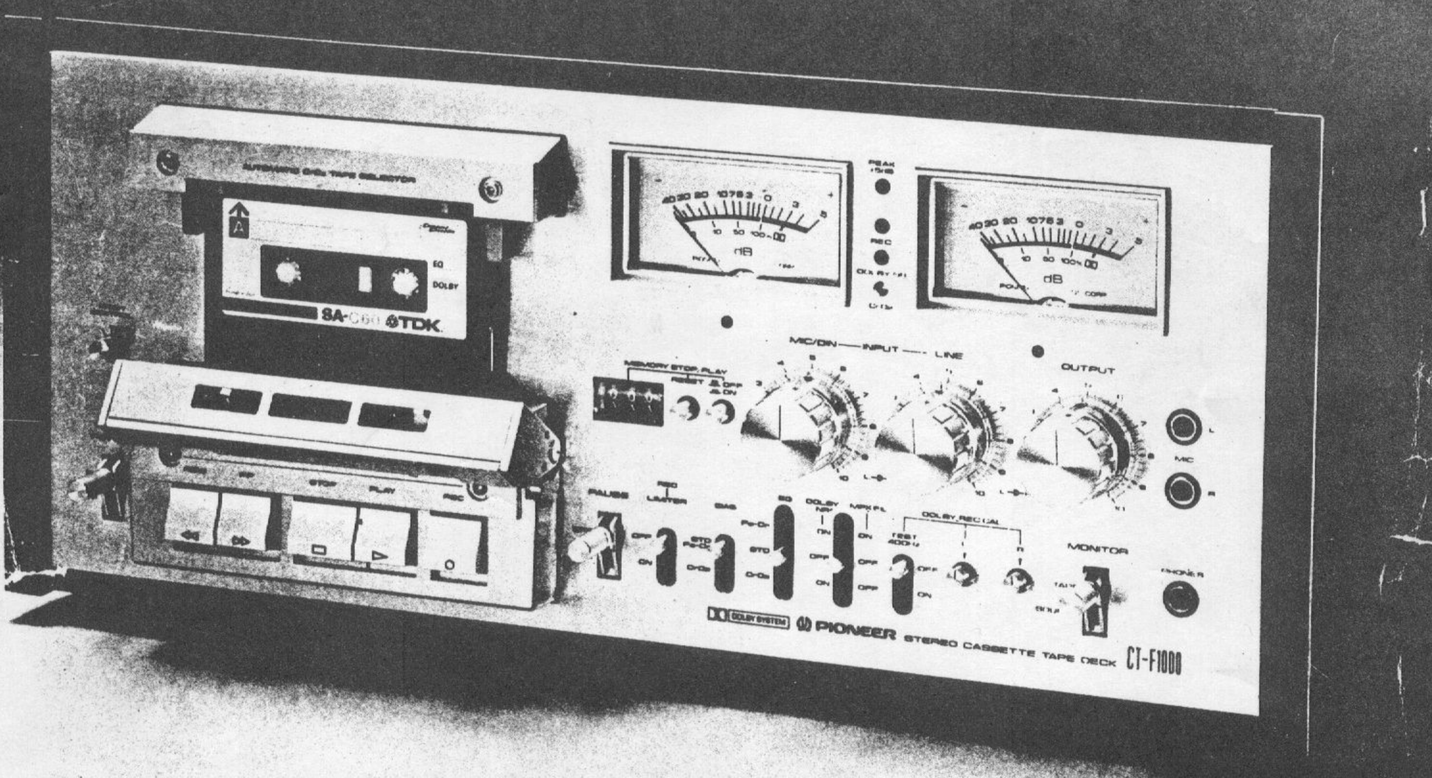
3-HEAD CASSETTE TAPE DECK

CT-F1000

SERVICE MANUAL



ART-251 1003
S/M CT-F1000
INV: 31518502
SM 1 MP: 0102A-04

PIONEER

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.**

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	"Uni-crystal ferrite" recording head x 1, "Uni-crystal ferrite" playback head x 1 } Combination type 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 ±3dB) Ferri-chromium tape: 20 to 19,000Hz (30 to 17,000Hz ±3dB) Chromium dioxide tape: 20 to 19,000Hz (30 to 17,000Hz ±3dB)
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

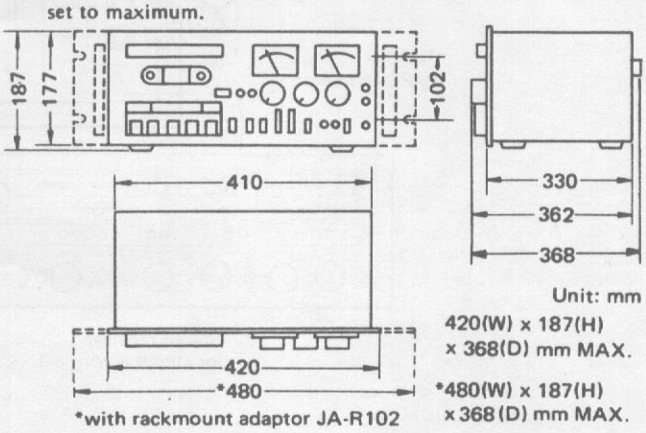
- Dolby system (ON-OFF)
- Dolby calibration (built-in 400Hz test oscillator)
- MPX Filter (ON-OFF)
- Tape Selector (STD/FeCr/CrO_2)
  Automatic tape selector for CrO_2 tape, and Manual tape selector of independently BIAS/EQ
- Cassette compartment illumination
- Mixing control used for MIC and LINE input
- 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 ±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.
   : CrO_2: DIN 45513/BLATT7 (CrO_2) 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 ±6dB 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.



Unit: mm
420(W) x 187(H) x 368(D) mm MAX.
*480(W) x 187(H) x 368(D) mm MAX.

*with rackmount adaptor JA-R102

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

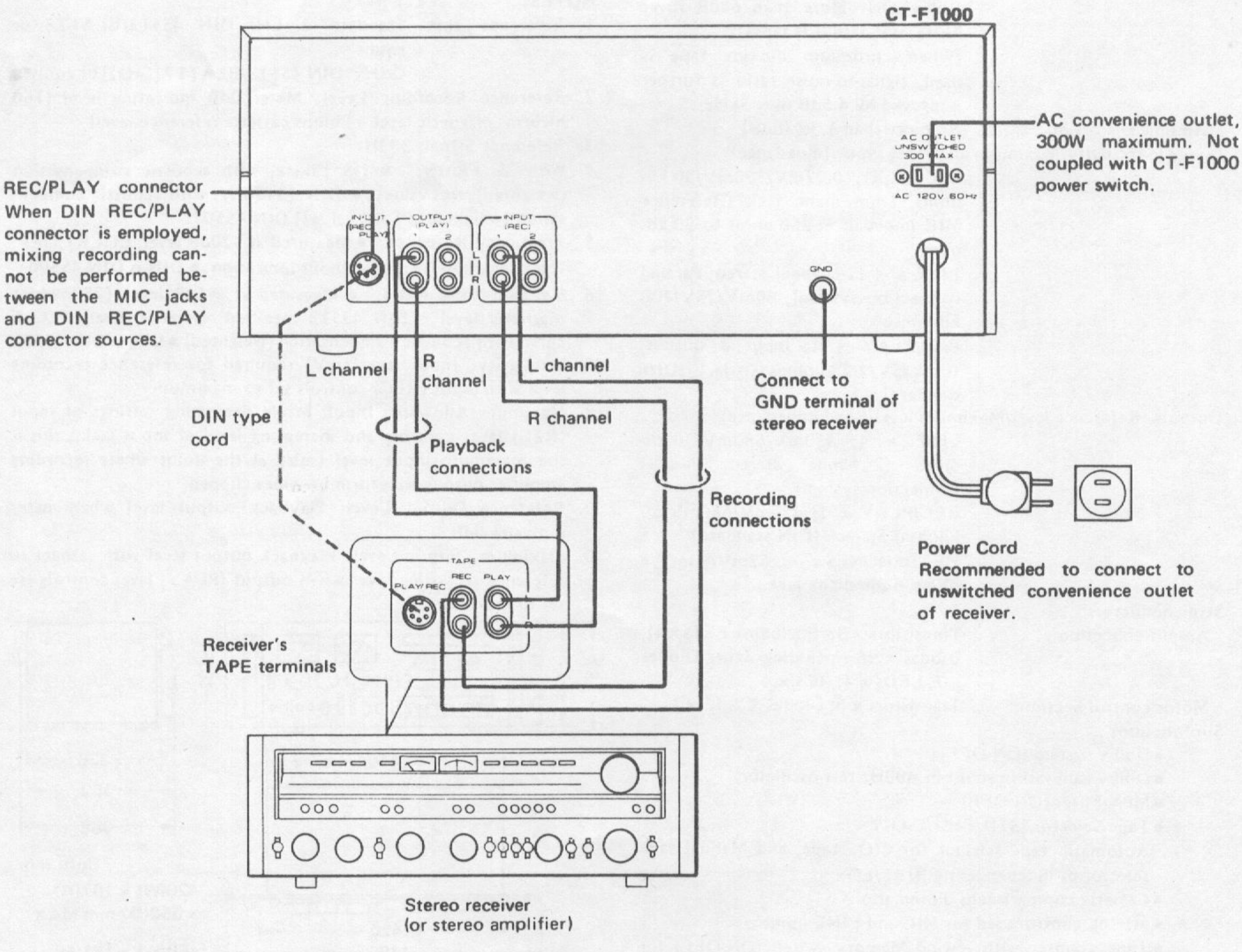
Connect the TAPE PLAY input terminals on the receiver to the CT-F1000's LINE OUTPUT terminals.

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

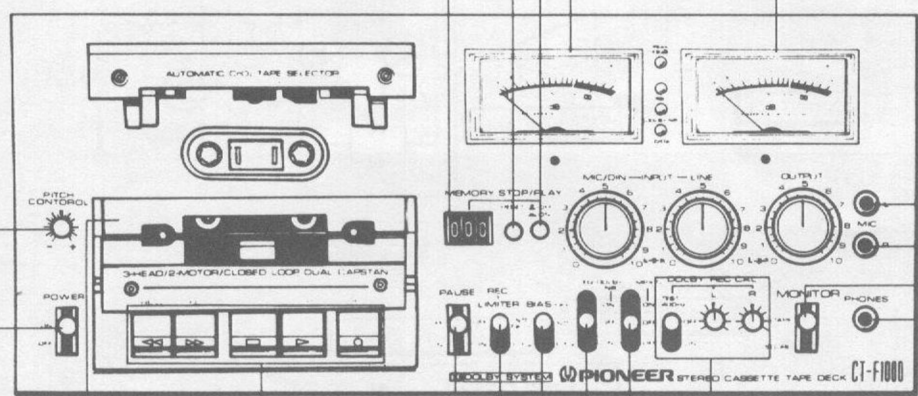
This indicates the tape running position.

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.



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.
CrO_2 : 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.
CrO_2 : 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 and ◻◻ are trademarks of Dolby Laboratories Incorporated.

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.

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.

CrO_2 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.

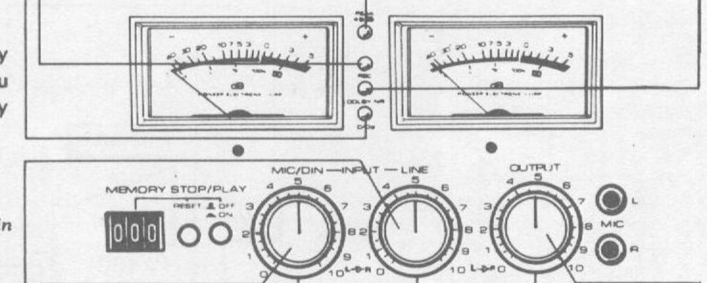
RECORDING INDICATOR (REC)

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.



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

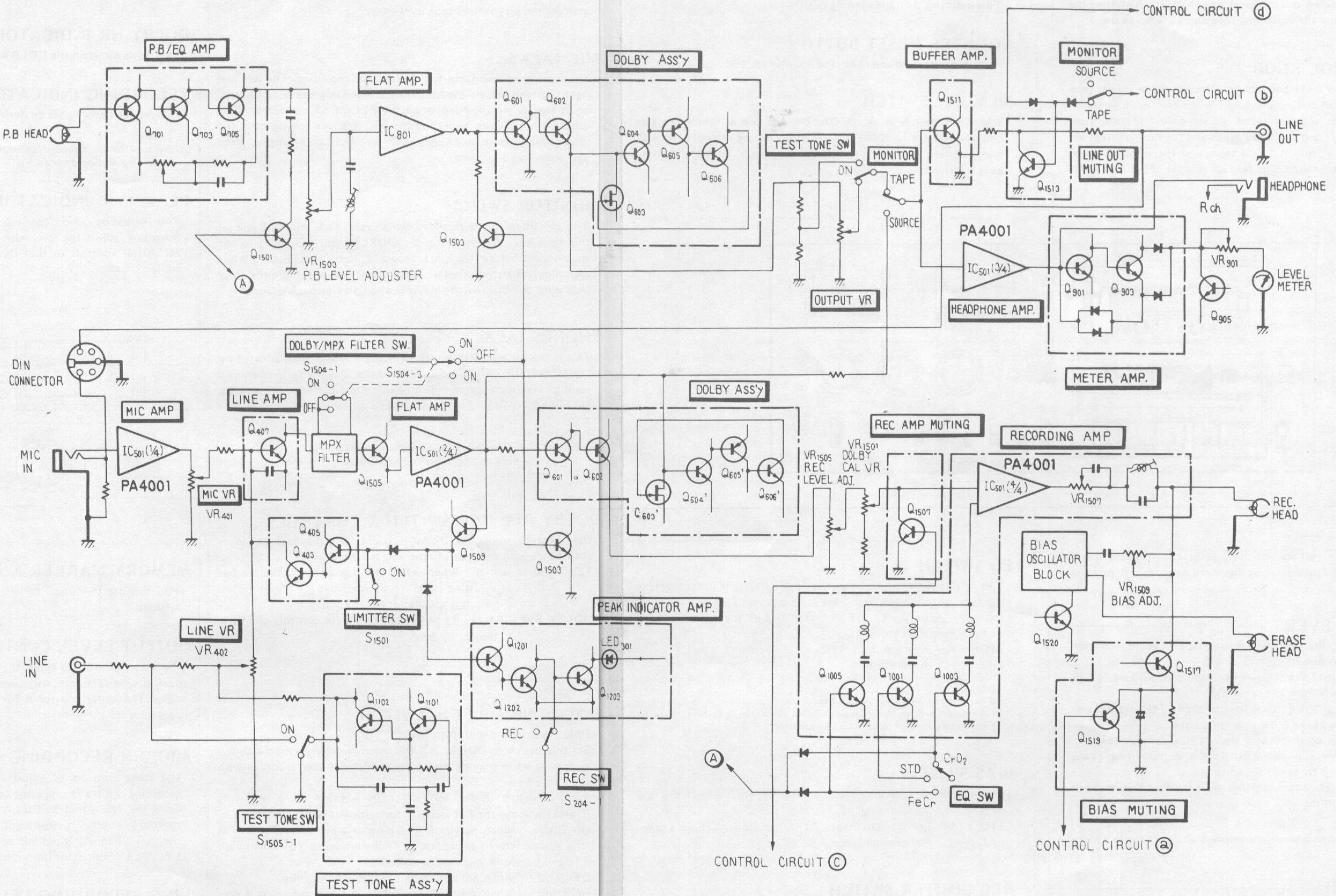
Use these controls to adjust the recording level when you are recording with a microphone (or microphones), or when you are using the rear panel REC/PLAY connector (DIN standard). Use the outer control for the right channel and the inner control for the left channel. Input signals from both the MIC jacks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

