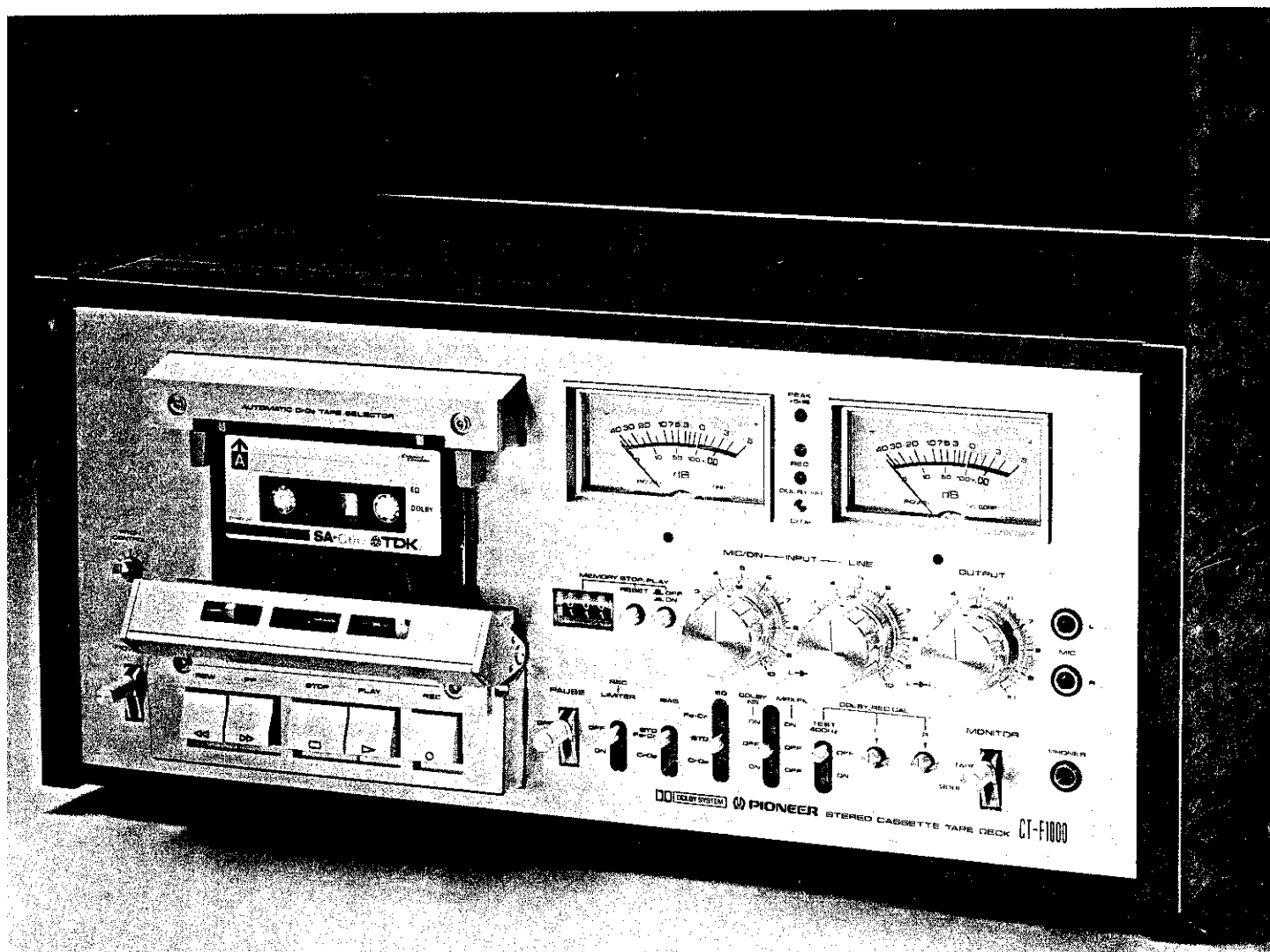


3-HEAD CASSETTE TAPE DECK

CT-F1000

SERVICE MANUAL



MODEL CT-F1000 COMES IN FIVE VERSIONS DISTINGUISHED AS FOLLOWS:

Type	Voltage	Remarks
KU	120V only	U.S.A. model
KC	120V only	Canada model
HG	220V and 240V (Switchable)	Europe or Oceania model
D	120V, 220V and 240V (Switchable)	General export model
D/G	120V, 220V and 240V (Switchable)	U.S. Military model

NOTICE:

- This service manual is applicable to the KU and KC types.
- As to the HG, D and D/G types, please refer to page 83.

CONTENTS

- The circuit descriptions and adjustments are issued separately.
- When ordering spare parts and repairing, please confirm the "type" which is described on the packing case because several parts are not interchangeable.
- The wooden case shown in cover is applicable only for the U.S.A. model optionally.

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1. SPECIFICATIONS

Systems	Compact cassette, 2-channel stereo					
Motors	Electronically-controlled DC motor (built-in generator) x 1; (4.8cm/s speed drive), DC torque motor x 1; (Fast forward and rewind drive)					
Heads	<table border="0"> <tr> <td>“Uni-crystal ferrite” recording head x 1</td> <td rowspan="2">} Combination type</td> </tr> <tr> <td>“Uni-crystal ferrite” playback head x 1</td> </tr> <tr> <td></td> <td>Ferrite erasing head x 1</td> </tr> </table>	“Uni-crystal ferrite” recording head x 1	} Combination type	“Uni-crystal ferrite” playback head x 1		Ferrite erasing head x 1
“Uni-crystal ferrite” recording head x 1	} Combination type					
“Uni-crystal ferrite” playback head x 1						
	Ferrite erasing head x 1					
Operation	Solenoid drive, direct switchable and timer play presettable					
Fast Winding Time	Approximately 65 seconds (C-60 tape)					
Wow and Flutter	No more than 0.05% (WRMS)					
Frequency Response	Standard, LH tapes: 20 to 17,000Hz (30 to 15,000Hz ± 3 dB) Ferri-chromium tape: 20 to 19,000Hz (30 to 17,000Hz ± 3 dB) Chromium dioxide tape: 20 to 19,000Hz (30 to 17,000Hz ± 3 dB)					
Signal-to-Noise Ratio	Dolby OFF: More than 54dB Dolby ON: More than 64dB (over 5kHz, standard, LH tapes) (When chromium dioxide tape is used, signal-to-noise ratio is further improved by 4.5dB over 5kHz)					
Harmonic Distortion	No more than 1.3% (0dB)					
Inputs (Sensitivity/Maximum allowable input/Impedance)	MIC (L,R); 0.22mV/100mV/30 kilohms, 6mm diam. jack (Reference MIC impedance; 250 ohms to 30 kilohms) LINE x 4 (2-channel stereo, Parallel connection system); 60mV/25V/100 kilohms REC/PLAY x 1; Input & output, 10mV/5V/2.2 kilohms 5p jack (DIN standard)					
Outputs (Reference level/Maximum level/Load impedance)	LINE x 4; 450mV/680mV/50 kilohms (2-channel stereo, Parallel connection system) REC/PLAY x 1; 450mV/680mV/50 kilohms 5p jack (DIN standard) HEADPHONES x 1; 62mV/93mV/8 ohms, 6mm diam. jack					
Semiconductors						
Amplifier Section	Transistors x 98 (including FETs x 4), Diodes x 96 (including Zener Diodes x 7, LEDs x 4), ICs x 4					
Motor control Section	Transistors x 3, Diodes x 2, IC x 1					
Subfunctions	<ul style="list-style-type: none"> • Dolby system (ON-OFF) • Dolby calibration (built-in 400Hz test oscillator) • MPX Filter (ON-OFF) • Tape Selector (STD/FeCr/CrO₂) Automatic tape selector for CrO₂ tape, and Manual tape selector of independently BIAS/EQ • Cassette compartment illumination • Mixing control used for MIC and LINE input • Tape counter with rewind Memory switch (ON-OFF) for starting point [REW-STOP/PLAY (REC)] 					

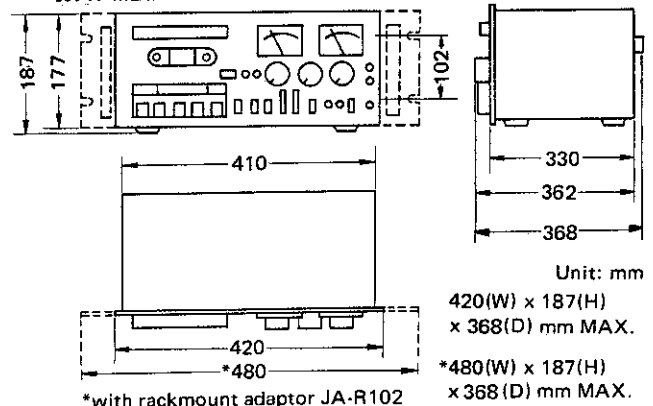
- Recording limiter (ON-OFF)
- Wide scale level meter (-40 to +5dB)
- Recording Peak level indicator (Lightable level; +5dB)
- Pitch control (more than $\pm 6\%$ of rated tape speed)
- Level Memory Marker for inputs and output
- MIC, LINE input and output level controls knob with 41 click step

Power Requirements	AC 120V, 220V, 240V (switchable) 50/60Hz (D, D/G model) or AC 220V, 240V (switchable) 50/60Hz (HG model)
Power Consumption	38 watts
Dimensions	420(W) x 187(H) x 368(D)mm Max. 16-9/16 x 7-3/8 x 14-1/2 in
Weight	11.8kg/26 lb (Without package) 14.0kg/32 lb 10 oz (With package)
Furnished parts	Stereo connecting cord with pin plugs x 2 Head cleaning kit x 1 Fuse (D, D/G model only) x 1 (120V; 1.2A or 220V, 240V 800mA) Operating instructions x 1

NOTE:
Specifications and the design subject to possible modification without notice due to improvements.

NOTES:

1. Reference Tapes: Standard & LH: DIN 45513/BLATT6 or equiv.
: CrO₂: DIN 45513/BLATT7 (CrO₂) or equiv.
2. Reference Recording Level: Meter 0dB indicating level (160 nwb/m magnetic level = Philips cassette reference level)
3. Reference Signal: 333Hz
4. Wow & Flutter: • JIS [3kHz, with acoustic compensation (weighted), rms value] • DIN [3150Hz, with acoustic compensation (weighted) PEAK value]; DIN 45507
5. Frequency Response: • Measured at -20dB level, DOLBY OFF, level deviation is ± 6 dB without indication • DIN is DIN 45500
6. Signal-to-Noise Ratio: • Measured at +4dB level (250nwb/m magnetic level = DIN 45513 specified reference level), IEC A curve with acoustic compensation (weighted) • DIN is DIN 45500
7. Sensitivity: Input level (mV) required for reference recording level with input (REC) controls set to maximum.
8. Maximum Allowable Input: While decreasing settings of input (REC) level controls and increasing level at input jacks, this is the maximum input level (mV) at the point where recording amplifier output waveform becomes clipped.
9. Reference Output Level: Playback output level when meter indicates 0dB.
10. Maximum Output Level: Playback output level with respect to reference recording level when output (PLAY) level controls are set to maximum.



2. CONNECTION DIAGRAM

Connect the CT-F1000's LINE terminals to the tape terminals on the receiver (or stereo amplifier) with the accessory cords. The top terminal is for the left channel and the bottom for the right channel.

If you do not connect properly, you will hear a monotonous single-pitched hum and this will impair your recording.

Connections for playback

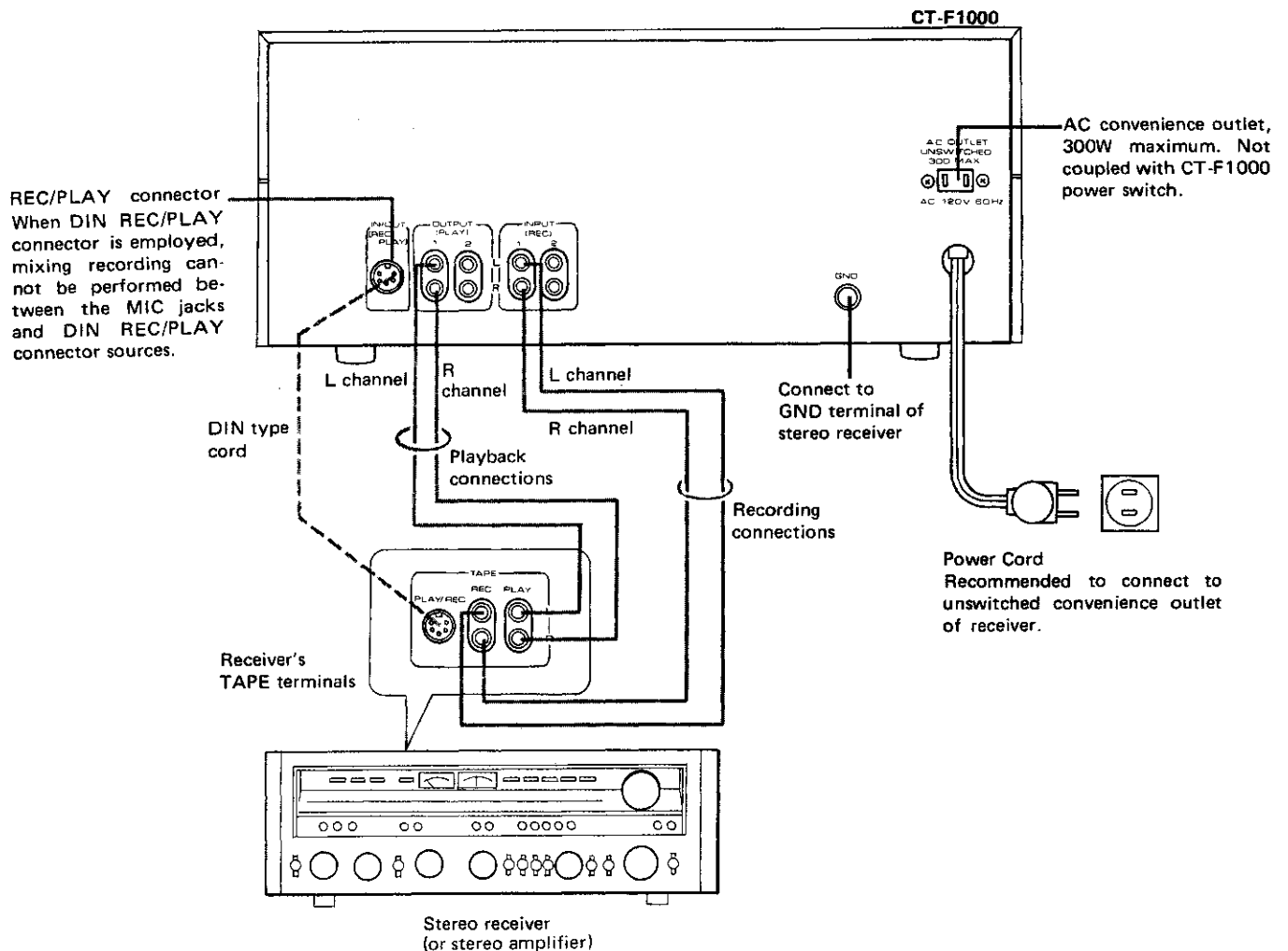
Connect the TAPE PLAY input terminals on the receiver to the CT-F1000's LINE OUTPUT terminals.

Connections for recording

Connect the receiver's TAPE REC output terminals to the CT-F1000's LINE INPUT terminals.

Using the REC/PLAY connectors

You can connect for playback and recording at the same time if you use recording/playback cords which are bought separately, as long as the receiver comes with DIN-standard recording/playback connectors. Use the MIC/DIN recording level controls to adjust the recording level. You will not be able to record the signals from the REC/PLAY connectors if you connect a microphone (or microphones) to the MIC jacks.



3. FRONT PANEL FACILITIES

POWER SWITCH

Power is supplied when this switch is set to ON, at which time the level meter lamps and the remaining tape display lamp go on.

PITCH CONTROL KNOB

You can use this to make the tape travel 6% faster or slower than the rated tape speed during playback. When this knob is set to the central position, the tape speed is a standard 4.75cm/s. Turn the knob to the left and the speed drops and the musical steps are lowered. Conversely, turn it to the right, and the speed rises and the musical steps are raised. The tape speed does not change while recording.

TAPE COUNTER

This indicates the tape running position.

COUNTER RESET BUTTON

Push this button to reset the tape counter to '000'.

MEMORY SWITCH

When this switch is set to ON, the position at which the tape counter was set to '000' is memorized during recording or playback, and the memory play and memory stop functions can then be performed.

LEVEL METERS

These meters allow you to read out the levels during recording and playback. When the MONITOR switch is set to SOURCE, they indicate the input signal level, and when set to TAPE, they indicate the playback output level.

MIC JACKS

These are the input jacks for microphone recording. The left and right channels can be used independently. Only the microphones' input signals are recorded when the REC/PLAY connector (DIN standard) on the rear panel and the MIC jacks are connected at the same time. Use microphones with an impedance ranging from 250 ohms to 30 kilohms.

MONITOR SWITCH

You can listen to the recorded signals (playback sound) if you set this to TAPE. If you set it to SOURCE, you can listen to the signals just before they are recorded (recording input). While recording, alternately select both positions and monitor your recording. Set this switch to TAPE when playing back a tape.

PHONES JACK

This is the output jack for stereo headphones. Signals selected by the MONITOR switch are available here. Use the jack when you want to monitor your recording or listen to a performance directly from the CT-F1000. The output level is adjustable.

NOTE:
Please use low impedance-type headphones.
If you use high impedance-type headphones, you may not obtain sufficient volume.

CrO₂ INDICATOR

This indicates that a chrome tape is being used. It also goes on when a cassette has not been inserted into the tape deck. This does not indicate a failure.

DOLBY NR INDICATOR

This lights up when the DOLBY NR switch is set to ON.

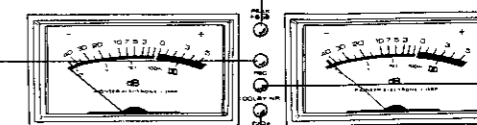
RECORDING INDICATOR (REC)

This red indicator lights up during recording.

NOTE:
Be sure to start recording only after you have checked that the recording indicator is on.

PEAK +5dB INDICATOR

This lights up when the recording level exceeds +5dB. When recording, adjust the level with the INPUT recording level (LINE, MIC/DIN) controls so that this lamp does not light up continuously.



DUST COVER

Use this cover when you are not using your tape deck and it will stop dust and dirt from entering the head section and rotating parts.

OPERATING LEVERS

- REW** ◀ (rewind): Press down to rewind tape. (Tape travels from right to left).
- FF** ▶▶ (fast forward): Press down for tape fast forward. (Tape travels from left to right).
- STOP** ■: Press down to stop the tape. This action also releases the other operating levers.
- PLAY** ▶: Press down to play back the tape. Press down together with the REC lever when recording. (Tape travels from left to right).
- REC** ● (record): Press down together with the PLAY lever when recording.

NOTE:
The operating levers will not be released if the power is turned off.

PAUSE SWITCH

The tape run is temporarily suspended if this switch is set to ON during recording or playback. When returned to OFF, however, the tape will start to run again. The PAUSE switch will not work if the tape deck is set to the REW or FF modes.

EQ SWITCH

This selects the recording equalization characteristics according to the type of tape used. Select the same position for playback as for recording according to the characteristics of the recording tape.

- Fe-Cr: For ferri-chrome tapes.
- STD: For standard and LH tapes.
- CrO₂: For chrome tapes.

NOTE:
There is no need to select the suitable position with a chrome tape provided with detection holes since the bias and equalization circuits are activated automatically.

BIAS SWITCH

This selects the recording bias current in accordance with the type of tape used for recording.

- STD, Fe-Cr: For standard tapes, LH tapes and ferri-chrome tapes.
- CrO₂: For chrome tapes.

REC LIMITER SWITCH

Set this switch to ON and record when there are high variations in the recording level which exceed the reference level, or when it is difficult to control the recording level.

DOLBY REC CAL SWITCH & CONTROLS

Use these to adjust the Dolby recording and playback levels in accordance with the type of tape you are using.

TEST 400Hz switch: When set to ON, signals are oscillated for adjusting the recording/playback level. This switch is usually set to OFF.

DOLBY REC CAL (L, R) controls: Use these controls to adjust the Dolby level.

DOLBY NR/MPX FIL SWITCH

Dolby system and multiplex filter.

Set this switch to DOLBY NR ON when recording with the Dolby system or when playing back a tape which has been recorded with the Dolby System.

Set this switch to the MPX FIL ON position when recording (Dolby) without the FM stereo broadcast pilot signal (19kHz).

ON/ON: When playback in Dolby or when recording an FM stereo broadcast in Dolby using an FM tuner with MPX pilot signal leakage.

OFF/OFF: When not recording or playback in Dolby.

ON/OFF: When playback in Dolby or when recording a program source in Dolby other than an FM stereo broadcast, or when using an FM tuner with no MPX pilot signal leakage.

MEMORY MARKER KNOB

You can use this knob to help you remember the level control settings.

OUTPUT LEVEL CONTROLS

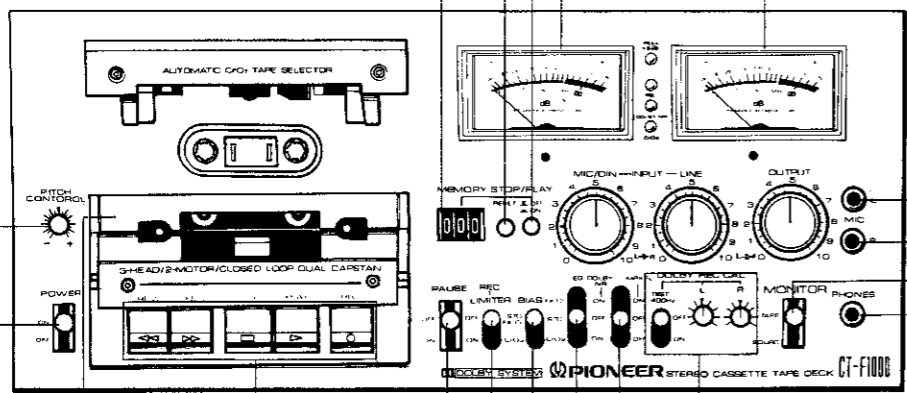
Use these controls to adjust the output level when you are playing back a tape. The level increases as the controls are turned to the right. The outer control is for the right channel, and the inner control is for the left channel.

MIC/DIN RECORDING LEVEL CONTROLS

Use these controls to adjust the recording level when you are recording with a microphone (or microphones), or when you are using the rear panel REC/PLAY connector (DIN standard). Use the outer control for the right channel and the inner control for the left channel. Input signals from both the MIC jacks and REC/PLAY connector cannot be recorded simultaneously.

LINE RECORDING LEVEL CONTROLS

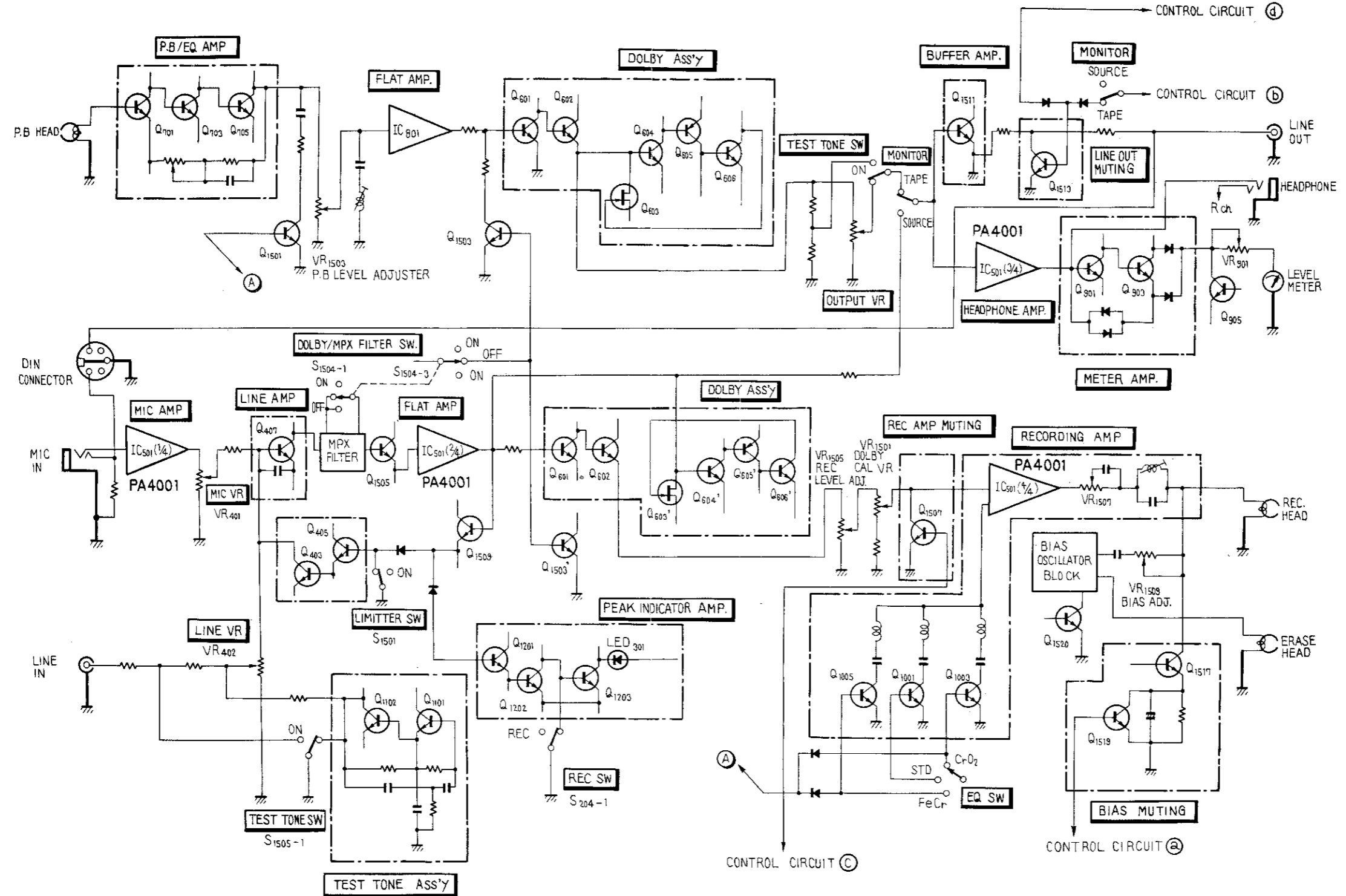
These adjust the recording input level from the LINE INPUT terminals on the rear panel. The level increases as the controls are turned to the right. The outer control is for the right channel and the inner control, for the left channel.



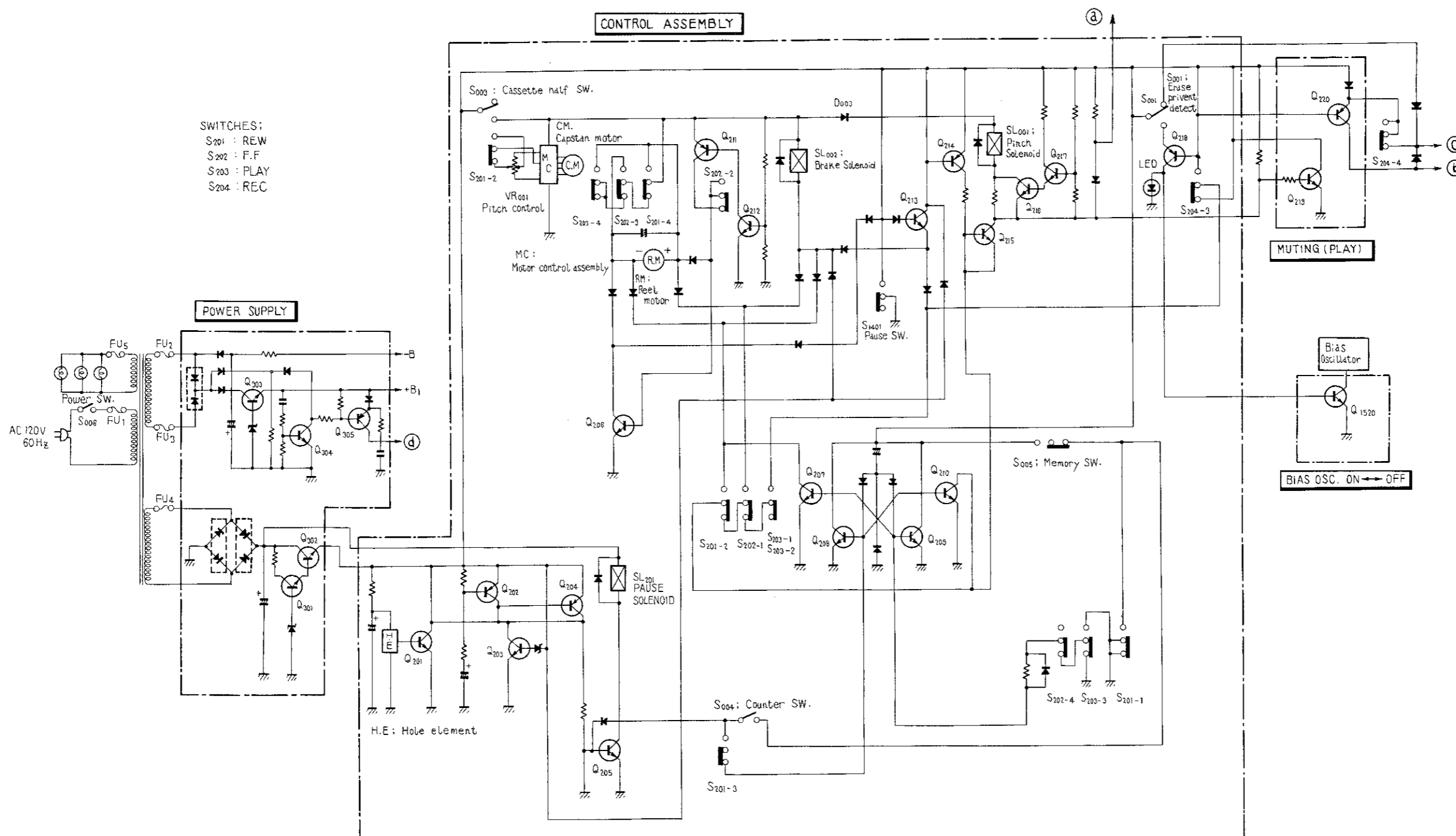
*Dolby and are trademarks of Dolby Laboratories Incorporated.

4. BLOCK DIAGRAM

Playback and Recording Routes

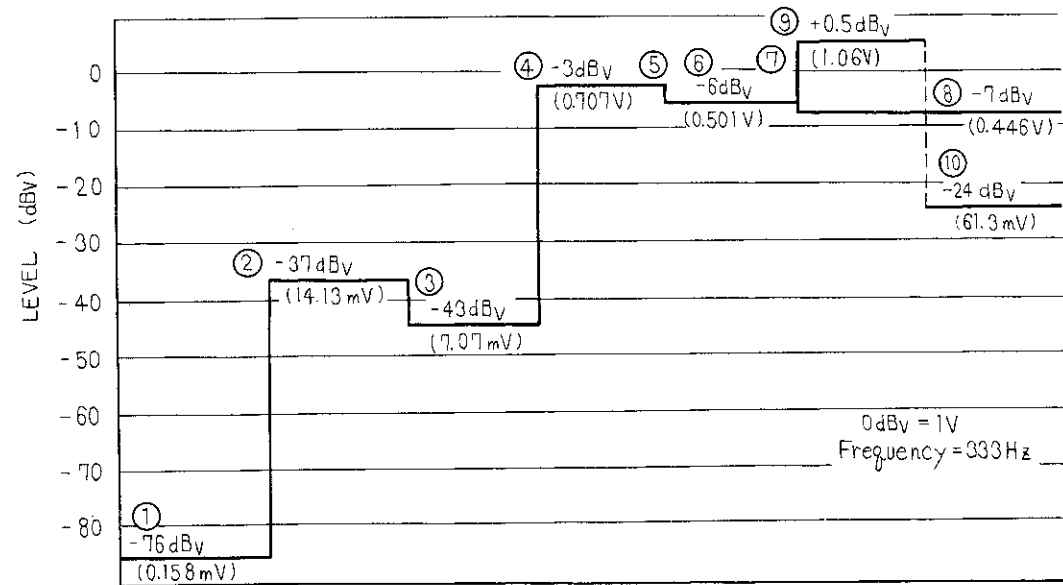
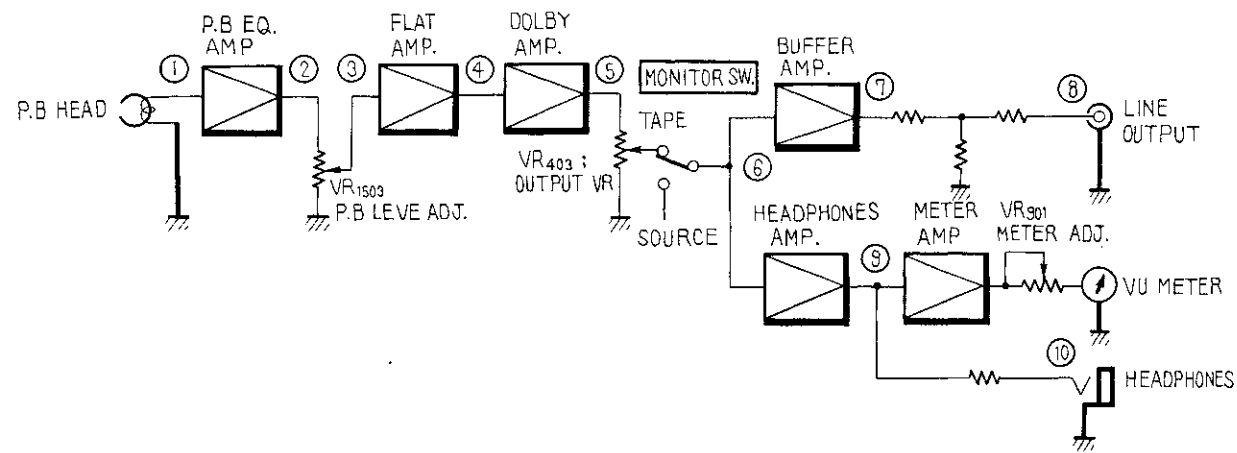


Control Function Routes

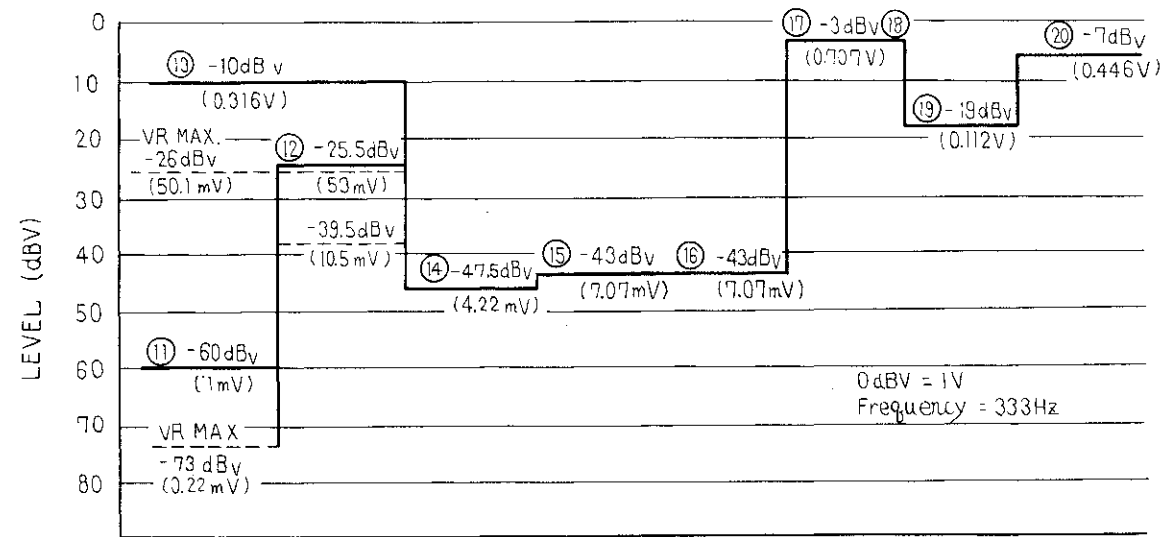
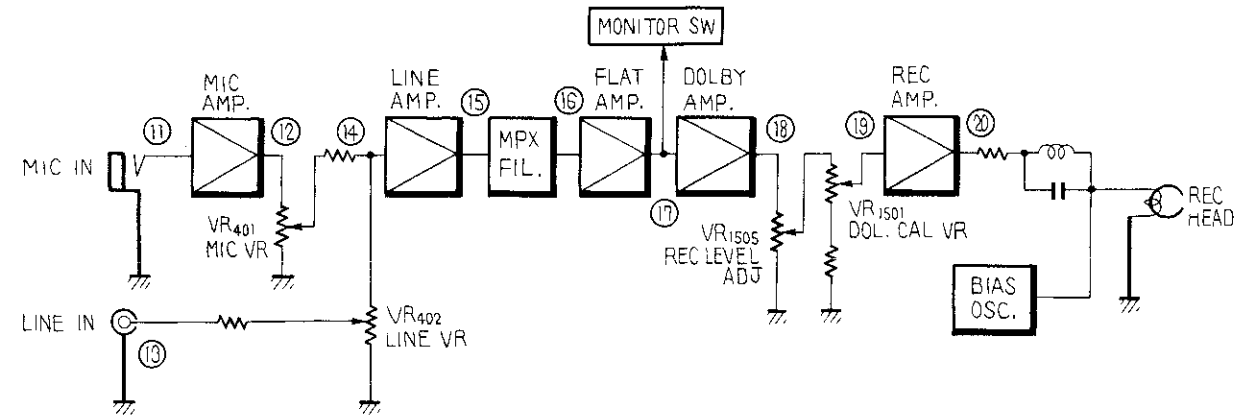


5. LEVEL DIAGRAM

PLAYBACK



RECORDING



6. DISASSEMBLY

Outer Coverings (Fig. 1)

1. First undo the 8 screws (A) securing the bonnet.
2. Then remove all front panel control knobs, and undo the 6 screws (B) securing the front panel.
3. Next undo the 6 screws (C) securing the mechanical assembly.
4. Finally undo the 5 screws (D) securing the bottom plate.

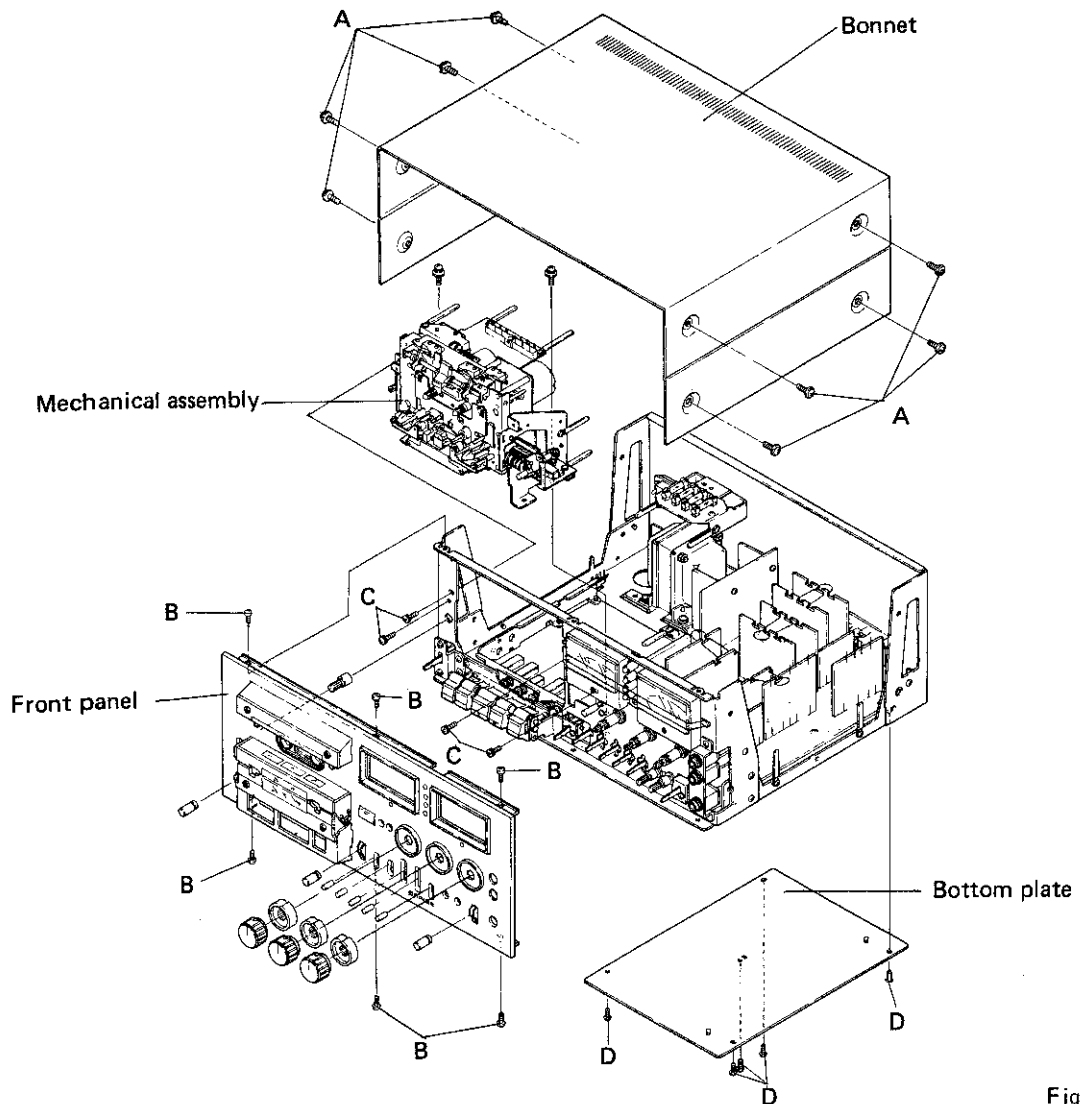


Fig. 1

Head Assembly (Fig. 2)

1. Remove the height adjuster, plus E type and polyethylene washers to release the pinch roller arm assemblies.
2. The recording/playback head and erasing head are both incorporated in the head assembly (RXA-866-0), and cannot be independently removed from the head base assembly. Note that electrical adjustments must always be performed when a new head assembly is inserted.

