenna	AA
SW105	QSW-B0132AFZZ	Switch, Deck 1 Tape Selector	AF	303	JKNBK0245AFSA	Knob, Wave Band Selector	AE
SW301	QSW-B0132AFZZ	Switch, Super Noise Reduction System	AF	304	JKNBN0510AFSA	Knob, Fine Tuning	AG
SW502(A,B)	QSW-B0132AFZZ	Switch, Loudness	AF				
SW103(A~D)	QSW-B0133AFZZ	Switch, Recording Mode Selector	AG	307	LX-CZ0008AFZZ	Screw, Echo Retaining	AA
SW107(A~D)	QSW-B0134AFZZ	Switch, Meter Indication Selector/Battery Check	AG	308	PFLT-0130AG00	Felt, Sub Frame	AA
SW106	QSW-B0135AFZZ	Switch, Deck 2 Tape Selector	AF	309	PFLT-0462AF08	Felt, Cassette Compartment	AA
SW108(A~D)	QSW-B0135AFZZ	Switch, FM Mode/Mute	AF	310	PGUMS0190AF00	Cushion, Transformer	AA
SW102(A~D)	QSW-B0136AFZZ	Switch, Function	AG	311	LANGH0142AFFW	Bracket, Handle Strengthen	AC
SW501(A~D)	QSW-B0136AFZZ	Switch, Mixing Microphone	AG	314	PFLT-0464AF00	Felt, Air Duct	AA
SW712	QSW-F0116AFZZ	Switch, Editing	AD	316	LHLDW1073AFZZ	Wire Holder	AA
SW801	QSW-F0132AFZZ	Switch, Power	AD	317	LHLDW1059AFZZ	Wire Holder	AA
SW701	QSW-F0137AFZZ	Switch, Deck 1 Main C	AE	318	LANGF0658AFFW	Bracket, Switch	AA
SW702	QSW-F0137AFZZ	Switch, Deck 2 Main C	AE	319	PFLT-0339AF00	Felt	AA
SW705	QSW-F0137AFZZ	Switch, Deck 1 APLD	AE	320	PGIDF0053AF00	Felt, Transformer	AC
SW713	QSW-F0137AFZZ	Switch, Pause	AE	321	PGUMS0194AF00	Cushion, Transformer	AA
SW710	QSW-F0159AFZZ	Switch, Deck 1 Main A	AE	322	LANGF0657AFFW	Bracket, Switch P.W. Board Strengthen	AC
SW711	QSW-F0159AFZZ	Switch, Deck 2 Main A	AE				
SW703	QSW-F0160AFZZ	Switch, Deck 1 Main B	AE		SPAKA0745AFZZ	Packing Add, Lower Side	AH
SW704	QSW-F0160AFZZ	Switch, Deck 2 Main B	AE		SPAKA0746AFZZ	Packing Add, Upper Side	AH
SW707	QSW-F0162AFZZ	Switch, Deck 1 APLD Cut	AE		SPAKC1759AFZZ	Packing Case	AR
SW601	QSW-K0050AFZZ	Switch, APLD Input	AC		SPAKX0419AFZZ	Cushion, Packing (Punching Metal)	AD
SW602	QSW-K0050AFZZ	Switch, APLD Input	AC		SPAKX0425AFZZ	Cushion, Packing (Back)	AF
SW709(A,B)	QSW-P0295AFZZ	Switch, Tape Operation Mode Selector	AE		SPAKP0174AFZZ	Bag, Unit	AH
SW1(A~H)	QSW-R0189AFZZ	Switch, Wave-Band Selector	AQ		SSAKH0024AGZZ	Bag, Operation Manual	AA
SW806 (A)	QSW-S0267AFZZ	Switch, Beat Cancell	AD		TINSZ0619AFZZ	Operation Manual	AP
SW401(A,B)	QSW-S0309AFZZ	Switch, Phono/Line Input Selector	AF	323	TLABH0134AFZZ	Label, Antenna	AA
SW101(A~L)	QSW-S0310AFZZ	Switch, Record/Playback	AG		TLABZ0155AFZZ	Caution Label	AA
282	QTANB9112AFNN	Terminal, Battery	AB	SP1, 3	VSP0050TB344A	Speaker, Tweeter	AN
283	QTANN0253AFZZ	Terminal, External FM Aerial	AE	SP2, 4	VSP0016PB524A	Speaker, Woofer	AV
PL201	RLMPM0089AFZZ	Lamp, Meter/Dial Indicator	AE	SP5, 6	VSP0016WB704A	Speaker, Super Woofer	AW
286	RMICC0080AFZZ	Built-in Microphone	AF				
ME201,202	RMTRL0206AFZZ	Meter, VU/Battery/Tuning	AW		TGANE1121AFZZ	Warranty Card	AC
△	QPLGA0251AFZZ	Adaptor, AC Plug	AE		UBATU0003AGZZ	Battery	AE
					TMAPC0791AFZZ	Schematic Diagram	-
				324	PCUSF0025AFZZ	Cushion, Dial Stringing	AA
				325	LANGK0347AFZZ	Bracket, Dial Stringing	AC
				326	PCUSF0024AFZZ	Cushion, Dial Stringing	AA
				327	LX-WZ7056AFZZ	Washer	AA

**AC POWER SUPPLY CORD**

QACCL0050AF00	QACCZ0051AF00
 A line drawing of an AC power supply cord. It features a standard three-pronged AC power plug on the left end and a rectangular connector on the right end. The cord is shown in a looped configuration.	 A line drawing of an AC power supply cord. It features a two-pronged AC power plug on the left end and a rectangular connector on the right end. The cord is shown in a looped configuration.

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