LINE RECORDING LEVEL CONTROLS

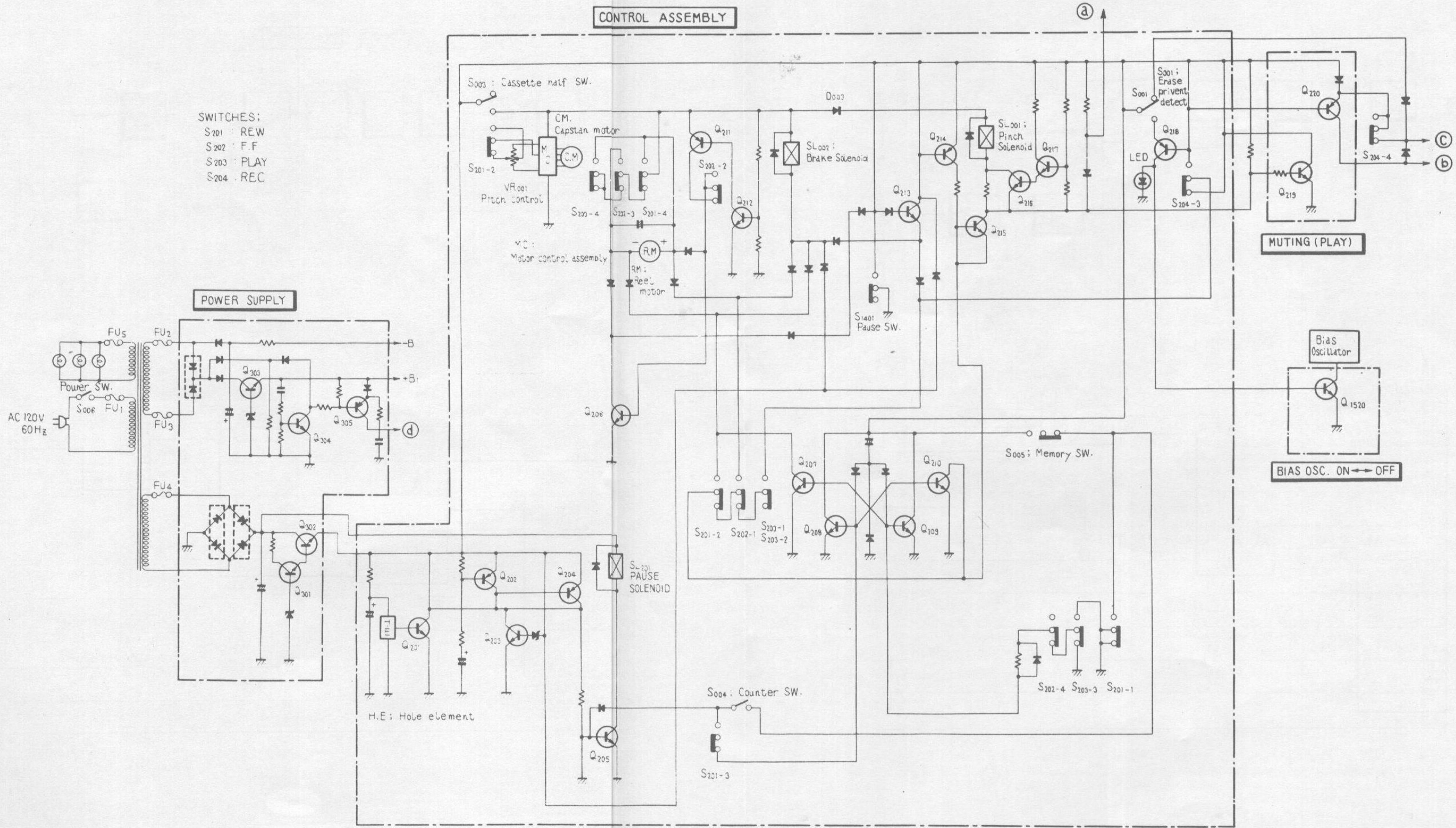
These adjust the recording input level from the LINE INPUT terminals on the rear panel. The level increases as the controls are turned to the right. The outer control is for the right channel and the inner control, for the left channel.

4. BLOCK DIAGRAM

Playback and Recording Routes

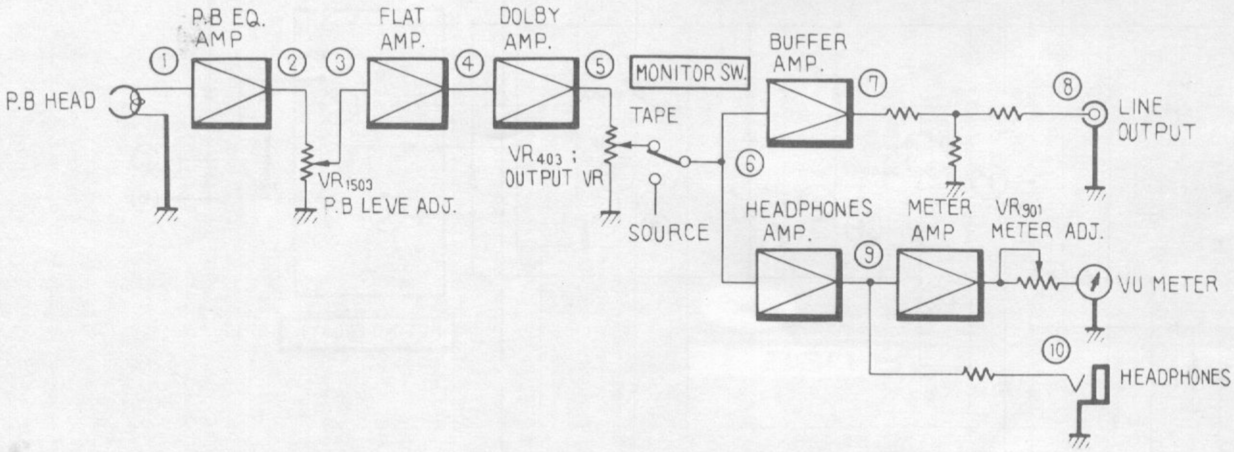


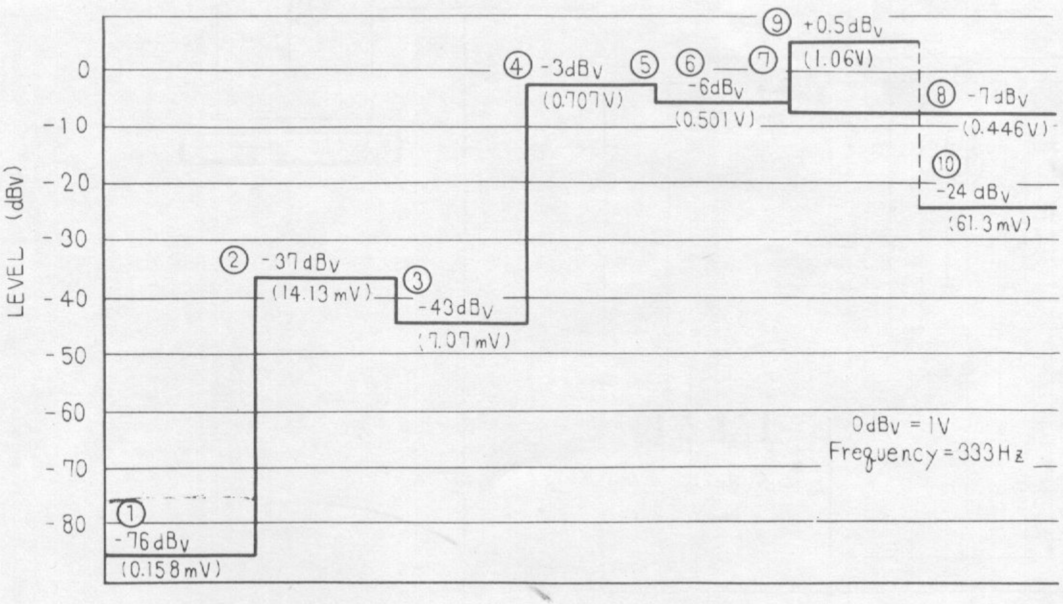
Control Function Routes



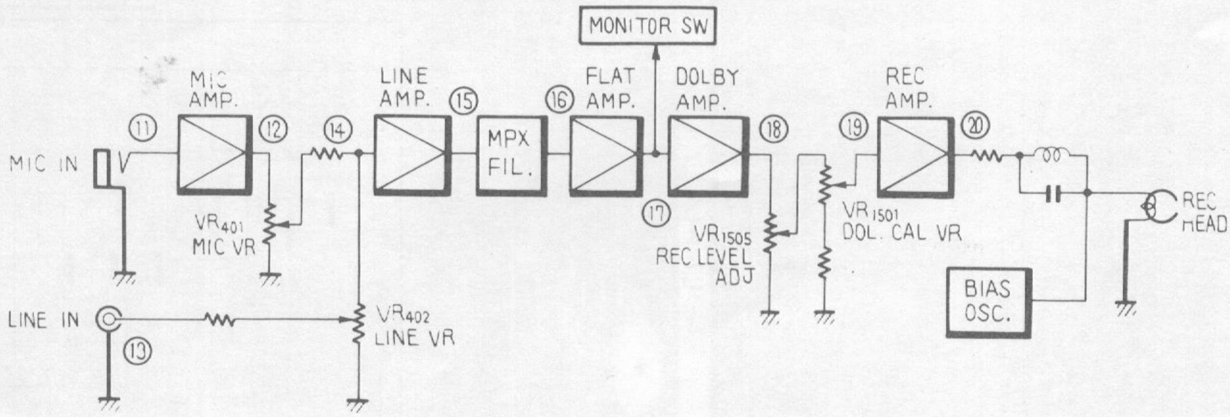
5. LEVEL DIAGRAM

PLAYBACK

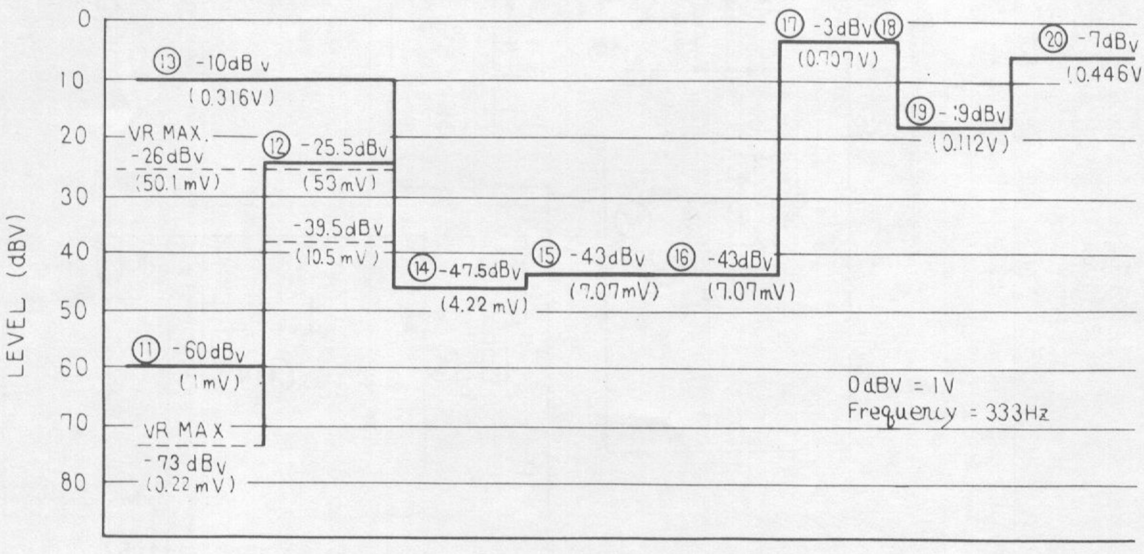




RECORDING



MONITOR SW
MIC AMP.
LINE AMP.
FLAT AMP.
DOLBY AMP.
REC AMP.
MPX FIL.
MIC IN
LINE IN
VR401 MIC VR
VR402 LINE VR
VR1505 REC LEVEL ADJ
VR1501 DOL. CAL VR
BIAS OSC.
REC HEAD
11
12
13
14
15
16
17
18
19
20



LEVEL (dBV)
0
10
20
30
40
50
60
70
80
13 -10dBv (0.316V)
VR MAX. -26dBv (50.1mV)
12 -25.5dBv (53mV)
-39.5dBv (10.5mV)
14 -47.5dBv (4.22mV)
15 -43dBv (7.07mV)
16 -43dBv (7.07mV)
17 -3dBv 18 (0.707V)
19 -19dBv (0.112V)
20 -7dBv (0.446V)
11 -60dBv (1mV)
VR MAX -73dBv (0.22mV)
0dBV = 1V
Frequency = 333Hz

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.

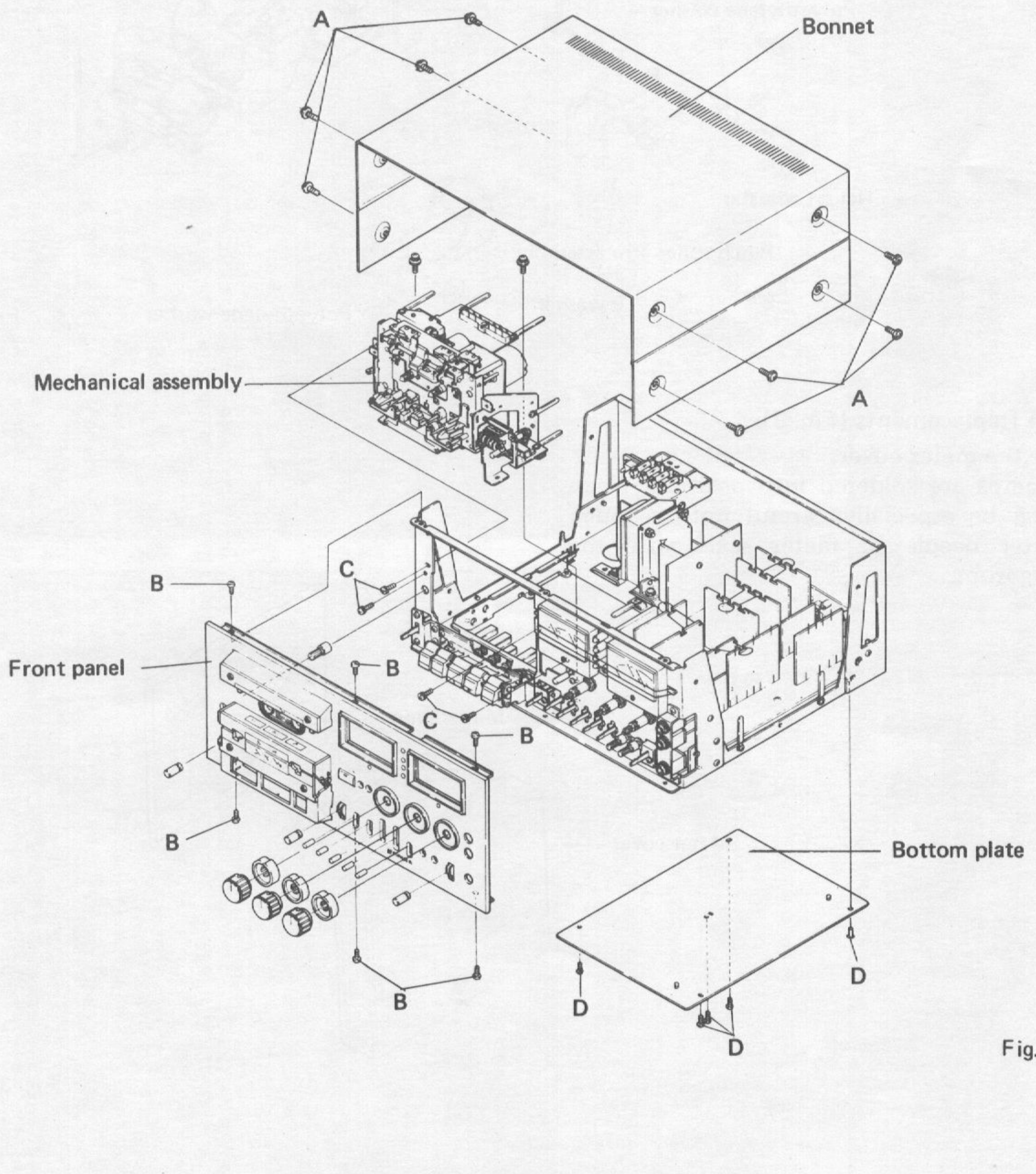


Fig. 1

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 eraseing 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.

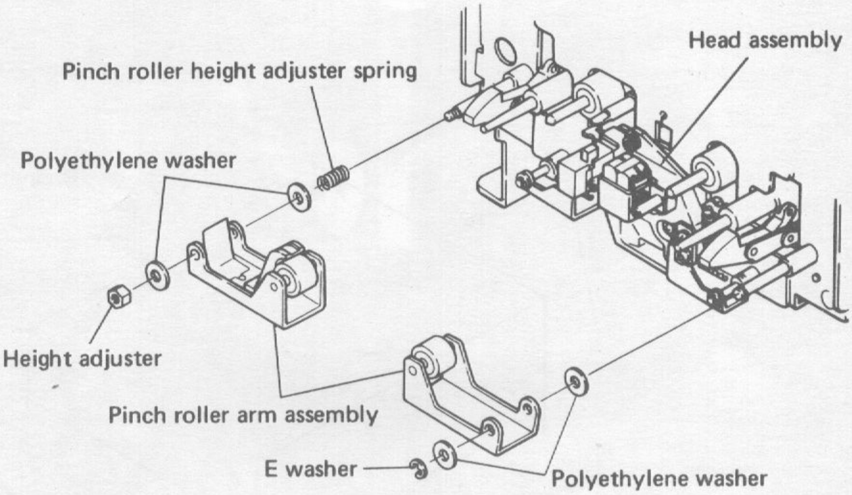


Fig. 2

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.

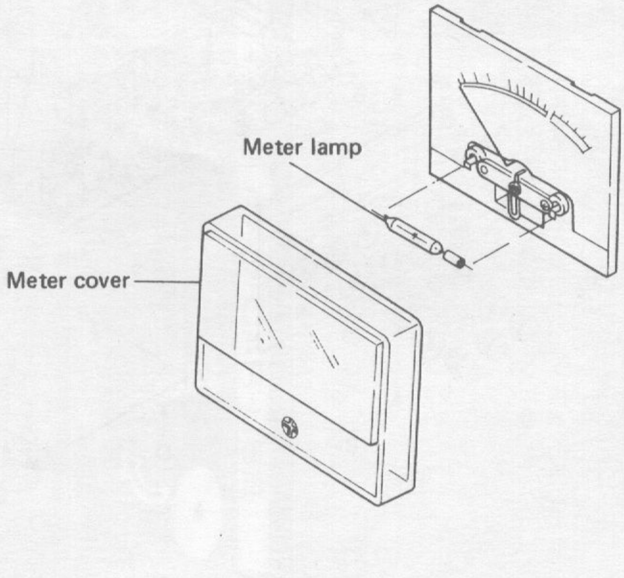


Fig. 3

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.