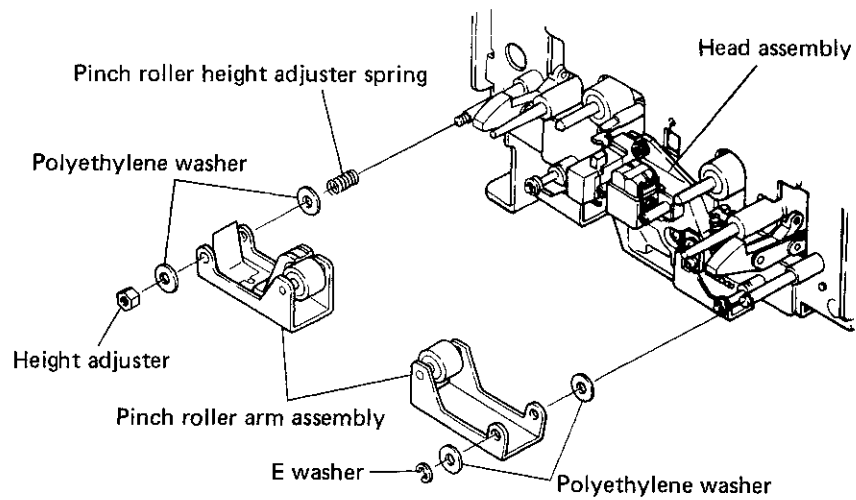


Fig. 2

Meter Lamp Replacements (Fig. 3)

1. Remove the meter cover.
2. Meter lamps are soldered into position. When replacing, be especially careful not to touch the meter needle or meter scale with the soldering iron.

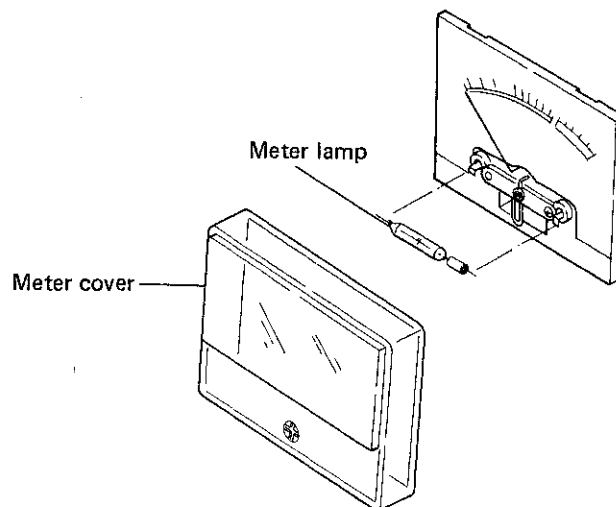


Fig. 3

Mechanical Assembly plus Sub-Assembly (Fig. 4)

1. First remove the 6 screws (G) securing the sub-assembly, and then the 2 screws (H) securing the capstan motor.
2. Undo the 3 screws (I) securing the supply reel base assembly, and the 3 screws (J) securing the take-up reel base assembly.
3. Then undo the 3 screws (K) securing the fast forward motor bracket, and the 2 screws (L) securing the fast forward motor.

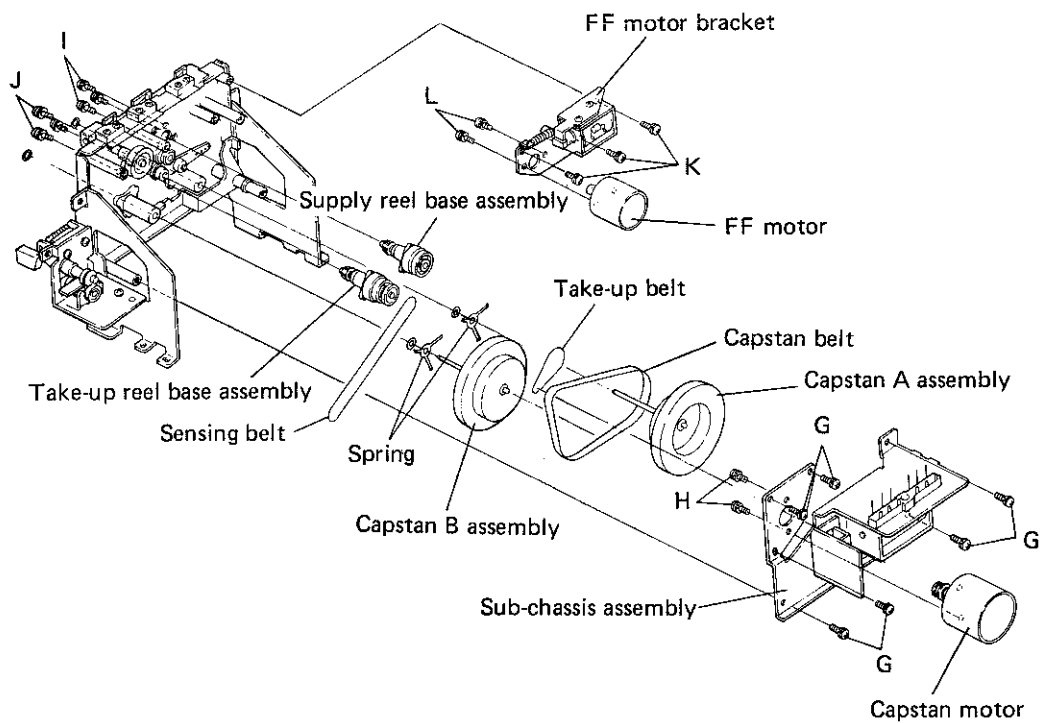
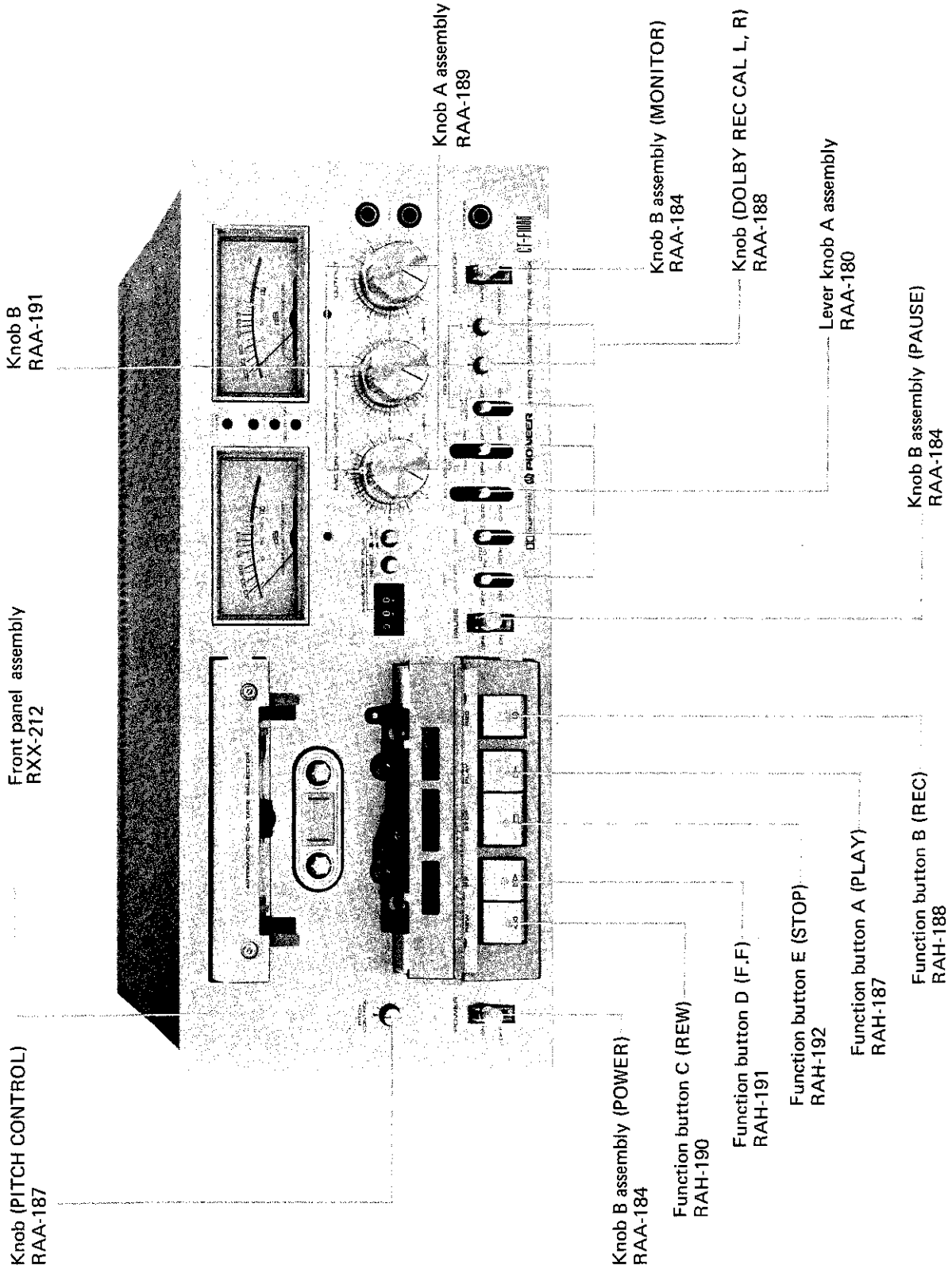


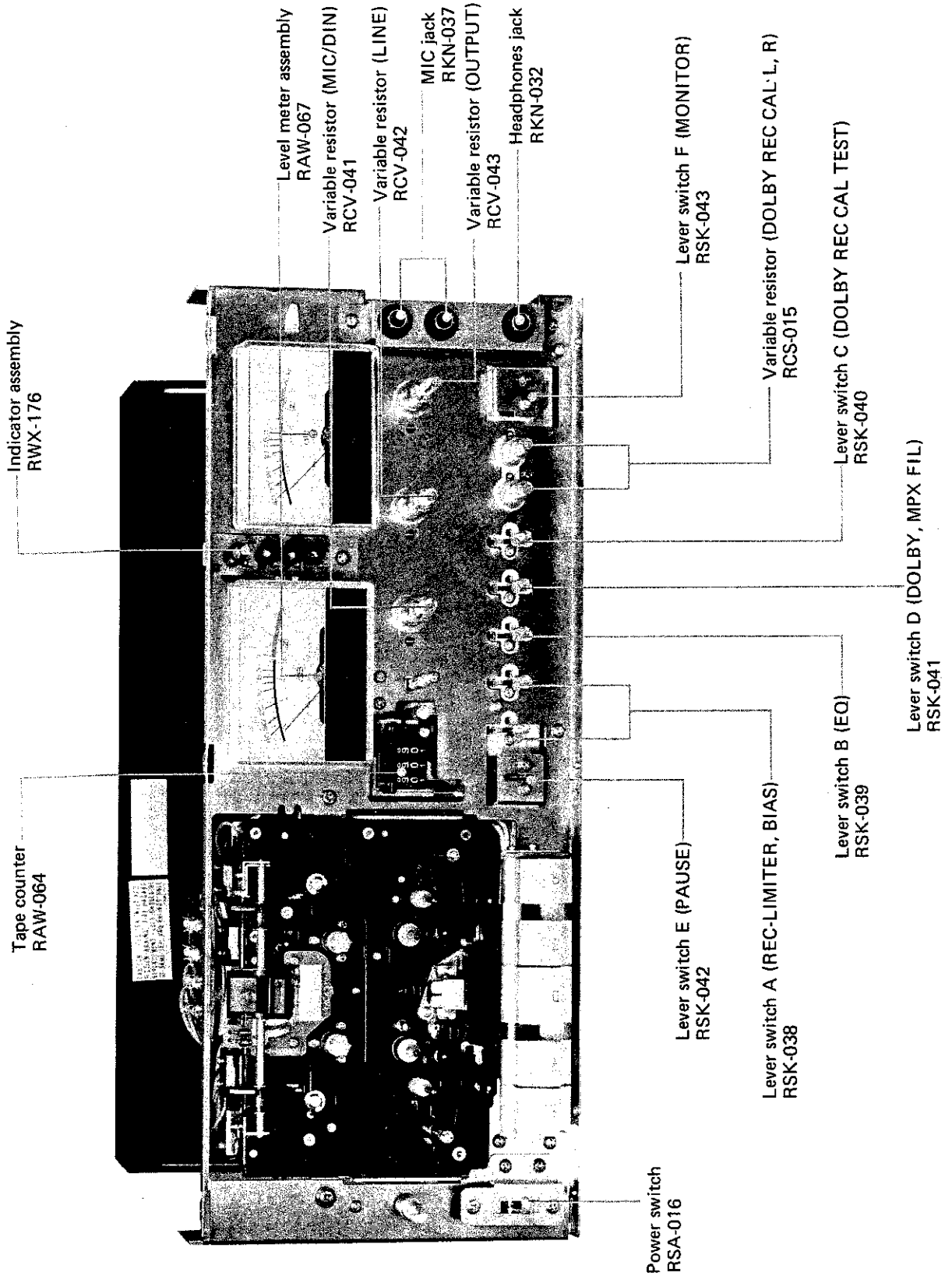
Fig. 4

7. PARTS LOCATION

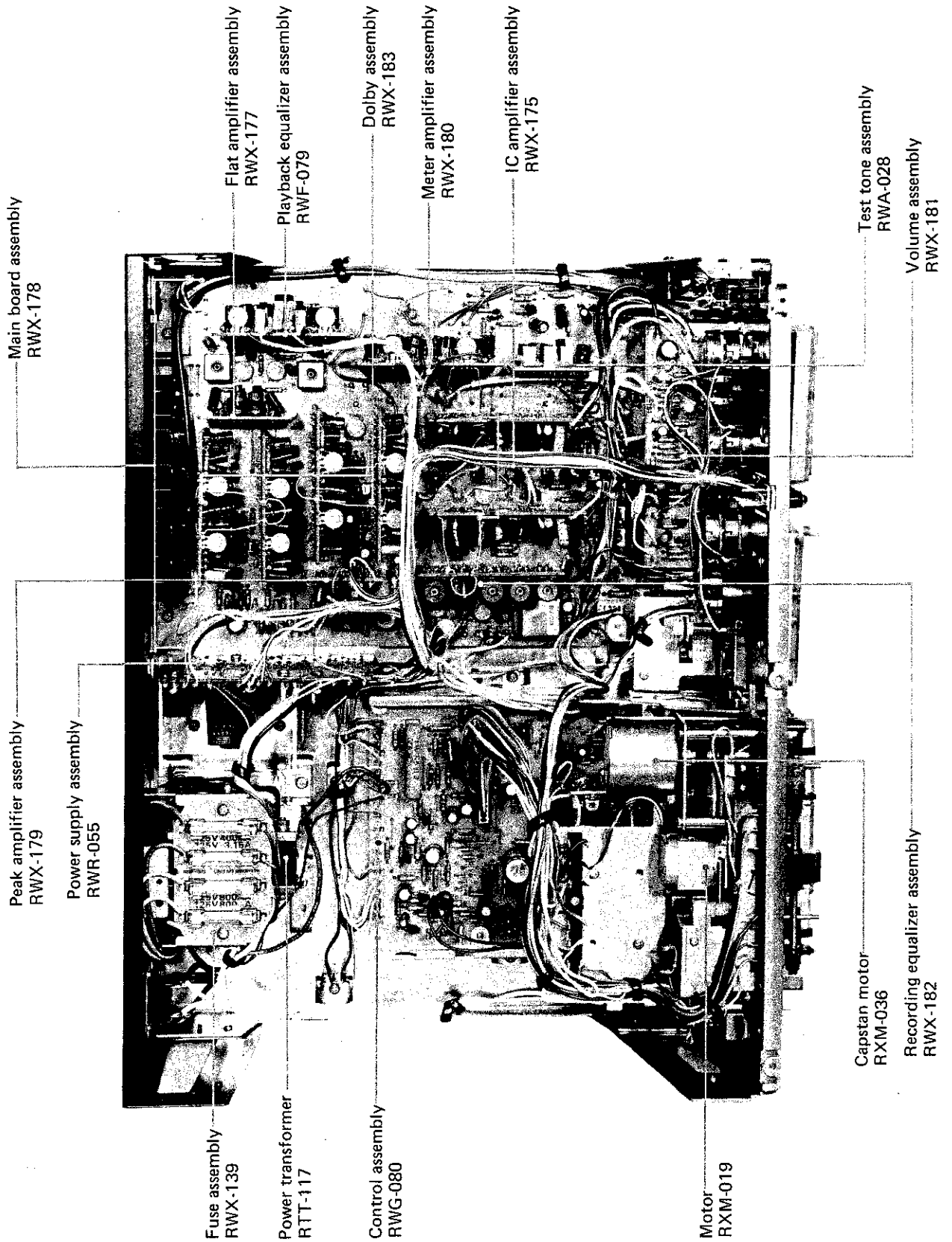
7.1 FRONT PANEL VIEW



7.2 FRONT VIEW WITH FRONT PANEL REMOVED



7.3 TOP VIEW WITH BONNET REMOVED



Main board assembly
RWX-178

Peak amplifier assembly
RWX-179

Power supply assembly
RWR-055

Fuse assembly
RWX-139

Power transformer
RTT-117

Control assembly
RWG-080

Motor
RXM-019

Flat amplifier assembly
RWX-177

Playback equalizer assembly
RWF-079

Dolby assembly
RWX-183

Meter amplifier assembly
RWX-180

IC amplifier assembly
RWX-175

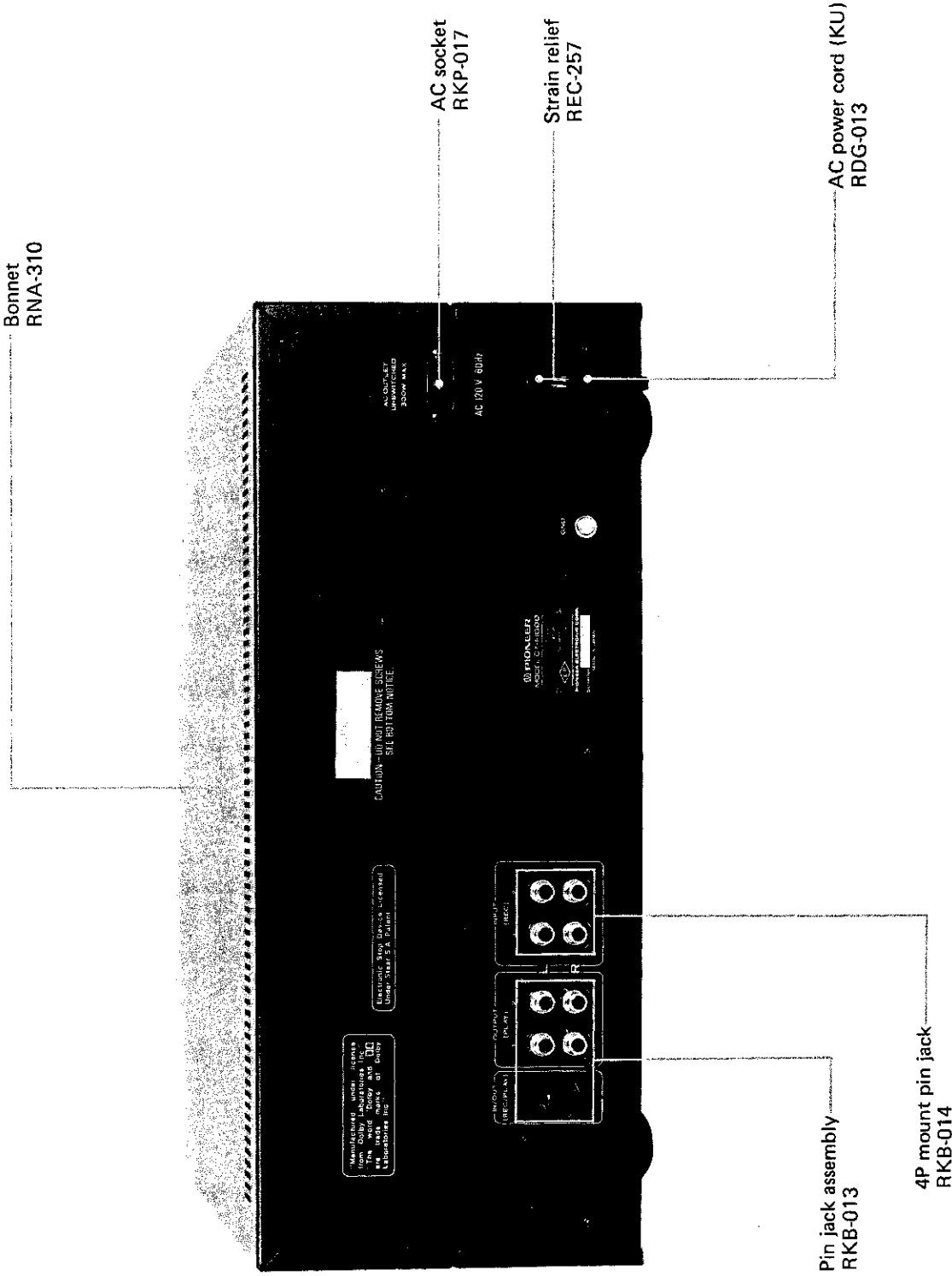
Capstan motor
RXM-036

Recording equalizer assembly
RWX-182

Test tone assembly
RWA-028

Volume assembly
RWX-181















7.4 REAR PANEL VIEW







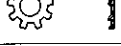

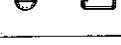


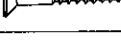
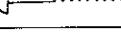


8. EXPLODED VIEWS

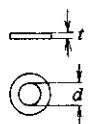
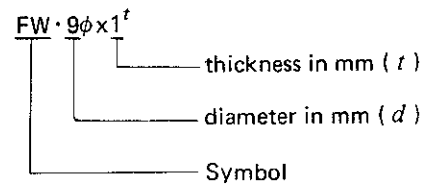
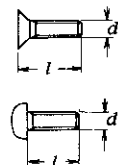
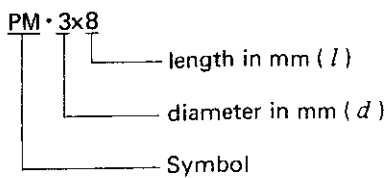
Nomenclature of Screws, Washers and Nuts

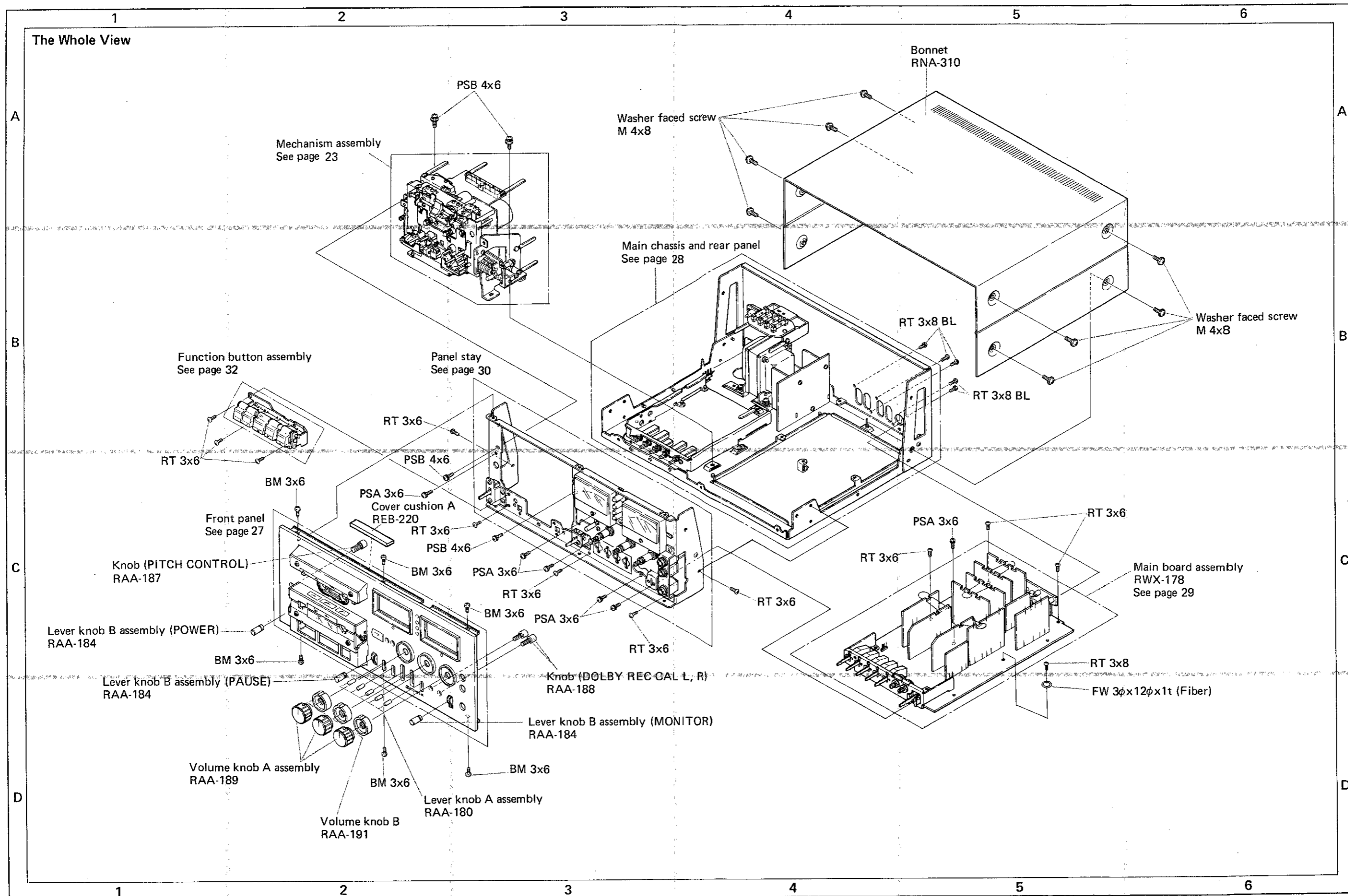
The following symbols stand for screws, washers and nuts as shown in exploded view.

Symbol	Description	Shape
RT	Brazier head tapping screw	
PT	Pan head tapping screw	
BT	Binding head tapping screw	
CT	Countersunk head tapping screw	
TT	Truss head tapping screw	
OCT	Oval countersunk head tapping screw	
PM	Pan head machine screw	
CM	Countersunk head machine screw	
OCM	Oval countersunk head machine screw	
TM	Truss head machine screw	
BM	Binding head machine screw	
PSA	Pan head screw with spring lock washer	
PSB	Pan head screw with spring lock washer and flat washer	
PSF	Pan head screw with flat washer	

Symbol	Description	Shape
EW	E type washer	
FW	Flat washer	
SW	Spring lock washer	
N	Nut	
WN	Washer faced nut	
ITW	Internal toothed lock washer	
OTW	Outernal toothed lock washer	
SC	Slotted set screw (Cone point)	
SF	Slotted set screw (Flat point)	
HS	Hexagon socket headless set screw	
OCW	Oval countersunk head wood screw	
CW	Countersunk head wood screw	
RW	Round head wood screw	

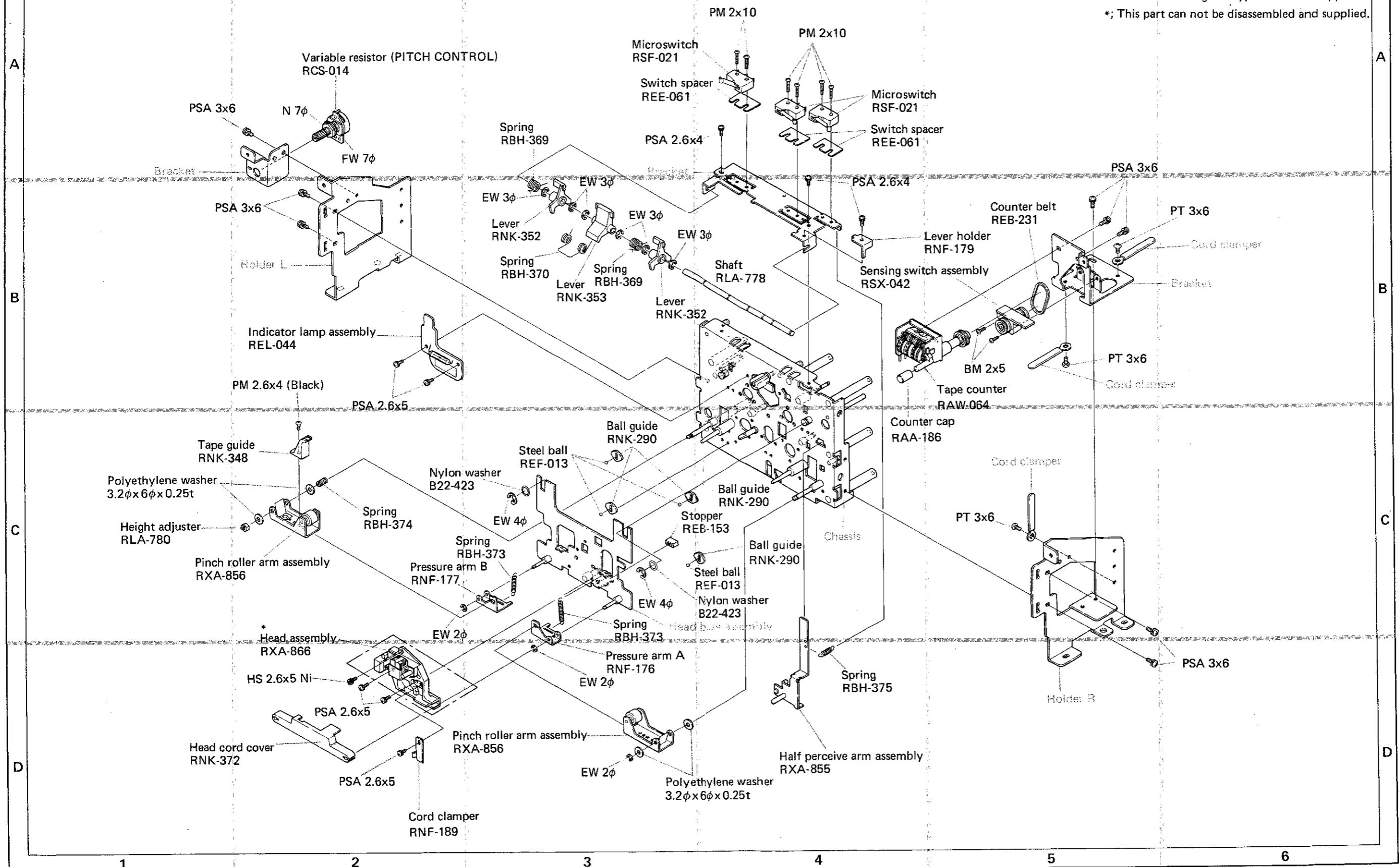
EXAMPLE





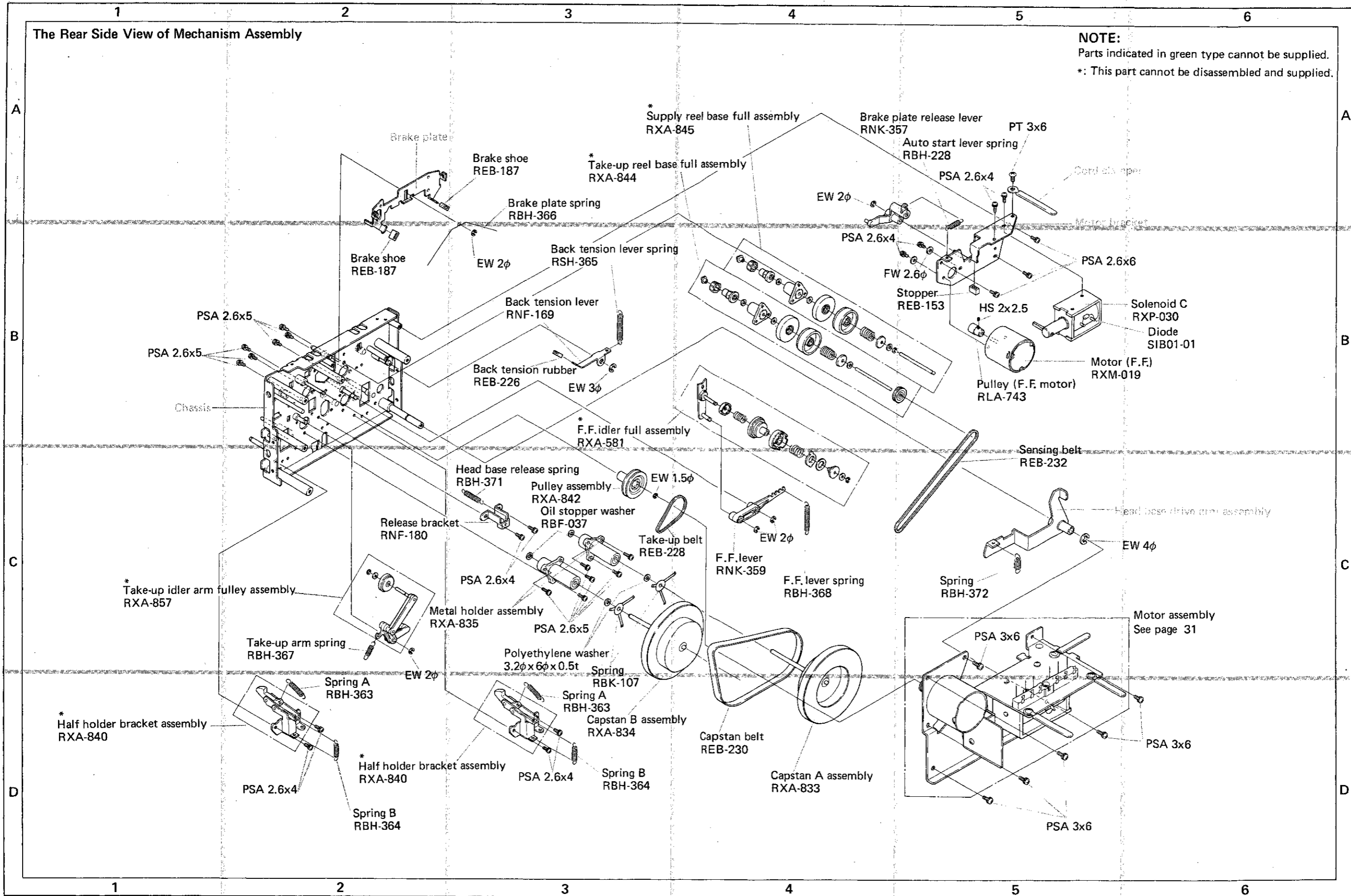
The Front Side View of Mechanism Assembly

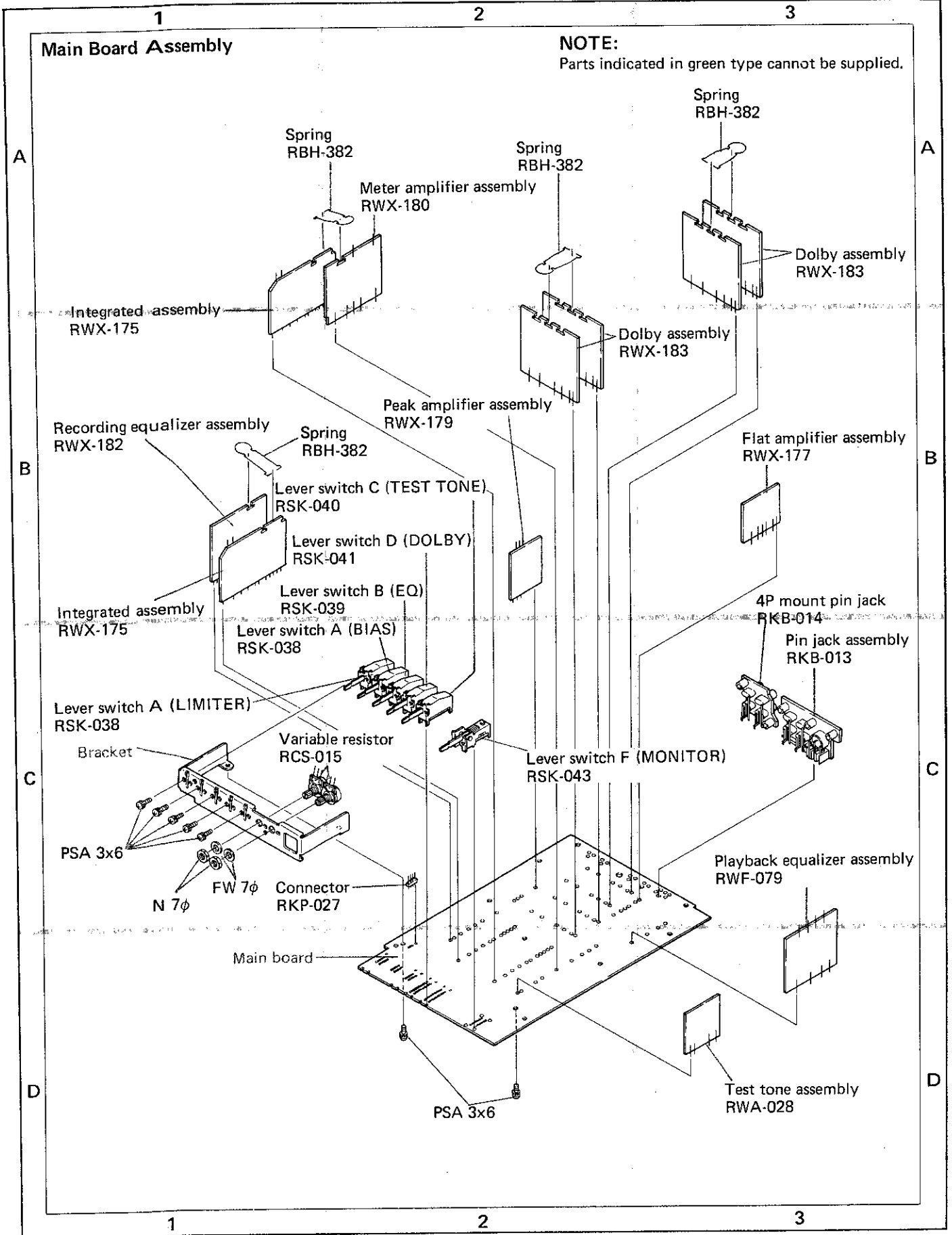
NOTE:
 Parts indicated in green type cannot be supplied.
 *; This part can not be disassembled and supplied.

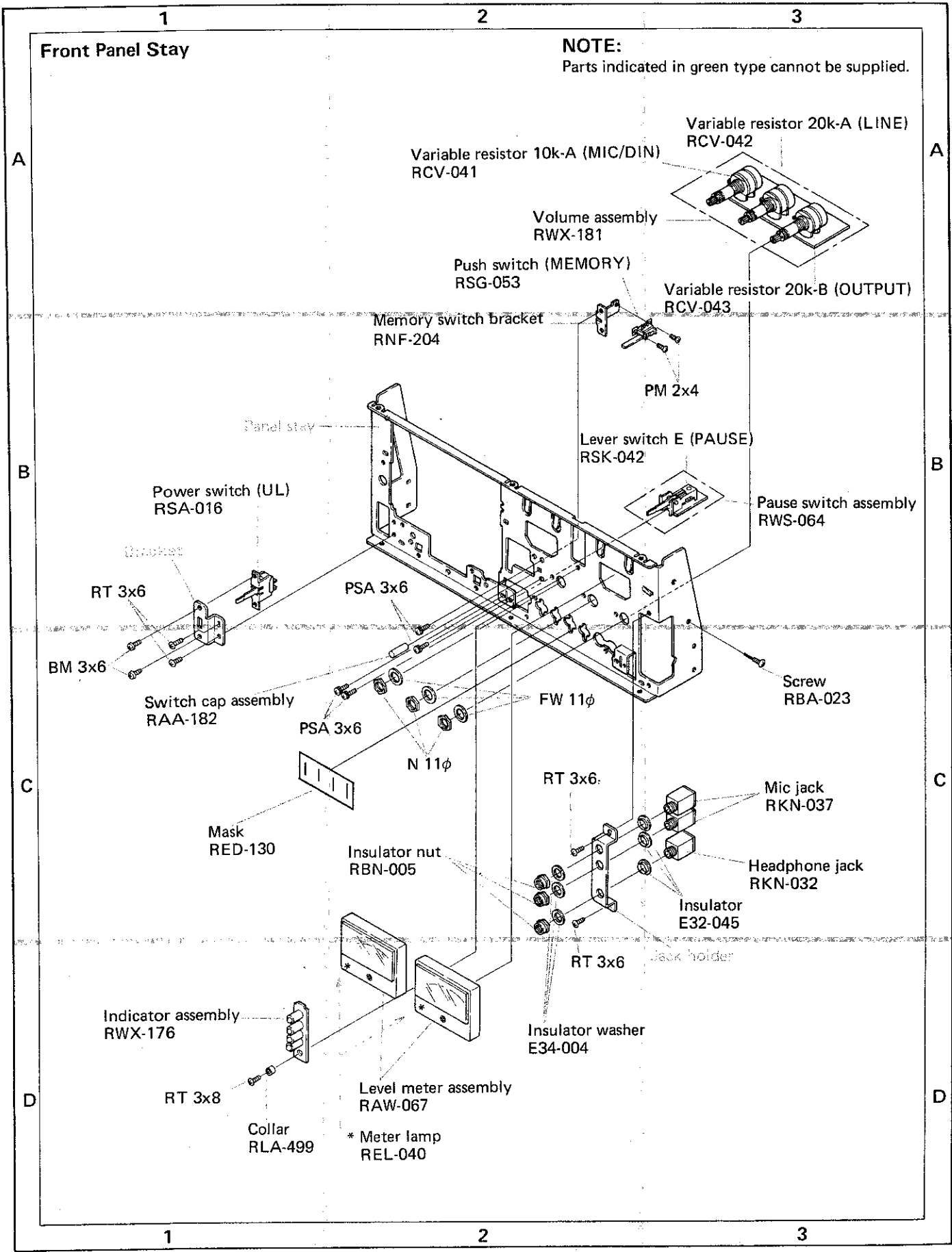


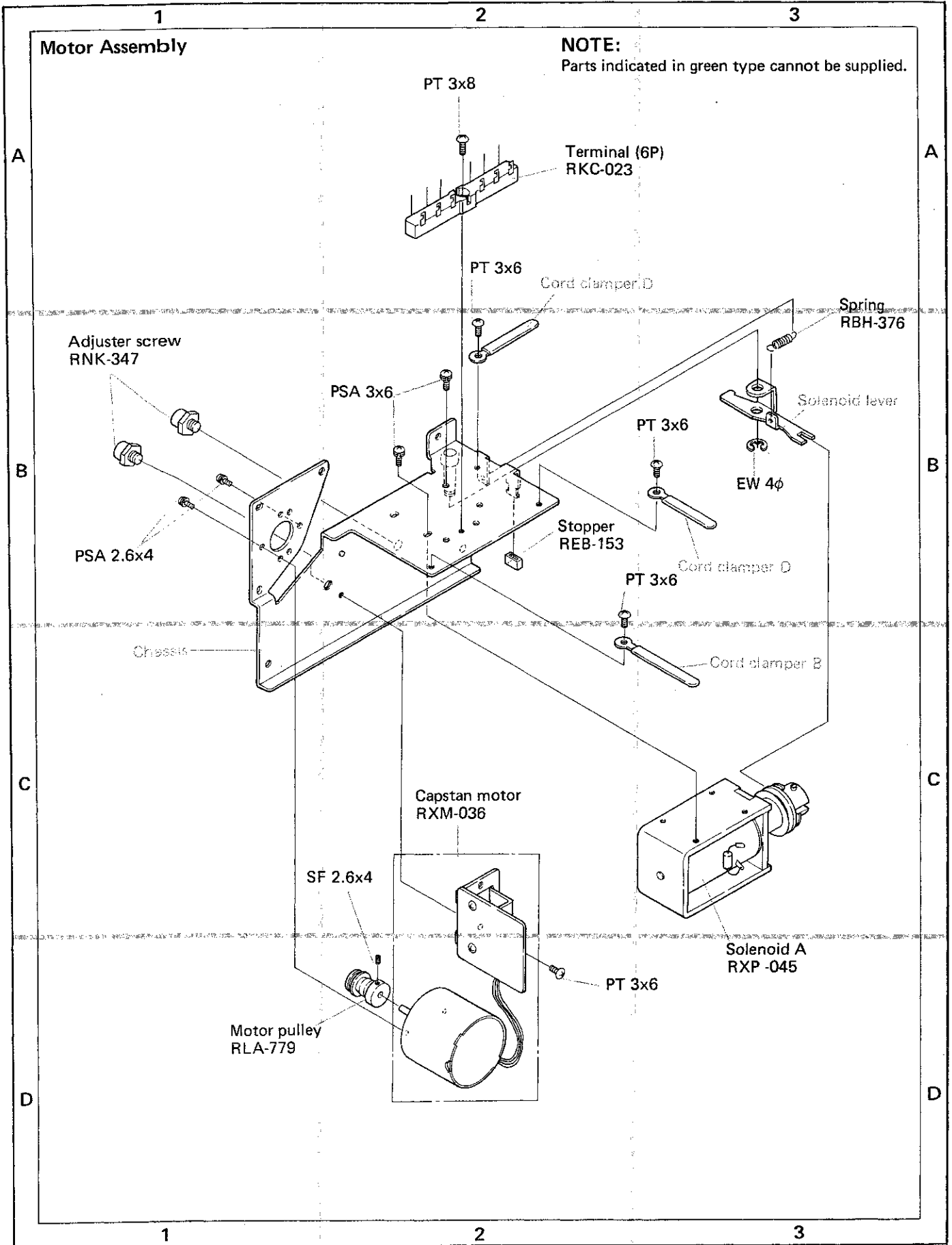
The Rear Side View of Mechanism Assembly

NOTE:
 Parts indicated in green type cannot be supplied.
 *: This part cannot be disassembled and supplied.