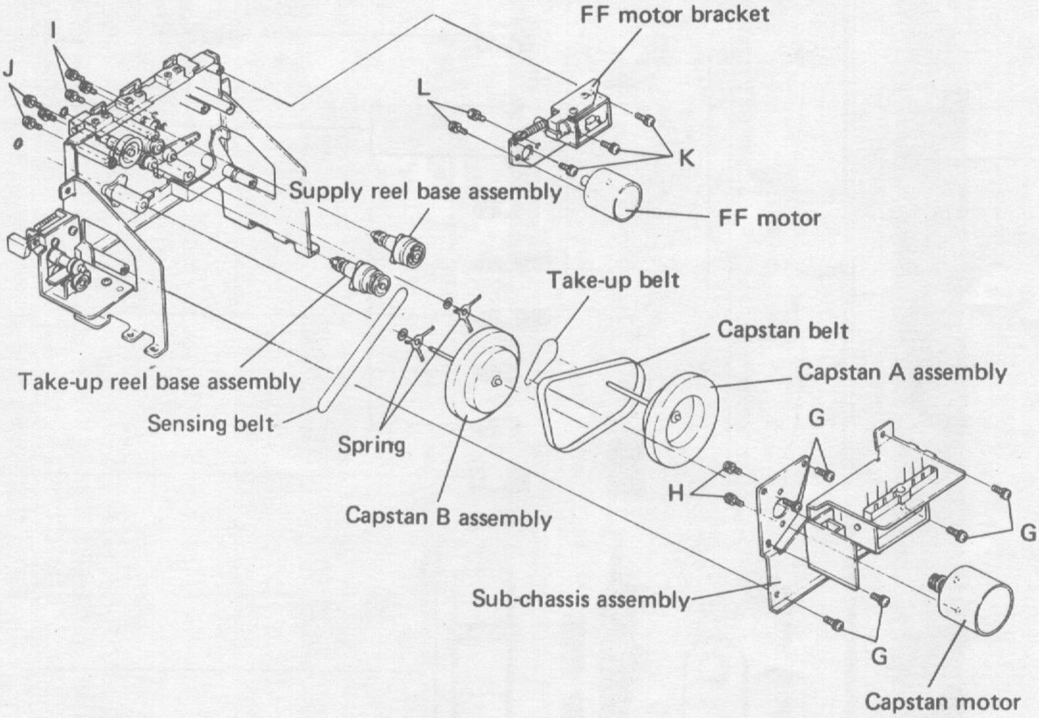
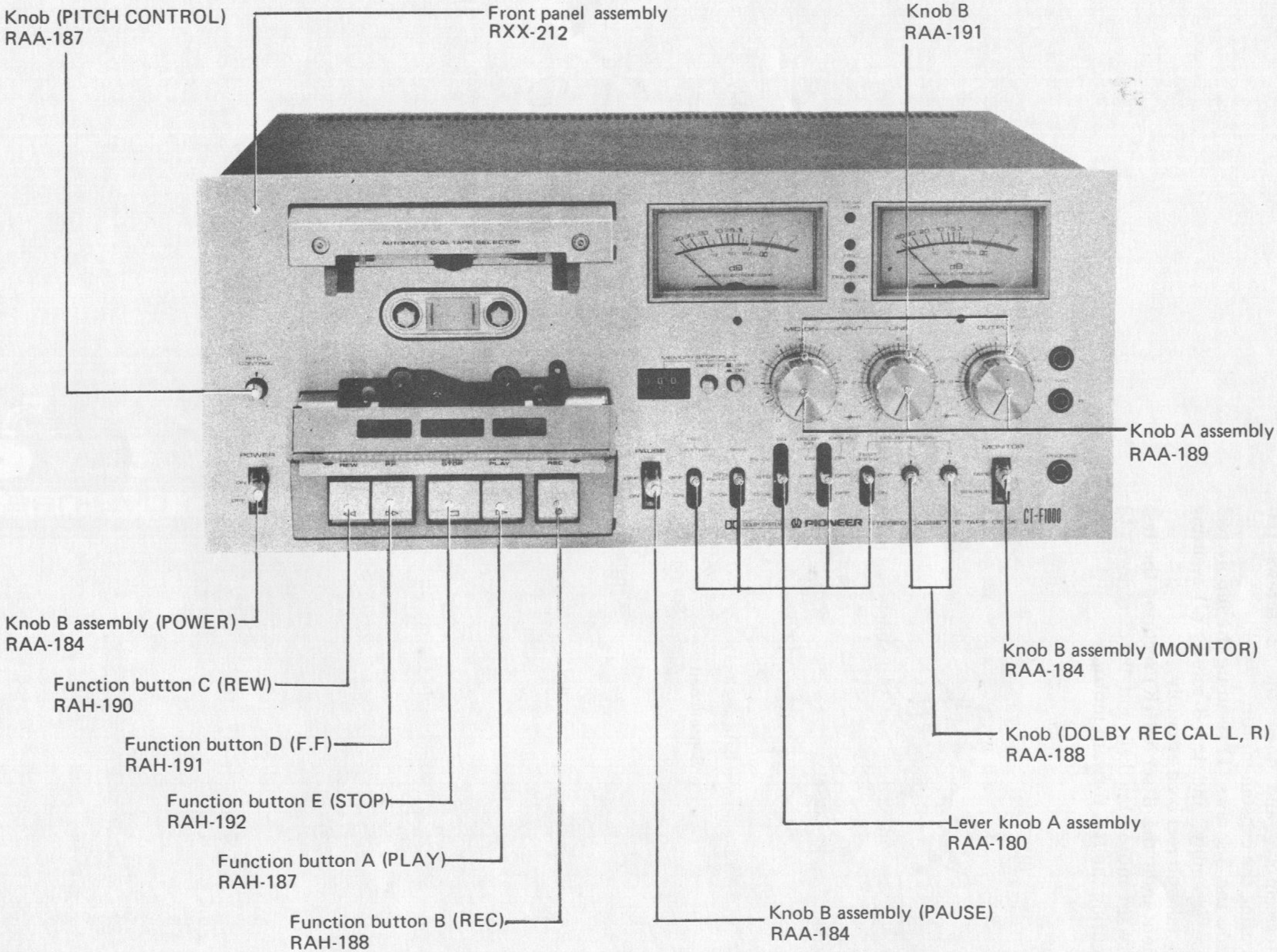


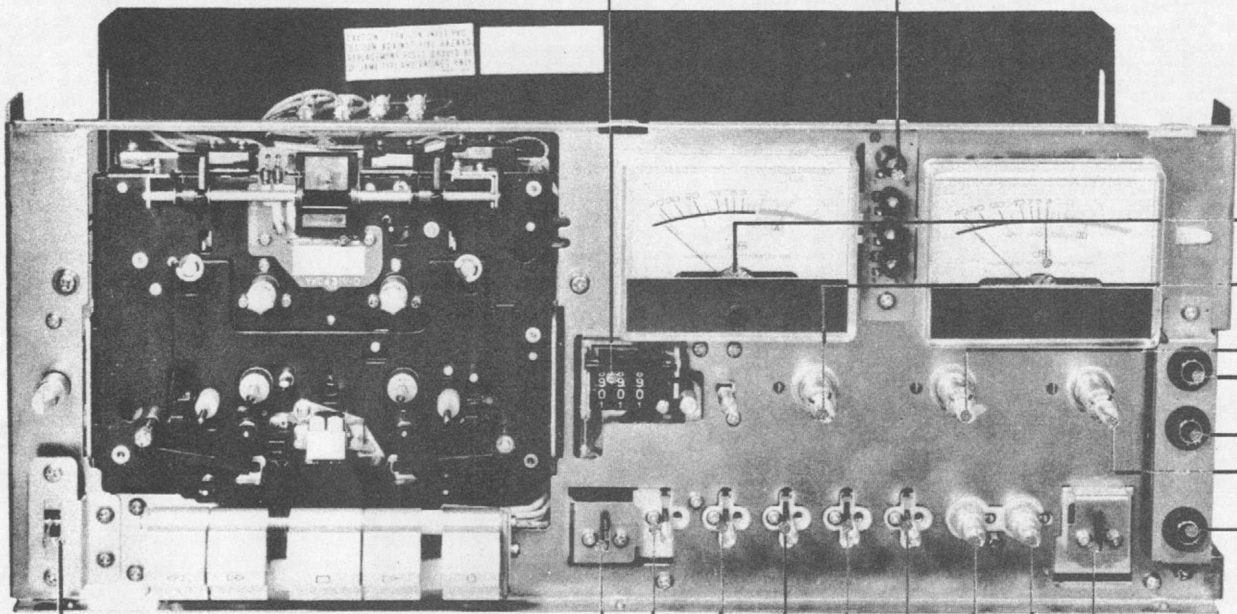
Fig. 4

7. PARTS LOCATION

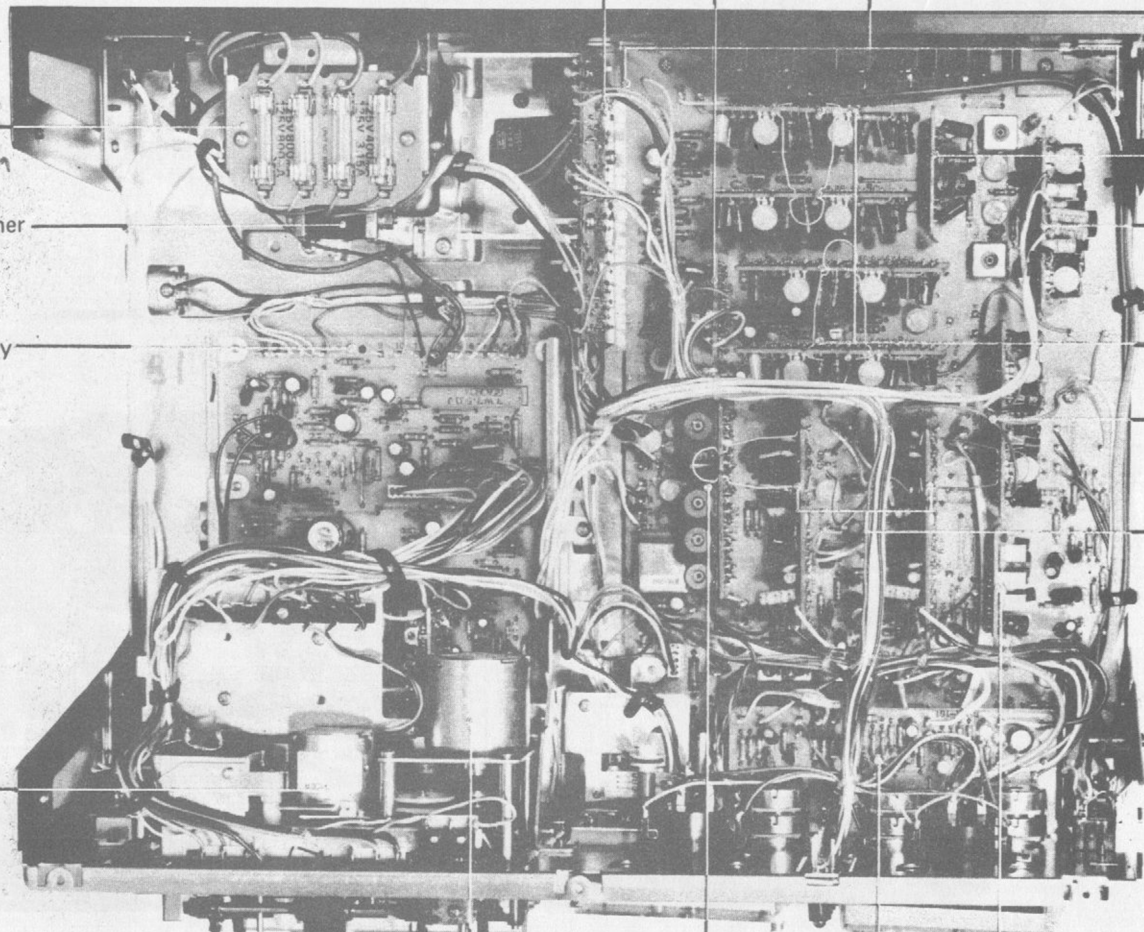
7.1 FRONT PANEL VIEW

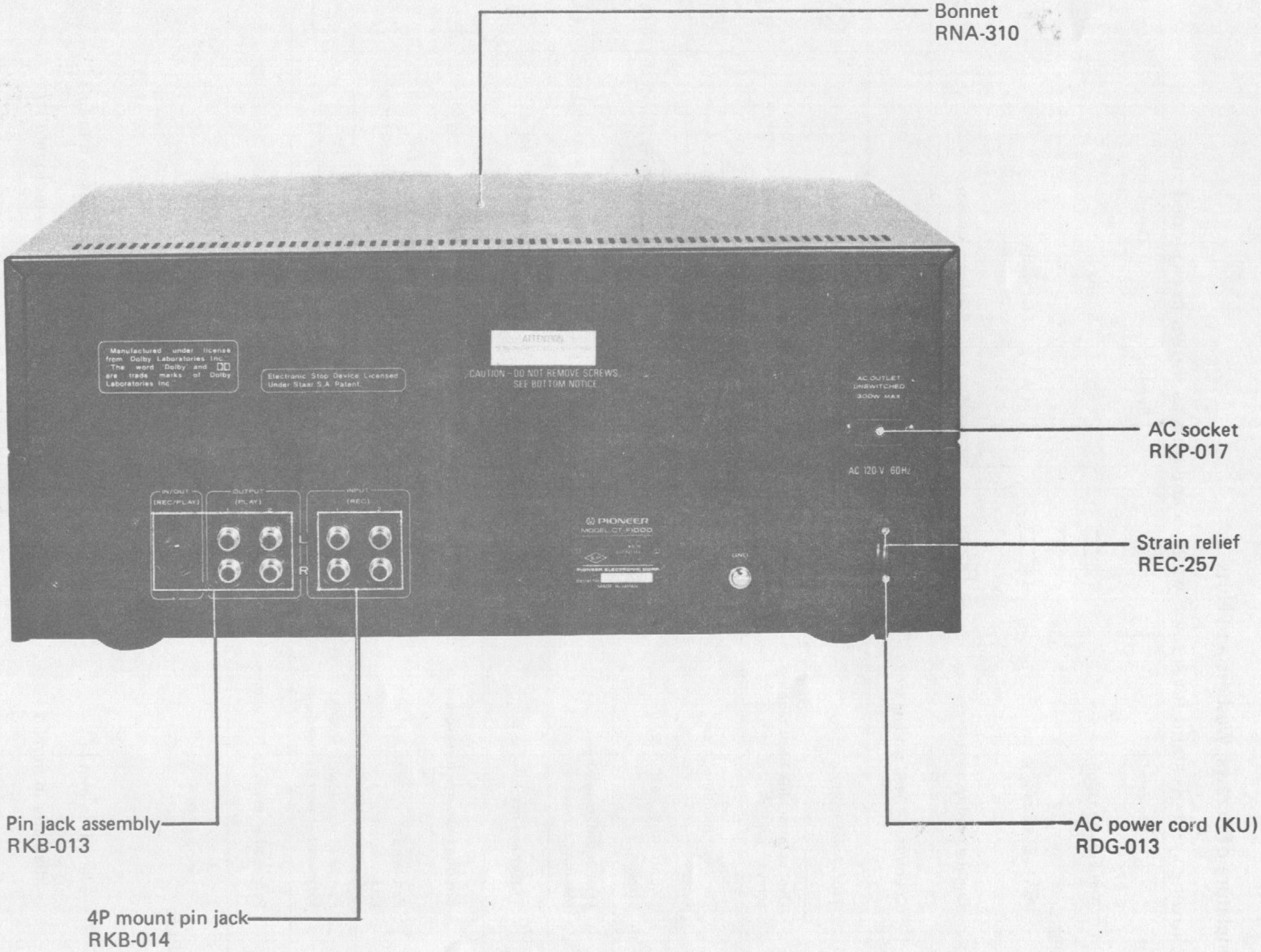


7.2 FRONT VIEW WITH FRONT PANEL REMOVED



7.3 TOP VIEW WITH BONNET REMOVED




Bonnet
RNA-310
Manufactured under license from Dolby Laboratories Inc. The word Dolby and DD are trade marks of Dolby Laboratories Inc.
Electronic Stop Device Licensed Under Staar S.A. Patent.
CAUTION—DO NOT REMOVE SCREWS. SEE BOTTOM NOTICE
AC OUTLET UNSWITCHED 300W MAX
AC socket
RKP-017
AC 120 V 60Hz
IN/OUT (REC/PLAY)
OUTPUT (PLAY)
INPUT (REC)
L
R
PIONEER
MODEL CT-F1000
MADE IN JAPAN
GND
Strain relief
REC-257
Pin jack assembly
RKB-013
AC power cord (KU)
RDG-013
4P mount pin jack
RKB-014

8. EXPLODED VIEWS

Nomenclature of Screws, Washers and Nuts

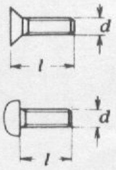
The following symbols stand for screws, washers and nuts as shown in exploded view.

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	

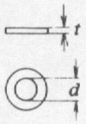
Symbol	Description	Shape
EW	E type washer	
FW	Flat washer	
SW	Spring lock washer	
N	Nut	
WN	Washer faced nut	
ITW	Internal toothed lock washer	
OTW	Outernal toothed lock washer	
SC	Slotted set screw (Cone point)	
SF	Slotted set screw (Flat point)	
HS	Hexagon socket headless set screw	
OCW	Oval countersunk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

EXAMPLE

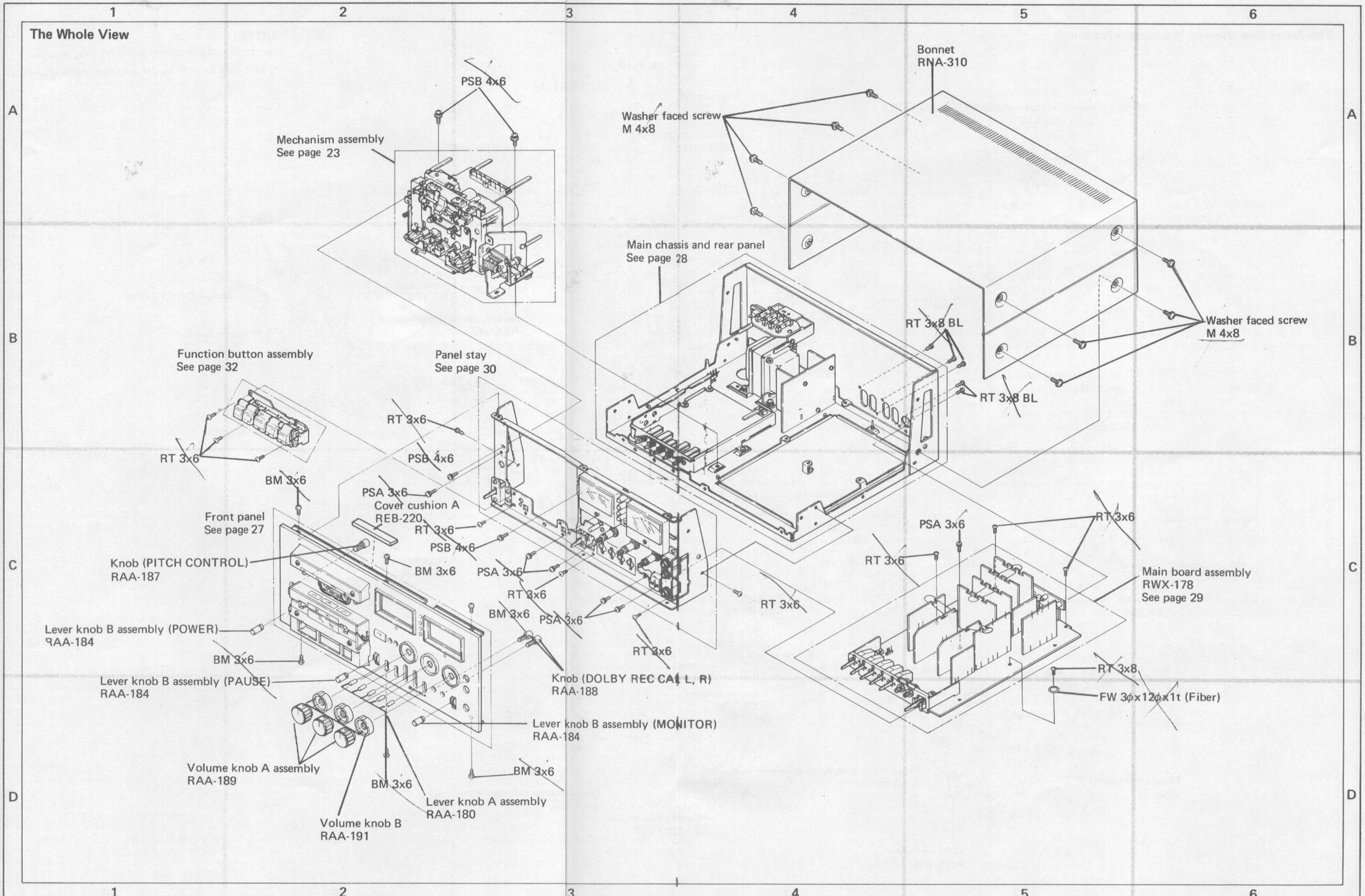
PM · 3x8
- length in mm (l)
- diameter in mm (d)
- Symbol



FW · $9\phi \times 1^t$
- thickness in mm (t)
- diameter in mm (d)
- Symbol

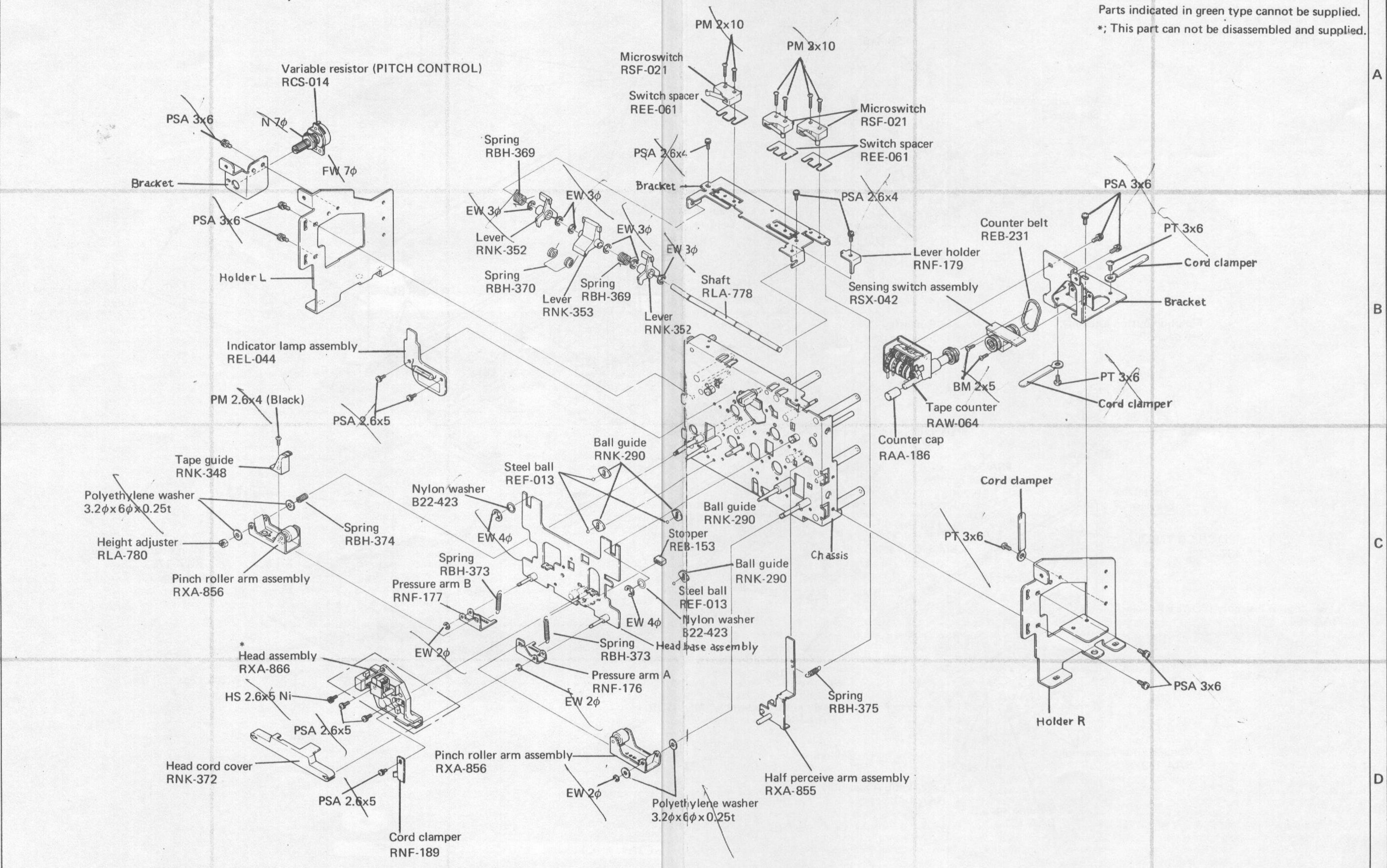


The Whole View



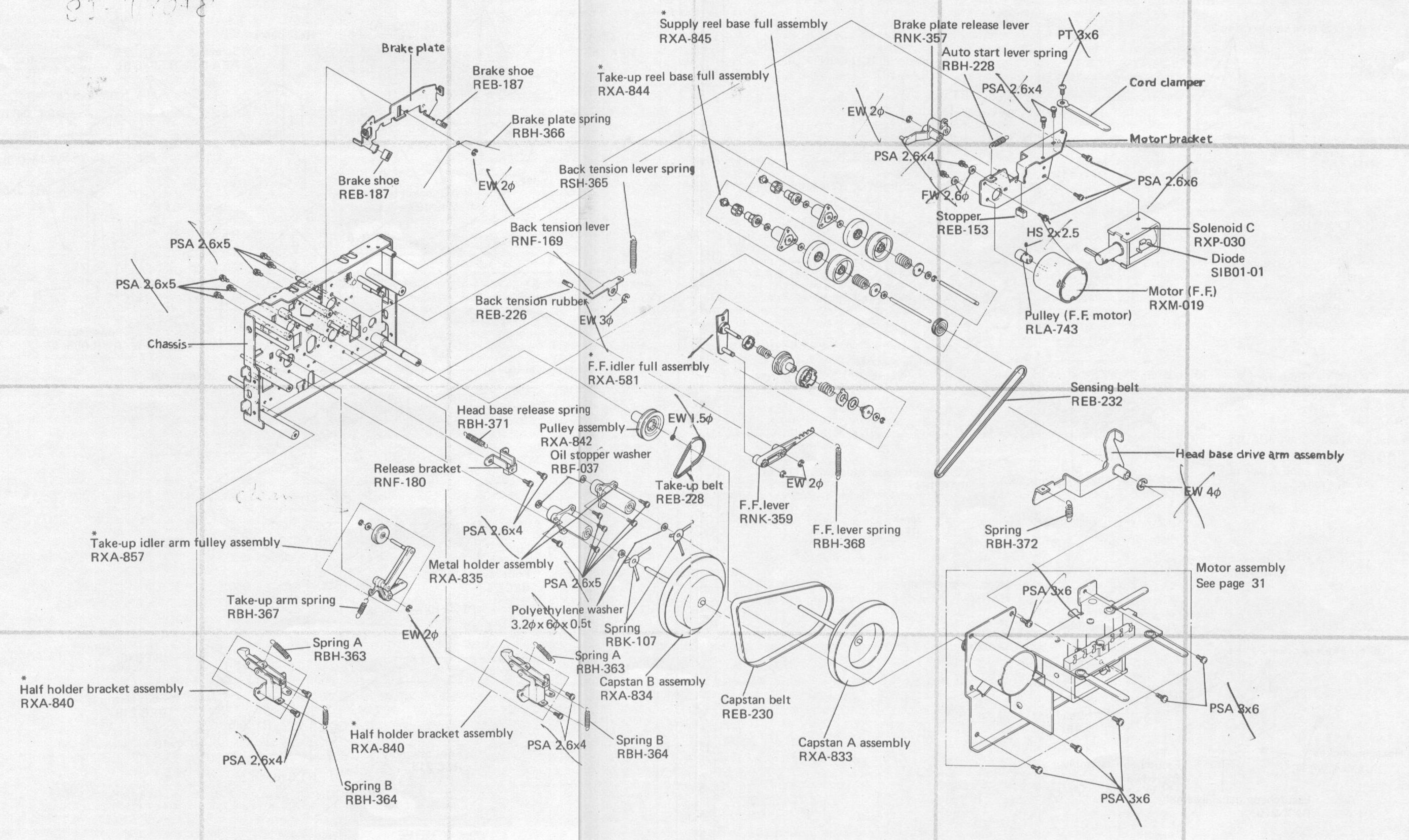
The Front Side View of Mechanism Assembly

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



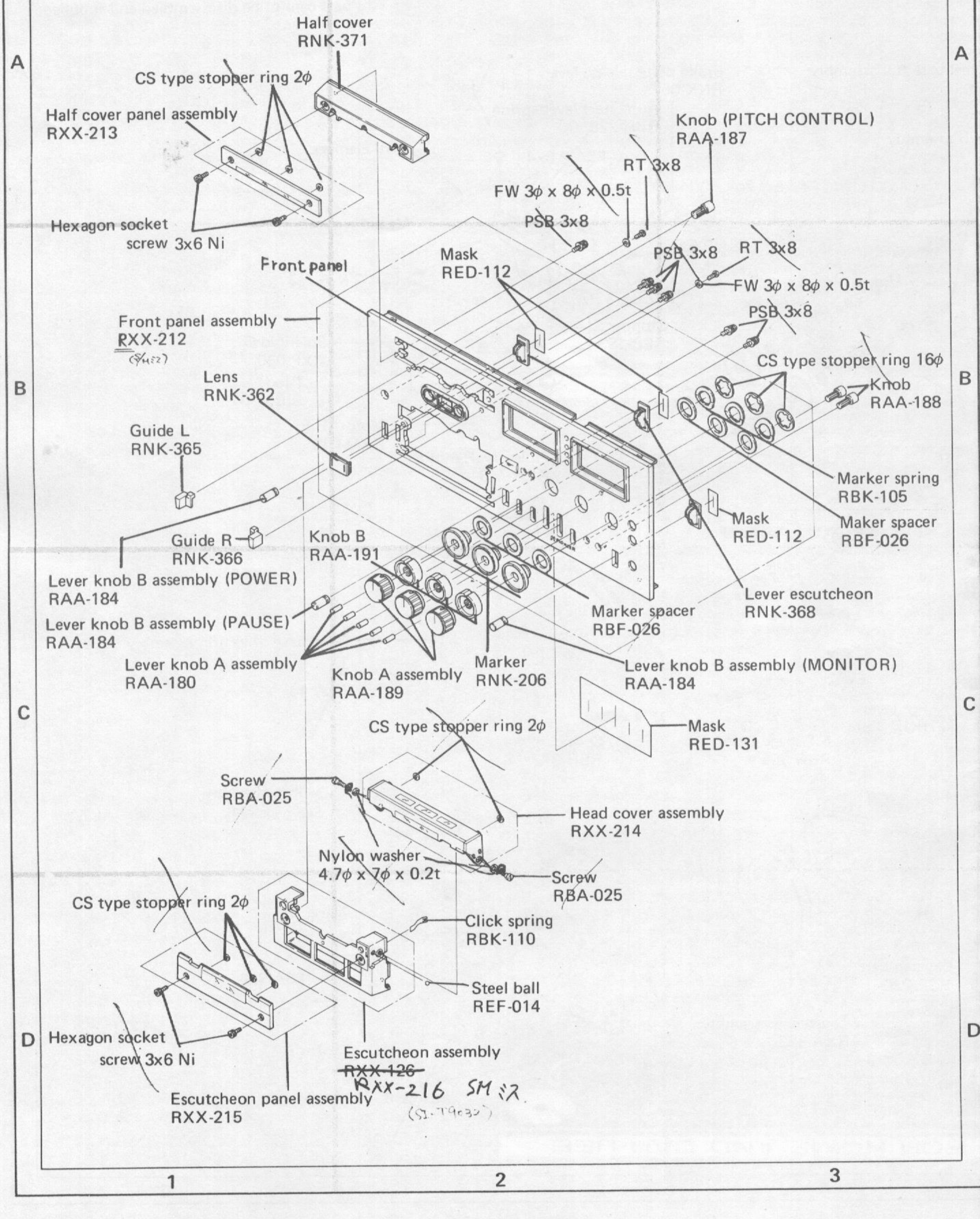
The Rear Side View of Mechanism Assembly