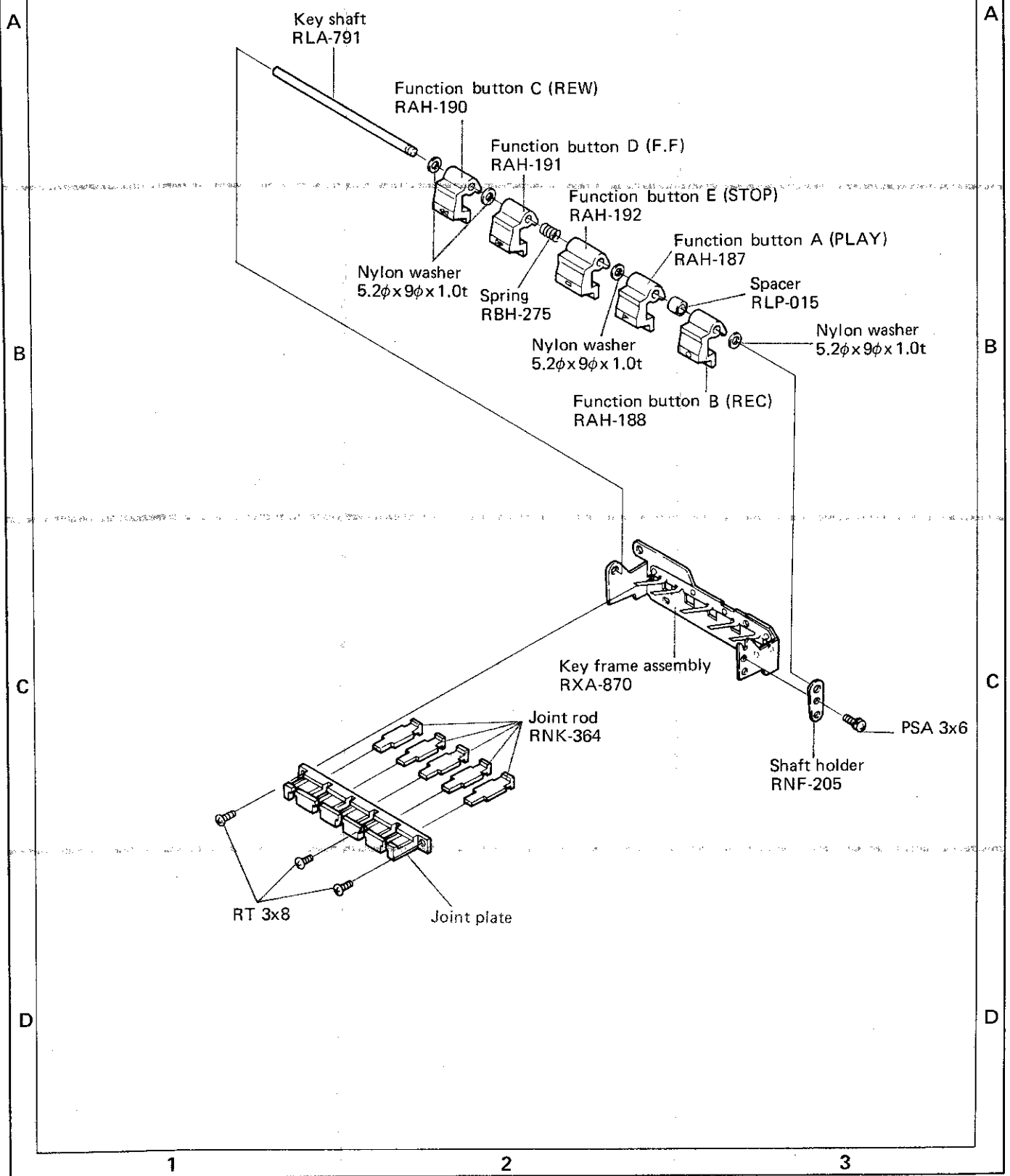




Function Button Assembly

NOTE:

Parts indicated in green type cannot be supplied.



9. SCHEMATIC DIAGRAMS, P.C. BOARD PATTERNS AND PARTS LIST

9.1 MISCELLANEOUS PARTS LIST

NOTE:

- Capacitors: in μF unless otherwise noted $p:pF$
- Resistors: in Ω , $\frac{1}{4}W$ unless otherwise noted $k:k\Omega$, $M:M\Omega$

SWITCHES

Symbol	Part No.	Description
	RSA-016	Power switch
	RSG-053	Push switch

TRANSFORMER

Symbol	Part No.	Description
	RTT-117	Power transformer

CAPACITORS

Symbol	Part No.	Description
C001	CKDYF 473Z 50	Ceramic 0.047 50V
C002	CKDYF 473Z 50	Ceramic 0.047 50V
C003	CKDYF 473Z 50	Ceramic 0.047 50V
C004	CKDYF 473Z 50	Ceramic 0.047 50V

RESISTORS

Symbol	Part No.	Description
R001	RD $\frac{1}{4}$ PS 222J	Carbon film 2.2k
R002	RD $\frac{1}{4}$ PS 222J	Carbon film 2.2k

ASSEMBLIES

Symbol	Part No.	Description
	RWX-178	Main board assembly
	RWX-181	Volume assembly
	RWX-176	Indicator assembly
	RWR-055	Power supply assembly
	RWS-064	Pause switch assembly
	RWG-080	Control assembly

OTHERS

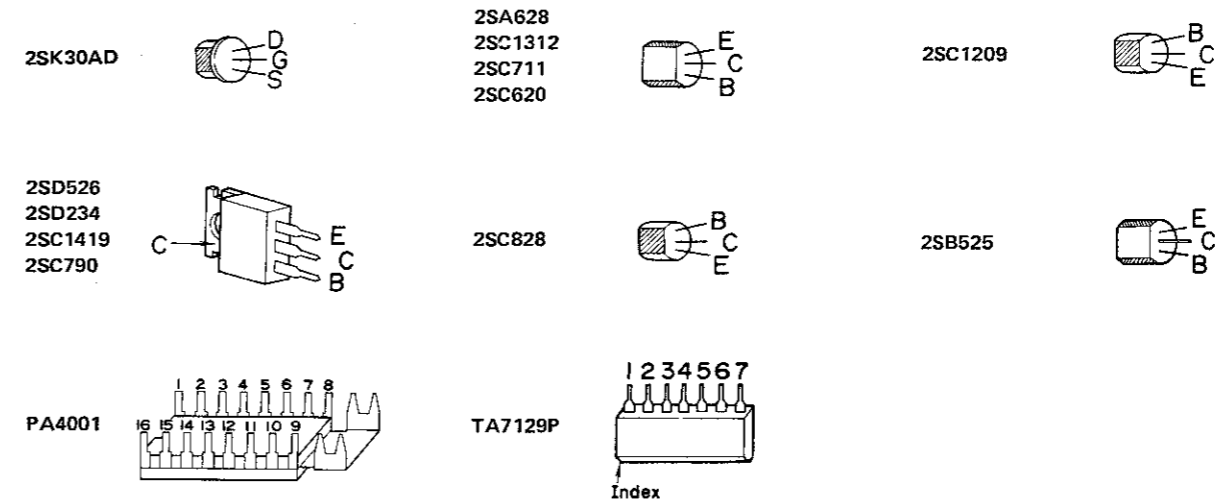
Symbol	Part No.	Description
	RWX-109	Spark killer (KU)
	RWX-150	Spark killer (KC)
	RDG-013	Power cord
	RKN-037	Mic jack
	RKN-032	Headphone jack

Service information will be furnished whenever necessary and you are requested to amend parts number in this parts list.

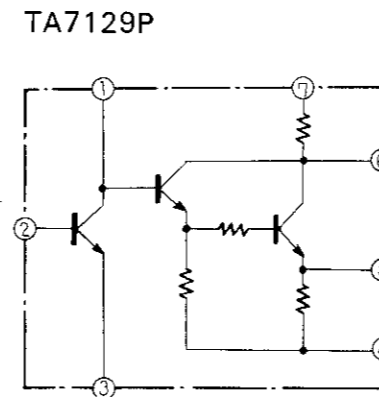
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

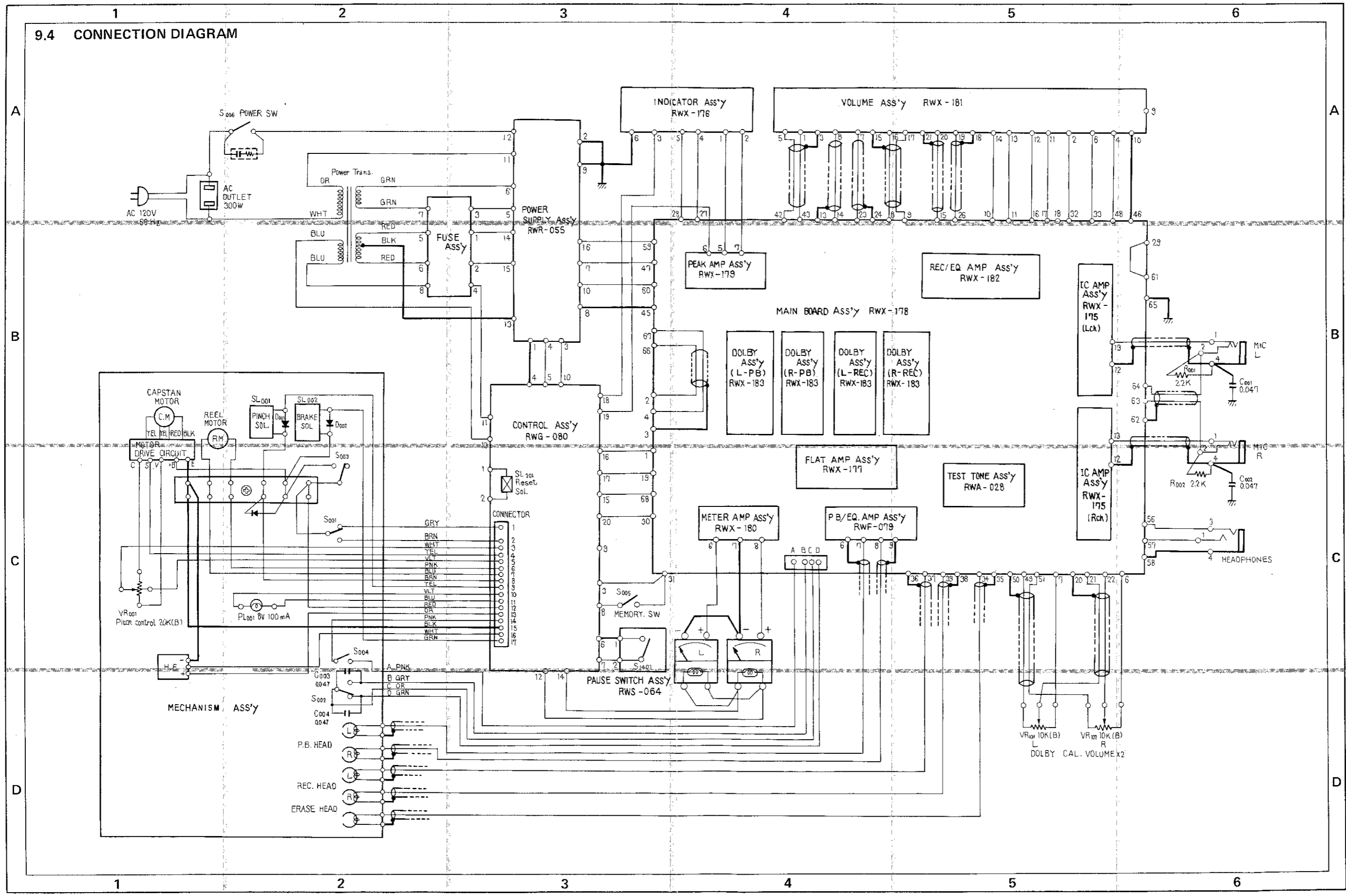
9.2 EXTERNAL APPEARANCE OF TRANSISTORS AND ICs



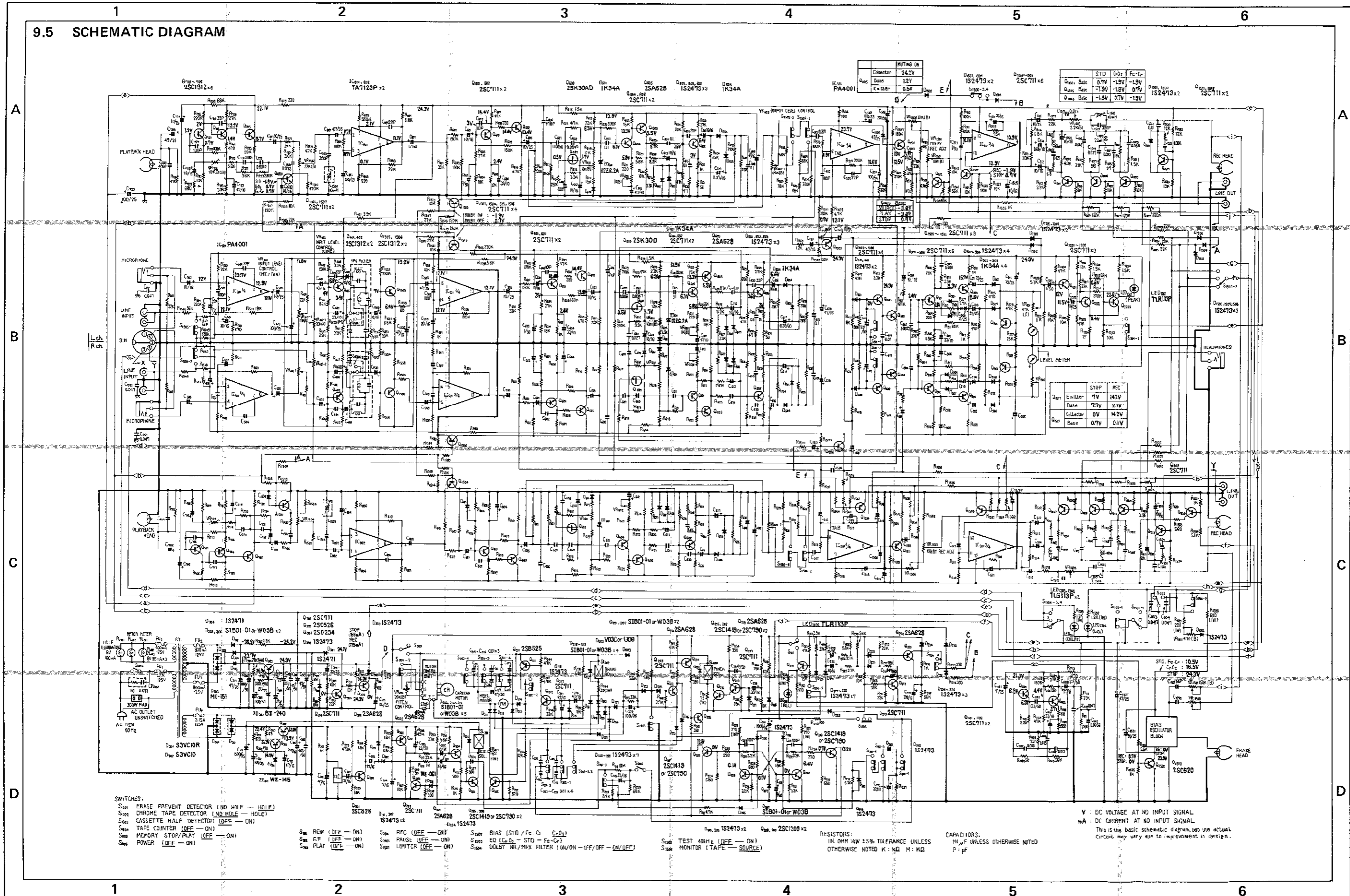
9.3 CIRCUIT DIAGRAM OF IC



9.4 CONNECTION DIAGRAM



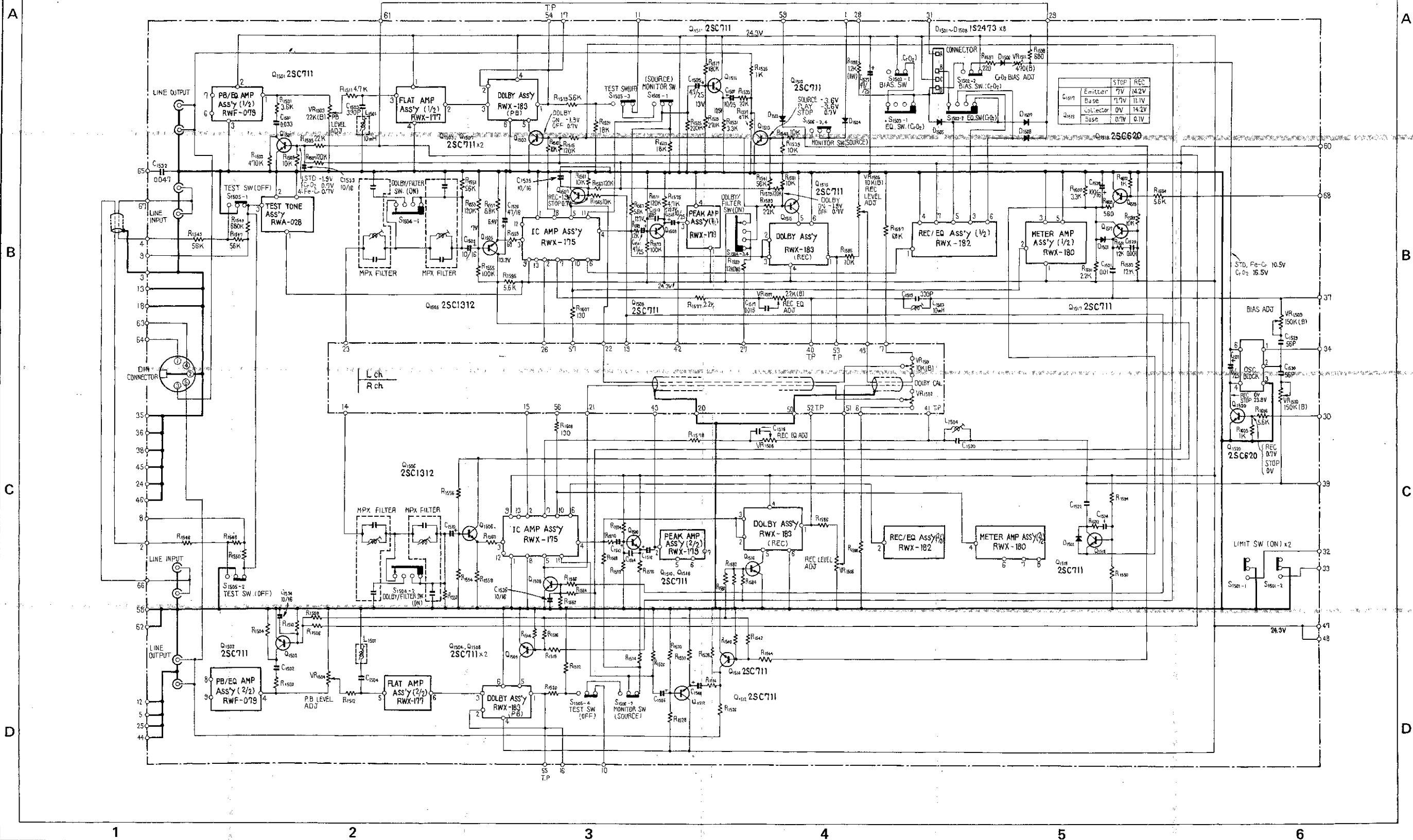
9.5 SCHEMATIC DIAGRAM



- SWITCHES:
- S₁₀₁ ERASE PREVENT DETECTOR (NO HOLE — HOLE)
 - S₁₀₂ CHROME TAPE DETECTOR (NO HOLE — HOLE)
 - S₁₀₃ CASSETTE HALF DETECTOR (OFF — ON)
 - S₁₀₄ TAPE COUNTER (OFF — ON)
 - S₁₀₅ MEMORY STOP/PLAY (OFF — ON)
 - S₁₀₆ POWER (OFF — ON)
 - S₁₀₇ REW (OFF — ON)
 - S₁₀₈ REC (OFF — ON)
 - S₁₀₉ PAUSE (OFF — ON)
 - S₁₁₀ LIMITER (OFF — ON)
 - S₁₁₁ BIAS (STD / Fe-C — CrO₂)
 - S₁₁₂ EQ (Lo — STD — Fe-C)
 - S₁₁₃ DOLBY NR/MPX FILTER (ON/OFF — ON/OFF)
 - S₁₁₄ TEST 40Hz (OFF — ON)
 - S₁₁₅ MONITOR (TAPE — SOURCE)

V : DC VOLTAGE AT NO INPUT SIGNAL
 mA : DC CURRENT AT NO INPUT SIGNAL
 This is the basic schematic diagram, the actual circuit may vary due to improvement in design.

9.6 MAIN BOARD ASSEMBLY (RWX-178)



Parts List of Main Board Assembly (RWX-178)

ASSEMBLIES

Symbol	Part No.	Description	Symbol	Part No.	Description	Symbol	Part No.	Description	Symbol	Part No.	Description
	RWX-177	Flat amplifier assembly	C1516	CEA 100P 25	Electrolytic 10 25V	R1516	RD%PS 124J	Carbon film 120k	R1566	RD%PS 103J	Carbon film 10k
	RWA-028	Test tone assembly	C1517	CQMA 153K 50	Mylar 0.015 50V	R1517	RD%PS 223J	Carbon film 22k	R1567	RD%PS 562J	Carbon film 5.6k
	RWX-179	Peak amplifier assembly	C1518	CQMA 153K 50	Mylar 0.015 50V	R1518	RD%PS 223J	Carbon film 22k	R1568	RD%PS 562J	Carbon film 5.6k
	RWF-079	Playback equalizer assembly	C1519	RCE-008	Styrol 330p 50V	R1519	RD%PS 562J	Carbon film 5.6k	R1569	RD%PS 122J	Carbon film 1.2k
	RWX-180	Meter amplifier assembly	C1520	RCE-008	Styrol 330p 50V	R1520	RD%PS 562J	Carbon film 5.6k	R1570	RD%PS 122J	Carbon film 1.2k
	RWX-175	IC amplifier assembly	C1521	CQMA 103K 50	Mylar 0.01 50V	R1521	RD%PS 183J	Carbon film 18k	R1571	RD%PS 124J	Carbon film 120k
	RWX-182	Recording equalizer assembly	C1522	CQMA 103K 50	Mylar 0.01 50V	R1522	RD%PS 183J	Carbon film 18k	R1572	RD%PS 124J	Carbon film 120k
	RWX-183	Dolby assembly	C1523	CQMA 102K 50	Mylar 0.001 50V	R1523	RD%PS 183J	Carbon film 18k	R1573	RD%PS 104J	Carbon film 100k
			C1524	CQMA 102K 50	Mylar 0.001 50V	R1524	RD%PS 183J	Carbon film 18k	R1574	RD%PS 104J	Carbon film 100k
			C1526	CEA 470P 16	Electrolytic 47 16V	R1525	RD%PS 224J	Carbon film 220k	R1575	RD%PS 472J	Carbon film 4.7k

SWITCHES

Symbol	Part No.	Description	Symbol	Part No.	Description	Symbol	Part No.	Description	Symbol	Part No.	Description
S1501	RSK-038	Lever Switch A	C1527	CEA 470P 25	Electrolytic 47 25V	R1526	RD%PS 224J	Carbon film 220k	R1576	RD%PS 472J	Carbon film 4.7k
S1502	RSK-038	Lever Switch A	C1528	CEA 101P 16	Electrolytic 100 16V	R1527	RD%PS 184J	Carbon film 180k	R1577	RD%PS 222J	Carbon film 2.2k
S1503	RSK-039	Lever Switch B	C1529	RCE-004	Styrol 56p 50V	R1528	RD%PS 184J	Carbon film 180k	R1578	RD%PS 222J	Carbon film 2.2k
S1504	RSK-041	Lever Switch D	C1530	RCE-004	Styrol 56p 50V	R1529	RD%PS 274J	Carbon film 270k	R1579	RD%PS 124J	Carbon film 120k
S1505	RSK-040	Lever Switch C	C1531	CEA 100P 25	Electrolytic 10 25V	R1530	RD%PS 274J	Carbon film 270k	R1580	RD%PS 124J	Carbon film 120k
S1506	RSK-043	Lever Switch F	C1532	CKDYF 473Z 50	Ceramic 0.047 50V	R1531	RD%PS 332J	Carbon film 3.3k	R1581	RD%PS 103J	Carbon film 10k
			C1533	CEA 100P 16	Electrolytic 10 16V	R1532	RD%PS 332J	Carbon film 3.3k	R1582	RD%PS 103J	Carbon film 10k
			C1534	CEA 100P 16	Electrolytic 10 16V	R1533	RD%PS 222J	Carbon film 2.2k	R1583	RD%PS 223J	Carbon film 22k
			C1535	CEA 100P 16	Electrolytic 10 16V	R1534	RD%PS 222J	Carbon film 2.2k	R1584	RD%PS 223J	Carbon film 22k
			C1536	CEA 100P 16	Electrolytic 10 16V	R1535	RD%PS 102J	Carbon film 1k	R1585	RD%PS 103J	Carbon film 10k

COILS

Symbol	Part No.	Description
L1501	RTF-024	Trap Coil
L1502	RTF-024	Trap Coil
L1503	RTF-024	Trap Coil
L1504	RTF-024	Trap Coil
	RTF-034	MPX Coil
	RTF-035	MPX Coil

RESISTORS

Symbol	Part No.	Description	Symbol	Part No.	Description	Symbol	Part No.	Description	Symbol	Part No.	Description
VR1501	RCS-015	Variable resistor 10k-B	R1536	RD%PS 102J	Carbon film 1k	R1586	RD%PS 103J	Carbon film 10k			
VR1502	RCS-015	Variable resistor 10k-B	R1537	RD%PS 473J	Carbon film 47k	R1587	RD%PS 682J	Carbon film 6.8k			
VR1503	C92-857	Semifixed 22k-B	R1538	RD%PS 473J	Carbon film 47k	R1588	RD%PS 682J	Carbon film 6.8k			
VR1504	C92-857	Semifixed 22k-B	R1539	RD%PS 103J	Carbon film 10k	R1589	RD%PS 103J	Carbon film 10k			
VR1505	C92-049	Semifixed 10k-B	R1540	RD%PS 103J	Carbon film 10k	R1590	RD%PS 103J	Carbon film 10k			
VR1506	C92-049	Semifixed 10k-B	R1541	RD%PS 563J	Carbon film 56k	R1591	RD%PS 123J	Carbon film 12k			
VR1507	C92-401	Semifixed 2.2k-B	R1542	RD%PS 563J	Carbon film 56k	R1592	RD%PS 123J	Carbon film 12k			
VR1508	C92-401	Semifixed 2.2k-B	R1543	RD%PS 103J	Carbon film 10k	R1593	RD%PS 123J	Carbon film 12k			
VR1509	C92-860	Semifixed 150k-B	R1544	RD%PS 103J	Carbon film 10k	R1594	RD%PS 123J	Carbon film 12k			
VR1510	C92-860	Semifixed 150k-B	R1545	RD%PS 563J	Carbon film 56k	R1595	RD%PS 562J	Carbon film 5.6k			
VR1511	RCP-022	Metal glaze semifixed 470-B	R1546	RD%PS 563J	Carbon film 56k	R1596	RS1P 122J	Metal oxide 1.2k 1W			
R1501	RD%PS 362J	Carbon film 3.6k	R1547	RD%PS 563J	Carbon film 56k	R1597	RS1PSF 221J	Metal oxide 220 1W			
R1502	RD%PS 362J	Carbon film 3.6k	R1548	RD%PS 563J	Carbon film 56k	R1598	RS1PSF 681J	Metal oxide 680 1W			
R1503	RD%PS 474J	Carbon film 470k	R1549	RD%PS 684J	Carbon film 680k	R1599	RS1P 122J	Metal oxide 1.2k 1W			
R1504	RD%PS 474J	Carbon film 470k	R1550	RD%PS 684J	Carbon film 680k	R1600	RD%PS 332J	Carbon film 3.3k			
R1505	RD%PS 223J	Carbon film 22k	R1551	RD%PS 562J	Carbon film 5.6k	R1601	RD%PS 222J	Carbon film 2.2k			
R1506	RD%PS 223J	Carbon film 22k	R1552	RD%PS 562J	Carbon film 5.6k	R1602	RD%PS 102J	Carbon film 1k			
R1507	RD%PS 124J	Carbon film 120k	R1553	RD%PS 124J	Carbon film 120k	R1603	RD%PS 561J	Carbon film 560			
R1508	RD%PS 124J	Carbon film 120k	R1554	RD%PS 124J	Carbon film 120k	R1604	RD%PS 562J	Carbon film 5.6k			
R1509	RD%PS 103J	Carbon film 10k	R1555	RD%PS 104J	Carbon film 100k	R1605	RD%PS 102J	Carbon film 1k			
R1510	RD%PS 103J	Carbon film 10k	R1556	RD%PS 104J	Carbon film 100k	R1606	RD%PS 562J	Carbon film 5.6k			
R1511	RD%PS 472J	Carbon film 4.7k	R1557	RD%PS 682J	Carbon film 6.8k	R1607	RD%PS 131J	Carbon film 130			
R1512	RD%PS 472J	Carbon film 4.7k	R1558	RD%PS 682J	Carbon film 6.8k	R1608	RD%PS 131J	Carbon film 130			
R1513	RD%PS 103J	Carbon film 10k	R1559	RD%PS 680J	Carbon film 68	R1609	RD%PS 105J	Carbon film 1M			
R1514	RD%PS 103J	Carbon film 10k	R1560	RD%PS 680J	Carbon film 68	R1610	RD%PS 105J	Carbon film 1M			
R1515	RD%PS 124J	Carbon film 120k	R1561	RD%PS 103J	Carbon film 10k						
			R1562	RD%PS 103J	Carbon film 10k						
			R1563	RD%PS 124J	Carbon film 120k						
			R1564	RD%PS 124J	Carbon film 120k						
			R1565	RD%PS 103J	Carbon film 10k						

CAPACITORS

Symbol	Part No.	Description
C1501	CQMA 333K 50	Mylar 0.033 50V
C1502	CQMA 333K 50	Mylar 0.033 50V
C1503	RCE-008	Styrol 330p 50V
C1504	RCE-008	Styrol 330p 50V
C1505	CEA 4R7P 35	Electrolytic 4.7 35V
C1506	CEA 4R7P 35	Electrolytic 4.7 35V
C1507	CEA 100P 25	Electrolytic 10 25V
C1508	CEA 100P 25	Electrolytic 10 25V
C1509	CEA 100P 16	Electrolytic 10 16V
C1510	CEA 100P 16	Electrolytic 10 16V
C1511	CEA 4R7P 35	Electrolytic 4.7 35V
C1512	CEA 4R7P 35	Electrolytic 4.7 35V
C1513	CCDSL 101K 50	Ceramic 100p 50V
C1514	CCDSL 101K 50	Ceramic 100p 50V
C1515	CEA 100P 25	Electrolytic 10 25V

OTHERS

<u>Symbol</u>	<u>Part No.</u>	<u>Description</u>
	RKB-013	Pin jack assembly
	RKB-014	4P mount Pin jack
	RKP-027	Connector (4P)
	RTX-003	Bias oscillator block

SEMICONDUCTORS

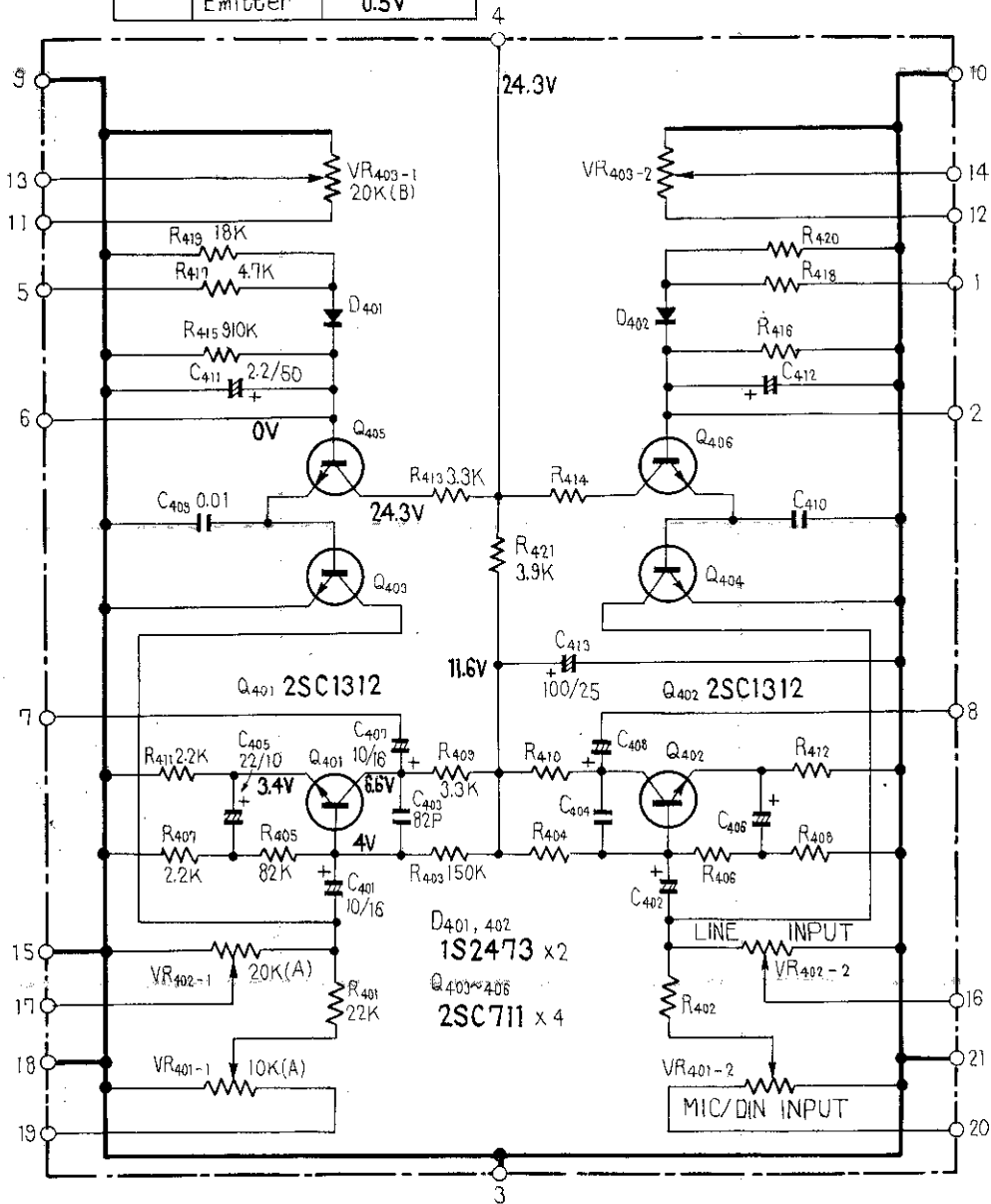
<u>Symbol</u>	<u>Part No.</u>	<u>Description</u>
Q1501	2SC711-E or F	Transistor
Q1502	2SC711-E or F	Transistor
Q1503	2SC711-E or F	Transistor
Q1504	2SC711-E or F	Transistor
Q1505	2SC1312-G or H	Transistor
Q1506	2SC1312-G or H	Transistor
Q1507	2SC711-E or F	Transistor
Q1508	2SC711-E or F	Transistor
Q1509	2SC711-E or F	Transistor
Q1510	2SC711-E or F	Transistor
Q1511	2SC711-E or F	Transistor
Q1512	2SC711-E or F	Transistor
Q1513	2SC711-E or F	Transistor
Q1514	2SC711-E or F	Transistor
Q1515	2SC711-E or F	Transistor
Q1516	2SC711-E or F	Transistor
Q1517	2SC711-E or F	Transistor
Q1518	2SC711-E or F	Transistor
Q1519	2SC711-E or F	Transistor
Q1520	2SC620-D or E	Transistor
D1501	1S2473	Diode
D1502	1S2473	Diode
D1503	1S2473	Diode
D1504	1S2473	Diode
D1505	1S2473	Diode
D1506	1S2473	Diode
D1507	1S2473	Diode
D1508	1S2473	Diode

List of Changed Parts for Factory Modification

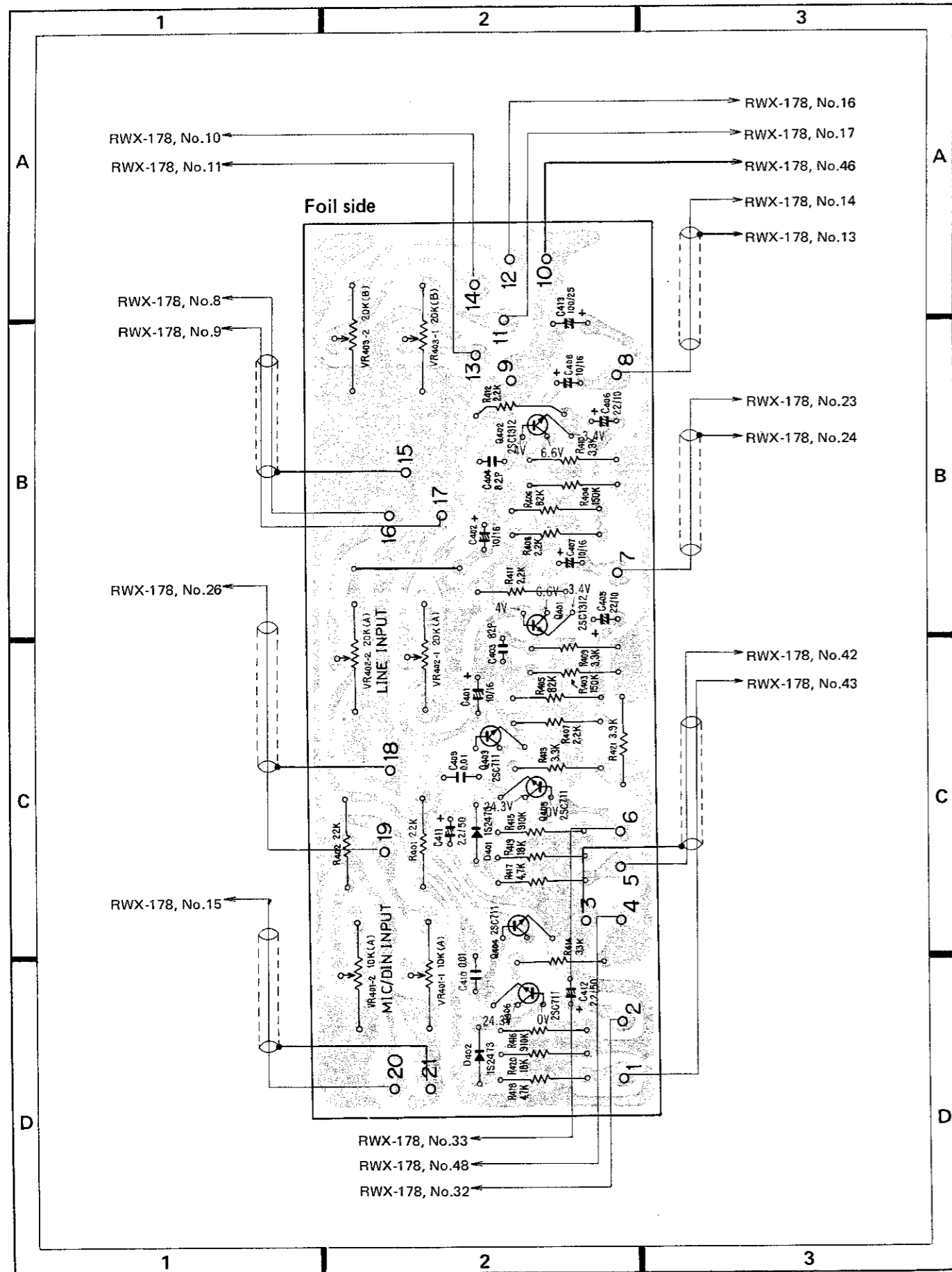
<u>Symbol</u>	<u>Part No.</u>	<u>Description</u>

9.7 VOLUME ASSEMBLY (RWX-181)

		MUTING ON
Q ₄₀₅	Collector	24.2V
	Base	1.2V
	Emitter	0.5V



D_{401, 402}
1S2473 x 2
Q_{403, 404}
2SC711 x 4



Parts List

CAPACITORS

Symbol	Part No.	Description
C401	CEA 100P 16	Electrolytic 10 16V
C402	CEA 100P 16	Electrolytic 10 16V
C403	CCDSL 820K 50	Ceramic 82p 50V
C404	CCDSL 820K 50	Ceramic 82p 50V
C405	CEA 220P 10	Electrolytic 22 10V
C406	CEA 220P 10	Electrolytic 22 10V
C407	CEA 100P 16	Electrolytic 10 16V
C408	CEA 100P 16	Electrolytic 10 16V
C409	CQMA 103K 50	Mylar 0.01 50V
C410	CQMA 103K 50	Mylar 0.01 50V
C411	CEA 2R2P 50	Electrolytic 2.2 50V
C412	CEA 2R2P 50	Electrolytic 2.2 50V
C413	CEA 101P 25	Electrolytic 100 25V

RESISTORS

Symbol	Part No.	Description
VR401	RCV-041	Variable resistor 10k-A
VR402	RCV-042	Variable resistor 20k-A
VR403	RCV-043	Variable resistor 20k-B
R401	RD¼PS 223J	Carbon film 22k
R402	RD¼PS 223J	Carbon film 22k
R403	RD¼PS 154J	Carbon film 150k
R404	RD¼PS 154J	Carbon film 150k
R405	RD¼PS 823J	Carbon film 82k
R406	RD¼PS 823J	Carbon film 82k
R407	RD¼PS 222J	Carbon film 2.2k
R408	RD¼PS 222J	Carbon film 2.2k
R409	RD¼PS 332J	Carbon film 3.3k
R410	RD¼PS 332J	Carbon film 3.3k
R411	RD¼PS 222J	Carbon film 2.2k
R412	RD¼PS 222J	Carbon film 2.2k
R413	RD¼PS 332J	Carbon film 3.3k
R414	RD¼PS 332J	Carbon film 3.3k
R415	RD¼PS 914J	Carbon film 910k
R416	RD¼PS 914J	Carbon film 910k
R417	RD¼PS 472J	Carbon film 4.7k
R418	RD¼PS 472J	Carbon film 4.7k
R419	RD¼PS 183J	Carbon film 18k
R420	RD¼PS 183J	Carbon film 18k
R421	RD¼PS 392J	Carbon film 3.9k

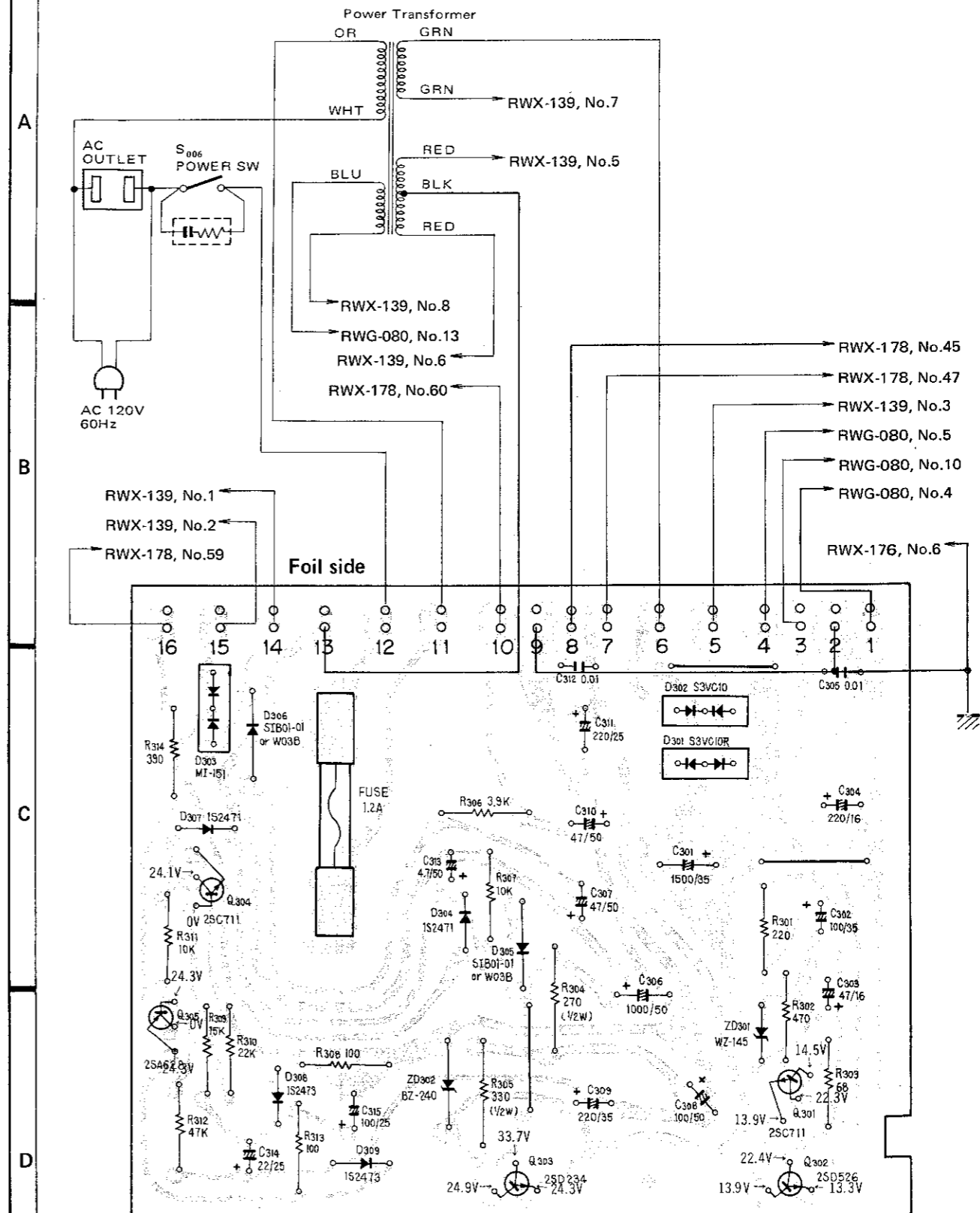
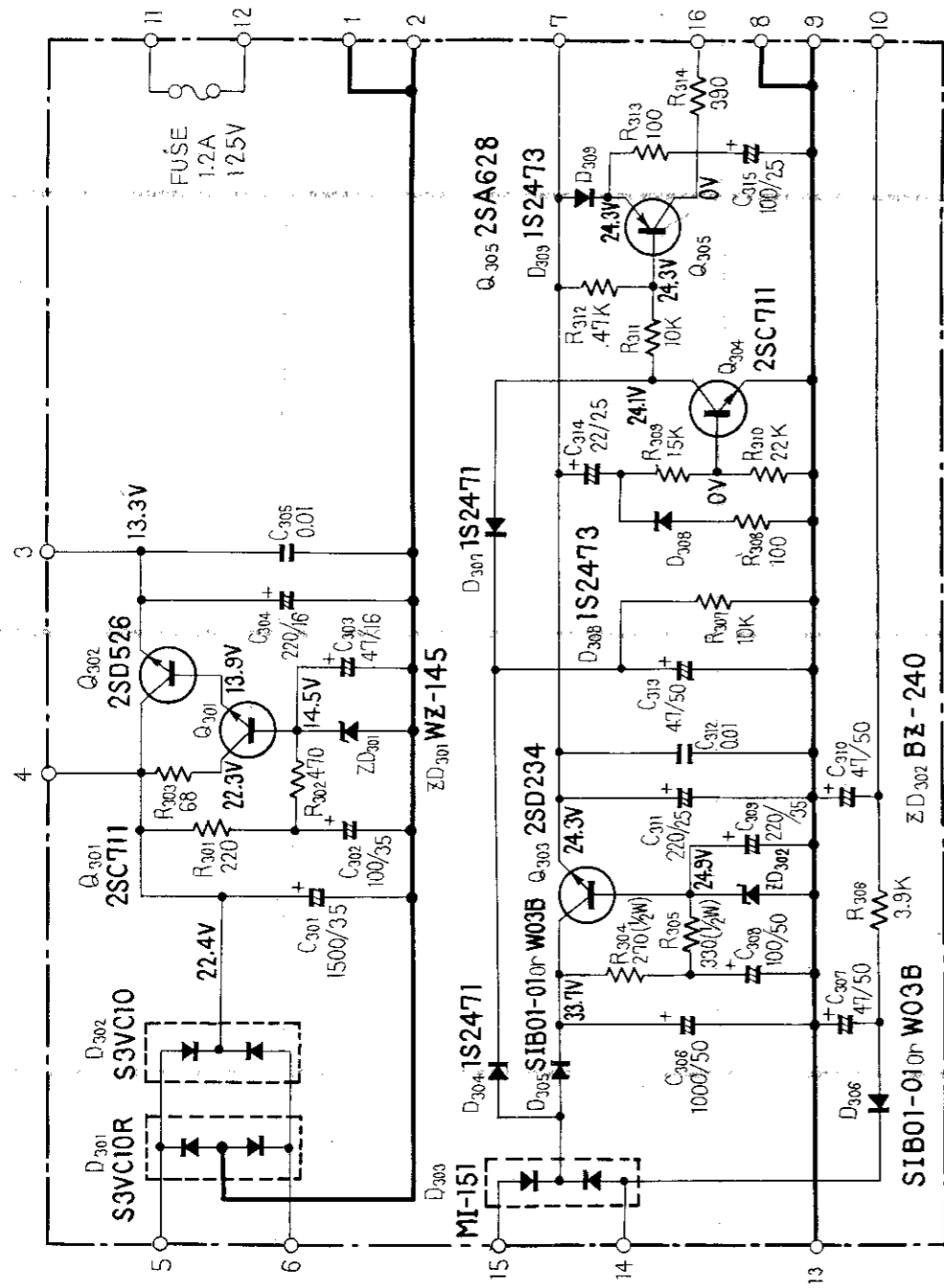
SEMICONDUCTORS

Symbol	Part No.	Description
Q401	2SC1312-G or H	Transistor
Q402	2SC1312-G or H	Transistor
Q403	2SC711-E or F	Transistor
Q404	2SC711-E or F	Transistor
Q405	2SC711-E or F	Transistor
Q406	2SC711-E or F	Transistor
D401	1S2473	Diode
D402	1S2473	Diode

List of Changed Parts for Factory Modification

Symbol	Part No.	Description
--------	----------	-------------

9.8 POWER SUPPLY ASSEMBLY (RWR-055)



Parts List

FUSE

Symbol	Part No.	Description
FU1	REK-059	Fuse (1.2A)

CAPACITORS

Symbol	Part No.	Description
C301	CEA 152P 35	Electrolytic 1500 35V
C302	CEA 101P 35	Electrolytic 100 35V
C303	CEA 470P 16	Electrolytic 47 16V
C304	CEA 221P 16	Electrolytic 220 16V
C305	CKDYF 103Z 50	Ceramic 0.01 50V
C306	CEA 102P 50	Electrolytic 1000 50V
C307	CEA 470P 50	Electrolytic 47 50V
C308	CEA 101P 50	Electrolytic 100 50V
C309	CEA 221P 35	Electrolytic 220 35V
C310	CEA 470P 50	Electrolytic 47 50V
C311	CEA 221P 25	Electrolytic 220 25V
C312	CKDYF 103Z 50	Ceramic 0.01 50V
C313	CEA 4R7P 50	Electrolytic 4.7 50V
C314	CEA 220P 25	Electrolytic 22 25V
C315	CEA 101P 25	Electrolytic 100 25V

RESISTORS

Symbol	Part No.	Description
R301	RD $\frac{1}{4}$ PSF 221J	Carbon film 220
R302	RD $\frac{1}{4}$ PSF 471J	Carbon film 470
R303	RD $\frac{1}{4}$ PSF 680J	Carbon film 68
R304	RS $\frac{1}{2}$ PSF 271J	Carbon film 270 $\frac{1}{2}W$
R305	RS $\frac{1}{2}$ PSF 331J	Carbon film 330 $\frac{1}{2}W$
R306	RD $\frac{1}{4}$ PS 392J	Carbon film 3.9k
R307	RD $\frac{1}{4}$ PS 103J	Carbon film 10k
R308	RD $\frac{1}{4}$ PS 101J	Carbon film 100
R309	RD $\frac{1}{4}$ PS 153J	Carbon film 15k
R310	RD $\frac{1}{4}$ PS 223J	Carbon film 22k
R311	RD $\frac{1}{4}$ PS 103J	Carbon film 10k
R312	RD $\frac{1}{4}$ PS 473J	Carbon film 47k
R313	RD $\frac{1}{4}$ PSF 101J	Carbon film 100
R314	RD $\frac{1}{4}$ PS 391J	Carbon film 390

OTHERS

Symbol	Part No.	Description
	RKR-017	Fuse clip
	RKH-004	Insulator
	REE-051	Insulator

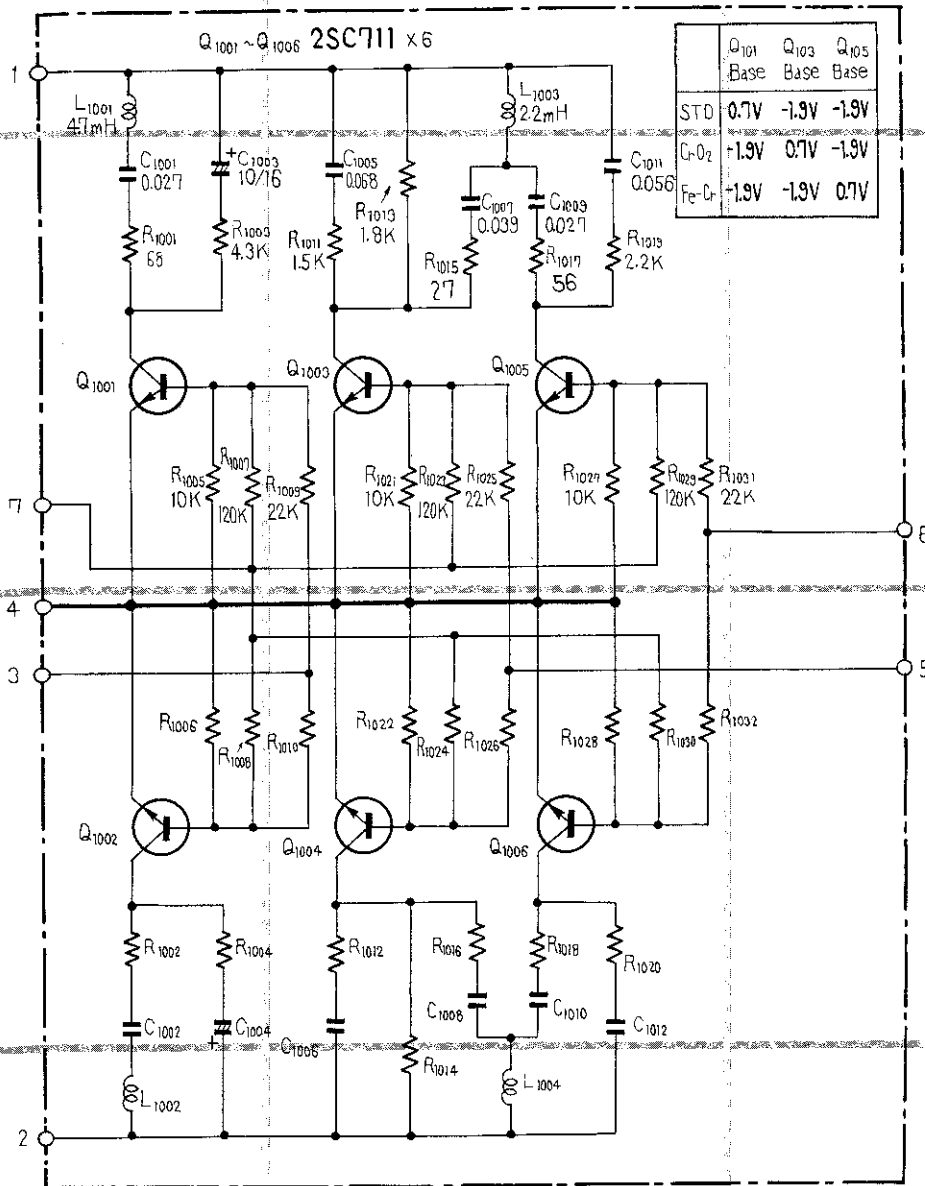
SEMICONDUCTORS

Symbol	Part No.	Description
Q301	2SC711-E or F	Transistor
Q302	2SD526-O or Y	Transistor
Q303	2SD234-O or Y	Transistor
Q304	2SC711-E or F	Transistor
Q305	2SA628-E or F	Transistor
D301	S3VC10R	Diode
D302	S3VC10	Diode
D303	MI-151	Diode
D304	1S2471	Diode
D305	S1B01-01 or W03B	Diode
D306	S1B01-01 or W03B	Diode
D307	1S2471	Diode
D308	1S2473	Diode
D309	1S2473	Diode
ZD301	WZ-145	Zener Diode
ZD302	BZ-240	Zener Diode

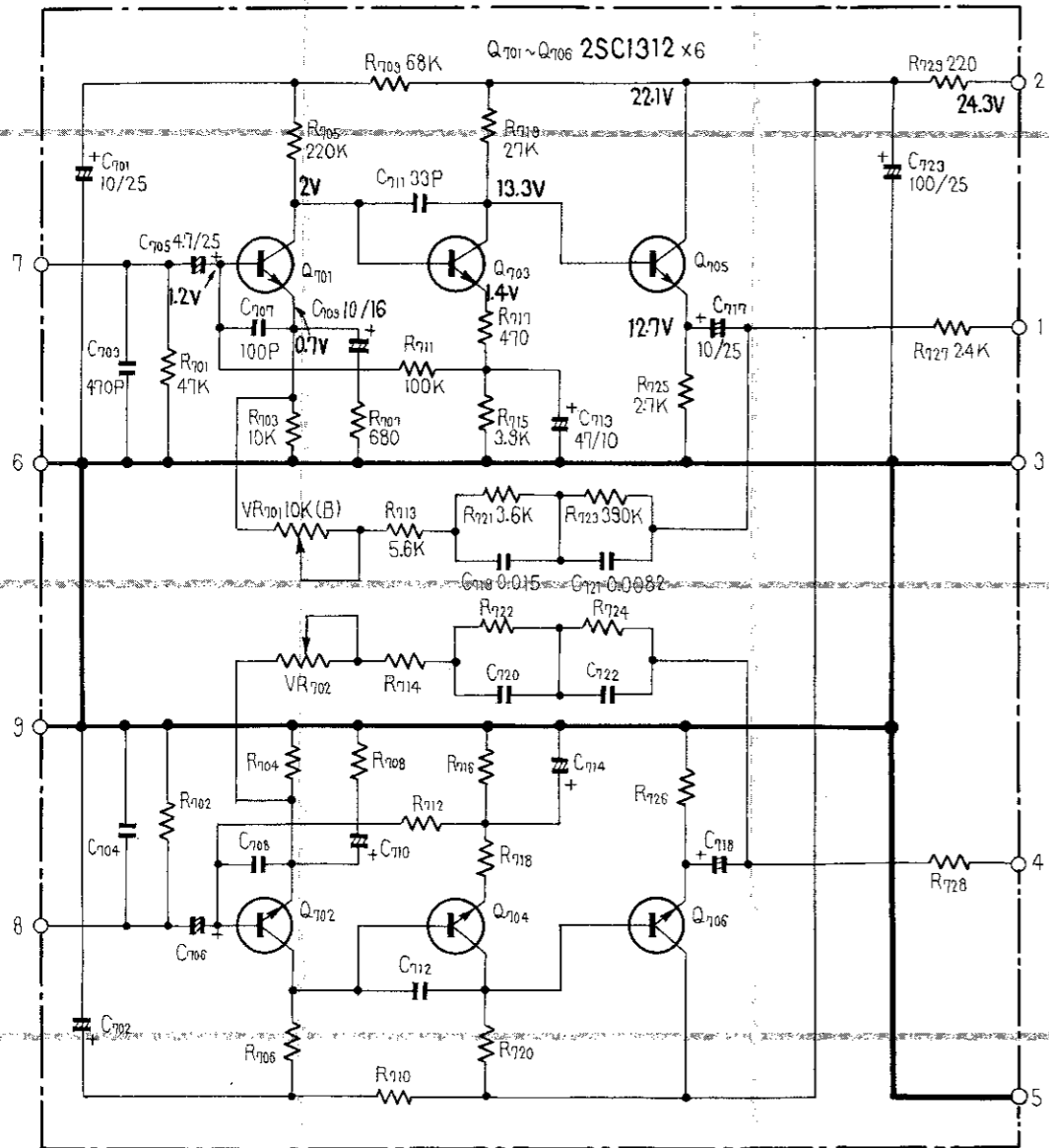
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

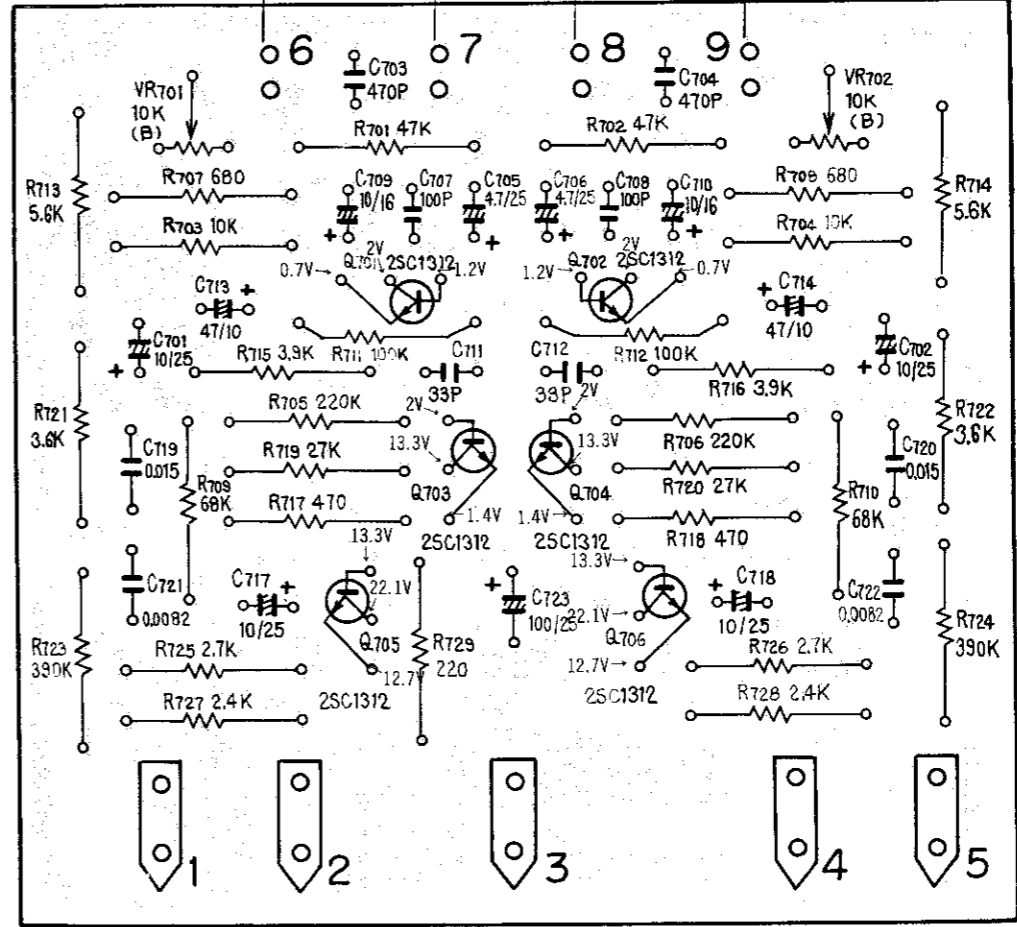
9.9 RECORDING EQUALIZER ASSEMBLY (RWX-182)



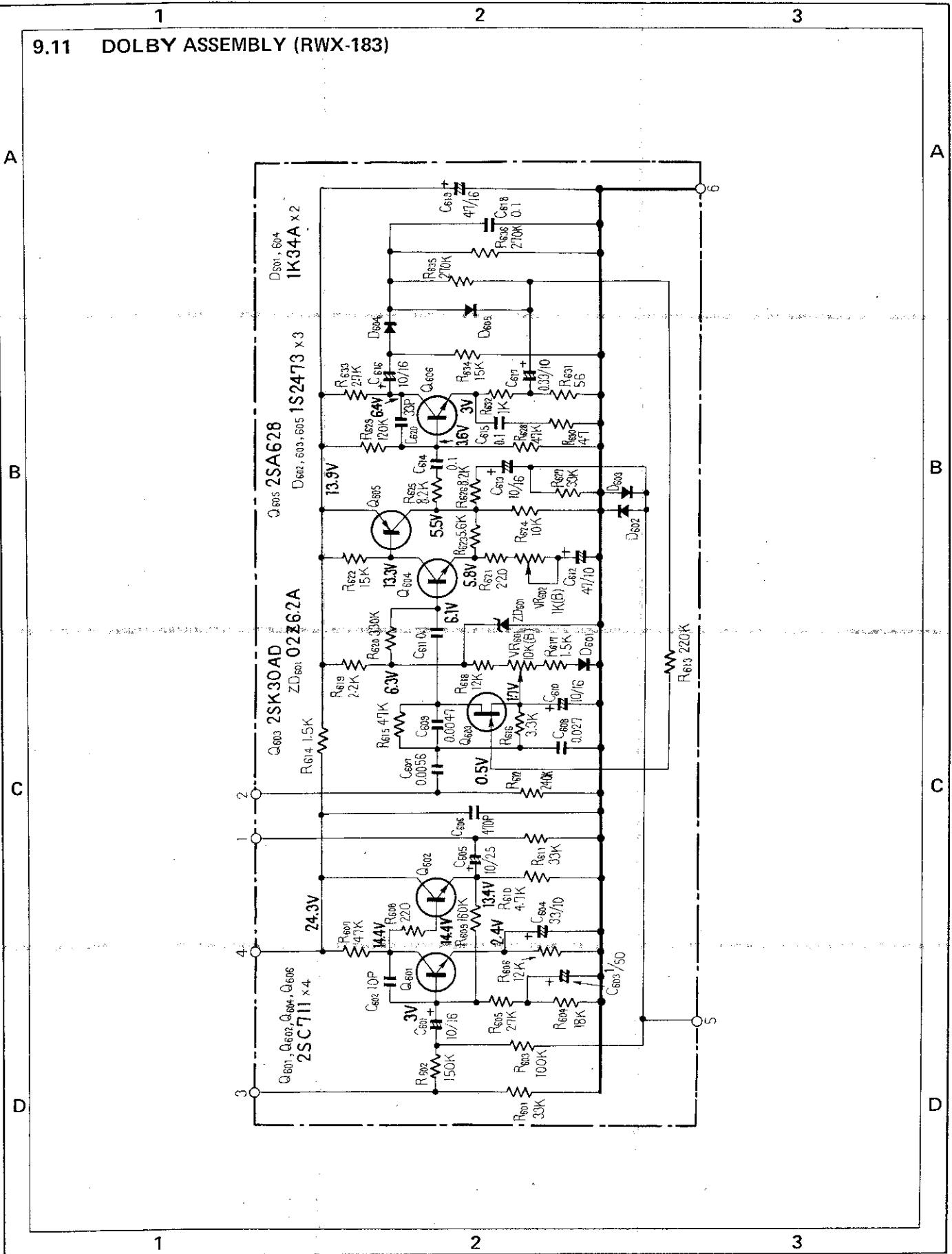
9.10 PLAYBACK EQUALIZER ASSEMBLY (RWF-079)

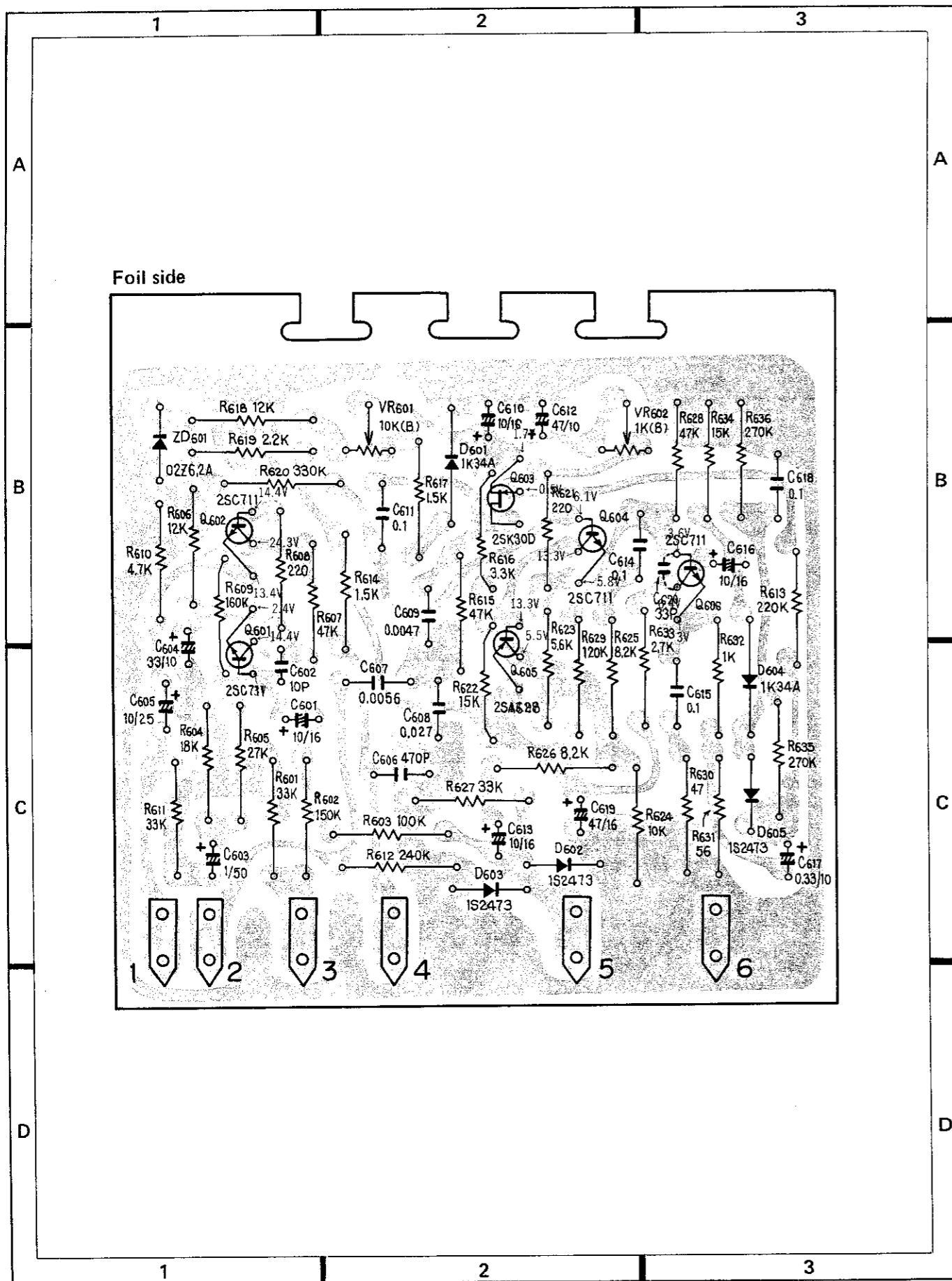


Foil side



9.11 DOLBY ASSEMBLY (RWX-183)





Parts List

CAPACITORS

Symbol	Part No.	Description		
C601	CEA 100P 16	Electrolytic	10	16V
C602	CCDSL 100K 50	Ceramic	10p	50V
C603	CEA 010P 50	Electrolytic	1	50V
C604	CEA 330P 10	Electrolytic	33	10V
C605	CEA 100P 25	Electrolytic	10	25V
C606	CKDYB 471K 50	Ceramic	470p	50V
C607	CQMA 562J 50	Mylar	5600p	50V
C608	CQMA 273J 50	Mylar	0.027	50V
C609	CQMA 472J 50	Mylar	4700p	50V
C610	CEA 100P 16	Electrolytic	10	16V
C611	CQMA 104K 50	Mylar	0.1	50V
C612	CEA 470P 10	Electrolytic	47	10V
C613	CEA 100P 16	Electrolytic	10	16V
C614	CQMA 104K 50	Mylar	0.1	50V
C615	CQMA 104K 50	Mylar	0.1	50V
C616	CEA 100P 16	Electrolytic	10	16V
C617	CSSA R33M 10	Electrolytic	0.33	10V
C618	CQMA 104K 50	Mylar	0.1	50V
C619	CEA 470P 16	Electrolytic	47	16V
C620	CCDSL 330K 50	Ceramic	33p	50V

Symbol	Part No.	Description		
R624	RD½PS 103J	Carbon film	10k	
R625	RD½PS 822J	Carbon film	8.2k	
R626	RD½PS 822J	Carbon film	8.2k	
R627	RD½PS 333J	Carbon film	33k	
R628	RD½PS 473J	Carbon film	47k	
R629	RD½PS 124J	Carbon film	120k	
R630	RD½PS 470J	Carbon film	47	
R631	RD½PS 560J	Carbon film	56	
R632	RD½PS 102J	Carbon film	1k	
R633	RD½PS 272J	Carbon film	2.7k	
R634	RD½PS 153J	Carbon film	15k	
R635	RD½PS 274J	Carbon film	270k	
R636	RD½PS 274J	Carbon film	270k	

SEMICONDUCTORS

Symbol	Part No.	Description
Q601	2SC711-E or F	Transistor
Q602	2SC711-E or F	Transistor
Q603	2SK30AD	FET
Q604	2SC711-E or F	Transistor
Q605	2SA628-E or F	Transistor
Q606	2SC711-E or F	Transistor
D601	1K34A	Diode
D602	1S2473	Diode
D603	1S2473	Diode
D604	1K34A	Diode
D605	1S2473	Diode
ZD601	02Z6.2A	Zener Diode

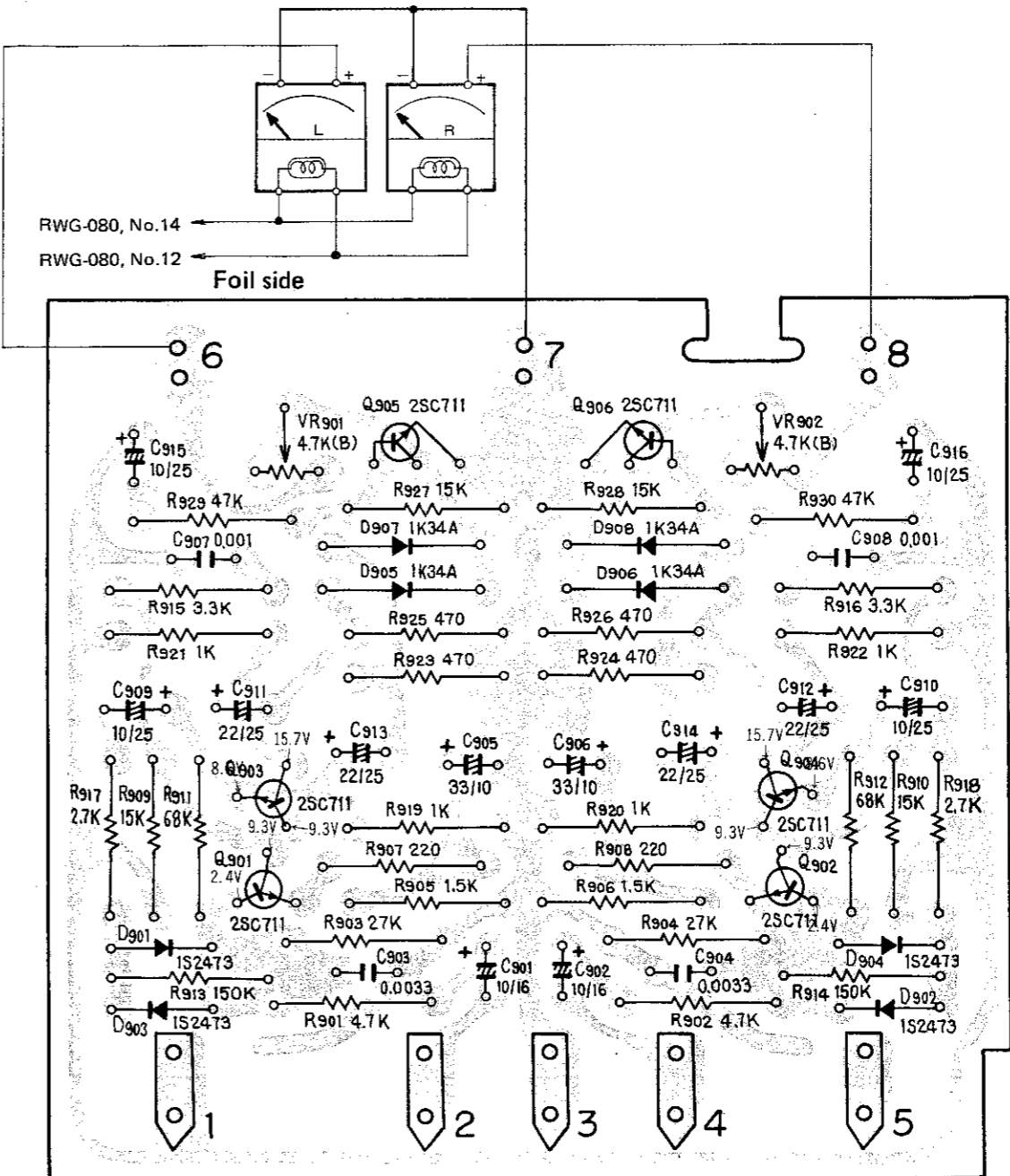
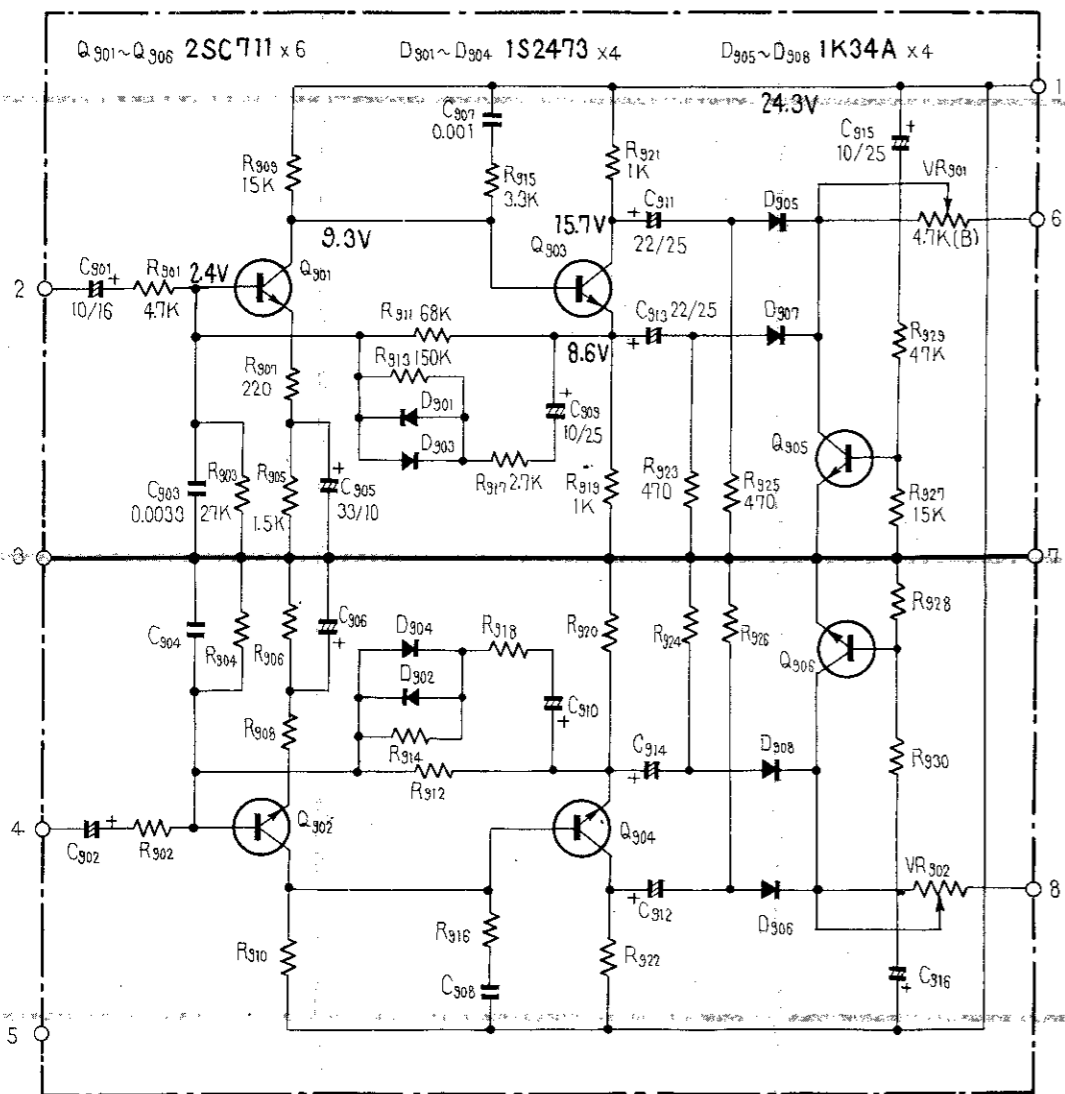
RESISTORS