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



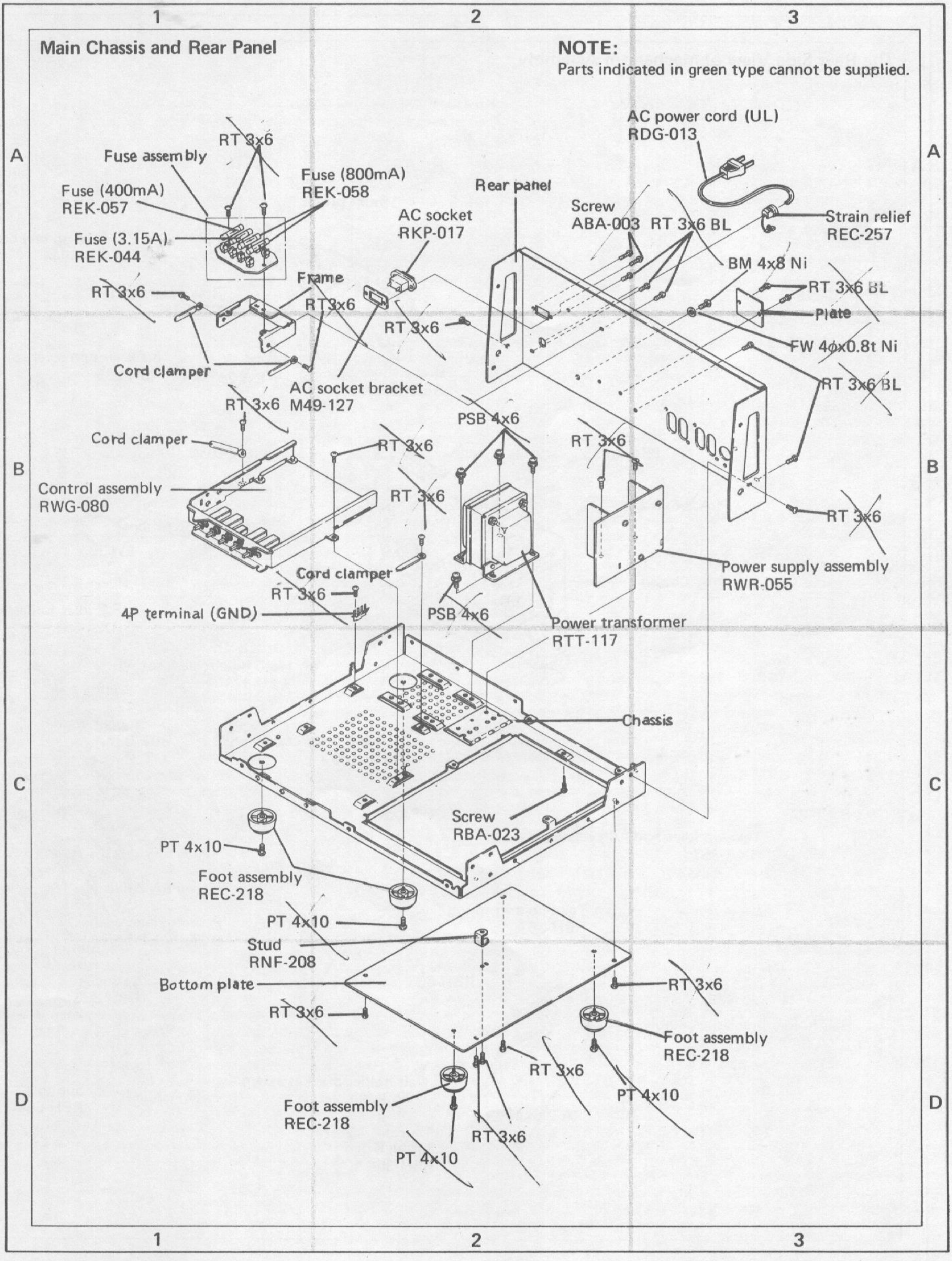
Front Panel View

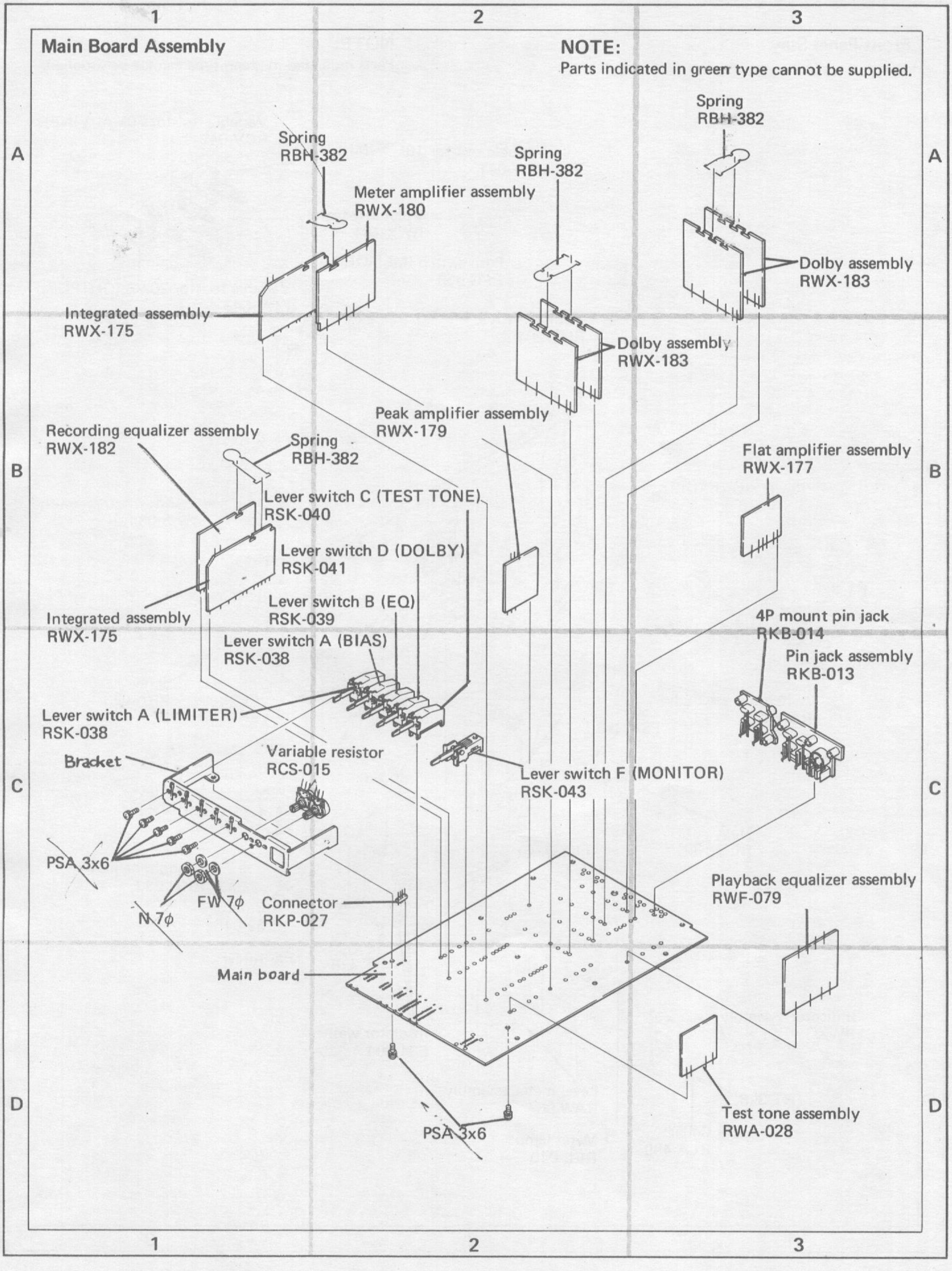
NOTE:
Parts indicated in green type cannot be supplied.



Main Chassis and Rear Panel

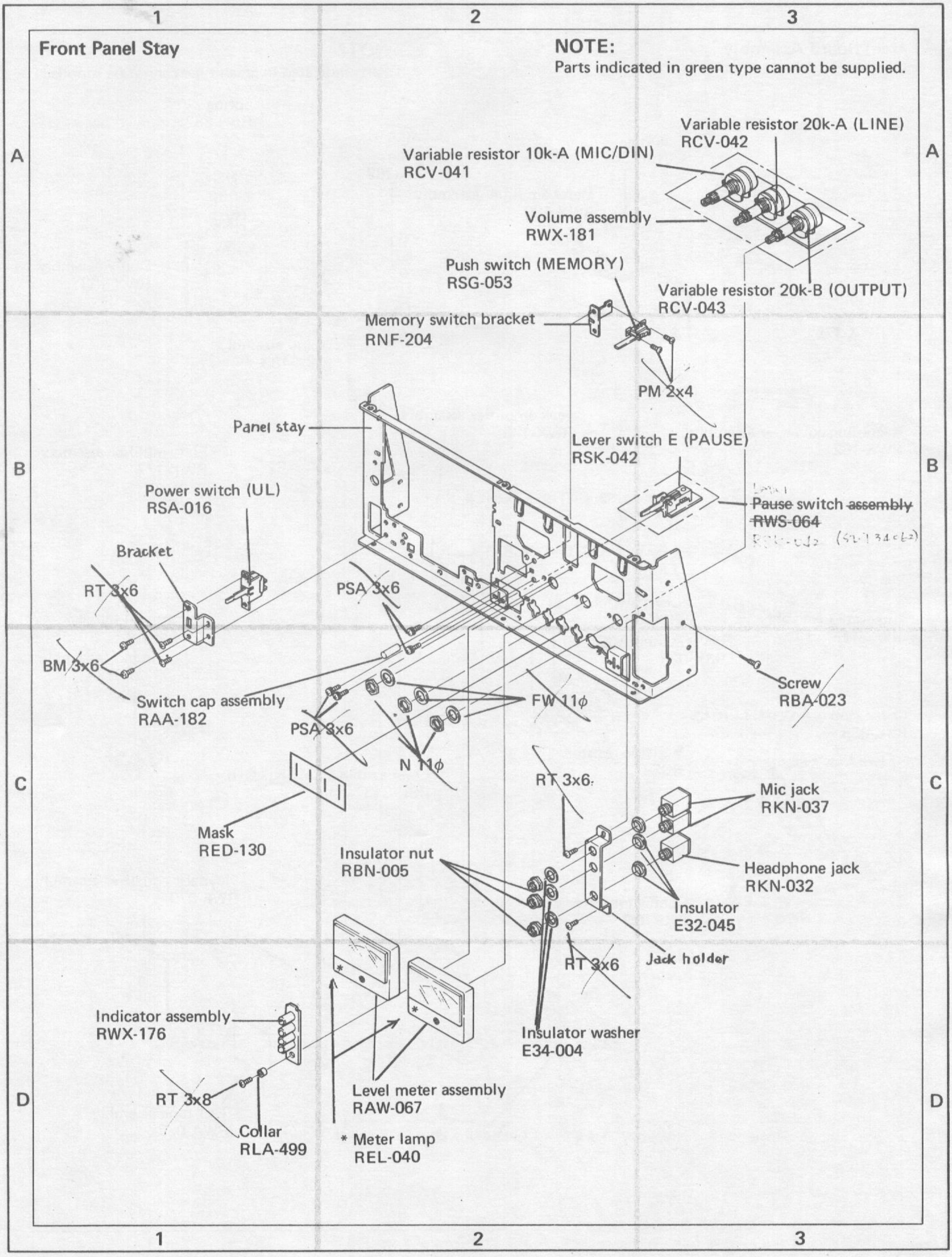
NOTE:
Parts indicated in green type cannot be supplied.




1
2
3
Main Board Assembly
NOTE:
Parts indicated in green type cannot be supplied.
A
B
C
D
Spring
RBH-382
Spring
RBH-382
Spring
RBH-382
Meter amplifier assembly
RWX-180
Integrated assembly
RWX-175
Dolby assembly
RWX-183
Dolby assembly
RWX-183
Peak amplifier assembly
RWX-179
Recording equalizer assembly
RWX-182
Spring
RBH-382
Flat amplifier assembly
RWX-177
Lever switch C (TEST TONE)
RSK-040
Lever switch D (DOLBY)
RSK-041
Lever switch B (EQ)
RSK-039
Integrated assembly
RWX-175
Lever switch A (BIAS)
RSK-038
4P mount pin jack
RKB-014
Pin jack assembly
RKB-013
Lever switch A (LIMITER)
RSK-038
Bracket
Variable resistor
RCS-015
Lever switch F (MONITOR)
RSK-043
PSA 3x6
FW 7ϕ
N 7ϕ
Connector
RKP-027
Playback equalizer assembly
RWF-079
Main board
Test tone assembly
RWA-028
PSA 3x6

Front Panel Stay

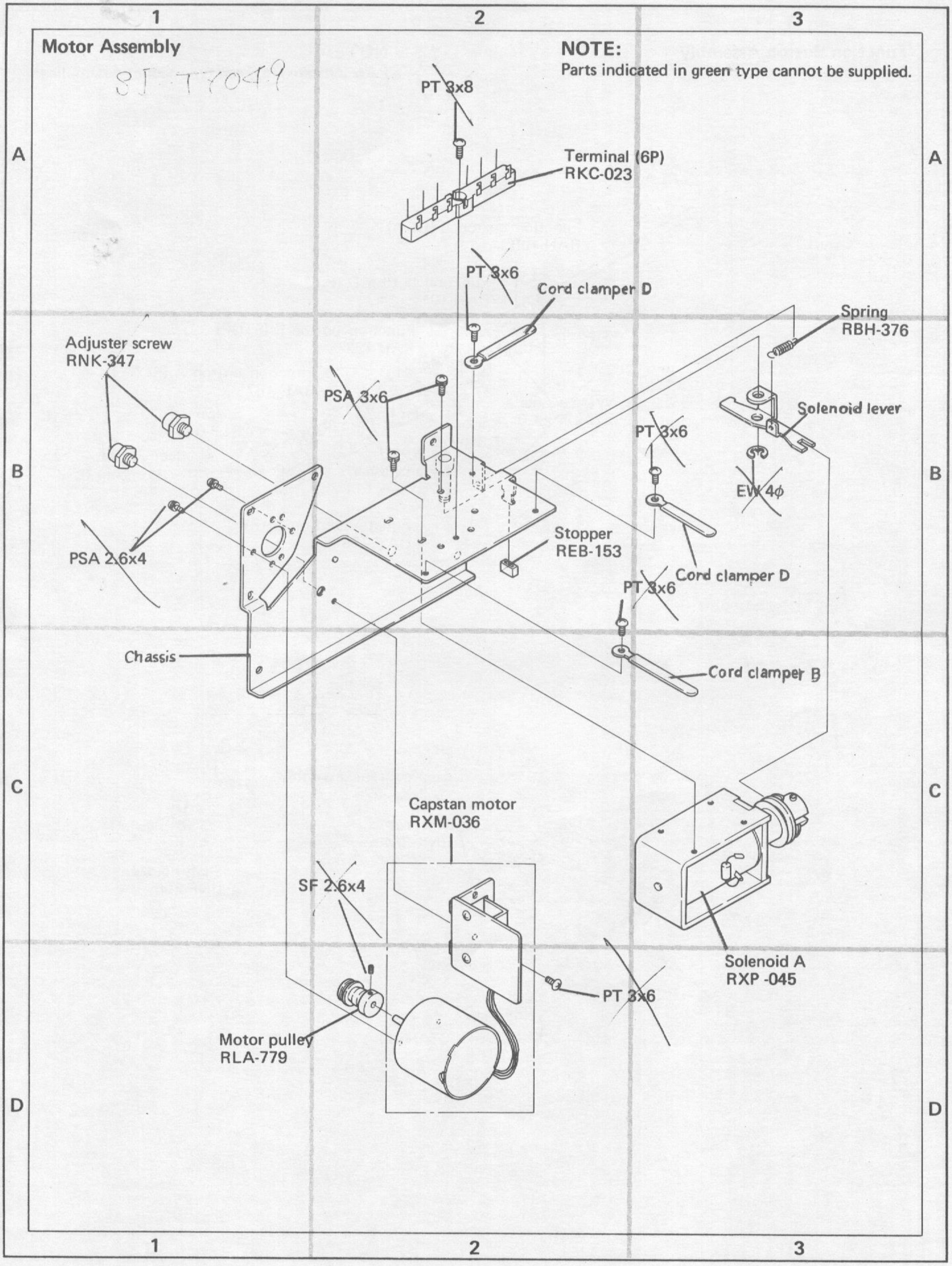
NOTE:
Parts indicated in green type cannot be supplied.