Symbol	Part No.	Description		
VR601	RCP-032	Semi-fixed	10k-B	
VR602	RCP-033	Semi-fixed	10k-B	
R601	RD½PS 333J	Carbon film	33k	
R602	RD½PS 154J	Carbon film	150k	
R603	RD½PS 104J	Carbon film	100k	
R604	RD½PS 183J	Carbon film	18k	
R605	RD½PS 273J	Carbon film	27k	
R606	RD½PS 123J	Carbon film	12k	
R607	RD½PS 473J	Carbon film	47k	
R608	RD½PS 221J	Carbon film	220	
R609	RD½PS 164J	Carbon film	160k	
R610	RD½PS 472J	Carbon film	4.7k	
R611	RD½PS 333J	Carbon film	33k	
R612	RD½PS 244J	Carbon film	240k	
R613	RD½PS 224J	Carbon film	220k	
R614	RD½PS 152J	Carbon film	1.5k	
R615	RD½PS 473J	Carbon film	47k	
R616	RD½PS 332J	Carbon film	3.3k	
R617	RD½PS 152J	Carbon film	1.5k	
R618	RD½PS 123J	Carbon film	12k	
R619	RD½PS 222J	Carbon film	2.2k	
R620	RD½PS 334J	Carbon film	330k	
R621	RD½PS 221J	Carbon film	220	
R622	RD½PS 153J	Carbon film	15k	
R623	RD½PS 562J	Carbon film	5.6k	

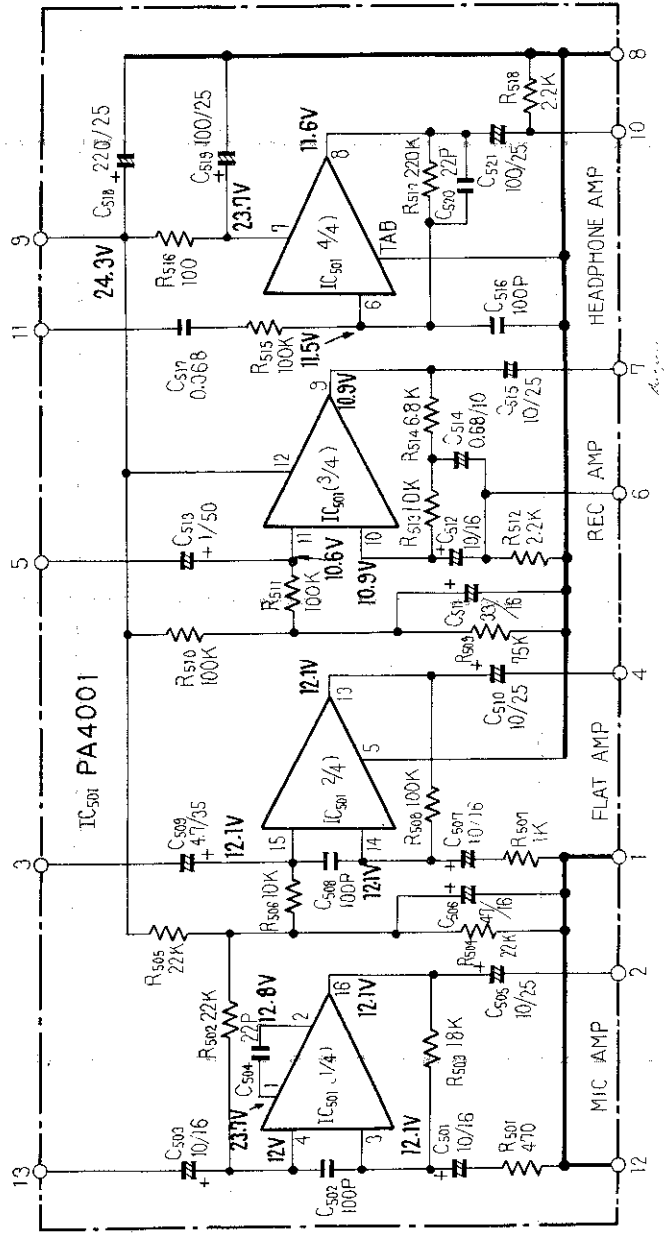
List of Changed Parts for Factory Modification

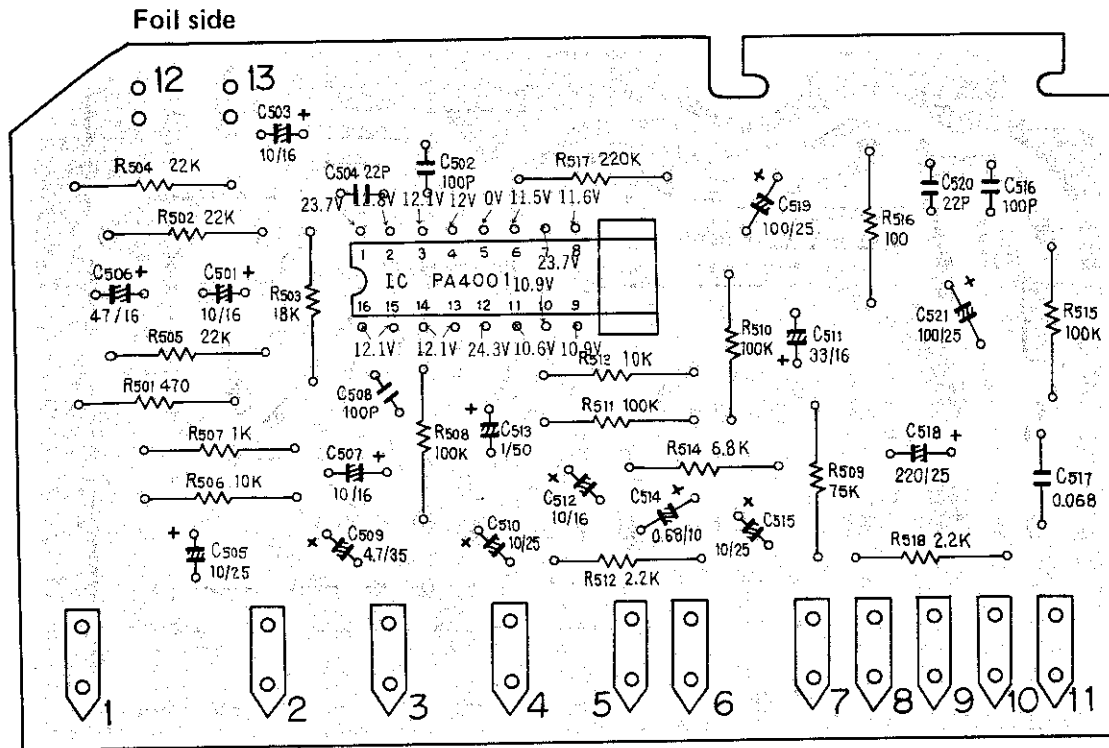
Symbol	Part No.	Description

9.12 METER ASSEMBLY (RWX-180)



9.13 INTEGRATED ASSEMBLY (RWX-175)





Parts List

CAPACITORS

Symbol	Part No.	Description
C501	CEA 100P 16	Electrolytic 10 16V
C502	CCDSL 101K 50	Ceramic 100p 50V
C503	CEANL 100P 16	Electrolytic 10 16V
C504	CCDSL 220K 50	Ceramic 22p 50V
C505	CEA 100P 25	Electrolytic 10 25V
C506	CEA 470P 16	Electrolytic 47 16V
C507	CEA 100P 16	Electrolytic 10 16V
C508	CCDSL 101K 50	Ceramic 100p 50V
C509	CEA 4R 7P 35	Electrolytic 4.7 35V
C510	CEA 100P 25	Electrolytic 10 25V
C511	CEA 330P 16	Electrolytic 33 16V
C512	CEA 100P 16	Electrolytic 10 16V
C513	CEA 010P 50	Electrolytic 0.1 50V
C514	CSSA R68M 10	Electrolytic 0.68 10V
C515	CEA 100P 25	Electrolytic 10 25V
C516	CCDSL 101K 50	Ceramic 100p 50V
C517	CQMA 683K 50	Mylar 0.068 50V
C518	CEA 221P 25	Electrolytic 220 25V
C519	CEA 101P 25	Electrolytic 100 25V
C520	CCDSL 220K 50	Ceramic 22p 50V
C521	CEA 101P 25	Electrolytic 100 25V

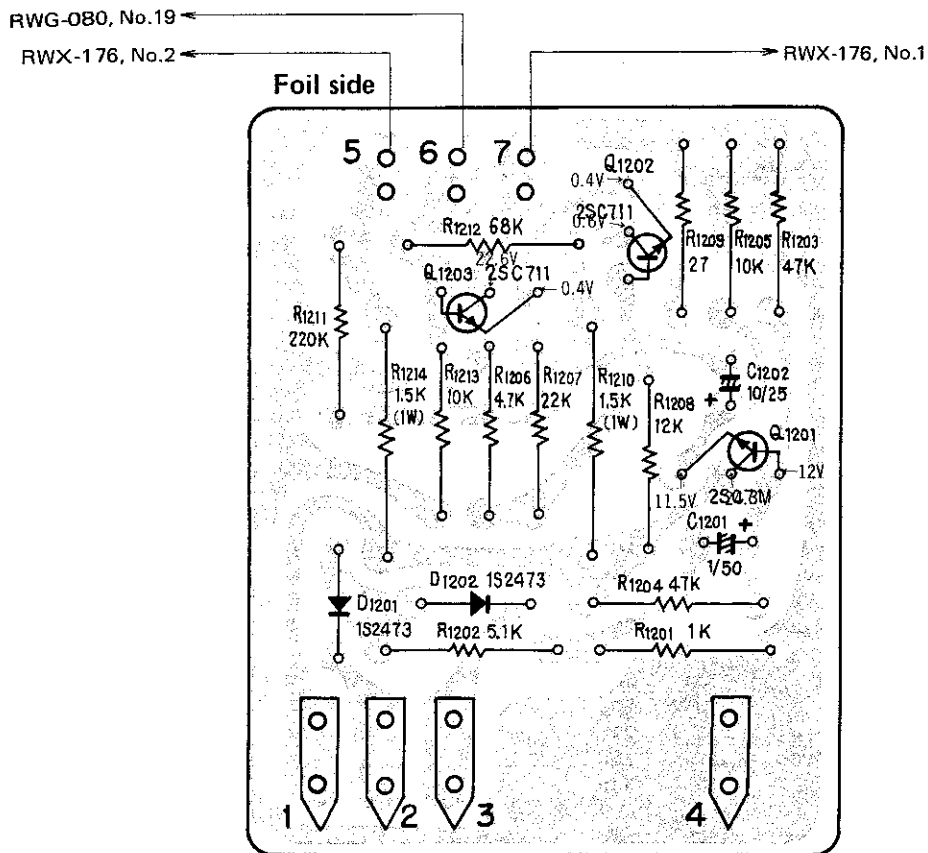
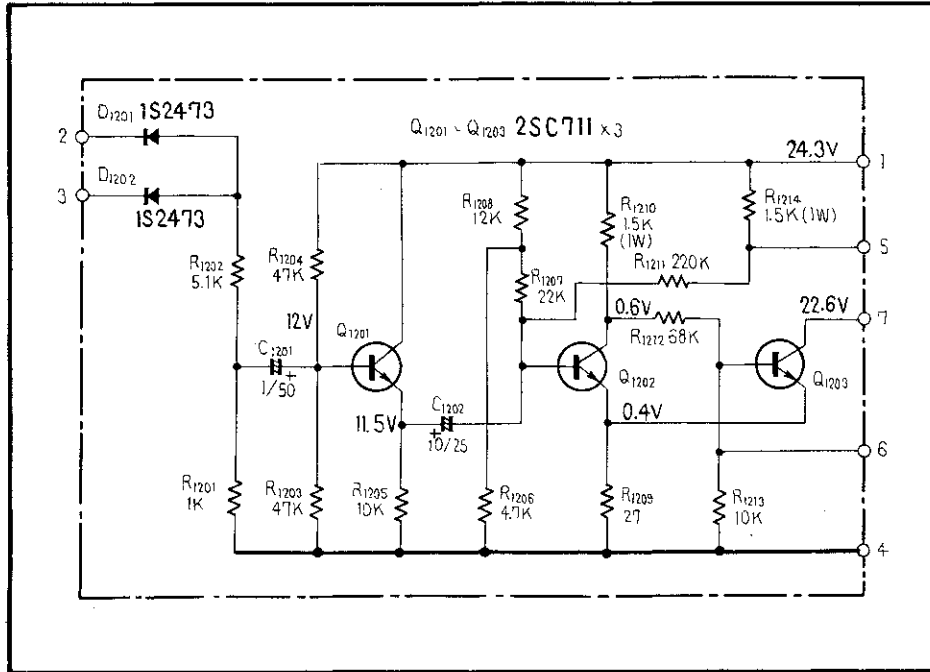
RESISTORS

Symbol	Part No.	Description
R501	RD¼PS 471J	Carbon film 470
R502	RD¼PS 223J	Carbon film 22k
R503	RD¼PS 183J	Carbon film 18k
R504	RD¼PS 223J	Carbon film 22k
R505	RD¼PS 223J	Carbon film 22k
R506	RD¼PS 103J	Carbon film 10k
R507	RD¼PS 102J	Carbon film 1k
R508	RD¼PS 104J	Carbon film 100k
R509	RD¼PS 753J	Carbon film 75k
R510	RD¼PS 104J	Carbon film 100k
R511	RD¼PS 104J	Carbon film 100k
R512	RD¼PS 222J	Carbon film 2.2k
R513	RD¼PS 103J	Carbon film 10k
R514	RD¼PS 682J	Carbon film 6.8k
R515	RD¼PS 104J	Carbon film 100k
R516	RD¼PSF 101J	Carbon film 100
R517	RD¼PS 224J	Carbon film 220k
R518	RD¼PS 222J	Carbon film 2.2k

SEMICONDUCTOR

Symbol	Part No.	Description
IC501	PA4001	IC

9.14 PEAK AMPLIFIER ASSEMBLY (RWX-179)



Parts List

CAPACITORS

Symbol	Part No.	Description
C1201	CEA 010P 50	Electrolytic 1 50V
C1202	CEA 100P 25	Electrolytic 10 25V

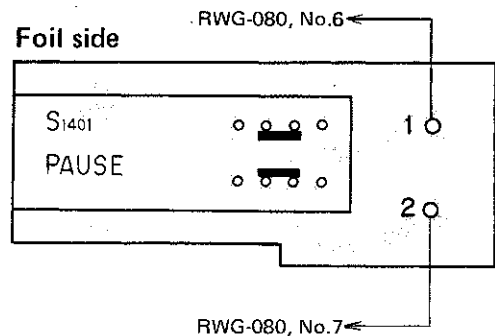
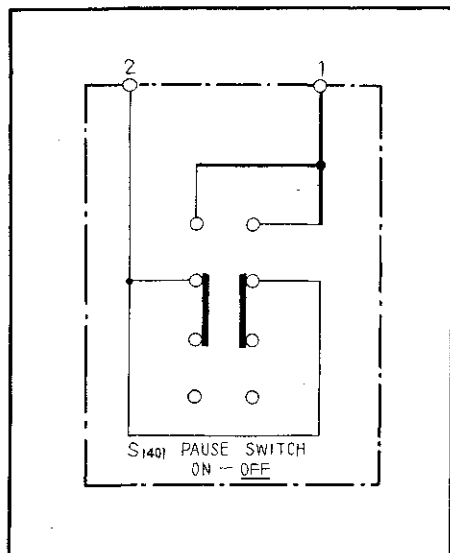
RESISTORS

Symbol	Part No.	Description
R1201	RD¼PS 102J	Carbon film 1k
R1202	RD¼PS 512J	Carbon film 5.1k
R1203	RD¼PS 473J	Carbon film 47k
R1204	RD¼PS 473J	Carbon film 47k
R1205	RD¼PS 103J	Carbon film 10k
R1206	RD¼PS 472J	Carbon film 4.7k
R1207	RD¼PS 223J	Carbon film 22k
R1208	RD¼PS 123J	Carbon film 12k
R1209	RD¼PS 270J	Carbon film 27
R1210	RD1PS 152J	Metal oxide 1.5k 1W
R1211	RD¼PS 224J	Carbon film 220k
R1212	RD¼PS 683J	Carbon film 68k
R1213	RD¼PS 103J	Carbon film 10k
R1214	RS1PS 152J	Metal oxide 1.5k 1W

SEMICONDUCTORS

Symbol	Part No.	Description
Q1201	2SC711-E or F	Transistor
Q1202	2SC711-E or F	Transistor
Q1203	2SC711-E or F	Transistor
D1201	1S2473	Diode
D1202	1S2473	Diode

9.15 PAUSE SWITCH ASSEMBLY (RWS-064)

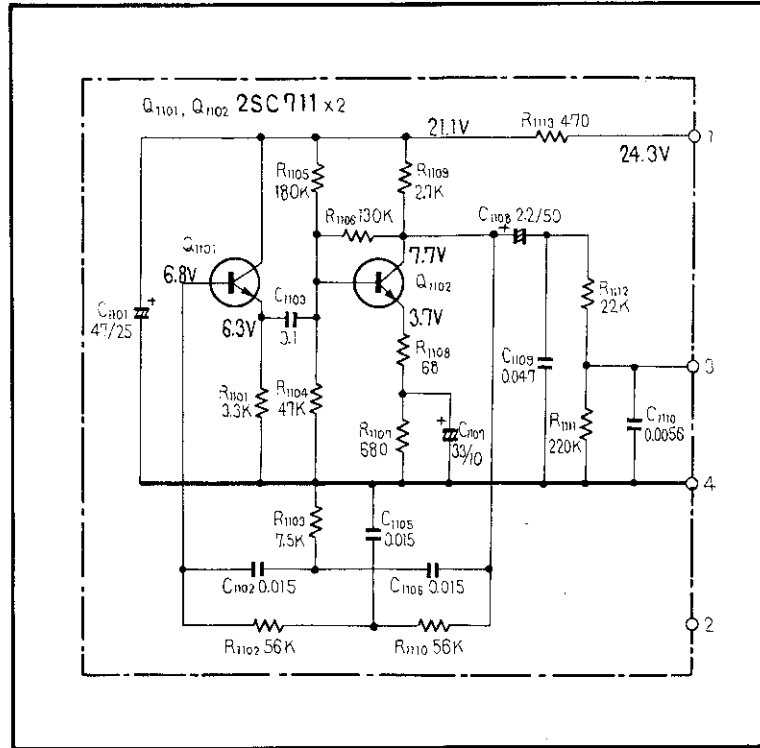


Part List

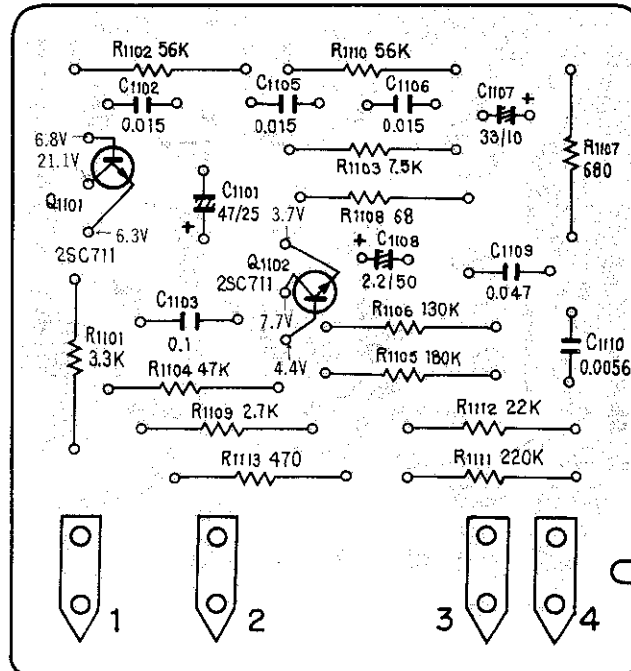
SWITCH

Symbol	Part No.	Description
S1401	RSK-042	Lever switch E

9.16 TEST TONE ASSEMBLY (RWA-028)



Foil side



Parts List

CAPACITORS

Symbol	Part No.	Description
C1101	CEA 470P 25	Electrolytic 47 25V
C1102	CQMA 153K 50	Mylar 0.015 50V
C1103	CQMA 104K 50	Mylar 0.1 50V
C1105	CQMA 153K 50	Mylar 0.015 50V
C1106	CQMA 153K 50	Mylar 0.015 50V
C1107	CEA 330P 10	Electrolytic 33 10V
C1108	CEA 2R2P 50	Electrolytic 2.2 50V
C1109	CQMA 473K 50	Mylar 0.047 50V
C1110	CQMA 562K 50	Mylar 5600p 50V

RESISTORS

Symbol	Part No.	Description
R1101	RD $\frac{1}{4}$ PS 332J	Carbon film 3.3k
R1102	RD $\frac{1}{4}$ PS 563J	Carbon film 56k
R1103	RD $\frac{1}{4}$ PS 752J	Carbon film 7.5k
R1104	RD $\frac{1}{4}$ PS 473J	Carbon film 47k
R1105	RD $\frac{1}{4}$ PS 184J	Carbon film 180k
R1106	RD $\frac{1}{4}$ PS 134J	Carbon film 130k
R1107	RD $\frac{1}{4}$ PS 681J	Carbon film 680
R1108	RD $\frac{1}{4}$ PS 680J	Carbon film 68
R1109	RD $\frac{1}{4}$ PS 272J	Carbon film 2.7k
R1110	RD $\frac{1}{4}$ PS 563J	Carbon film 56k
R1111	RD $\frac{1}{4}$ PS 224J	Carbon film 220k
R1112	RD $\frac{1}{4}$ PS 223J	Carbon film 22k
R1113	RD $\frac{1}{4}$ PSF 471J	Carbon film 470

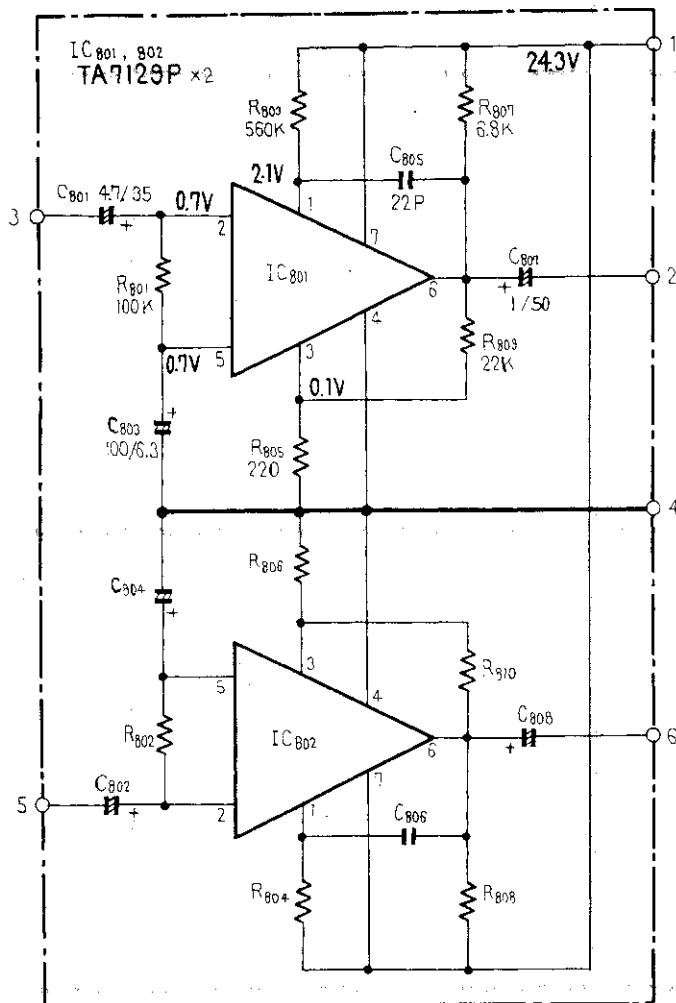
SEMICONDUCTORS

Symbol	Part No.	Description
Q1101	2SC711-E or F	Transistor
Q1102	2SC711-E or F	Transistor

List of Changed Parts for Factory Modification

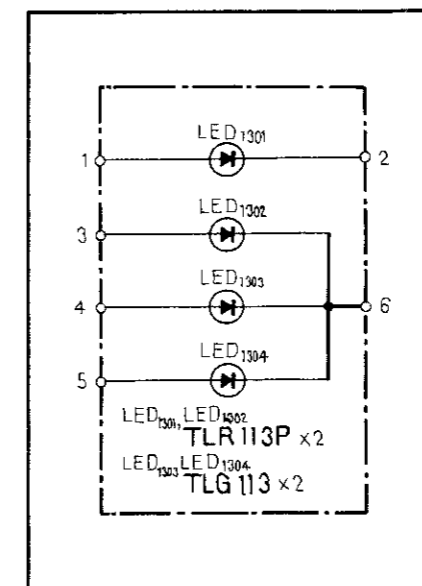
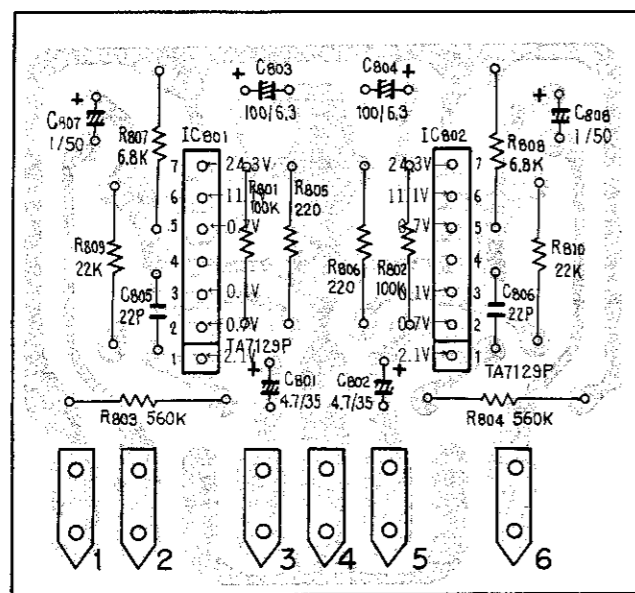
Symbol	Part No.	Description

9.17 FLAT AMPLIFIER ASSEMBLY (RWX-177)



9.18 INDICATOR ASSEMBLY (RWX-176)

Foil side



Parts List

CAPACITORS

Symbol	Part No.	Description
C801	CEA R47P 50	Electrolytic 4.7 50V
C802	CEA R47P 50	Electrolytic 4.7 50V
C803	CEA 101P 6R3	Electrolytic 100 6.3V
C804	CEA 101P 6R3	Electrolytic 100 6.3V
C805	CCDSL 220K 50	Ceramic 22p 50V
C806	CCDSL 220K 50	Ceramic 22p 50V
C807	CEA 110P 50	Electrolytic 1 50V
C808	CEA 110P 50	Electrolytic 1 50V

RESISTORS

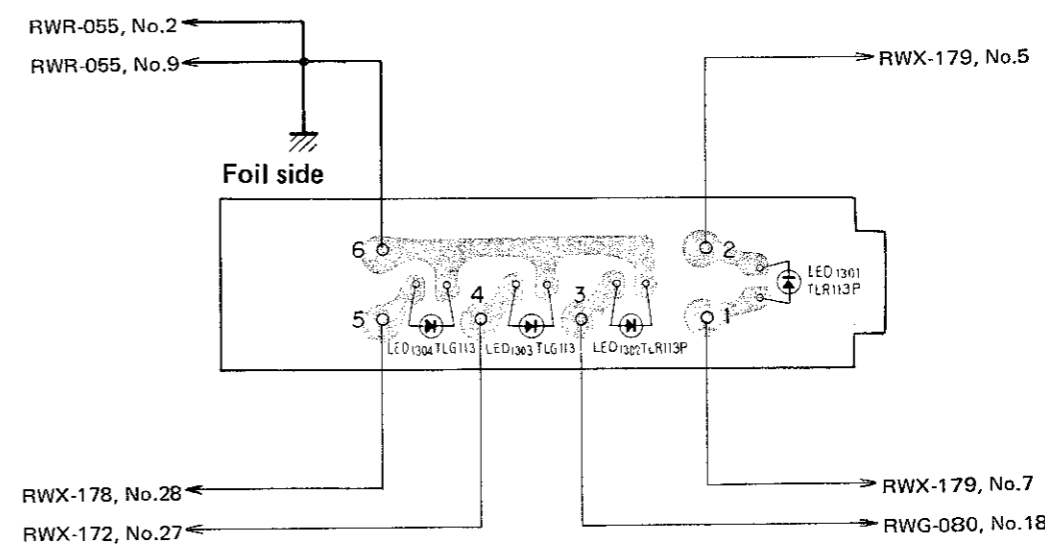
Symbol	Part No.	Description
R801	RD1/4PS 104J	Carbon film 100k
R802	RD1/4PS 104J	Carbon film 100k
R803	RD1/4PS 564J	Carbon film 560k
R804	RD1/4PS 564J	Carbon film 560k
R805	RD1/4PS 221J	Carbon film 220
R806	RD1/4PS 221J	Carbon film 220
R807	RD1/4PS 682J	Carbon film 6.8k
R808	RD1/4PS 682J	Carbon film 6.8k
R809	RD1/4PS 223J	Carbon film 22k
R810	RD1/4PS 223J	Carbon film 22k

SEMICONDUCTORS

Symbol	Part No.	Description
IC801	TA 7129P	IC
IC802	TA 7129P	IC

List of Changed Parts for Factory Modification

Symbol	Part No.	Description



Parts List

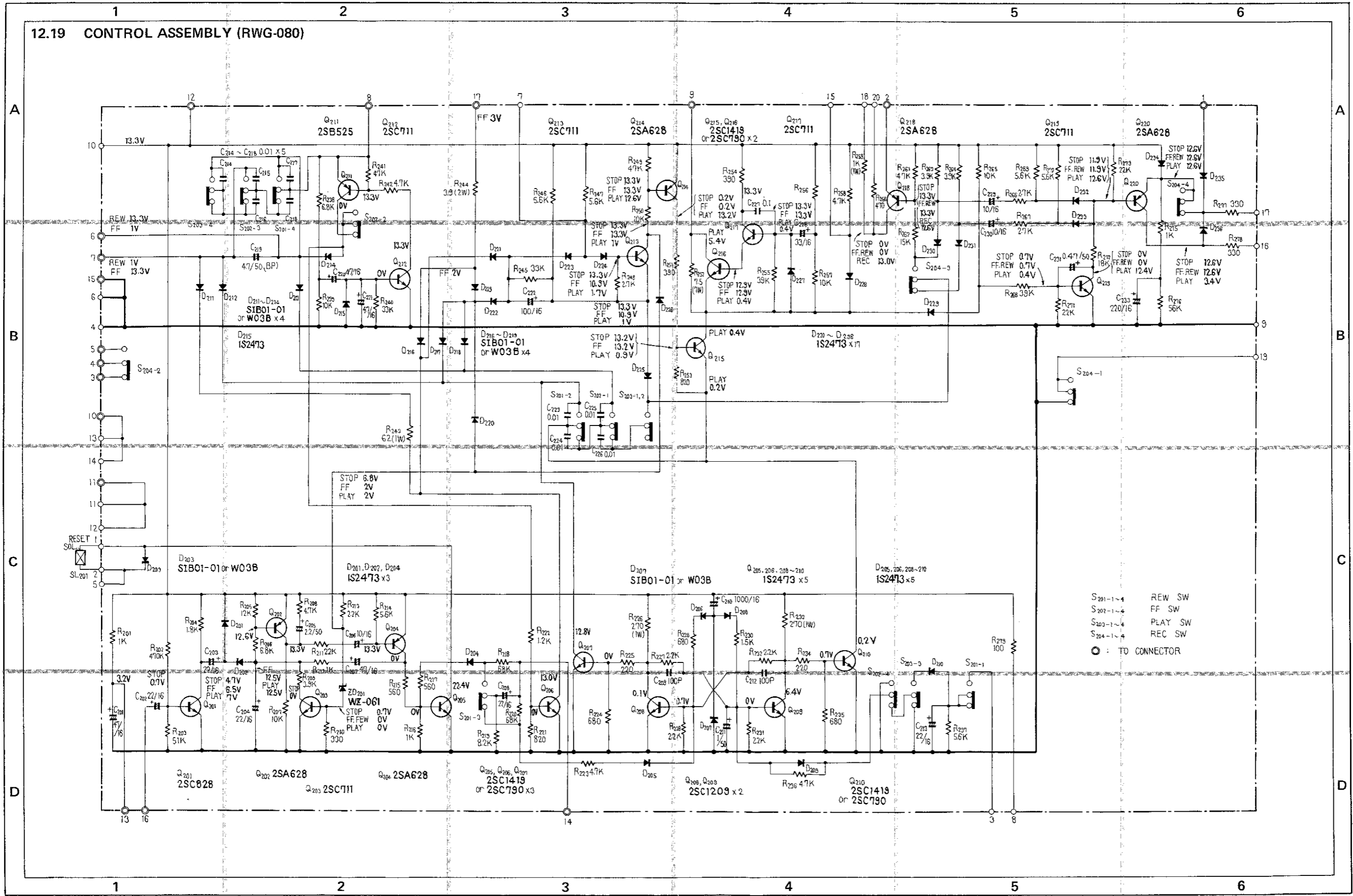
SEMICONDUCTORS

Symbol	Part No.	Description
LED1301	TLR-113P	Light emitting diode
LED1302	TLR-113P	Light emitting diode
LED1303	TLG-113	Light emitting diode
LED1304	TLG-113	Light emitting diode

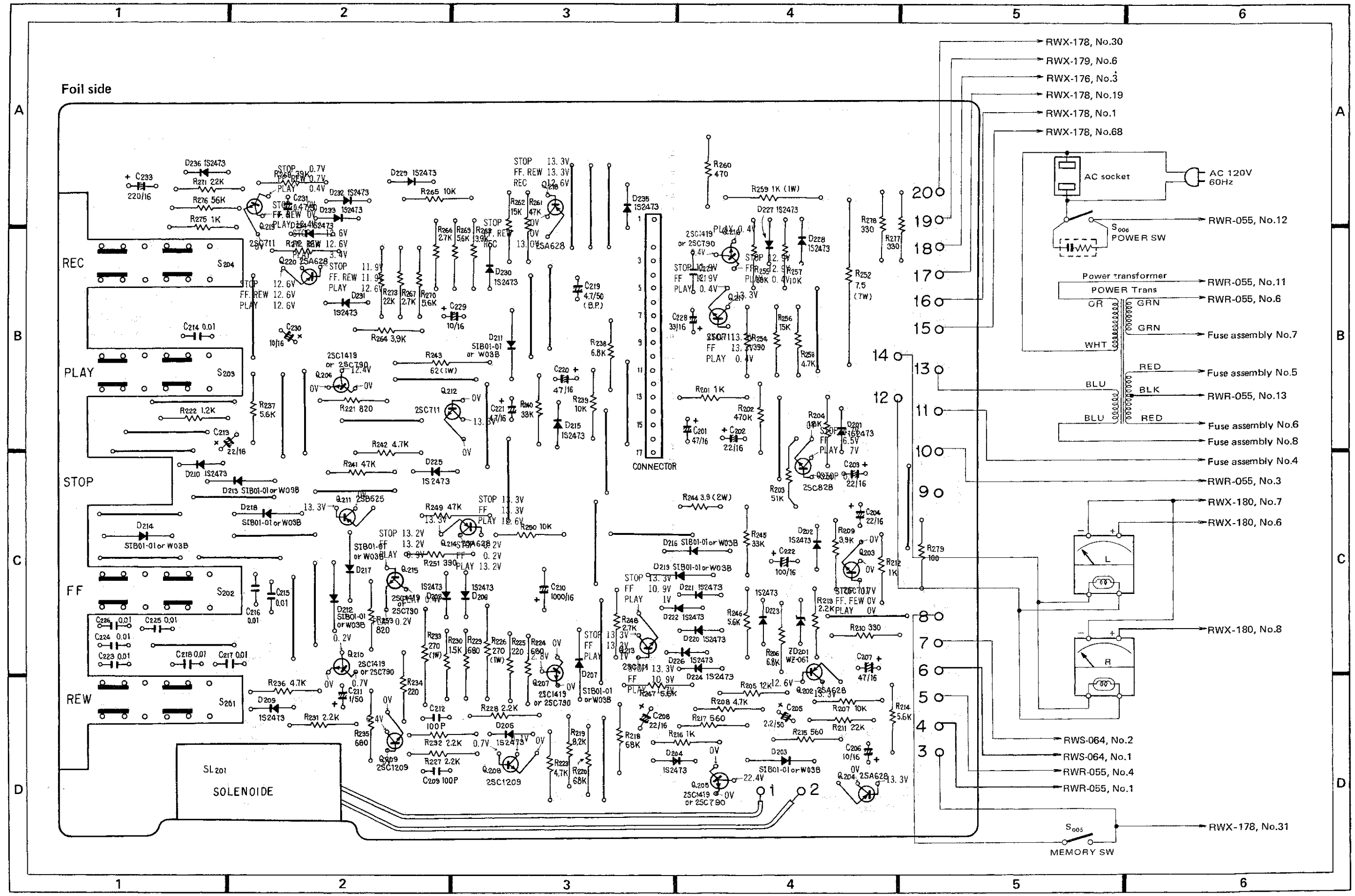
OTHER

Symbol	Part No.	Description
REB-179	REB-179	Diode Holder

12.19 CONTROL ASSEMBLY (RWG-080)



S201-1~4 REW SW
 S202-1~4 FF SW
 S203-1~4 PLAY SW
 S204-1~4 REC SW
 ○ : TO CONNECTOR



Foil side

REC

PLAY

STOP

FF

REW

SOLENOIDE

CONNECTOR

AC socket
AC 120V
60Hz

S₀₀₆
POWER SW

Power transformer
POWER Trans
OR
WHT

GRN
Fuse assembly No.7

RED
Fuse assembly No.5

BLK
RWR-055, No.13

RED
Fuse assembly No.6

Fuse assembly No.8

Fuse assembly No.4

RWR-055, No.3

RWX-180, No.7

RWX-180, No.6

RWX-180, No.8

RWS-064, No.2
RWS-064, No.1
RWR-055, No.4
RWR-055, No.1

S₀₀₅
MEMORY SW
RWX-178, No.31

Parts List of Control Assembly (RWG-080)

CAPACITORS

Symbol	Part No.	Description	Symbol	Part No.	Description
C201	CEA 470P 16	Electrolytic 47 16V	R211	RD%PS 223J	Carbon film 22k
C202	CEA 220P 16	Electrolytic 22 16V	R212	RD%PS 102J	Carbon film 1k
C203	CEA 220P 16	Electrolytic 22 16V	R213	RD%PS 222J	Carbon film 2.2k
C204	CEA 220P 16	Electrolytic 22 16V	R214	RD%PS 562J	Carbon film 5.6k
C205	CEA 2R2P 50	Electrolytic 2.2 50V	R215	RD%PS 561J	Carbon film 560
C206	CEA 100P 16	Electrolytic 10 16V	R216	RD%PS 102J	Carbon film 1k
C207	CEA 470P 16	Electrolytic 47 16V	R217	RD%PS 561J	Carbon film 560
C208	CEA 220P 16	Electrolytic 22 16V	R218	RD%PS 683J	Carbon film 68k
C209	CCDSL 101K 50	Ceramic 100p 50V	R219	RD%PS 822J	Carbon film 8.2k
C210	CEA 102P 16	Electrolytic 1000 16V	R220	RD%PS 683J	Carbon film 68k
C211	CEA 010P 50	Electrolytic 1 50V	R221	RD%PS 821J	Carbon film 820
C212	CCDSL 101K 50	Ceramic 100p 50V	R222	RD%PS 122J	Carbon film 1.2k
C213	CEA 220P 16	Electrolytic 22 16V	R223	RD%PS 472J	Carbon film 4.7k
C214	CKDYF 103Z 50	Ceramic 0.01 50V	R224	RD%PS 681J	Carbon film 680
C215	CKDYF 103Z 50	Ceramic 0.01 50V	R225	RD%PS 221J	Carbon film 220
C216	CKDYF 103Z 50	Ceramic 0.01 50V	R226	RS1P 271J	Metal oxide 270 1W
C217	CKDYF 103Z 50	Ceramic 0.01 50V	R227	RD%PS 222J	Carbon film 2.2k
C218	CKDYF 103Z 50	Ceramic 0.01 50V	R228	RD%PS 222J	Carbon film 2.2k
C219	RCH-026	Electrolytic 4.7 50V	R229	RD%PS 681J	Carbon film 680
C220	CEA 470P 16	Electrolytic 47 16V	R230	RD%PS 152J	Carbon film 1.5k
C221	CEA 4R7P 35	Electrolytic 4.7 35V	R231	RD%PS 222J	Carbon film 2.2k
C222	CEA 101P 16	Electrolytic 100 16V	R232	RD%PS 222J	Carbon film 2.2k
C223	CKDYF 103Z 50	Ceramic 0.01 50V	R233	RS1P 271J	Metal oxide 270 1W
C224	CKDYF 103Z 50	Ceramic 0.01 50V	R234	RD%PS 221J	Carbon film 220
C225	CKDYF 103Z 50	Ceramic 0.01 50V	R235	RD%PS 681J	Carbon film 680
C226	CKDYF 103Z 50	Ceramic 0.01 50V	R236	RD%PS 472J	Carbon film 4.7k
C227	CQMA 104K 50	Mylar 0.1 50V	R237	RD%PS 562J	Carbon film 5.6k
C228	CEA 330P 16	Electrolytic 33 16V	R238	RD%PS 682J	Carbon film 6.8k
C229	CEA 100P 16	Electrolytic 10 16V	R239	RD%PS 103J	Carbon film 10k
C230	CEA 100P 16	Electrolytic 10 16V	R240	RD%PS 333J	Carbon film 33k
C231	CEA R47P 50	Electrolytic 0.47 50V	R241	RD%PS 473J	Carbon film 47k
C233	CEA 221P 16	Electrolytic 220 16V	R242	RD%PS 472J	Carbon film 4.7k
			R243	RS1PSF 620J	Metal oxide 62 1W
			R244	RCN-031	Wire wound resistor 3.9 2W
			R245	RD%PS 333J	Carbon film 33k

RESISTORS

Symbol	Part No.	Description
R201	RD%PS 102J	Carbon film 1k
R202	RD%PS 474J	Carbon film 470k
R203	RD%PS 513J	Carbon film 51k
R204	RD%PS 182J	Carbon film 1.8k
R205	RD%PS 123J	Carbon film 12k
R206	RD%PS 682J	Carbon film 6.8k
R207	RD%PS 103J	Carbon film 10k
R208	RD%PS 472J	Carbon film 4.7k
R209	RD%PS 392J	Carbon film 3.9k
R210	RD%PS 331J	Carbon film 330
R246	RD%PS 562J	Carbon film 5.6k
R247	RD%PS 562J	Carbon film 5.6k
R248	RD%PS 272J	Carbon film 2.7k
R249	RD%PS 473J	Carbon film 47k
R250	RD%PS 103J	Carbon film 10k
R251	RD%PS 391J	Carbon film 390
R252	RCN-032	Wire wound resistor 7.5 7W
R253	RD%PS 821J	Carbon film 820
R254	RD%PS 391J	Carbon film 390
R255	RD%PS 393J	Carbon film 39k
R256	RD%PS 153J	Carbon film 15k

Symbol	Part No.	Description	Symbol	Part No.	Description
R257	RD%PS 103J	Carbon film 10k	Q207	2SC1419-C or 2SC790-Y	Transistor
R258	RD%PS 472J	Carbon film 4.7k	Q208	2SC1209-E	Transistor
R259	RS1P 102J	Metal oxide 1k 1W	Q209	2SC1209-E	Transistor
R260	RD%PS 471J	Carbon film 470	Q210	2SC1419-C or 2SC790-Y	Transistor
R261	RD%PS 473J	Carbon film 47k	Q211	2SB525-D or E	Transistor
R262	RD%PS 153J	Carbon film 15k	Q212	2SC711-E or F	Transistor
R263	RD%PS 392J	Carbon film 3.9k	Q213	2SC711-E or F	Transistor
R264	RD%PS 392J	Carbon film 3.9k	Q214	2SA628-E or F	Transistor
R265	RD%PS 103J	Carbon film 10k	Q215	2SC1419-C or 2SC790-Y	Transistor
R266	RD%PS 272J	Carbon film 2.7k	Q216	2SC1419-C or 2SC790-Y	Transistor
R267	RD%PS 272J	Carbon film 2.7k	Q217	2SC711-E or F	Transistor
R268	RD%PS 393J	Carbon film 39k	Q218	2SA628-E or F	Transistor
R269	RD%PS 562J	Carbon film 5.6k	Q219	2SC711-E or F	Transistor
R270	RD%PS 562J	Carbon film 5.6k	Q220	2SA628-E or F	Transistor
R271	RD%PS 223J	Carbon film 22k	D201	1S2473	Diode
R272	RD%PS 183J	Carbon film 18k	D202	1S2473	Diode
R273	RD%PS 223J	Carbon film 22k	D203	SIB01-01 or W03B	Diode
R275	RD%PS 102J	Carbon film 1k	D204	1S2473	Diode
R276	RD%PS 563J	Carbon film 56k	D205	1S2473	Diode
R277	RD%PS 331J	Carbon film 330	D206	1S2473	Diode
R278	RD%PS 331J	Carbon film 330	D207	SIB01-01 or W03B	Diode
R279	RD%PS 101J	Carbon film 100	D208	1S2473	Diode

OTHERS

Symbol	Part No.	Description
SL201	RXP-032	Solenoid D
S201	RSG-055	Function switch
S202	RSG-055	Function switch
S203	RSG-055	Function switch
S204	RSG-055	Function switch
RKP-033		Connector (17P)
RNE-889		Release plate
RBH-152		Release spring
D209	1S2473	Diode
D210	1S2473	Diode
D211	SIB01-01 or W03B	Diode
D212	SIB01-01 or W03B	Diode
D213	SIB01-01 or W03B	Diode
D214	SIB01-01 or W03B	Diode
D215	1S2473	Diode
D216	SIB01-01 or W03B	Diode
D217	SIB01-01 or W03B	Diode
D218	SIB01-01 or W03B	Diode
D219	SIB01-01 or W03B	Diode

SEMICONDUCTORS

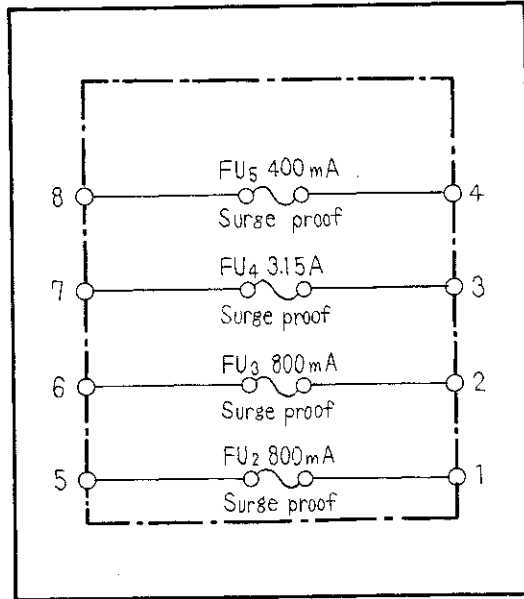
Symbol	Part No.	Description
Q201	2SC828-S	Transistor
Q202	2SA628-E or F	Transistor
Q203	2SC711-E or F	Transistor
Q204	2SA628-E or F	Transistor
Q205	2SC1419-C or 2SC790-Y	Transistor
Q206	2SC1419-C or 2SC790-Y	Transistor

List of Changed Parts for Factory Modification

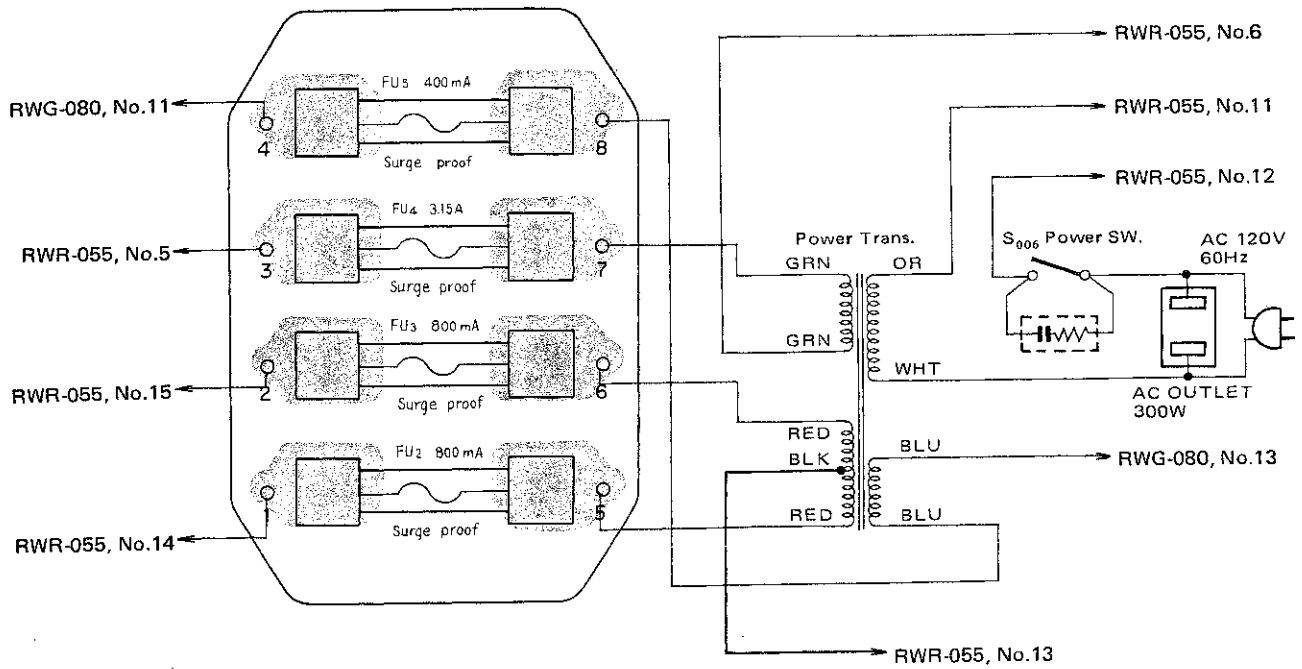
Symbol	Part No.	Description
D220	1S2473	Diode
D221	1S2473	Diode
D222	1S2473	Diode
D223	1S2473	Diode
D224	1S2473	Diode
D225	1S2473	Diode
D226	1S2473	Diode
D227	1S2473	Diode
D228	1S2473	Diode
D229	1S2473	Diode
D230	1S2473	Diode
D231	1S2473	Diode
D232	1S2473	Diode
D233	1S2473	Diode
D234	1S2473	Diode
D235	1S2473	Diode
D236	1S2473	Diode
ZD201	WZ-061	Zener Diode

Symbol	Part No.	Description
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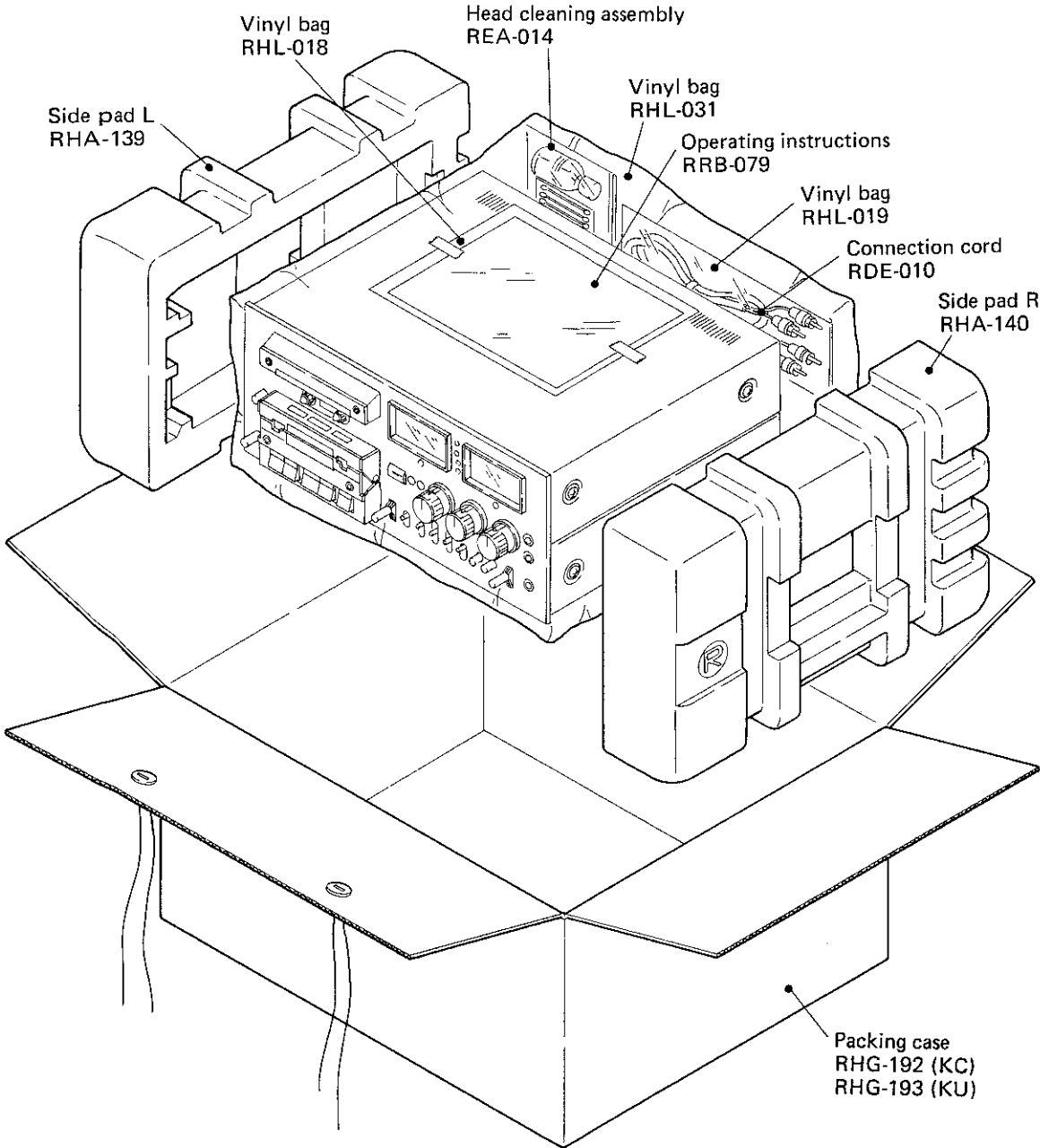
9.20 FUSE ASSEMBLY



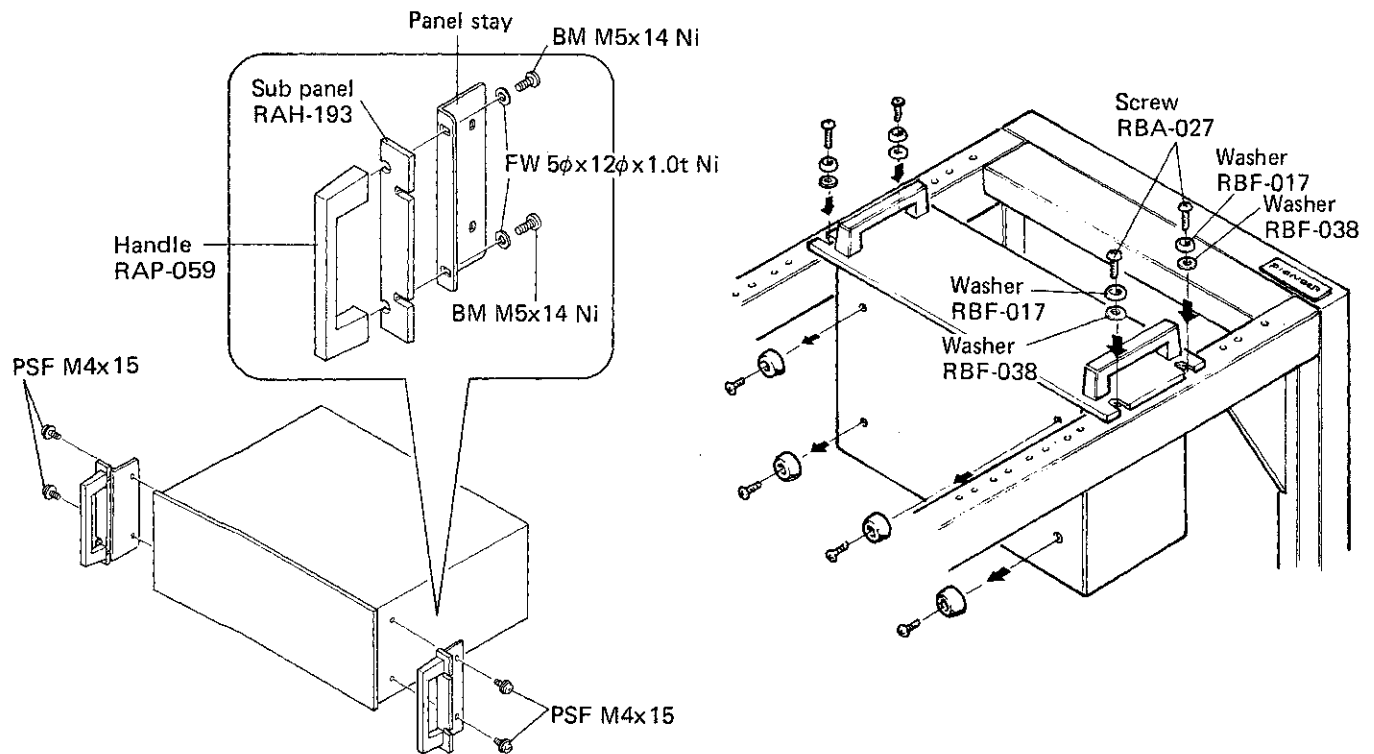
Foil side



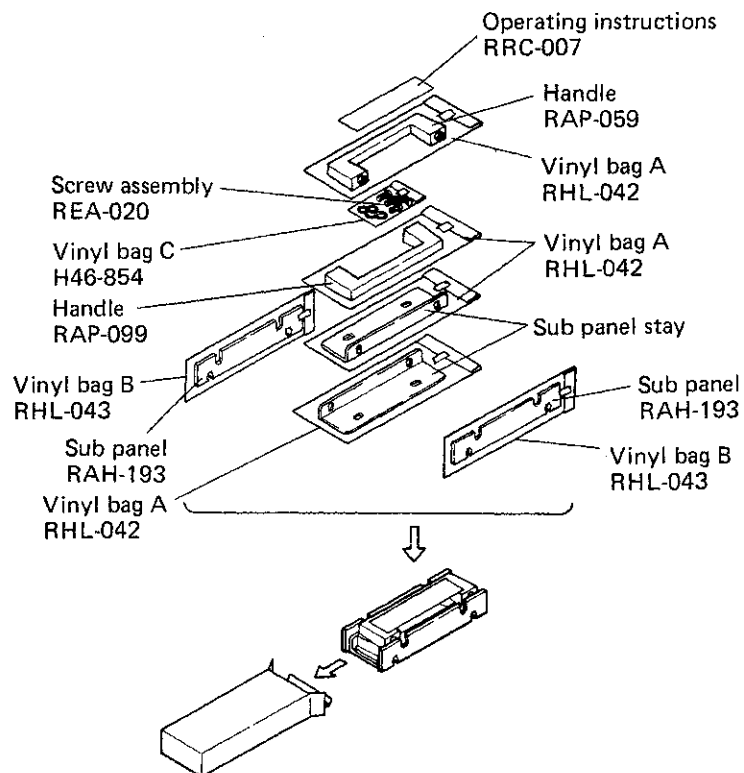
10. PACKING



11. RACK MOUNT ADAPTOR JA-R102(EIA STANDARDS)



Packing



1. CONTRAST OF MISCELLANEOUS PARTS

SWITCHES

Symbol & Description	Part No.		
	KC, KU	D, D/G	HG
Power switch	RSA-016	RSA-014	RSA-017
Push switch	RSG-053	RSG-056	RSG-056

TRANSFORMER

Symbol & Description	Part No.		
	KC, KU	D, D/G	HG
Power transformer	RTT-117	RTT-122	RTT-126

CAPACITORS

Symbol & Description	Part No.		
	KC, KU	D, D/G	HG
C001 Ceramic 0.047 50V	CKDYF 473Z 50	←	←
C002 Ceramic 0.047 50V	CKDYF 473Z 50	←	←

RESISTORS

Symbol & Description	Part No.		
	KC, KU	D, D/G	HG
R001 Carbon film 2.2k	RD4PS 222J	←	←
R002 Carbon film 2.2k	RD4PS 222J	←	←

ASSEMBLIES

Symbol & Description	Part No.		
	KC, KU	D, D/G	HG
Main board assembly	RWX-178	←	←
Volume assembly	RWX-181	←	←
Indicator assembly	RWX-176	←	←
Power supply assembly	RWR-055	RWR-057	RWR-060
Control assembly	RWG-080	RWG-083	RWG-084
Pause switch assembly	RWS-064	←	←

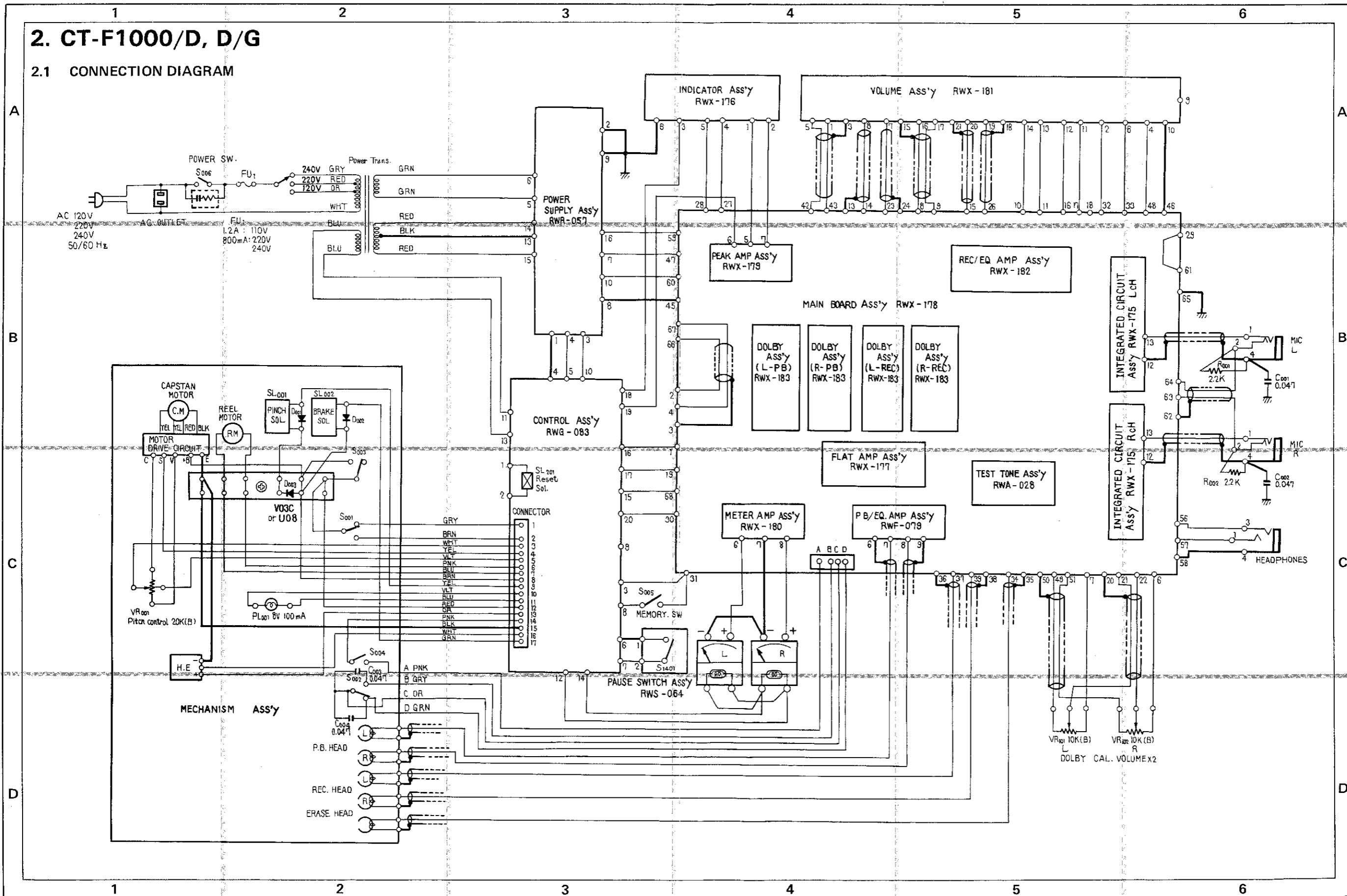
OTHERS

Symbol & Description	Part No.			Remarks
	KC, KU	D, D/G	HG	
Power cord	RDG-013 (KU)	RDG-004	Switchable 3 voltage Switchable 2 voltage
Line voltage selector	.....	RKP-020	.....
Line voltage selector	RKR-019	English Germany/French
3 pin inlet	.....	.....	RKP-014
2 pin terminal	.....	.....	AKC-021
Packing case	RHG-192 (KC) RHG-193 (KU)	RHG-205 (D) RHG-202 (D/G)	RHG-207	
Operating instructions	RRB-079	RRB-083	RRB-083 RRD-024	English Germany/French
Spark killer	RWX-109 (KU) RWX-150 (KC)	RWX-110	.....
Vinyl bag C	H46-854	For JA-R102
Spacer A	.....	RHC-059	.....
Spacer B	.....	RHC-074	.....
Spacer C	.....	RHC-075	.....
Spacer	.....	RHC-073	.....

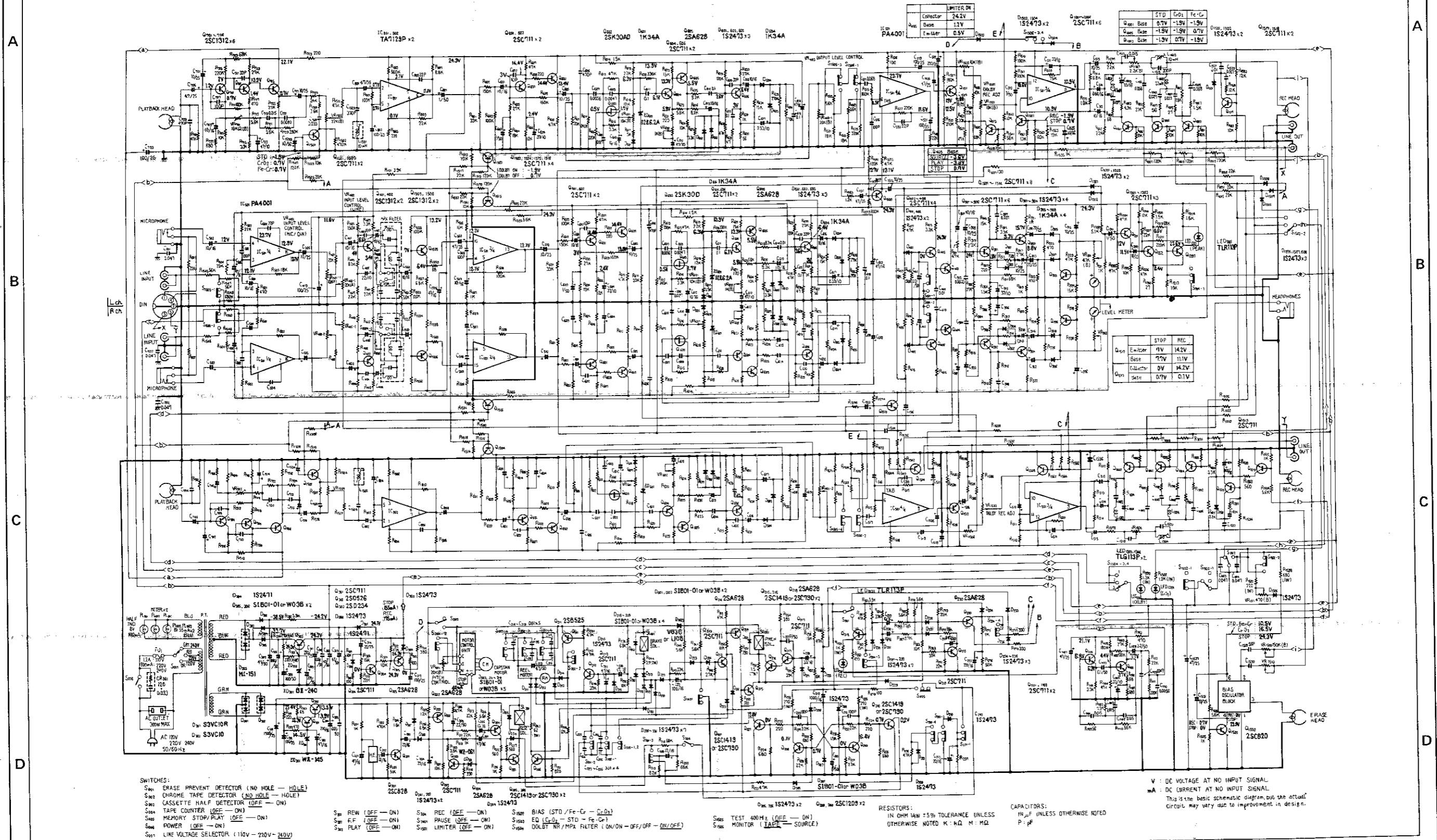
CT-F1000/D, D/G

2. CT-F1000/D, D/G

2.1 CONNECTION DIAGRAM



2.2 SCHEMATIC DIAGRAM



- SWITCHES:
- S101 ERASE PREVENT DETECTOR (NO HOLE - HOLE)
 - S102 CHROME TAPE DETECTOR (NO HOLE - HOLE)
 - S103 CASSETTE HALF DETECTOR (OFF - ON)
 - S104 TAPE COUNTER (OFF - ON)
 - S105 MEMORY STOP/PLAY (OFF - ON)
 - S106 POWER (OFF - ON)
 - S107 LINE VOLTAGE SELECTOR (110V - 230V)

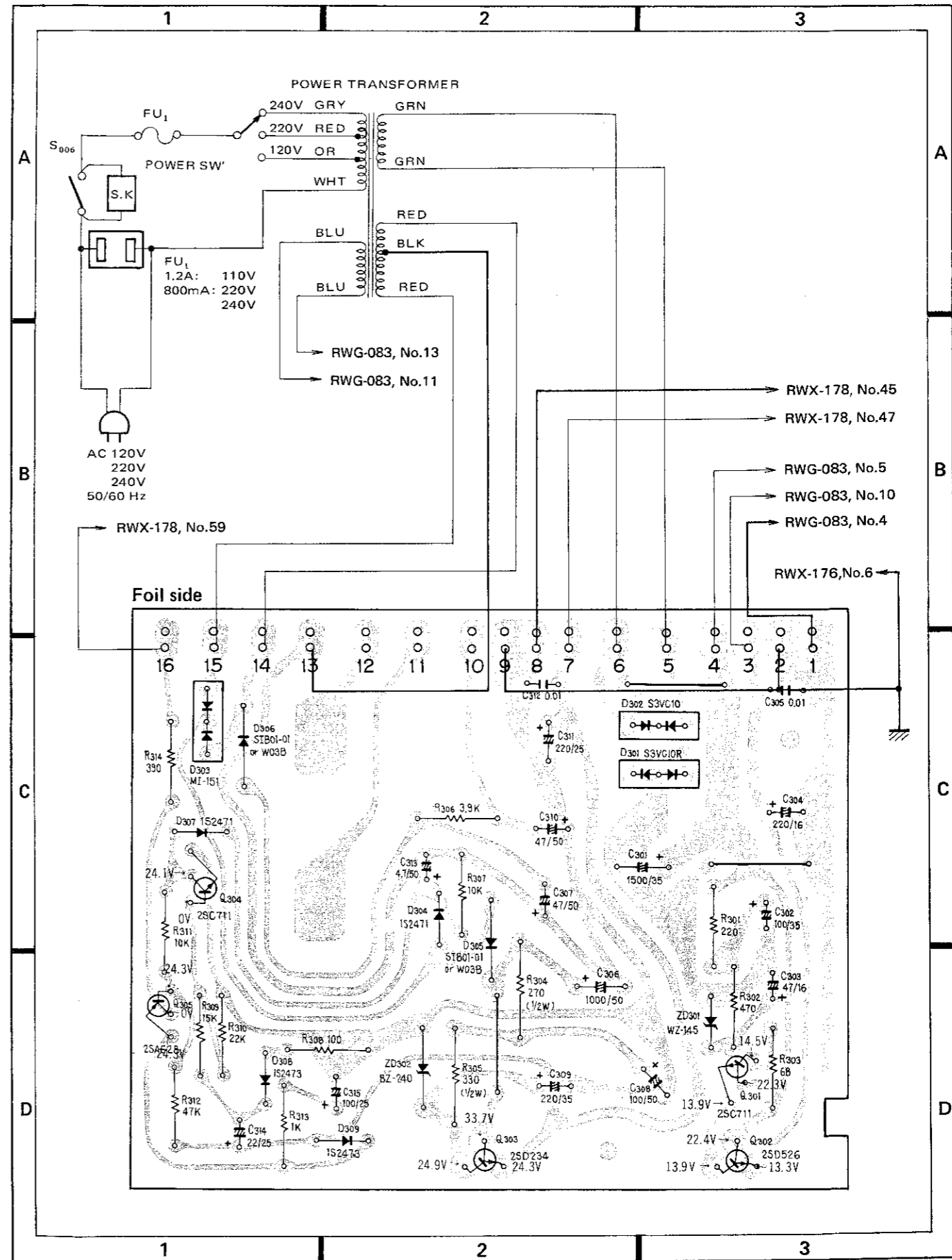
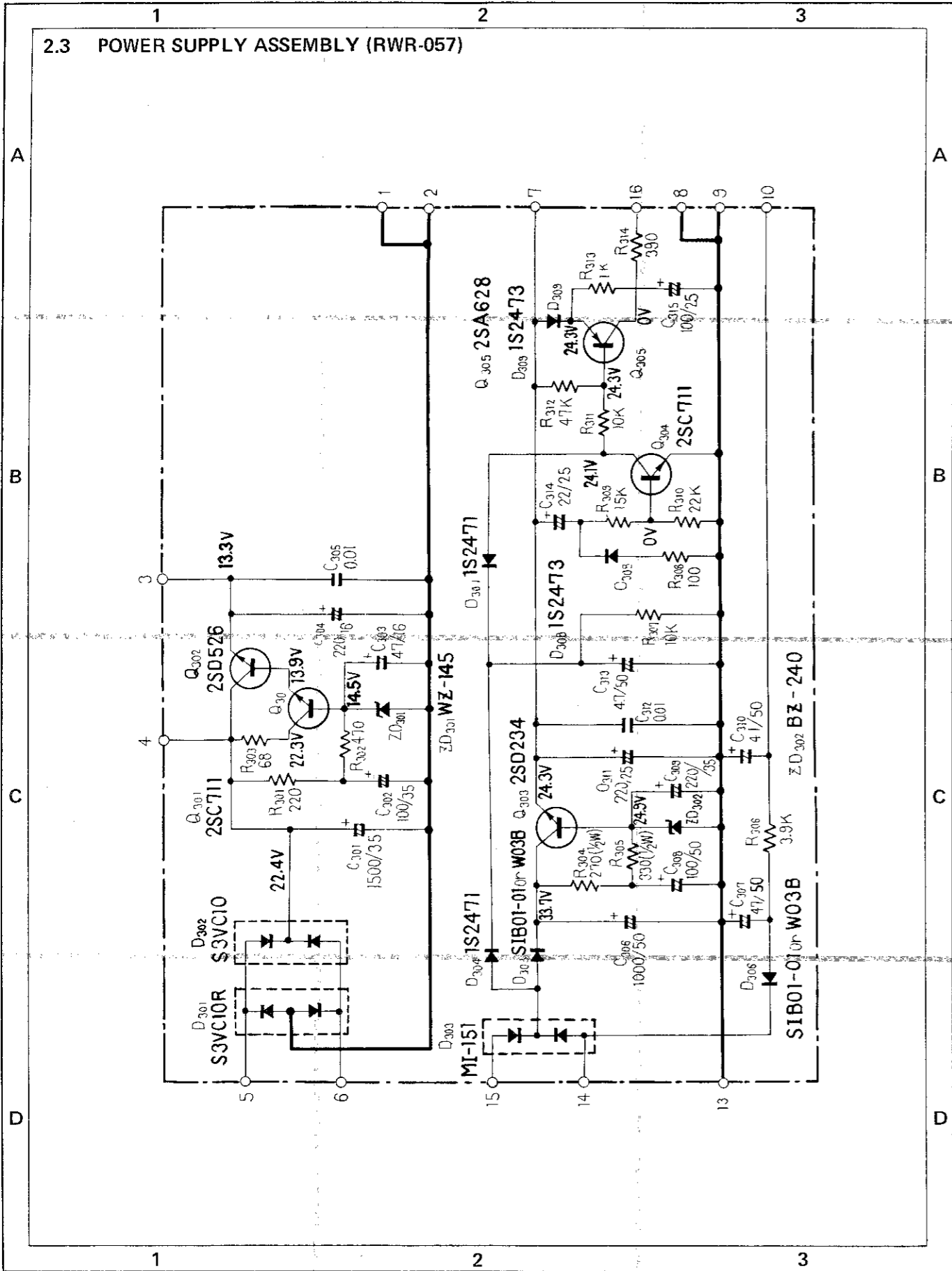
- S108 REW (OFF - ON)
- S109 REC (OFF - ON)
- S110 PAUSE (OFF - ON)
- S111 LIMITER (OFF - ON)
- S112 BIAS (STD/Fc-C₀ - C₀)
- S113 ED (C₀ - STD - Fc-C₁)
- S114 DOLBY NR/MPA FILTER (ON/ON - OFF/OFF - ON/OFF)

- S115 TEST 400 Hz (OFF - ON)
- S116 MONITOR (TAP - SOURCE)

- RESISTORS:
- IN OHM 1% 5% TOLERANCE UNLESS OTHERWISE NOTED
 - K: KΩ M: MΩ

- CAPACITORS:
- IN μF UNLESS OTHERWISE NOTED
 - P: pF

V : DC VOLTAGE AT NO INPUT SIGNAL
 MA : DC CURRENT AT NO INPUT SIGNAL
 This is the basic schematic diagram, but the actual circuit may vary due to improvement in design.