Motor Assembly

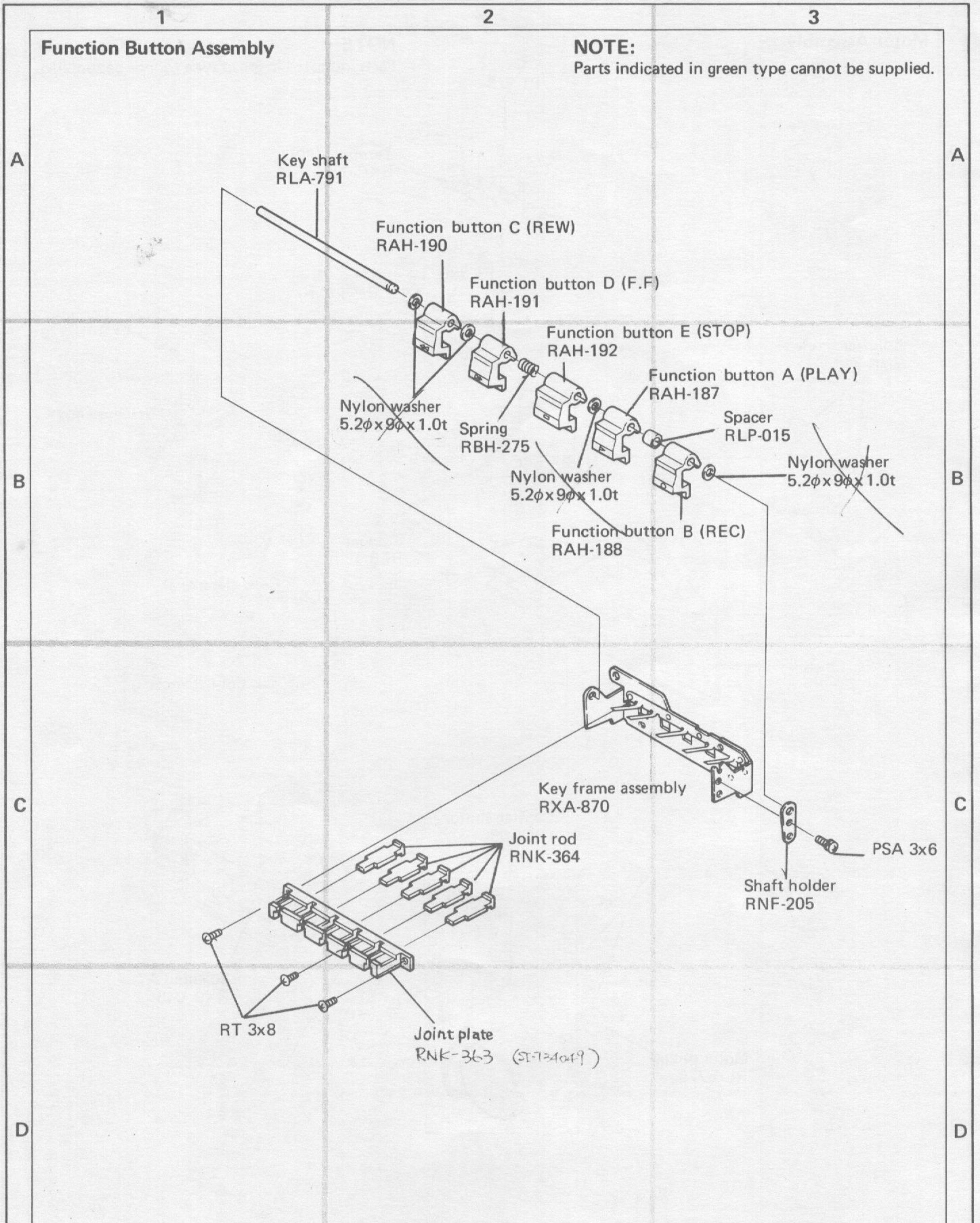
8J-T7049

NOTE:
Parts indicated in green type cannot be 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, ¼W unless otherwise noted k:kΩ, M:MΩ*

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	RD¼PS 222J	Carbon film	2.2k
R002	RD¼PS 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.

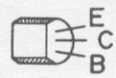
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

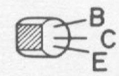
9.2 EXTERNAL APPEARANCE OF TRANSISTORS AND ICS

2SK30AD

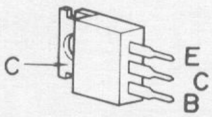
2SA628
2SC1312
2SC711
2SC620



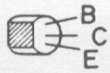
2SC1209



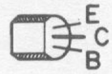
2SD526
2SD234
2SC1419
2SC790



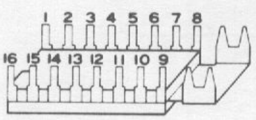
2SC828



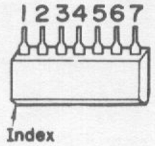
2SB525



PA4001

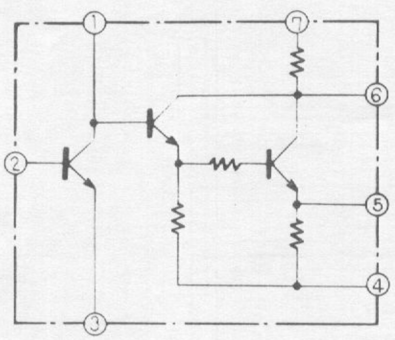


TA7129P

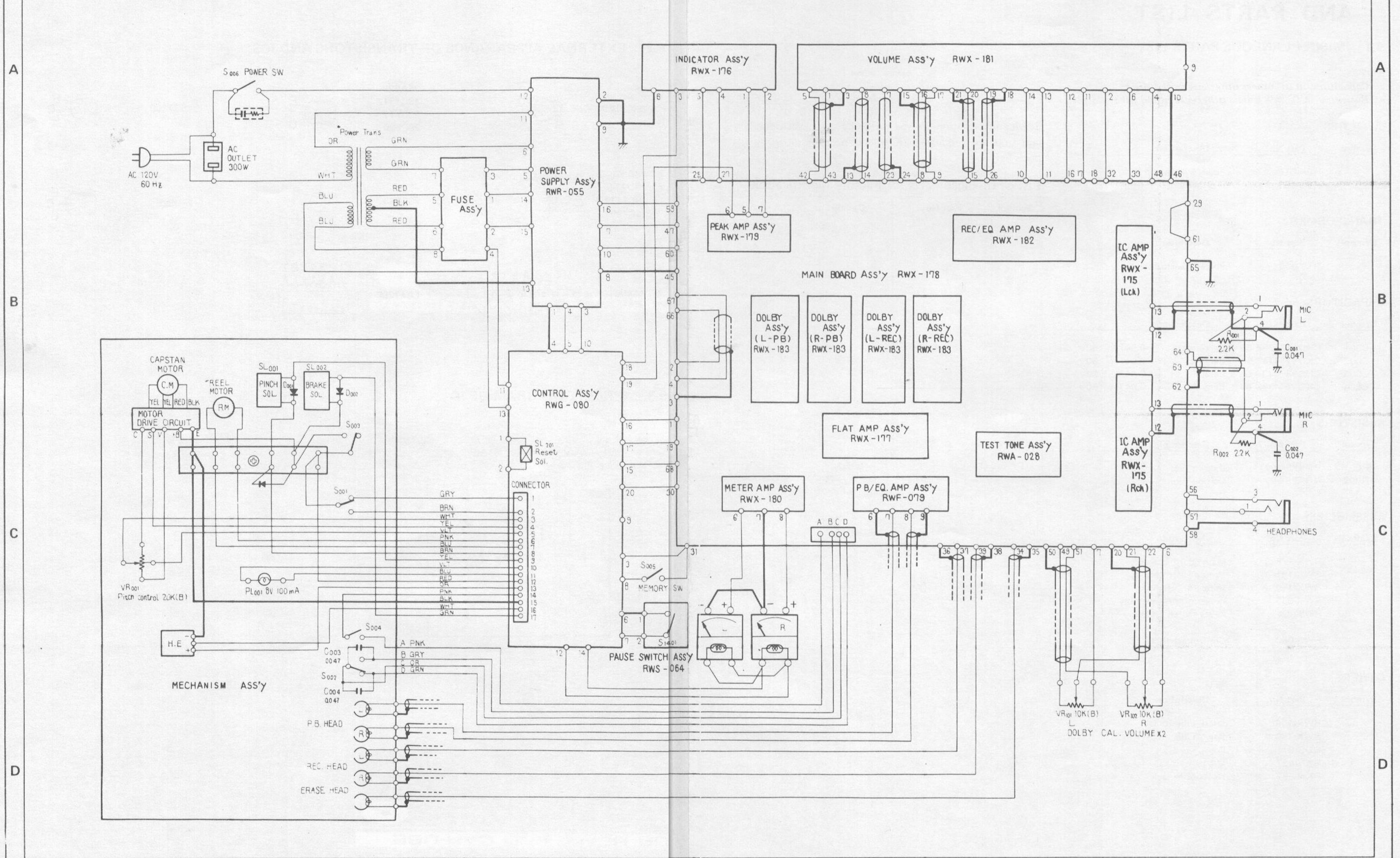


9.3 CIRCUIT DIAGRAM OF IC

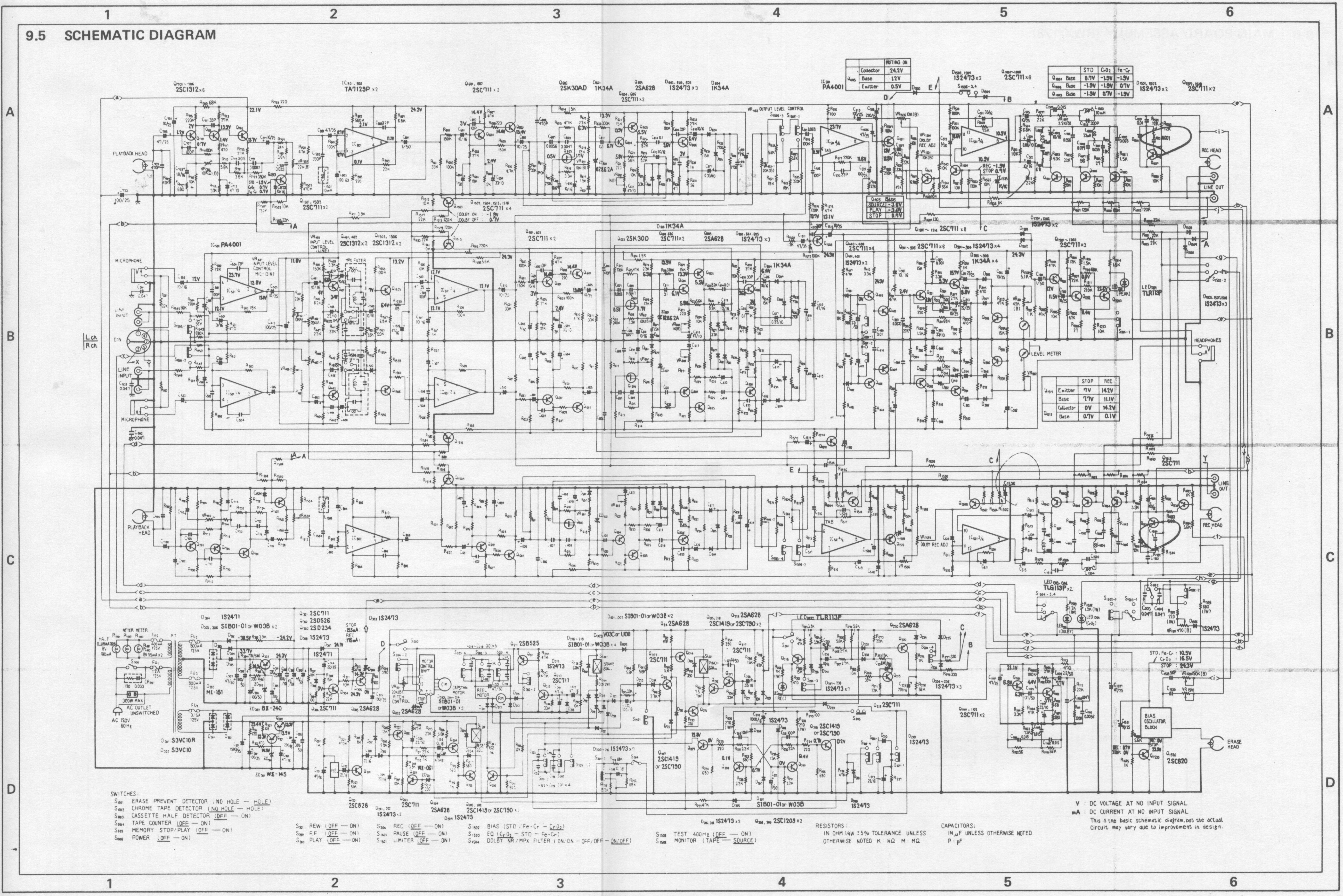
TA7129P



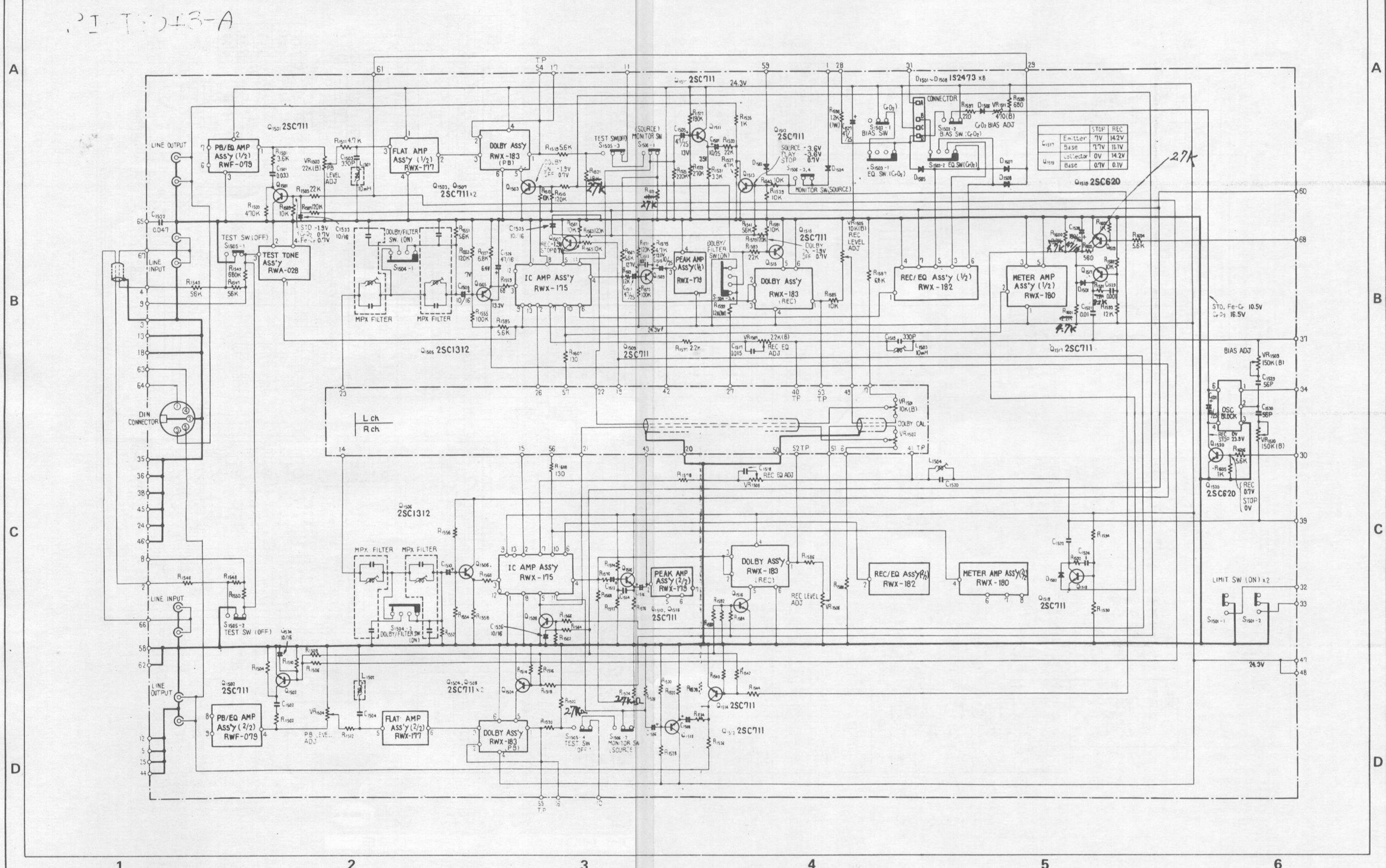
9.4 CONNECTION DIAGRAM

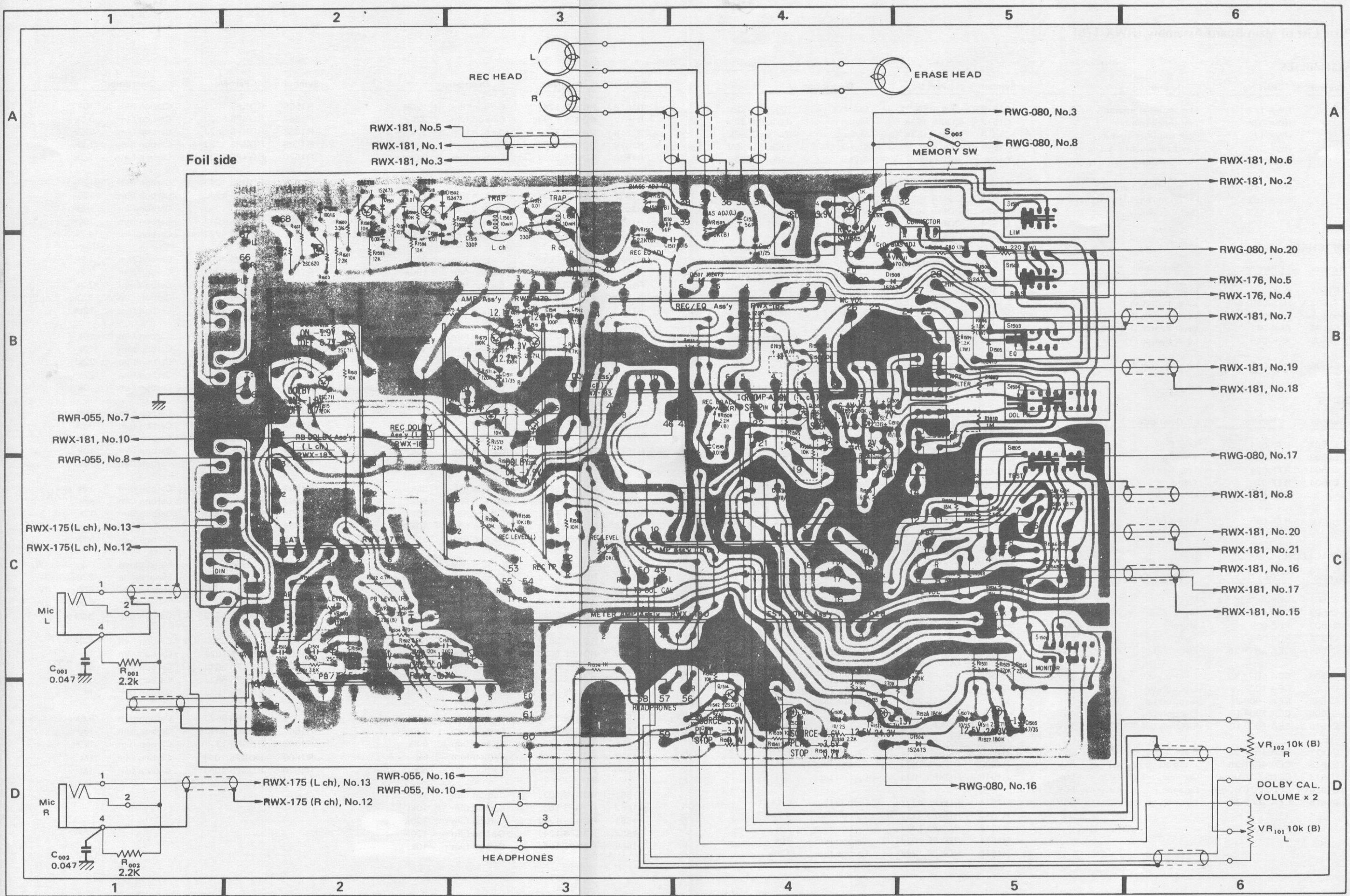


9.5 SCHEMATIC DIAGRAM



9.6 MAIN BOARD ASSEMBLY (RWX-178)




Foil side
REC HEAD
ERASE HEAD
MEMORY SW
RWX-181, No.5
RWX-181, No.1
RWX-181, No.3
RWG-080, No.3
RWG-080, No.8
RWX-181, No.6
RWX-181, No.2
RWG-080, No.20
RWX-176, No.5
RWX-176, No.4
RWX-181, No.7
RWX-181, No.19
RWX-181, No.18
RWG-080, No.17
RWX-181, No.8
RWX-181, No.20
RWX-181, No.21
RWX-181, No.16
RWX-181, No.17
RWX-181, No.15
RWR-055, No.7
RWX-181, No.10
RWR-055, No.8
RWX-175(L ch), No.13
RWX-175(L ch), No.12
Mic L
Mic R
C001 0.047
R001 2.2k
C002 0.047
R002 2.2K
RWX-175 (L ch), No.13
RWX-175 (R ch), No.12
RWR-055, No.16
RWR-055, No.10
HEADPHONES
RWG-080, No.16
VR102 10k (B) R
DOLBY CAL. VOLUME x 2
VR101 10k (B) L

Parts List of Main Board Assembly (RWX-178)

ASSEMBLIES

Symbol	Part No.	Description
	RWX-177	Flat amplifier assembly
	RWA-028	Test tone assembly
	RWX-179	Peak amplifier assembly
	RWF-079	Playback equalizer assembly
	RWX-180	Meter amplifier assembly
	RWX-175	IC amplifier assembly
	RWX-182	Recording equalizer assembly
	RWX-183	Dolby assembly

SWITCHES

Symbol	Part No.	Description
S1501	RSK-038	Lever Switch A
S1502	RSK-038	Lever Switch A
S1503	RSK-039	Lever Switch B
S1504	RSK-041	Lever Switch D
S1505	RSK-040	Lever Switch C
S1506	RSK-043	Lever Switch F

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

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
C1516	CEA 100P 25	Electrolytic	10	25V
C1517	CQMA 153K 50	Mylar	0.015	50V
C1518	CQMA 153K 50	Mylar	0.015	50V
C1519	RCE-008	Styrol	330p	50V
C1520	RCE-008	Styrol	330p	50V
C1521	CQMA 103K 50	Mylar	0.01	50V
C1522	CQMA 103K 50	Mylar	0.01	50V
C1523	CQMA 102K 50	Mylar	0.001	50V
C1524	CQMA 102K 50	Mylar	0.001	50V
C1526	CEA 470P 16	Electrolytic	47	16V
C1527	CEA 470P 25	Electrolytic	47	25V
C1528	CEA ~~101~~P 16 470	Electrolytic	~~100~~ 47	16V
C1529	RCE-004	Styrol	56p	50V
C1530	RCE-004	Styrol	56p	50V
C1531	CEA 100P 25	Electrolytic	10	25V
C1532	CKDYF 473Z 50	Ceramic	0.047	50V
C1533	CEA 100P 16	Electrolytic	10	16V
C1534	CEA 100P 16	Electrolytic	10	16V
C1535	CEA 100P 16	Electrolytic	10	16V
C1536	CEA 100P 16	Electrolytic	10	16V

RESISTORS

Symbol	Part No.	Description	
VR1501	RCS-015	Variable resistor	10k-B
VR1502	RCS-015	Variable resistor	10k-B
VR1503	C92-857	Semifixed	22k-B
VR1504	C92-857	Semifixed	22k-B
VR1505	C92-049	Semifixed	10k-B
VR1506	C92-049	Semifixed	10k-B
VR1507	C92-401	Semifixed	2.2k-B
VR1508	C92-401	Semifixed	2.2k-B
VR1509	C92-860	Semifixed	150k-B
VR1510	C92-860	Semifixed	150k-B
VR1511	RCP-022	Metal glaze semifixed	470-B
R1501	RD¼PS 362J	Carbon film	3.6k
R1502	RD¼PS 362J	Carbon film	3.6k
R1503	RD¼PS 474J	Carbon film	470k
R1504	RD¼PS 474J	Carbon film	470k
R1505	RD¼PS 223J	Carbon film	22k
R1506	RD¼PS 223J	Carbon film	22k
R1507	RD¼PS 124J	Carbon film	120k
R1508	RD¼PS 124J	Carbon film	120k
R1509	RD¼PS 103J	Carbon film	10k
R1510	RD¼PS 103J	Carbon film	10k
R1511	RD¼PS 472J	Carbon film	4.7k
R1512	RD¼PS 472J	Carbon film	4.7k
R1513	RD¼PS 103J	Carbon film	10k
R1514	RD¼PS 103J	Carbon film	10k
R1515	RD¼PS 124J	Carbon film	120k

Symbol	Part No.	Description		
R1516	RD¼PS 124J	Carbon film	120k	
R1517	RD¼PS 223J	Carbon film	22k	
R1518	RD¼PS 223J	Carbon film	22k	
R1519	RD¼PS 562J	Carbon film	5.6k	
R1520	RD¼PS 562J	Carbon film	5.6k	
R1521	RD¼PS ~~183J~~ 273J	Carbon film	~~18k~~ 27kΩ	
R1522	RD¼PS ~~183J~~ 273J	Carbon film	~~18k~~ 27kΩ	
R1523	RD¼PS ~~183J~~ 273J	Carbon film	~~18k~~ 27kΩ	
R1524	RD¼PS ~~183J~~ 273J	Carbon film	~~18k~~ 27kΩ	
R1525	RD¼PS 224J	Carbon film	220k	
R1526	RD¼PS 224J	Carbon film	220k	
R1527	RD¼PS 184J	Carbon film	180k	
R1528	RD¼PS 184J	Carbon film	180k	
R1529	RD¼PS 274J	Carbon film	270k	
R1530	RD¼PS 274J	Carbon film	270k	
R1531	RD¼PS 332J	Carbon film	3.3k	
R1532	RD¼PS 332J	Carbon film	3.3k	
R1533	RD¼PS 222J	Carbon film	2.2k	
R1534	RD¼PS 222J	Carbon film	2.2k	
R1535	RD¼PS 102J	Carbon film	1k	
R1536	RD¼PS 102J	Carbon film	1k	
R1537	RD¼PS 473J	Carbon film	47k	
R1538	RD¼PS 473J	Carbon film	47k	
R1539	RD¼PS 103J	Carbon film	10k	
R1540	RD¼PS 103J	Carbon film	10k	
R1541	RD¼PS 563J	Carbon film	56k	
R1542	RD¼PS 563J	Carbon film	56k	
R1543	RD¼PS 103J	Carbon film	10k	
R1544	RD¼PS 103J	Carbon film	10k	
R1545	RD¼PS 563J	Carbon film	56k	
R1546	RD¼PS 563J	Carbon film	56k	
R1547	RD¼PS 563J	Carbon film	56k	
R1548	RD¼PS 563J	Carbon film	56k	
R1549	RD¼PS 684J	Carbon film	680k	
R1550	RD¼PS 684J	Carbon film	680k	
R1551	RD¼PS 562J	Carbon film	5.6k	
R1552	RD¼PS 562J	Carbon film	5.6k	
R1553	RD¼PS 124J	Carbon film	120k	
R1554	RD¼PS 124J	Carbon film	120k	
R1555	RD¼PS 104J	Carbon film	100k	
R1556	RD¼PS 104J	Carbon film	100k	
R1557	RD¼PS 682J	Carbon film	6.8k	
R1558	RD¼PS 682J	Carbon film	6.8k	
R1559	RD¼PS 680J	Carbon film	68	
R1560	RD¼PS 680J	Carbon film	68	
R1561	RD¼PS 103J	Carbon film	10k	
R1562	RD¼PS 103J	Carbon film	10k	
R1563	RD¼PS 124J	Carbon film	120k	
R1564	RD¼PS 124J	Carbon film	120k	
R1565	RD¼PS 103J	Carbon film	10k	
R1566	RD¼PS 103J	Carbon film	10k	
R1567	RD¼PS 562J	Carbon film	5.6k	
R1568	RD¼PS 562J	Carbon film	5.6k	
R1569	RD¼PS 122J	Carbon film	1.2k	
R1570	RD¼PS 122J	Carbon film	1.2k	
R1571	RD¼PS 124J	Carbon film	120k	
R1572	RD¼PS 124J	Carbon film	120k	
R1573	RD¼PS 104J	Carbon film	100k	
R1574	RD¼PS 104J	Carbon film	100k	
R1575	RD¼PS 472J	Carbon film	4.7k	
R1576	RD¼PS 472J	Carbon film	4.7k	
R1577	RD¼PS 222J	Carbon film	2.2k	
R1578	RD¼PS 222J	Carbon film	2.2k	
R1579	RD¼PS 124J	Carbon film	120k	
R1580	RD¼PS 124J	Carbon film	120k	
R1581	RD¼PS 103J	Carbon film	10k	
R1582	RD¼PS 103J	Carbon film	10k	
R1583	RD¼PS 223J	Carbon film	22k	
R1584	RD¼PS 223J	Carbon film	22k	
R1585	RD¼PS 103J	Carbon film	10k	
R1586	RD¼PS 103J	Carbon film	10k	
R1587	RD¼PS 682J	Carbon film	6.8k	
R1588	RD¼PS 682J	Carbon film	6.8k	
R1589	RD¼PS 103J	Carbon film	10k	
R1590	RD¼PS 103J	Carbon film	10k	
R1591	RD¼PS ~~122J~~ 823J	Carbon film	~~12k~~ 82k	
R1592	RD¼PS ~~122J~~ 823J	Carbon film	~~12k~~ 82k	
R1593	RD¼PS 123J	Carbon film	12k	
R1594	RD¼PS 123J	Carbon film	12k	
R1595	RD¼PS 562J	Carbon film	5.6k	
R1596	RS1P 122J	Metal oxide	1.2k	1W
R1597	RS1PSF 221J	Metal oxide	220	1W
R1598	RS1PSF 681J	Metal oxide	680	1W
R1599	RS1P 122J	Metal oxide	1.2k	1W
R1600	RD¼PS ~~332J~~ 472J	Carbon film	~~3.3k~~ 4.7k	
R1601	RD¼PS ~~222J~~ 472J	Carbon film	~~2.2k~~ 4.7K	
R1602	RD¼PS 102J	Carbon film	1k	
R1603	RD¼PS ~~561J~~ 272J	Carbon film	~~560~~ 2.7K	
R1604	RD¼PS 562J	Carbon film	5.6k	
R1605	RD¼PS 102J	Carbon film	1k	
R1606	RD¼PS 562J	Carbon film	5.6k	
R1607	RD¼PS 131J	Carbon film	130	
R1608	RD¼PS 131J	Carbon film	130	
R1609	RD¼PS 105J	Carbon film	1M	
R1610	RD¼PS 105J	Carbon film	1M	

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OTHERS

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

SEMICONDUCTORS

Symbol	Part No.	Description
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 2SC711A-F or E
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

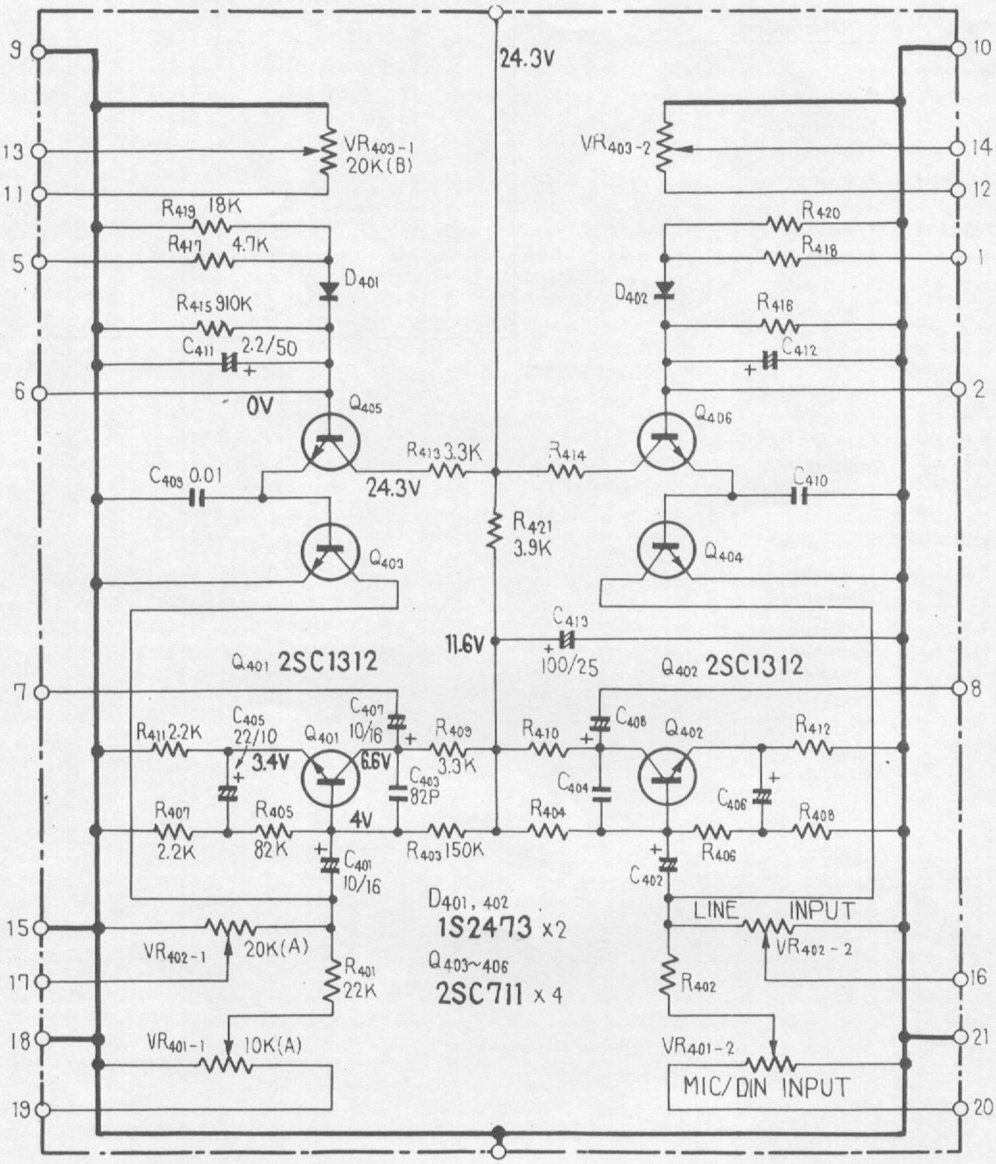
List of Changed Parts for Factory Modification