Symbol	Part No.	Description	Symbol	Part No.	Description
R256	RD¼PS 153J	Carbon film 15k	Q207	2SC1419-C or	Transistor
R257	RD¼PS 103J	Carbon film 10k		2SC790-Y	
R258	RD¼PS 472J	Carbon film 4.7k	Q208	2SC1209-E	Transistor
R259	RS1P 102J	Metal oxide 1k	Q209	2SC1209-E	Transistor
R260	RD¼PS 471J	Carbon film 470	Q210	2SC1419-C or	Transistor
				2SC790-Y	
R261	RD¼PS 473J	Carbon film 47k	Q211	2SB525-D or E	Transistor
R262	RD¼PS 153J	Carbon film 15k	Q212	2SC711-E or F	Transistor
R263	RD¼PS 392J	Carbon film 3.9k	Q213	2SC711-E or F	Transistor
R264	RD¼PS 392J	Carbon film 3.9k	Q214	2SA628-E or F	Transistor
R265	RD¼PS 103J	Carbon film 10k	Q215	2SC1419-C or	Transistor
				2SC790-Y	
R266	RD¼PS 272J	Carbon film 2.7k	Q216	2SC1419-C or	Transistor
R267	RD¼PS 272J	Carbon film 2.7k		2SC790-Y	
R268	RD¼PS 393J	Carbon film 39k	Q217	2SC711-E or F	Transistor
R269	RD¼PS 562J	Carbon film 5.6k	Q218	2SA628-E or F	Transistor
R270	RD¼PS 562J	Carbon film 5.6k	Q219	2SC711-E or F	Transistor
R271	RD¼PS 223J	Carbon film 22k	Q220	2SA628-E or F	Transistor
R272	RD¼PS 183J	Carbon film 18k			
R273	RD¼PS 223J	Carbon film 22k	D201	1S2473	Diode
R275	RD¼PS 102J	Carbon film 1k	D202	1S2473	Diode
R276	RD¼PS 563J	Carbon film 56k	D203	SIB01-01 or	Diode
				W03B	
R277	RD¼PS 331J	Carbon film 330	D204	1S2473	Diode
R278	RD¼PS 331J	Carbon film 330			
R279	RD¼PSF 101J	Carbon film 100	D205	1S2473	Diode

OTHERS

Symbol	Part No.	Description
SL201	RXP-032	Solenoid D
S201	RSG-056	Function switch
S202	RSG-056	Function switch
S203	RSG-056	Function switch
S204	RSG-056	Function switch
	RKP-033	Connector (17P)
	RNE-889	Release plate
	RBH-152	Release spring

SEMICONDUCTORS

Symbol	Part No.	Description
Q201	2SC828-S	Transistor
Q202	2SA628-E or F	Transistor
Q203	2SC711-E or F	Transistor
Q204	2SA628-E or F	Transistor
Q205	2SC1419-C or 2SC790-Y	Transistor
Q206	2SC1419-C or 2SC790-Y	Transistor

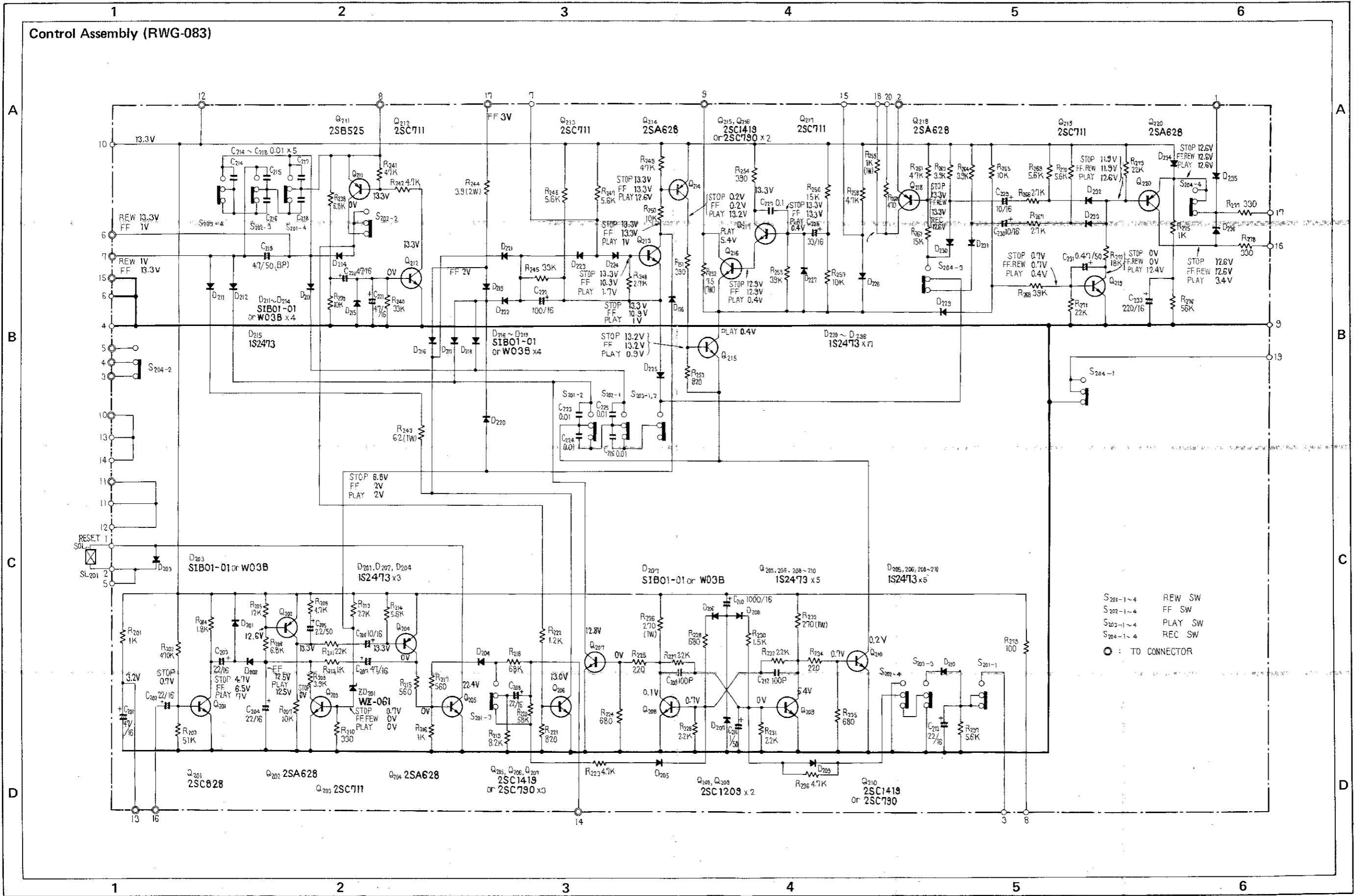
Symbol	Part No.	Description
D221	1S2473	Diode
D222	1S2473	Diode
D223	1S2473	Diode
D224	1S2473	Diode
D225	1S2473	Diode
D226	1S2473	Diode
D227	1S2473	Diode
D228	1S2473	Diode
D229	1S2473	Diode
D230	1S2473	Diode
D231	1S2473	Diode
D232	1S2473	Diode
D233	1S2473	Diode
D234	1S2473	Diode
D235	1S2473	Diode
D236	1S2473	Diode
ZD201	WZ-061	Zener Diode

List of Changed Parts for Factory Modification

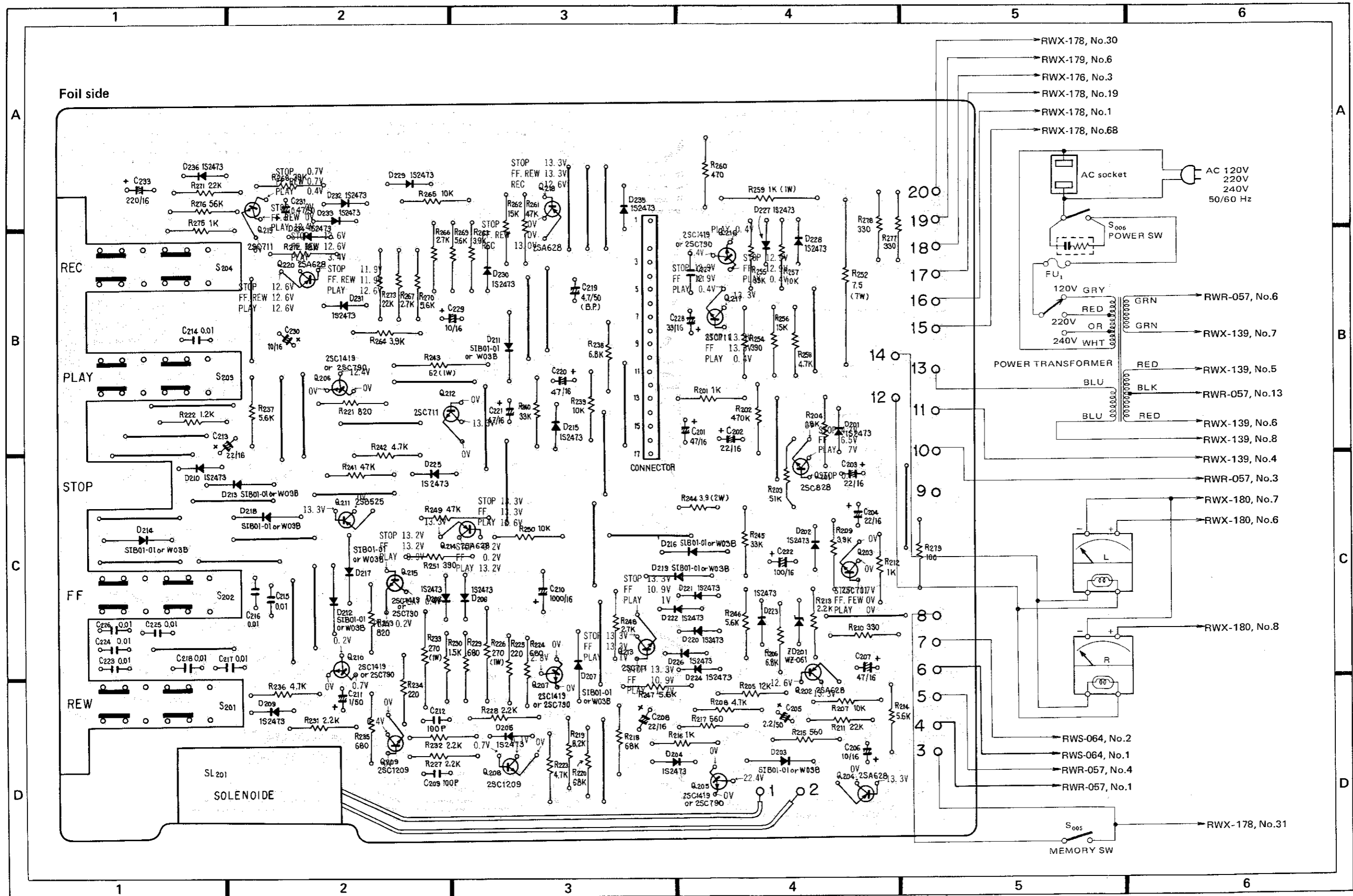
Symbol	Part No.	Description

CT-F1000/D, D/G

Control Assembly (RWG-083)



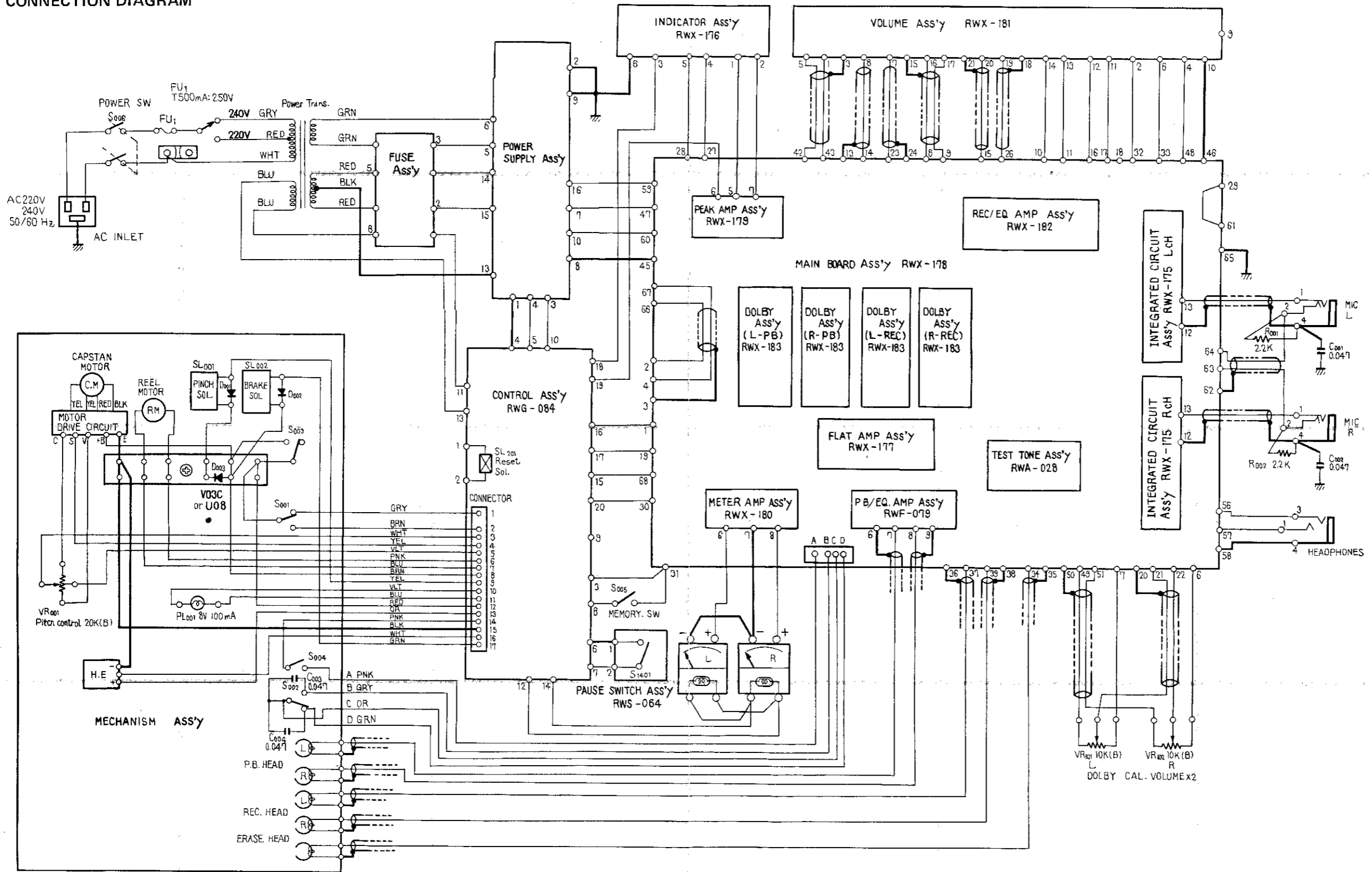
- S201-1~4 REW SW
- S202-1~4 FF SW
- S203-1~4 PLAY SW
- S204-1~4 REC SW
- : TO CONNECTOR



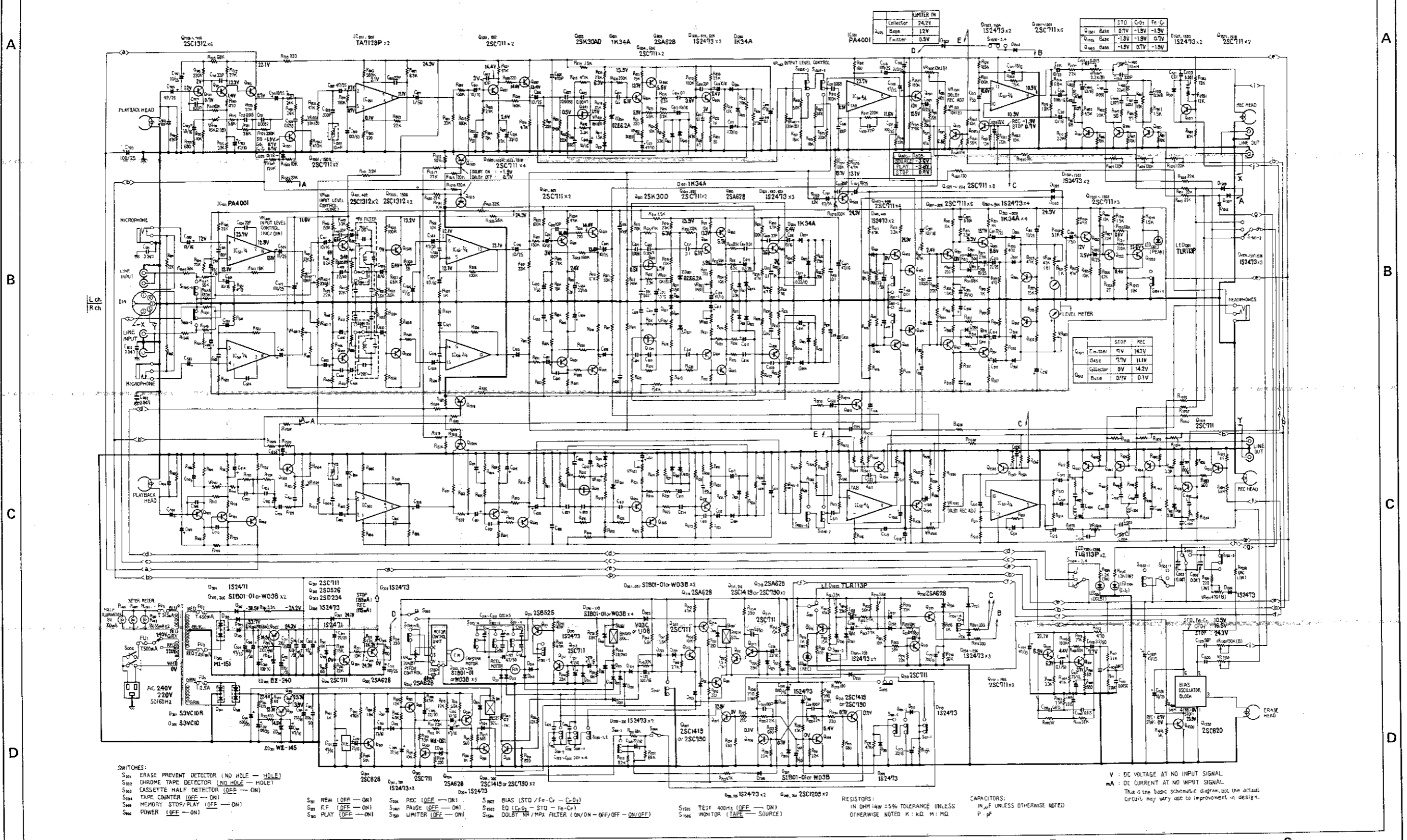
3. CT-F1000/HG

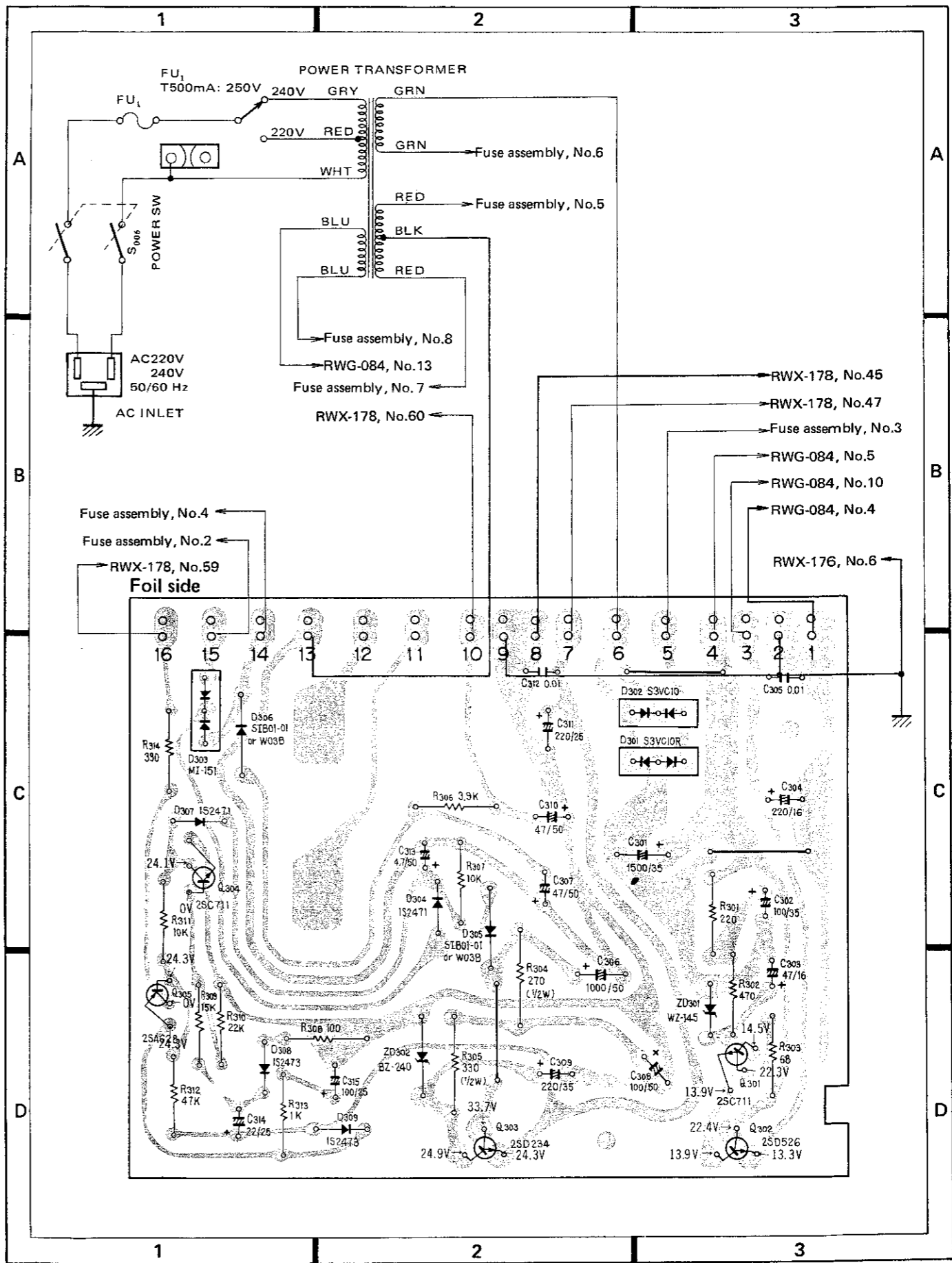
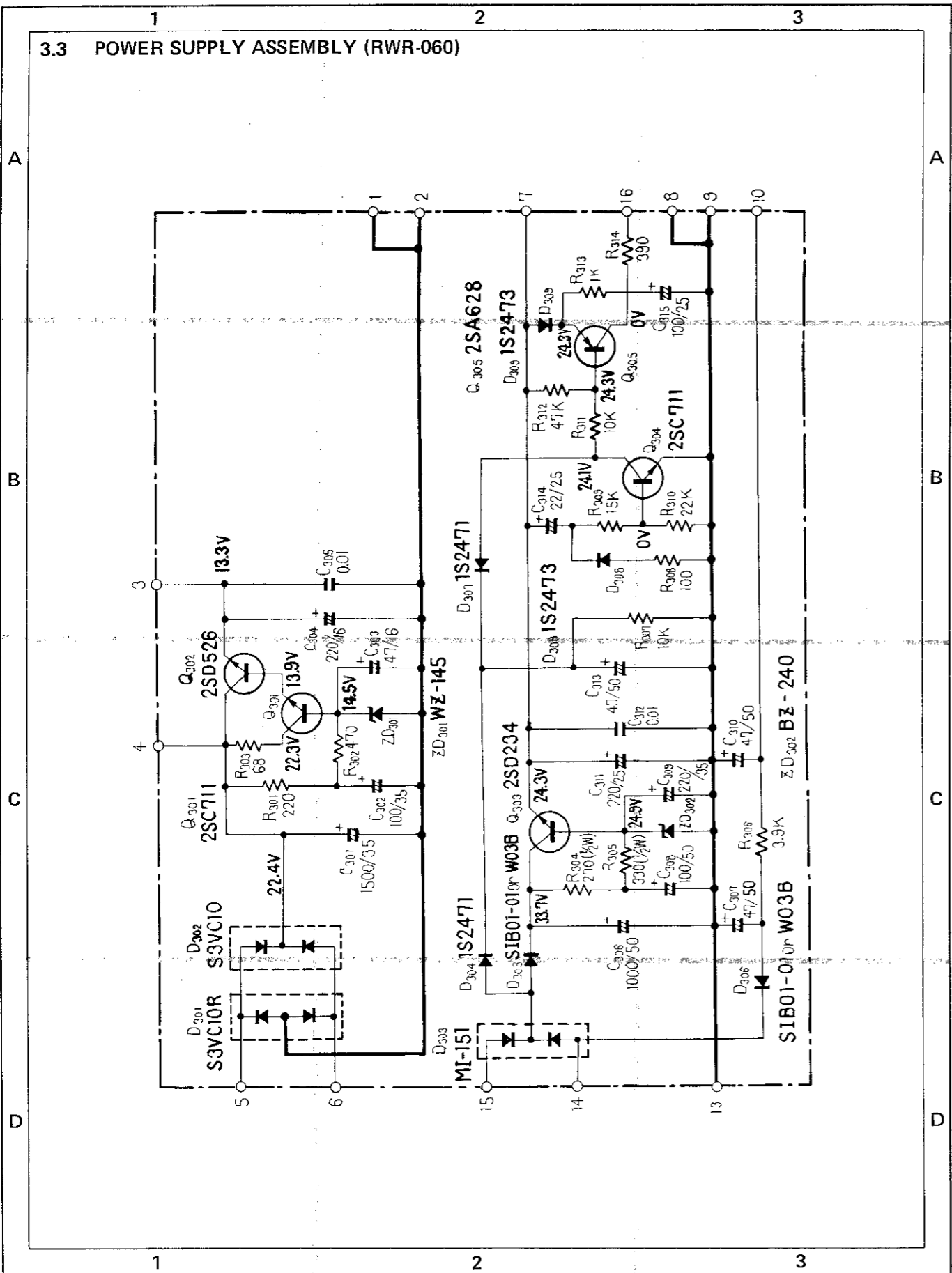
3.1 CONNECTION DIAGRAM

A
B
C
D



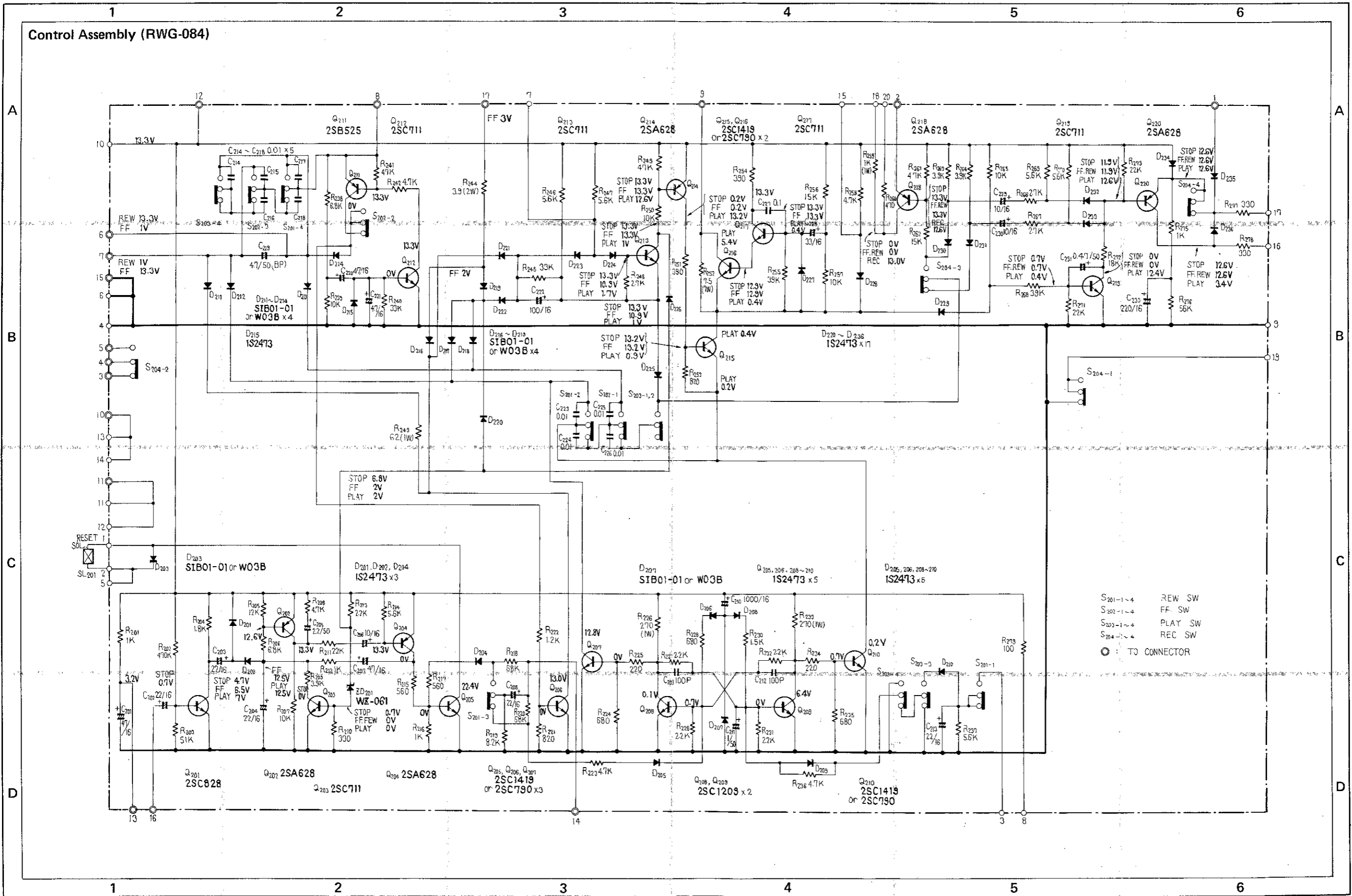
3.2 SCHEMATIC DIAGRAM



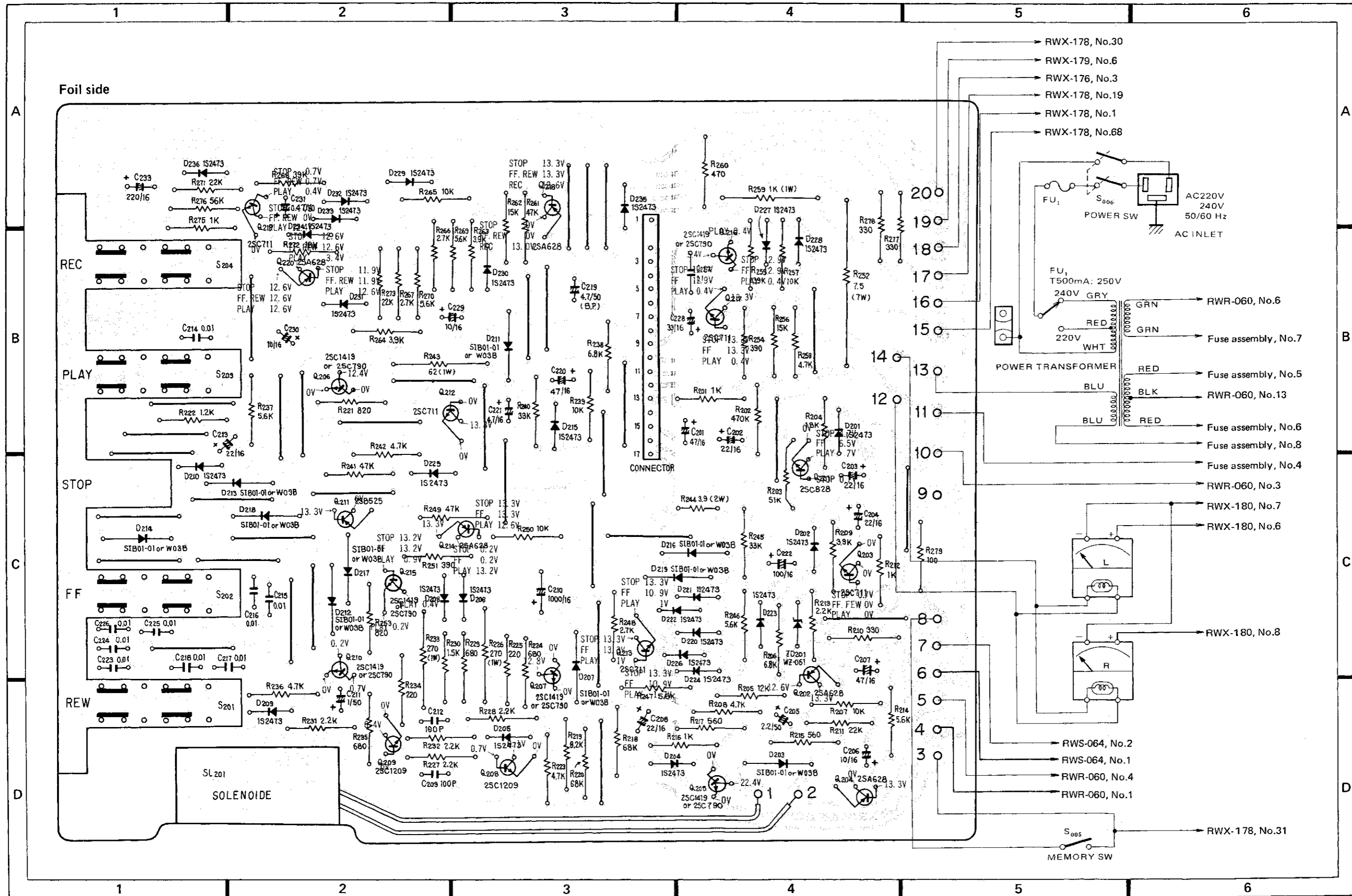


CT-F1000/HG

Control Assembly (RWG-084)

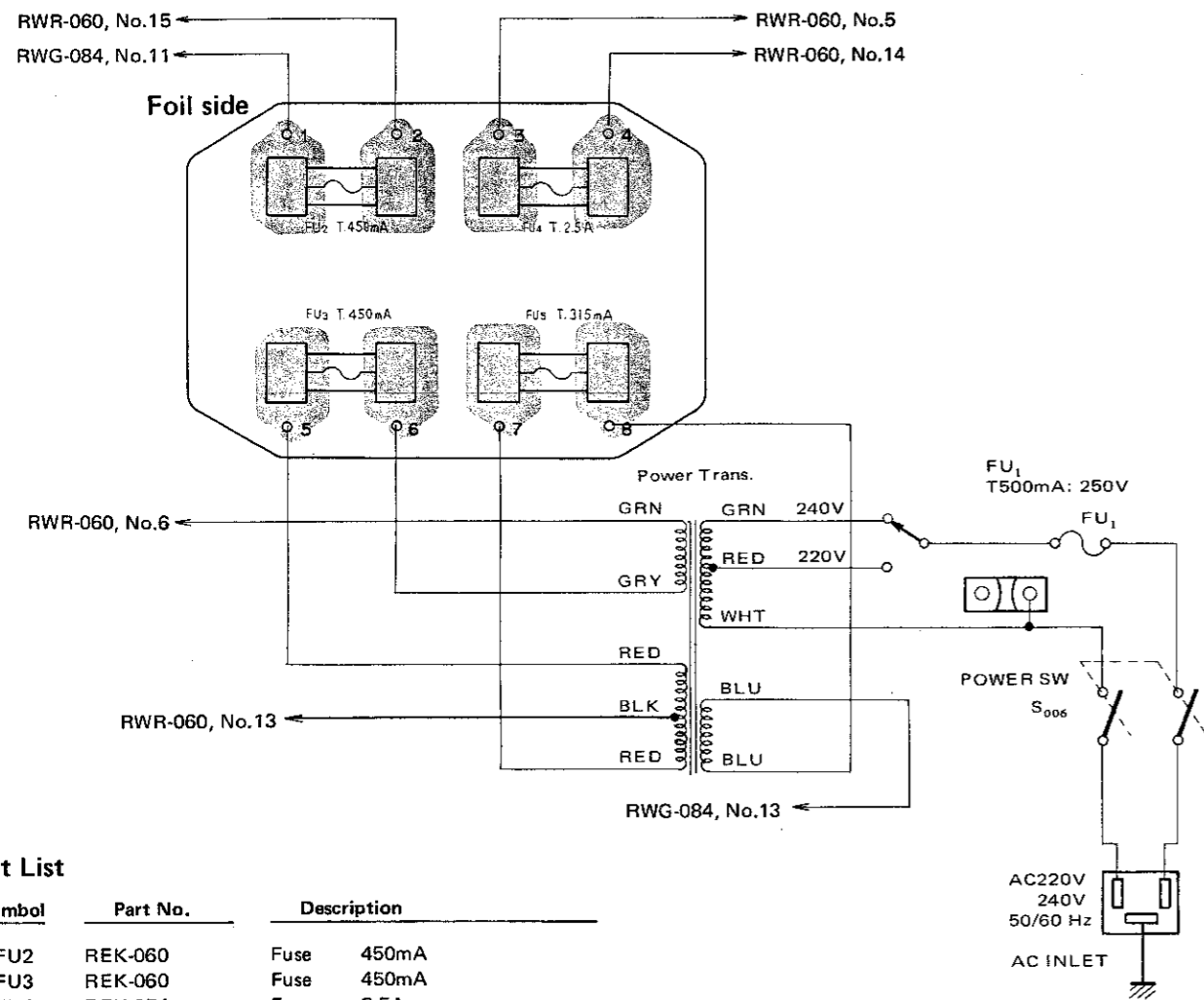
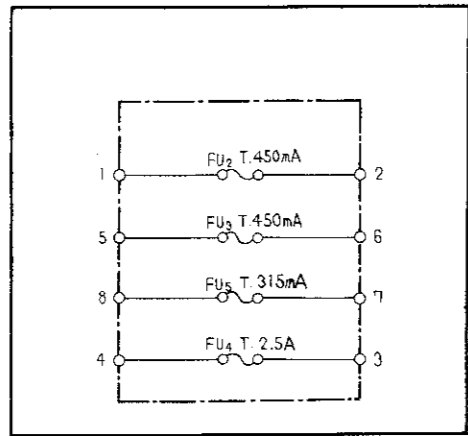


- S201-1~4 REW SW
- S202-1~4 FF SW
- S203-1~4 PLAY SW
- S204-1~4 REC SW
- TO CONNECTOR



- RWX-178, No.30
- RWX-179, No.6
- RWX-176, No.3
- RWX-178, No.19
- RWX-178, No.1
- RWX-178, No.68
- AC220V 240V 50/60 Hz
- AC INLET
- POWER SW
- FU1 500mA: 250V 240V GRY
- GRN → RWR-060, No.6
- GRN → Fuse assembly, No.7
- RED → Fuse assembly, No.5
- BLK → RWR-060, No.13
- RED → Fuse assembly, No.6
- Fuse assembly, No.8
- Fuse assembly, No.4
- RWR-060, No.3
- RWX-180, No.7
- RWX-180, No.6
- RWX-180, No.8
- RWS-064, No.2
- RWS-064, No.1
- RWR-060, No.4
- RWR-060, No.1
- RWX-178, No.31

3.5 FUSE ASSEMBLY

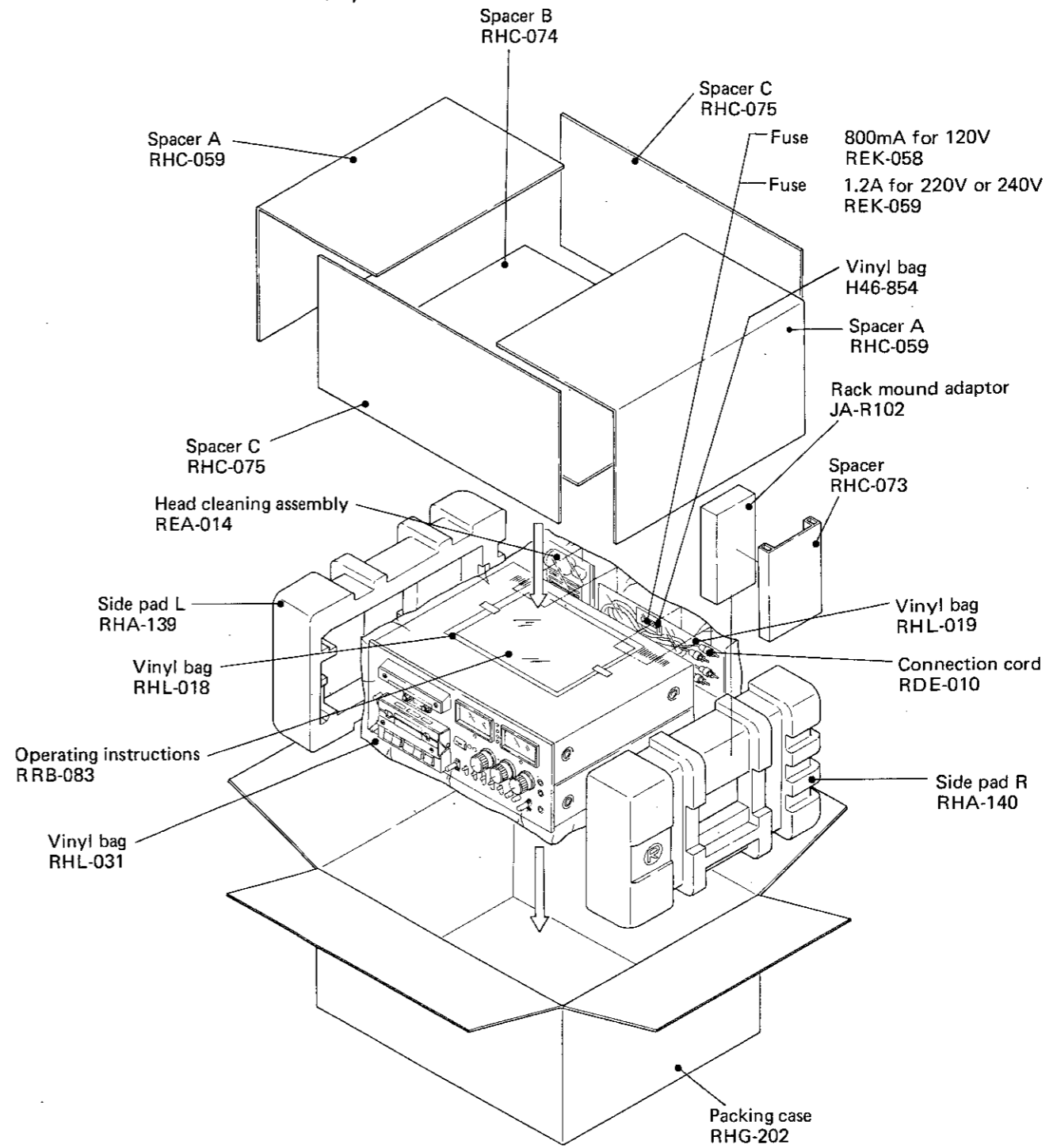


Part List

Symbol	Part No.	Description
FU2	REK-060	Fuse 450mA
FU3	REK-060	Fuse 450mA
FU4	REK-054	Fuse 2.5A
FU5	REK-052	Fuse 315mA
	RKR-013	Fuse holder B

4. PACKING

4.1 PACKING FOR CT-F1000/D, D/G



3-HEAD CASSETTE TAPE DECK

CT-F1000

D, D/G, HG

Additional

Service Manual

- This additional service manual provides the description of the parts applied only D, D/G and HG model.
- For detailed instructions on adjustments, circuit descriptions, exploded views, etc., please refer to the Service Manual of CT-F1000/KCU (page 3 ~ page 82).

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Parts List

CAPACITORS

Symbol	Part No.	Description
C301	CEA 152P 35	Electrolytic 1500 35V
C302	CEA 101P 35	Electrolytic 100 35V
C303	CEA 470P 16	Electrolytic 47 16V
C304	CEA 221P 16	Electrolytic 220 16V
C305	CKDYF 103Z 50	Ceramic 0.01 50V
C306	CEA 102P 50	Electrolytic 1000 50V
C307	CEA 470P 50	Electrolytic 47 50V
C308	CEA 101P 50	Electrolytic 100 50V
C309	CEA 221P 35	Electrolytic 220 35V
C310	CEA 470P 50	Electrolytic 47 50V
C311	CEA 221P 25	Electrolytic 220 25V
C312	CKDYF 103Z 50	Ceramic 0.01 50V
C313	CEA 4R7P 50	Electrolytic 4.7 50V
C314	CEA 220P 25	Electrolytic 22 25V
C315	CEA 101P 25	Electrolytic 100 25V

RESISTORS

Symbol	Part No.	Description
R301	RD $\frac{1}{4}$ PSF 221J	Carbon film 220
R302	RD $\frac{1}{4}$ PSF 471J	Carbon film 470
R303	RD $\frac{1}{4}$ PSF 680J	Carbon film 68
R304	RS $\frac{1}{2}$ PSF 271J	Carbon film 270 $\frac{1}{2}$ W
R305	RS $\frac{1}{2}$ PSF 331J	Carbon film 330 $\frac{1}{2}$ W
R306	RD $\frac{1}{4}$ PS 392J	Carbon film 3.9k
R307	RD $\frac{1}{4}$ PS 103J	Carbon film 10k
R308	RD $\frac{1}{4}$ PS 101J	Carbon film 100
R309	RD $\frac{1}{4}$ PS 153J	Carbon film 15k
R310	RD $\frac{1}{4}$ PS 223J	Carbon film 22k
R311	RD $\frac{1}{4}$ PS 103J	Carbon film 10k
R312	RD $\frac{1}{4}$ PS 473J	Carbon film 47k
R313	RD $\frac{1}{4}$ PSF 101J	Carbon film 100
R314	RD $\frac{1}{4}$ PS 391J	Carbon film 390

OTHERS

Symbol	Part No.	Description
	RKH-004	Insulator
	REE-051	Insulator

SEMICONDUCTORS

Symbol	Part No.	Description
Q301	2SC711-E or F	Transistor
Q302	2SD526-O or Y	Transistor
Q303	2SD234-O or Y	Transistor
Q304	2SC711-E or F	Transistor
Q305	2SA628-E or F	Transistor
D301	S3VC10R	Diode
D302	S3VC10	Diode
D303	MI-151	Diode
D304	1S2471	Diode
D305	SIB01-01 or W03B	Diode
D306	SIB01-01 or W03B	Diode
D307	1S2471	Diode
D308	1S2473	Diode
D309	1S2473	Diode
ZD301	WZ-145	Zener Diode
ZD302	BZ-240	Zener Diode

List of Changed Parts for Factory Modification

Symbol	Part No.	Description

2.4 CONTROL ASSEMBLY (RWG-083)

Parts List

CAFACITORS

Symbol	Part No.	Description	Symbol	Part No.	Description
C201	CEA 47OP 16	Electrolytic 47 16V	R211	RD¼PS 223J	Carbon film 22k
C202	CEA 22OP 16	Electrolytic 22 16V	R212	RD¼PS 102J	Carbon film 1k
C203	CEA 22OP 16	Electrolytic 22 16V	R213	RD¼PS 222J	Carbon film 2.2k
C204	CEA 22OP 16	Electrolytic 22 16V	R214	RD¼PS 562J	Carbon film 5.6k
C205	CEA 2R2P 50	Electrolytic 2.2 50V	R215	RD¼PS 561J	Carbon film 560
C206	CEA 10OP 16	Electrolytic 10 16V	R216	RD¼PS 102J	Carbon film 1k
C207	CEA 47OP 16	Electrolytic 47 16V	R217	RD¼PS 561J	Carbon film 560
C208	CEA 22OP 16	Electrolytic 22 16V	R218	RD¼PS 683J	Carbon film 68k
C209	CCDSL 101K 50	Ceramic 100p 50V	R219	RD¼PS 822J	Carbon film 8.2k
C210	CEA 102P 16	Electrolytic 1000 16V	R220	RD¼PS 683J	Carbon film 68k
C211	CEA 01OP 50	Electrolytic 0.1 50V	R221	RD¼PS 821J	Carbon film 820
C212	CCDSL 101K 50	Ceramic 100p 50V	R222	RD¼PS 122J	Carbon film 1.2k
C213	CEA 22OP 16	Electrolytic 22 16V	R223	RD¼PS 472J	Carbon film 4.7k
C214	CKDYF 103Z 50	Ceramic 0.01 50V	R224	RD¼PS 681J	Carbon film 680
C215	CKDYF 103Z 50	Ceramic 0.01 50V	R225	RD¼PS 221J	Carbon film 220
C216	CKDYF 103Z 50	Ceramic 0.01 50V	R226	RS1P 271J	Metal oxide 270 1W
C217	CKDYF 103Z 50	Ceramic 0.01 50V	R227	RD¼PS 222J	Carbon film 2.2k
C218	CKDYF 103Z 50	Ceramic 0.01 50V	R228	RD¼PS 222J	Carbon film 2.2k
C219	RCH-026	Electrolytic 4.7 50V	R229	RD¼PS 681J	Carbon film 680
C220	CEA 47OP 16	Electrolytic 47 16V	R230	RD¼PS 152J	Carbon film 1.5k
C221	CEA 4R7P 35	Electrolytic 4.7 35V	R231	RD¼PS 222J	Carbon film 2.2k
C222	CEA 101P 16	Electrolytic 100 16V	R232	RD¼PS 222J	Carbon film 2.2k
C223	CKDYF 103Z 50	Ceramic 0.01 50V	R233	RS1P 271J	Metal oxide 270 1W
C224	CKDYF 103Z 50	Ceramic 0.01 50V	R234	RD¼PS 221J	Carbon film 220
C225	CKDYF 103Z 50	Ceramic 0.01 50V	R235	RD¼PS 681J	Carbon film 680
C226	CKDYF 103Z 50	Ceramic 0.01 50V	R236	RD¼PS 472J	Carbon film 4.7k
C227	QOMA 104K 50	Mylar 0.1 50V	R237	RD¼PS 562J	Carbon film 5.6k
C228	CEA 33OP 16	Electrolytic 33 16V	R238	RD¼PS 682J	Carbon film 6.8k
C229	CEA 10OP 16	Electrolytic 10 16V	R239	RD¼PS 103J	Carbon film 10k
C230	CEA 10OP 16	Electrolytic 10 16V	R240	RD¼PS 333J	Carbon film 33k
C231	CEA R47P 50	Electrolytic 0.47 50V	R241	RD¼PS 473J	Carbon film 47k
C233	CEA 221P 16	Electrolytic 220 16V	R242	RD¼PS 472J	Carbon film 4.7k
			R243	RS1PSF 620J	Metal oxide 62 1W
			R244	RCN-031	Wire wound resistor 3.9 2W
			R245	RD¼PS 333J	Carbon film 33k

RESISTORS

Symbol	Part No.	Description	Symbol	Part No.	Description
R201	RD¼PS 102J	Carbon film 1k	R246	RD¼PS 562J	Carbon film 5.6k
R202	RD¼PS 474J	Carbon film 470k	R247	RD¼PS 562J	Carbon film 5.6k
R203	RD¼PS 513J	Carbon film 51k	R248	RD¼PS 272J	Carbon film 2.7k
R204	RD¼PS 182J	Carbon film 1.8k	R249	RD¼PS 473J	Carbon film 47k
R205	RD¼PS 123J	Carbon film 12k	R250	RD¼PS 103J	Carbon film 10k
R206	RD¼PS 682J	Carbon film 6.8k	R251	RD¼PS 391J	Carbon film 390
R207	RD¼PS 103J	Carbon film 10k	R252	RCN-032	Wire wound resistor 7.5 7W
R208	RD¼PS 472J	Carbon film 4.7k	R253	RD¼PS 821J	Carbon film 820
R209	RD¼PS 392J	Carbon film 3.9k	R254	RD¼PS 391J	Carbon film 390
R210	RD¼PS 331J	Carbon film 330	R255	RD¼PS 393J	Carbon film 39k

Parts List

CAPACITORS

Symbol	Part No.	Description
C301	CEA 152P 35	Electrolytic 1500 35V
C302	CEA 101P 35	Electrolytic 100 35V
C303	CEA 470P 16	Electrolytic 47 16V
C304	CEA 221P 16	Electrolytic 220 16V
C305	CKDYF 103Z 50	Ceramic 0.01 50V
C306	CEA 102P 50	Electrolytic 1000 50V
C307	CEA 470P 50	Electrolytic 47 50V
C308	CEA 101P 50	Electrolytic 100 50V
C309	CEA 221P 35	Electrolytic 220 35V
C310	CEA 470P 50	Electrolytic 47 50V
C311	CEA 221P 25	Electrolytic 220 25V
C312	CKDYF 103Z 50	Ceramic 0.01 50V
C313	CEA 4R7P 50	Electrolytic 4.7 50V
C314	CEA 220P 25	Electrolytic 22 25V
C315	CEA 101P 25	Electrolytic 100 25V

RESISTORS

Symbol	Part No.	Description
R301	RD¼PSF 221J	Carbon film 220
R302	RD¼PSF 471J	Carbon film 470
R303	RD¼PSF 680J	Carbon film 68
R304	RS¼PSF 271J	Carbon film 270 ¼W
R305	RS¼PSF 331J	Carbon film 330 ¼W
R306	RD¼PS 392J	Carbon film 3.9k
R307	RD¼PS 103J	Carbon film 10k
R308	RD¼PS 101J	Carbon film 100
R309	RD¼PS 153J	Carbon film 15k
R310	RD¼PS 223J	Carbon film 22k
R311	RD¼PS 103J	Carbon film 10k
R312	RD¼PS 473J	Carbon film 47k
R313	RD¼PSF 102J	Carbon film 1k
R314	RD¼PS 391J	Carbon film 390

OTHERS

Symbol	Part No.	Description
	RKH-004	Insulator
	REE-051	Insulator

SEMICONDUCTORS

Symbol	Part No.	Description
Q301	2SC711-E or F	Transistor
Q302	2SD526-O or Y	Transistor
Q303	2SD234-O or Y	Transistor
Q304	2SC711-E or F	Transistor
Q305	2SA628-E or F	Transistor
D301	S3VC10R	Diode
D302	S3VC10	Diode
D303	MI-151	Diode
D304	1S2471	Diode
D305	S1B01-01 or W03B	Diode
D306	S1B01-01 or W03B	Diode
D307	1S2471	Diode
D308	1S2473	Diode
D309	1S2473	Diode
ZD301	WZ-145	Zener Diode
ZD302	BZ-240	Zener Diode

List of Changed Parts for Factory Modification

Symbol	Part No.	Description

3.4 CONTROL ASSEMBLY (RWG-084)

Parts List

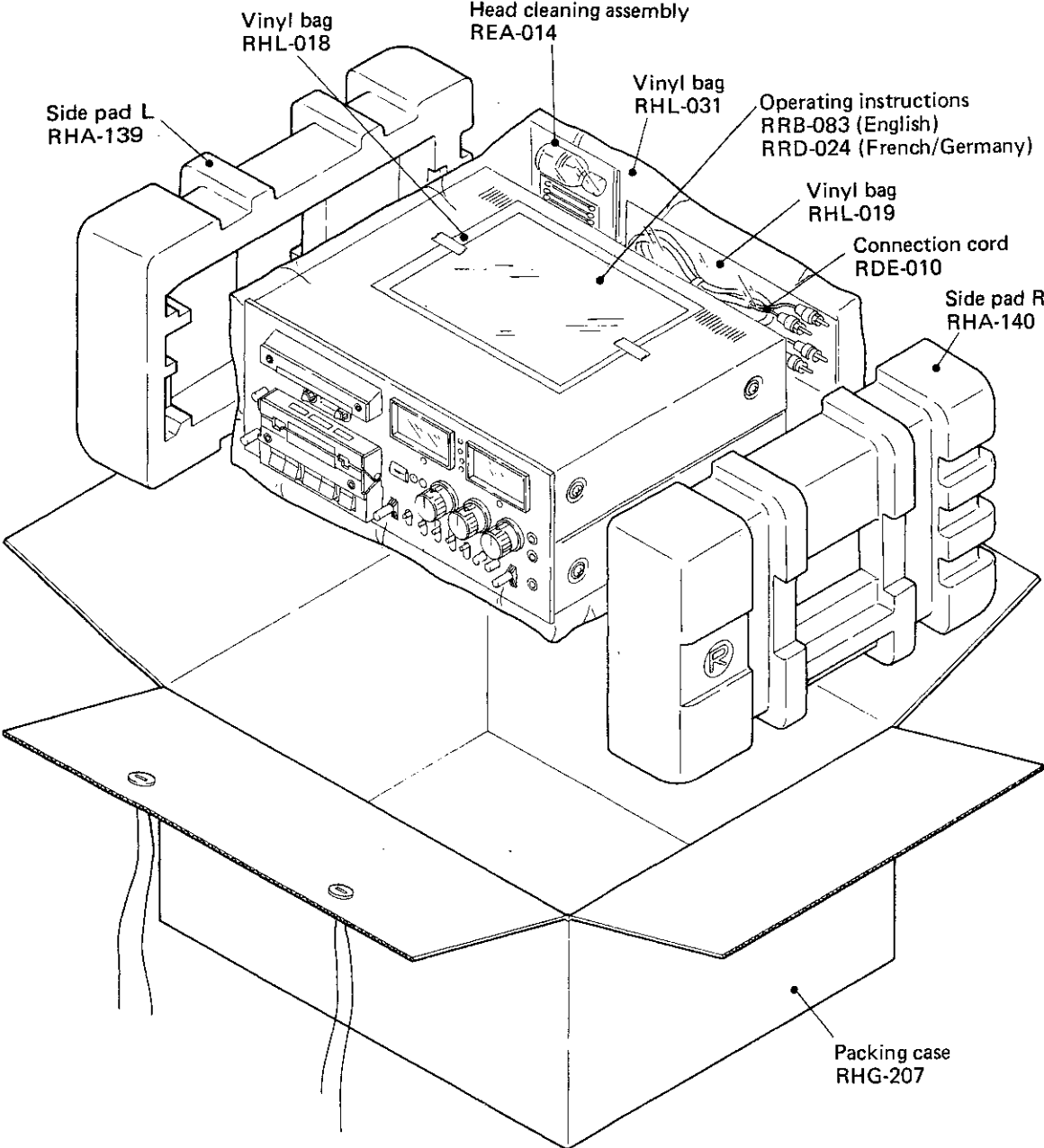
CAPACITORS

Symbol	Part No.	Description	Symbol	Part No.	Description
C201	CEA 470P 16	Electrolytic 47 16V	R211	RD½PS 223J	Carbon film 22k
C202	CEA 220P 16	Electrolytic 22 16V	R212	RD½PS 102J	Carbon film 1k
C203	CEA 220P 16	Electrolytic 22 16V	R213	RD½PS 222J	Carbon film 2.2k
C204	CEA 220P 16	Electrolytic 22 16V	R214	RD½PS 562J	Carbon film 5.6k
C205	CEA 2R2P 50	Electrolytic 2.2 50V	R215	RD½PS 561J	Carbon film 560
C206	CEA 100P 16	Electrolytic 10 16V	R216	RD½PS 102J	Carbon film 1k
C207	CEA 470P 16	Electrolytic 47 16V	R217	RD½PS 561J	Carbon film 560
C208	CEA 220P 16	Electrolytic 22 16V	R218	RD½PS 683J	Carbon film 68k
C209	CCDSL 101K 50	Ceramic 100p 50V	R219	RD½PS 822J	Carbon film 8.2k
C210	CEA 102P 16	Electrolytic 1000 16V	R220	RD½PS 683J	Carbon film 68k
C211	CEA 010P 50	Electrolytic 1 50V	R221	RD½PS 821J	Carbon film 820
C212	CCDSL 101K 50	Ceramic 100p 50V	R222	RD½PSF 122J	Carbon film 1.2k
C213	CEA 220P 16	Electrolytic 22 16V	R223	RD½PS 472J	Carbon film 4.7k
C214	CKDYF 103Z 50	Ceramic 0.01 50V	R224	RD½PS 681J	Carbon film 680
C215	CKDYF 103Z 50	Ceramic 0.01 50V	R225	RD½PS 221J	Carbon film 220
C216	CKDYF 103Z 50	Ceramic 0.01 50V	R226	RS1P 271J	Metal oxide 270 1W
C217	CKDYF 103Z 50	Ceramic 0.01 50V	R227	RD½PS 222J	Carbon film 2.2k
C218	CKDYF 103Z 50	Ceramic 0.01 50V	R228	RD½PS 222J	Carbon film 2.2k
C219	RCH-026	Electrolytic 4.7 50V	R229	RD½PS 681J	Carbon film 680
C220	CEA 470P 16	Electrolytic 47 16V	R230	RD½PS 152J	Carbon film 1.5k
C221	CEA 4R7P 35	Electrolytic 4.7 35V	R231	RD½PS 222J	Carbon film 2.2k
C222	CEA 101P 16	Electrolytic 100 16V	R232	RD½PS 222J	Carbon film 2.2k
C223	CKDYF 103Z 50	Ceramic 0.01 50V	R233	RS1P 271J	Metal oxide 270 1W
C224	CKDYF 103Z 50	Ceramic 0.01 50V	R234	RD½PS 221J	Carbon film 220
C225	CKDYF 103Z 50	Ceramic 0.01 50V	R235	RD½PS 681J	Carbon film 680
C226	CKDYF 103Z 50	Ceramic 0.01 50V	R236	RD½PS 472J	Carbon film 4.7k
C227	CQMA 104K 50	Mylar 0.1 50V	R237	RD½PS 562J	Carbon film 5.6k
C228	CEA 330P 16	Electrolytic 33 16V	R238	RD½PS 682J	Carbon film 6.8k
C229	CEA 100P 16	Electrolytic 10 16V	R239	RD½PS 103J	Carbon film 10k
C230	CEA 100P 16	Electrolytic 10 16V	R240	RD½PS 333J	Carbon film 33k
C231	CEA R47P 50	Electrolytic 0.47 50V	R241	RD½PS 473J	Carbon film 47k
C233	CEA 221P 16	Electrolytic 220 16V	R242	RD½PS 472J	Carbon film 4.7k

RESISTORS

Symbol	Part No.	Description	Symbol	Part No.	Description
R201	RD½PS 102J	Carbon film 1k	R246	RD½PS 562J	Carbon film 5.6k
R202	RD½PS 474J	Carbon film 470k	R247	RD½PS 562J	Carbon film 5.6k
R203	RD½PS 513J	Carbon film 51k	R248	RD½PS 272J	Carbon film 2.7k
R204	RD½PS 182J	Carbon film 1.8k	R249	RD½PS 473J	Carbon film 47k
R205	RD½PS 123J	Carbon film 12k	R250	RD½PS 103J	Carbon film 10k
R206	RD½PS 682J	Carbon film 6.8k	R251	RD½PS 391J	Carbon film 390
R207	RD½PS 103J	Carbon film 10k	R252	RCN-032	Wire wound resistor 7.5 7W
R208	RD½PS 472J	Carbon film 4.7k	R253	RD½PS 821J	Carbon film 820
R209	RD½PS 392J	Carbon film 3.9k	R254	RD½PS 391J	Carbon film 390
R210	RD½PS 331J	Carbon film 330	R255	RD½PS 393J	Carbon film 39k
			R243	RS1PSF 620	Metal oxide 62 1W
			R244	RCN-031	Wire wound resistor 3.9 2W
			R245	RD½PS 333J	Carbon film 33k

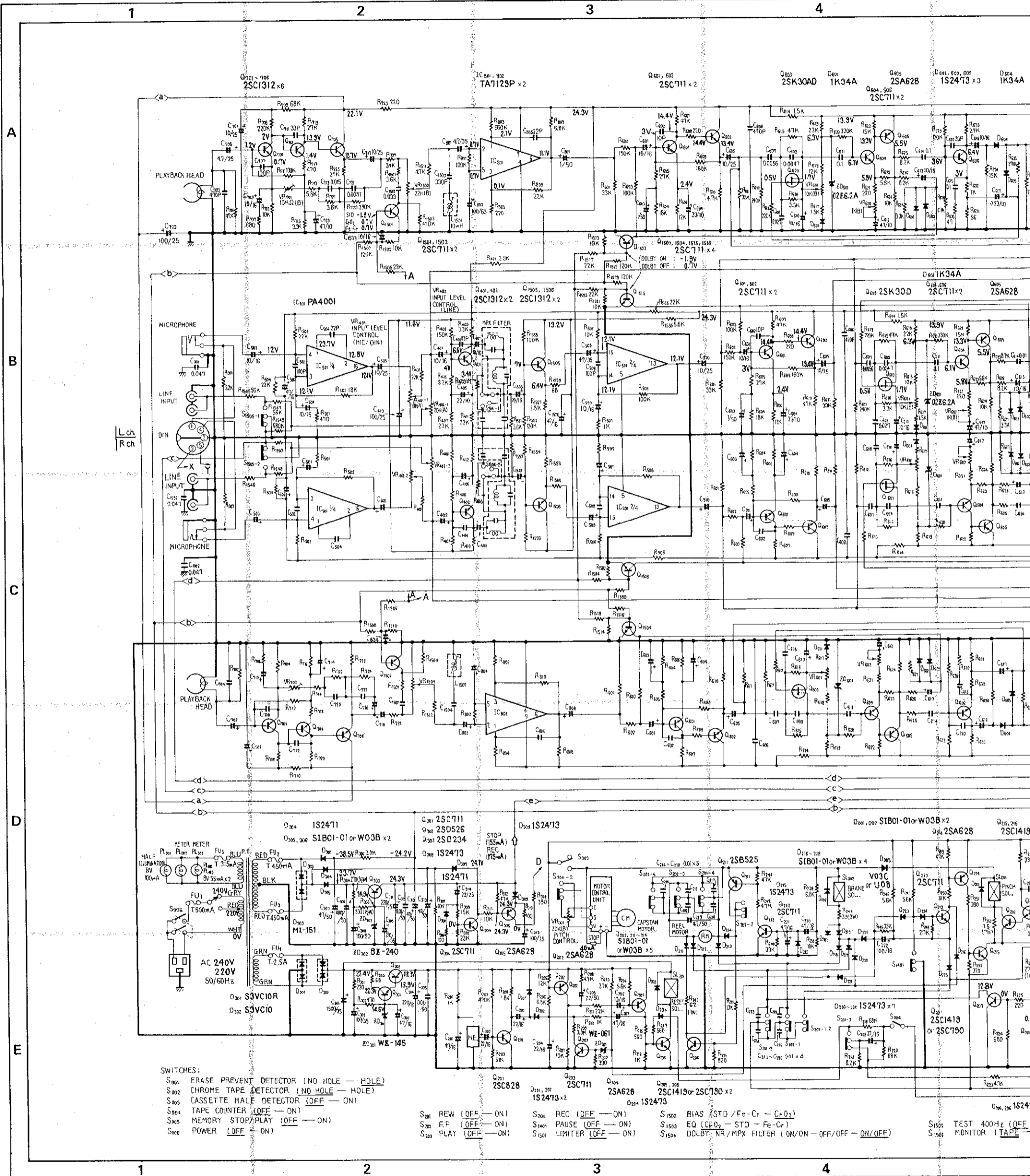
4.2 PACKING FOR CT-F1000/HG

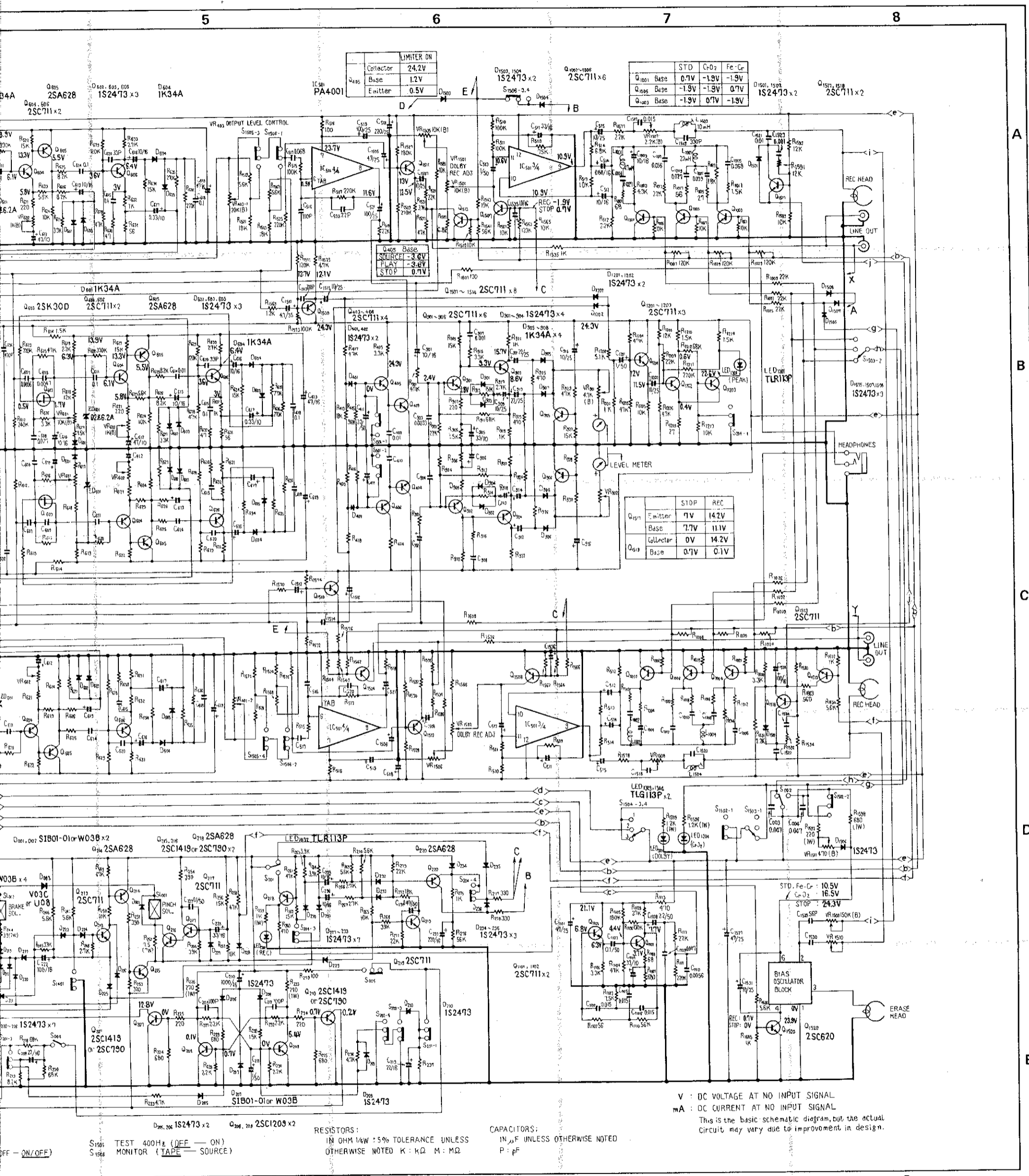


3-HEAD
CASSETTE TAPE DECK

CT-F1000

HG





LIMITER ON	
Collector	24.2V
Base	1.2V
Emitter	0.5V

	STD	Cr-02	Fe-Cr
Q1001 Base	0.7V	-1.9V	-1.9V
Q1005 Base	-1.9V	-1.9V	0.7V
Q1003 Base	-1.9V	0.7V	-1.9V

	STOP	REC
Q1517 Emitter	7V	14.2V
Q1517 Base	7.7V	11.1V
Q1519 Collector	0V	14.2V
Q1519 Base	0.7V	0.1V

V : DC VOLTAGE AT NO INPUT SIGNAL
 mA : DC CURRENT AT NO INPUT SIGNAL
 This is the basic schematic diagram, but the actual circuit may vary due to improvement in design.

S1505 TEST 400Hz (OFF — ON)
 S1506 MONITOR (TAPE — SOURCE)

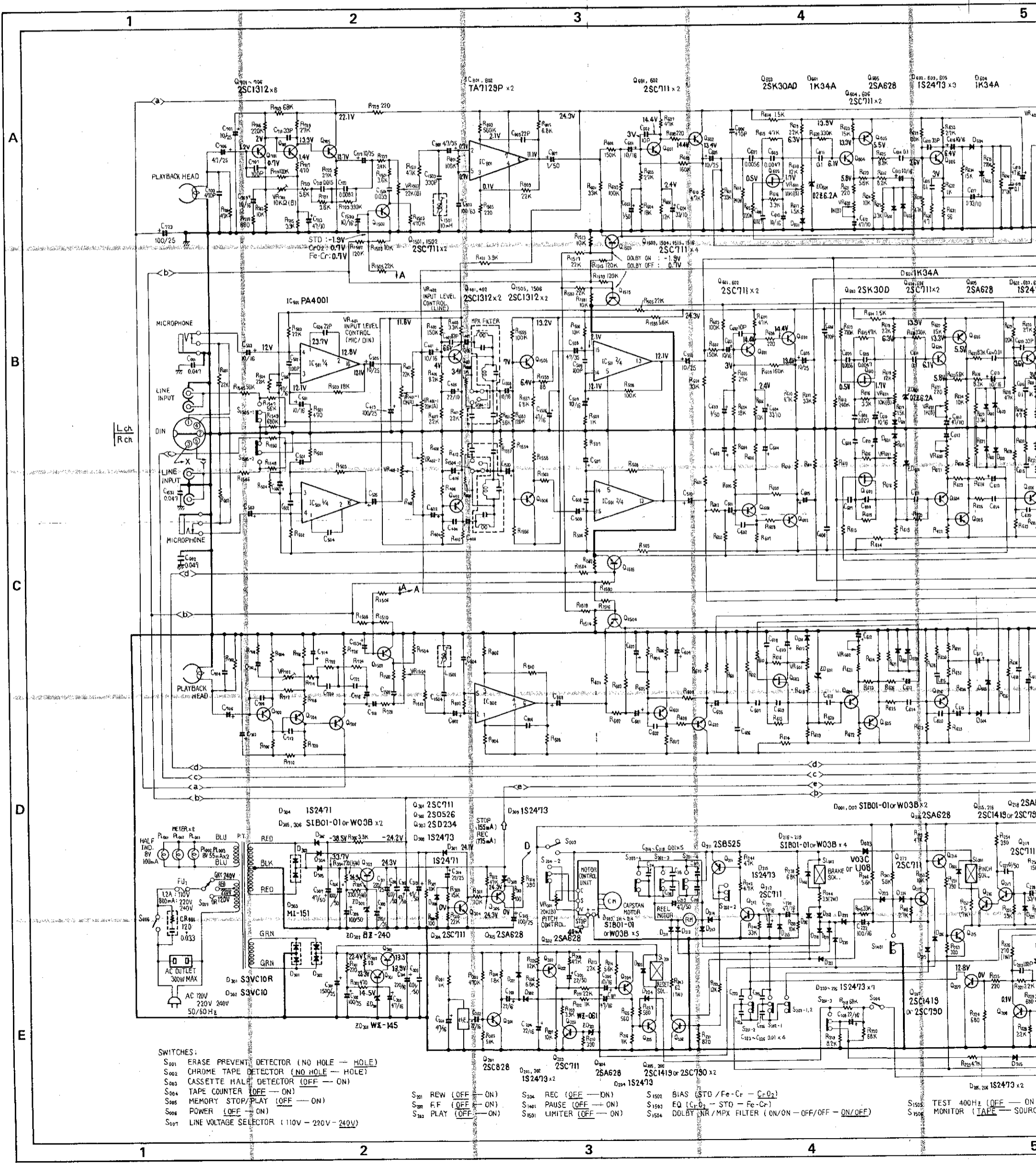
RESISTORS:
 IN OHM 1/4W : 5% TOLERANCE UNLESS
 OTHERWISE NOTED K : KΩ M : MΩ

CAPACITORS:
 IN μF UNLESS OTHERWISE NOTED
 P : pF

3-HEAD
CASSETTE TAPE DECK

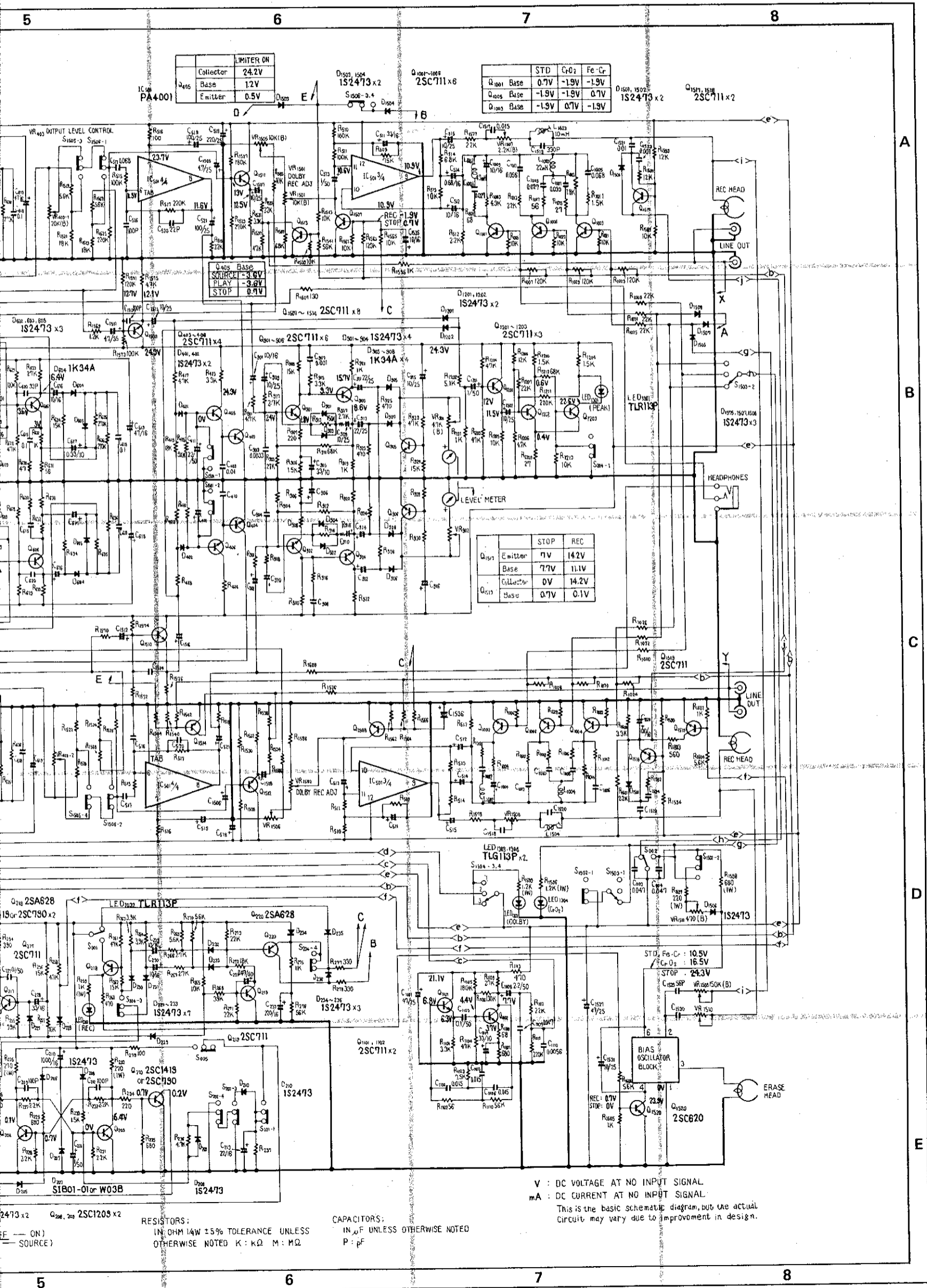
CT-F1000

D, D/G



- SWITCHES:
- S₀₀₁ ERASE PREVENT DETECTOR (NO HOLE - HOLE)
 - S₀₀₂ CHROME TAPE DETECTOR (NO HOLE - HOLE)
 - S₀₀₃ CASSETTE HALF DETECTOR (OFF - ON)
 - S₀₀₄ TAPE COUNTER (OFF - ON)
 - S₀₀₅ MEMORY STOP/PLAY (OFF - ON)
 - S₀₀₆ POWER (OFF - ON)
 - S₀₀₇ LINE VOLTAGE SELECTOR (110V - 220V - 240V)

- S₂₀₁ REW (OFF - ON)
- S₂₀₂ F.F (OFF - ON)
- S₂₀₃ PLAY (OFF - ON)
- S₂₀₄ REC (OFF - ON)
- S₂₀₅ PAUSE (OFF - ON)
- S₂₀₆ LIMITER (OFF - ON)
- S₁₅₀₂ BIAS (STD / Fe-Cr - CrO₂)
- S₁₅₀₃ EQ (C₁ - STD - Fe-Cr)
- S₁₅₀₄ DOLBY NR / MPX FILTER (ON/ON - OFF/OFF - ON/OFF)
- S₁₅₀₅ TEST 400Hz (OFF - ON)
- S₁₅₀₆ MONITOR (TAPE - SOURCE)



V : DC VOLTAGE AT NO INPUT SIGNAL
 mA : DC CURRENT AT NO INPUT SIGNAL
 This is the basic schematic diagram, but the actual circuit may vary due to improvement in design.

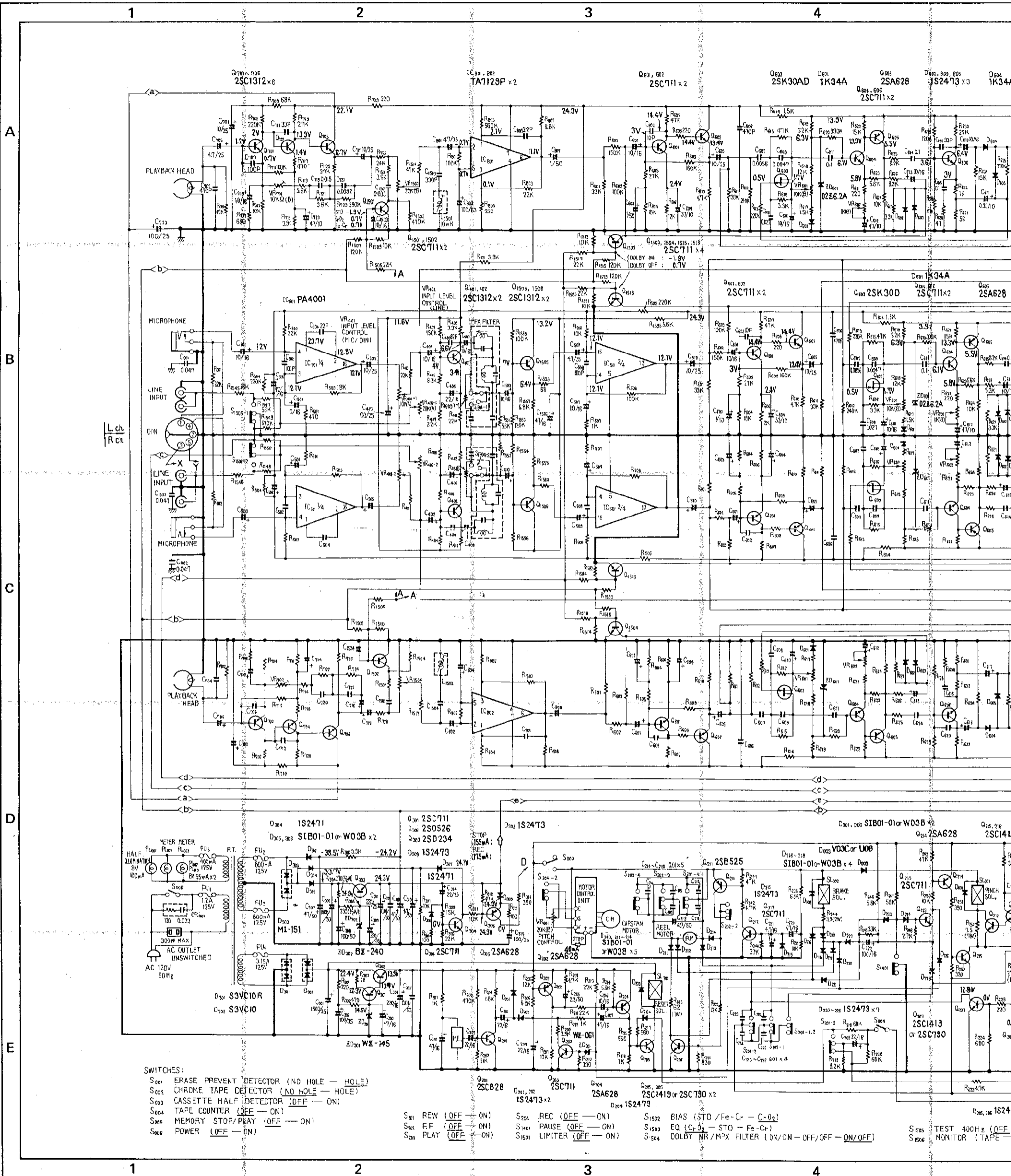
RESISTORS:
 IN OHM 1/4W ±5% TOLERANCE UNLESS OTHERWISE NOTED K: KΩ M: MΩ

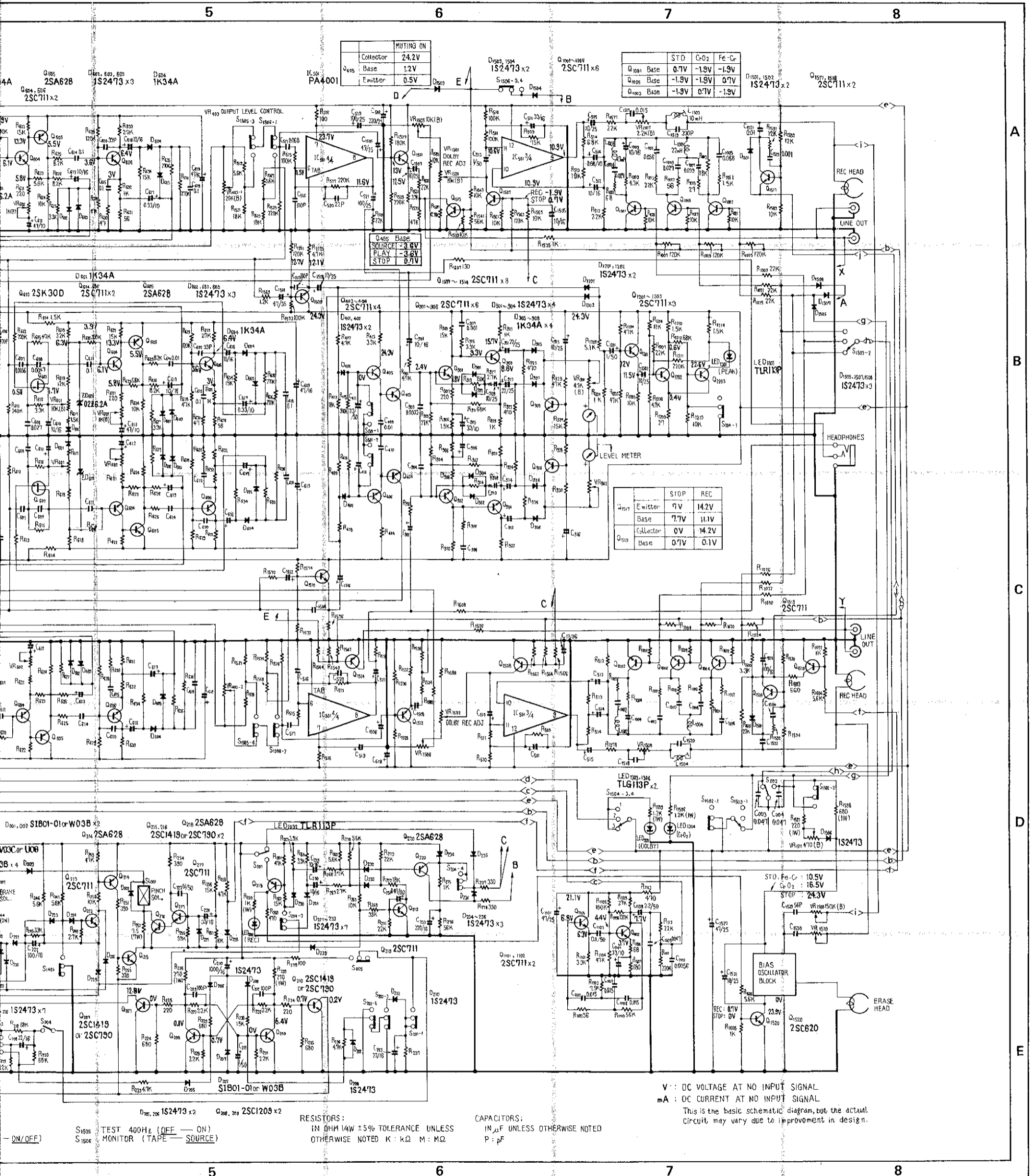
CAPACITORS:
 IN μF UNLESS OTHERWISE NOTED P: pF

3-HEAD
CASSETTE TAPE DECK

CT-F1000

KCU





MUTING ON	
Collector	24.2V
Base	1.2V
Emitter	0.5V

Q1001	Base	Cx02	Fe-Cr
Q1001	0.7V	-1.9V	-1.9V
Q1002	Base	-1.9V	0.7V
Q1003	Base	-1.9V	-1.9V

STOP		REC	
Emitter	7V	14.2V	
Base	7.7V	11.1V	
Collector	0V	14.2V	
Base	0.7V	0.1V	

STU Fe-Cr	10.5V
Cx02	16.5V
STOP	24.3V

V : DC VOLTAGE AT NO INPUT SIGNAL
 mA : DC CURRENT AT NO INPUT SIGNAL
 This is the basic schematic diagram, but the actual circuit may vary due to improvement in design.

S1505 TEST 400Hz (OFF — ON)
 S1506 MONITOR (TAPE — SOURCE)

RESISTORS:
 IN OHM 1/4W ±5% TOLERANCE UNLESS OTHERWISE NOTED K: kΩ M: MΩ

CAPACITORS:
 IN μF UNLESS OTHERWISE NOTED P: pF