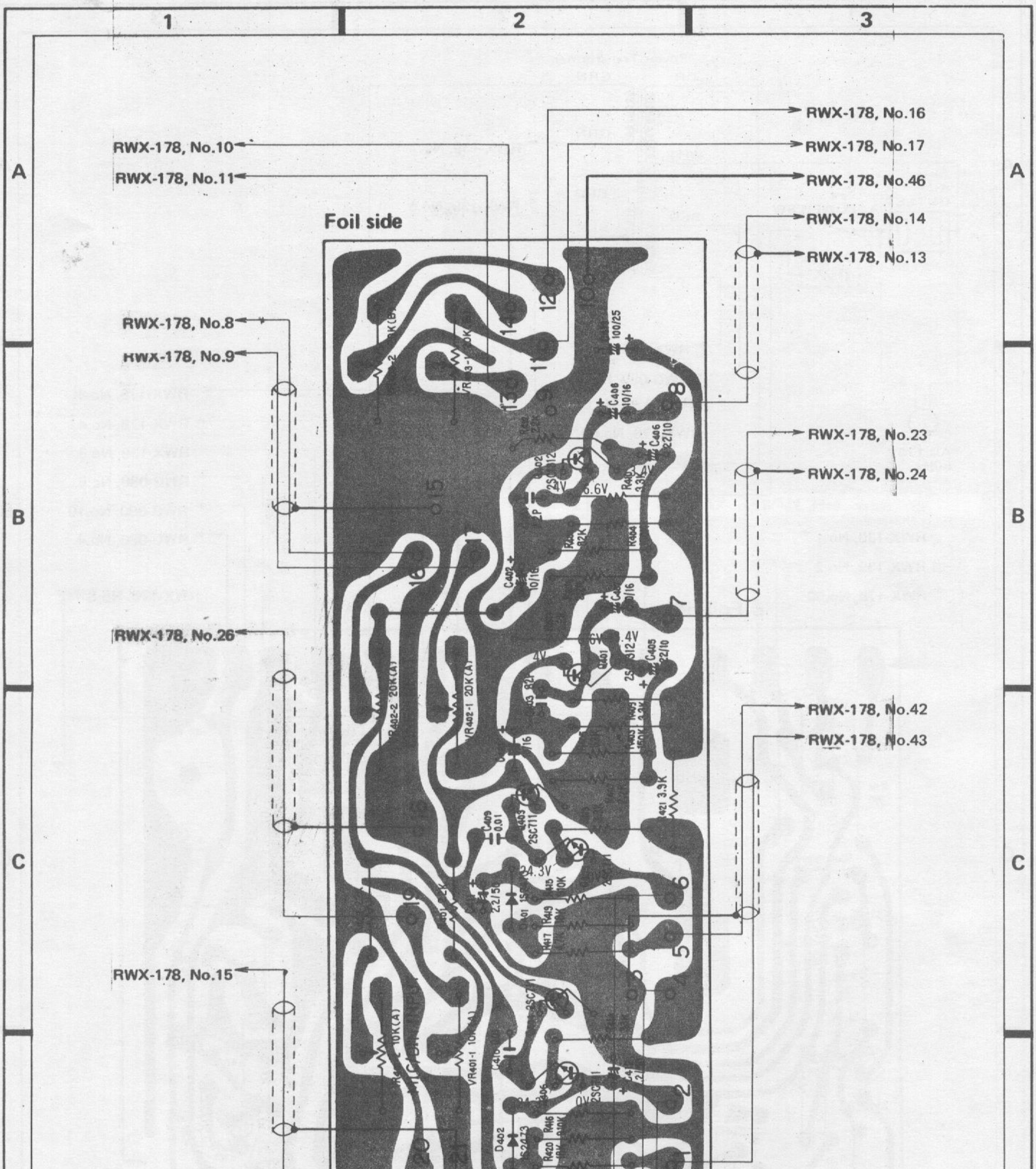
Symbol	Part No.	Description

Main board assembly (RWX-178)

9.7 VOLUME ASSEMBLY (RWX-181)

		MUTING ON
Q_{405}	Collector	24.2V
	Base	1.2V
	Emitter	0.5V




1
2
3
A
B
C
D
Foil side
RWX-178, No.10
RWX-178, No.11
RWX-178, No.16
RWX-178, No.17
RWX-178, No.46
RWX-178, No.14
RWX-178, No.13
RWX-178, No.8
RWX-178, No.9
RWX-178, No.23
RWX-178, No.24
RWX-178, No.26
RWX-178, No.42
RWX-178, No.43
RWX-178, No.15
RWX-178, No.33
RWX-178, No.48
RWX-178, No.32

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

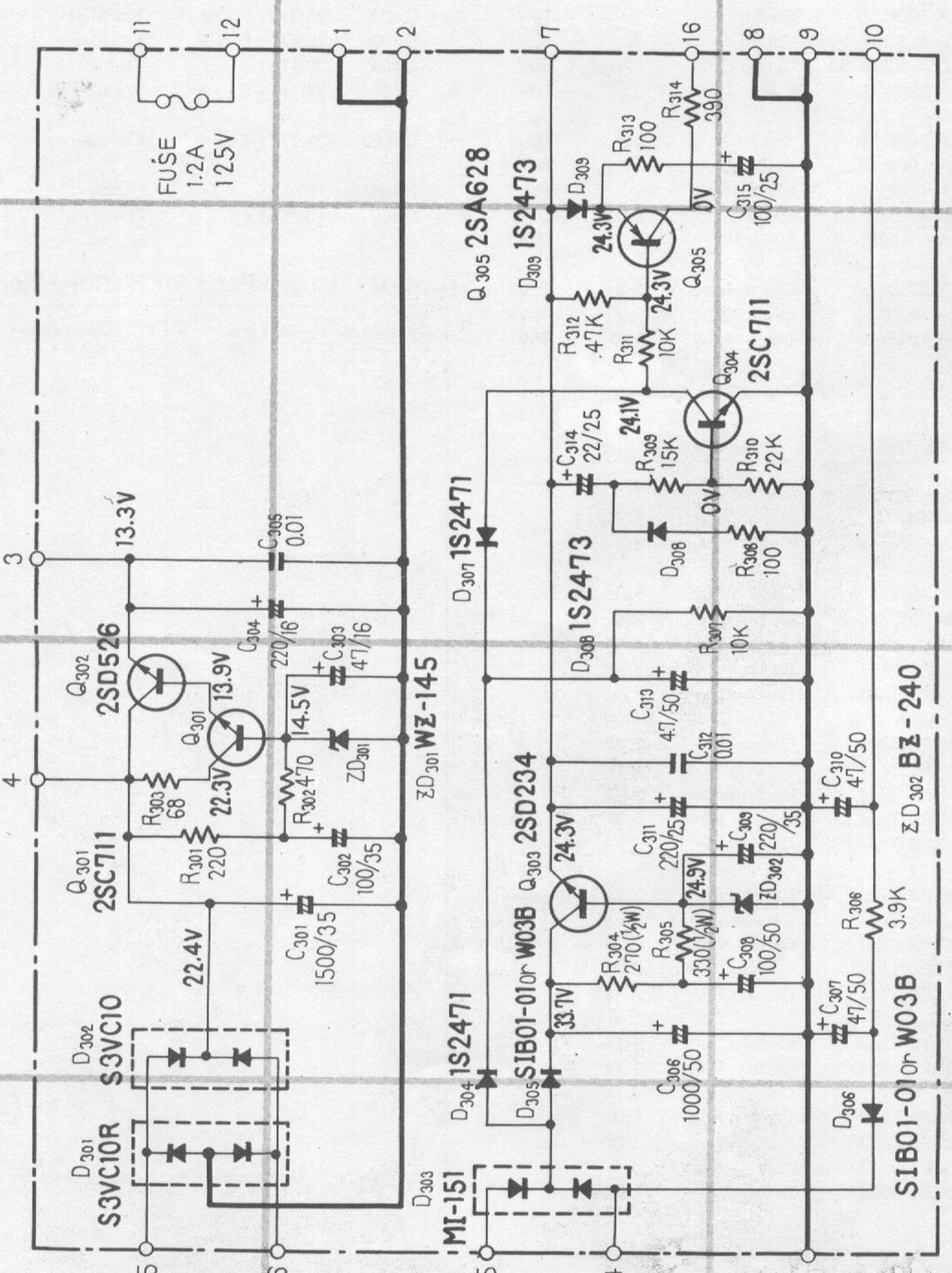
SEMICONDUCTORS

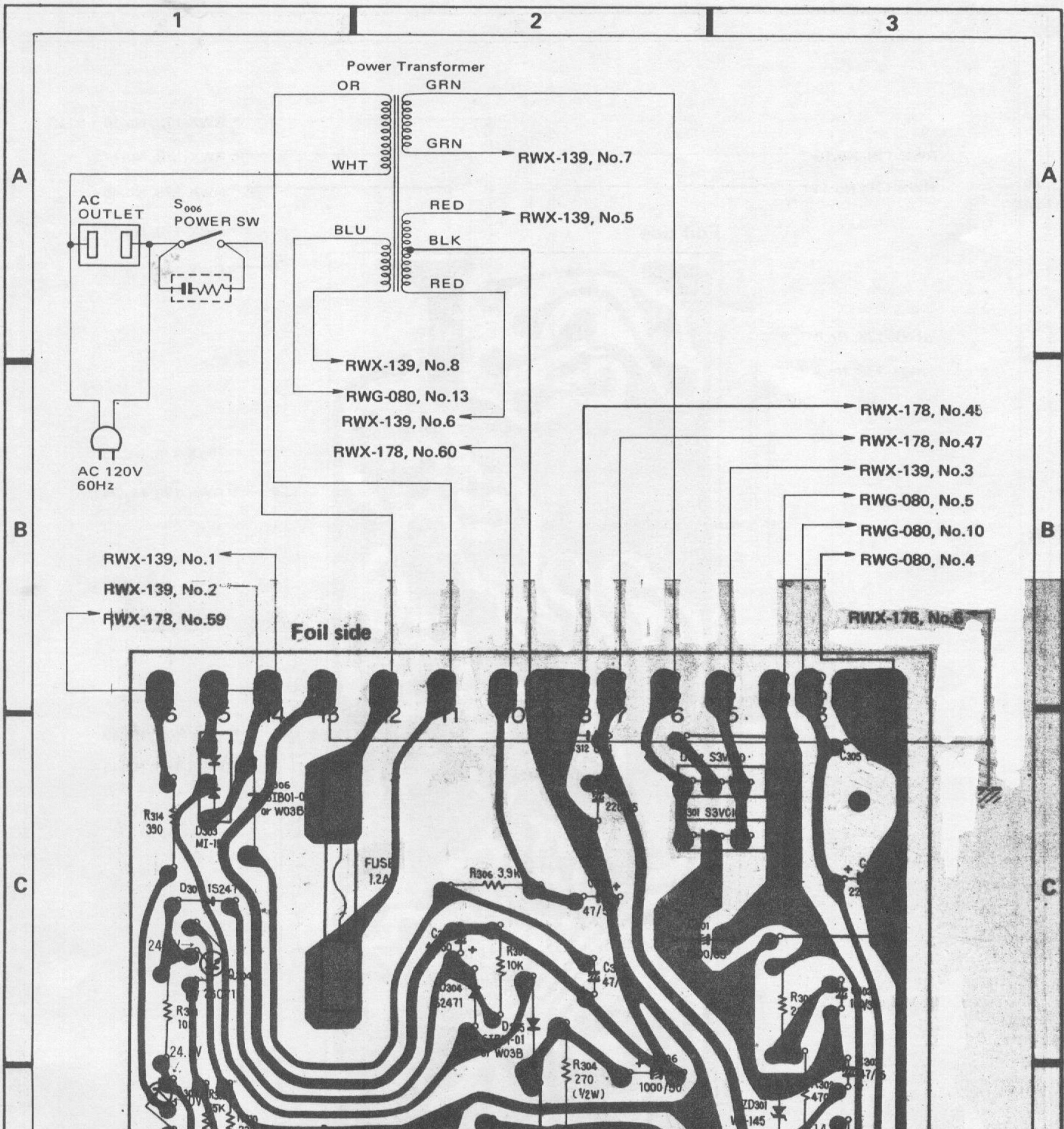
Symbol	Part No.	Description
Q401	2SC1312-G or H	Transistor
Q402	2SC1312-G or H	Transistor
Q403	2SC711-E or F	Transistor
Q404	2SC711-E or F	Transistor
Q405	2SC711-E or F	Transistor
Q406	2SC711-E or F	Transistor
D401	1S2473	Diode
D402	1S2473	Diode

List of Changed Parts for Factory Modification

Symbol	Part No.	Description

9.8 POWER SUPPLY ASSEMBLY (RWR-055)





Power Transformer
OR
GRN
GRN
WHT
RWX-139, No.7
AC
OUTLET
S006
POWER SW
RED
RWX-139, No.5
BLU
BLK
RED
RWX-139, No.8
RWG-080, No.13
RWX-139, No.6
RWX-178, No.60
AC 120V
60Hz
RWX-178, No.45
RWX-178, No.47
RWX-139, No.3
RWG-080, No.5
RWG-080, No.10
RWG-080, No.4
RWX-139, No.1
RWX-139, No.2
RWX-178, No.59
Foil side
RWX-176, No.6
FUSE
1.2A
R306 3.9K
R314
390
R312
47K
R313
100
C314
22/25
C315
100/35
R304
270
(1/2W)
C309
220/35
1000/50
ZD301
WZ-145
Q303
Q302
2SD526
Q301
2SC711
24.9V
24.3V
13.9V
13.3V

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	RD¼PSF 221J	Carbon film	220	
R302	RD¼PSF 471J	Carbon film	470	
R303	RD¼PSF 680J	Carbon film	68	
R304	RS½PSF 271J	Carbon film	270	½W
R305	RS½PSF 331J	Carbon film	330	½W
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 101J	Carbon film	100	
R314	RD¼PS 391J	Carbon film	390	

OTHERS

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

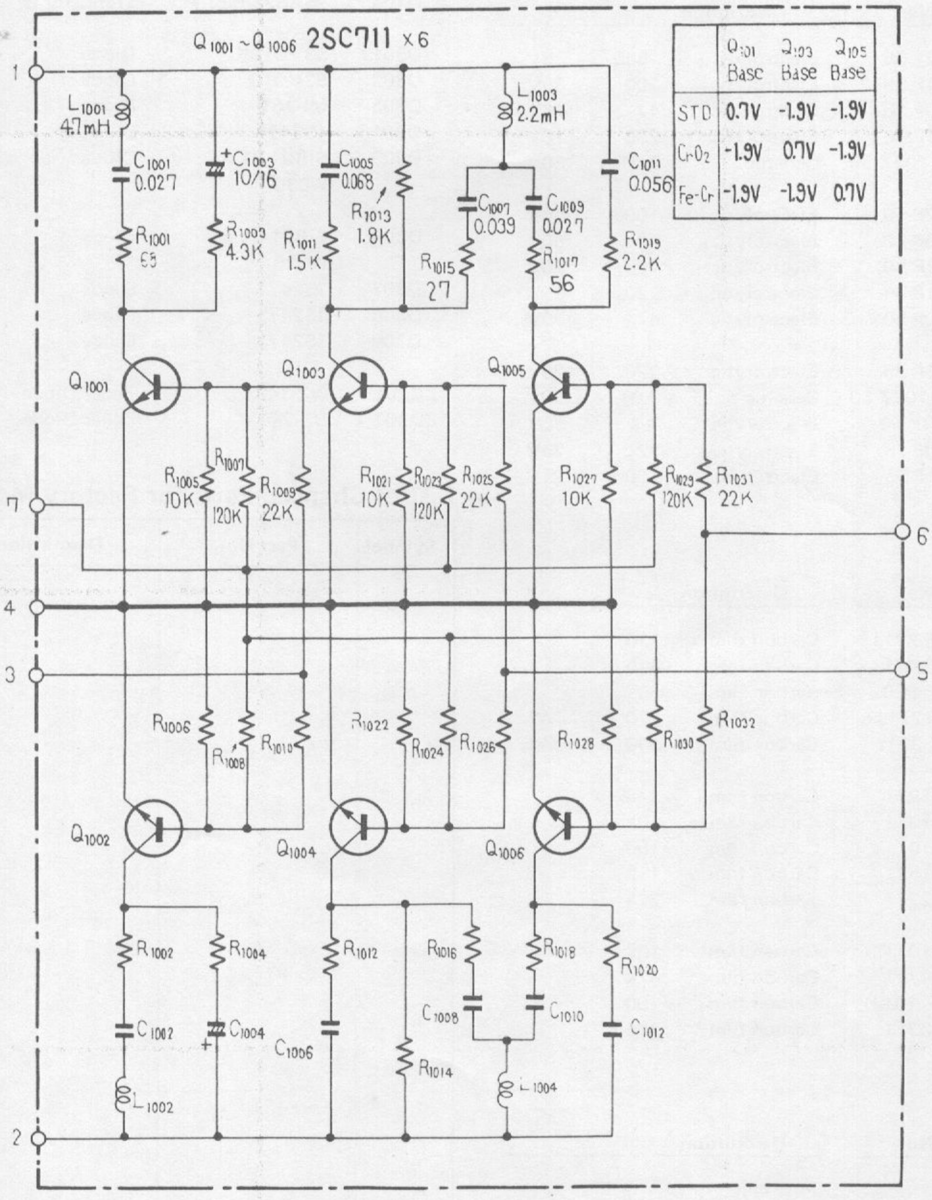
SEMICONDUCTORS

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	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

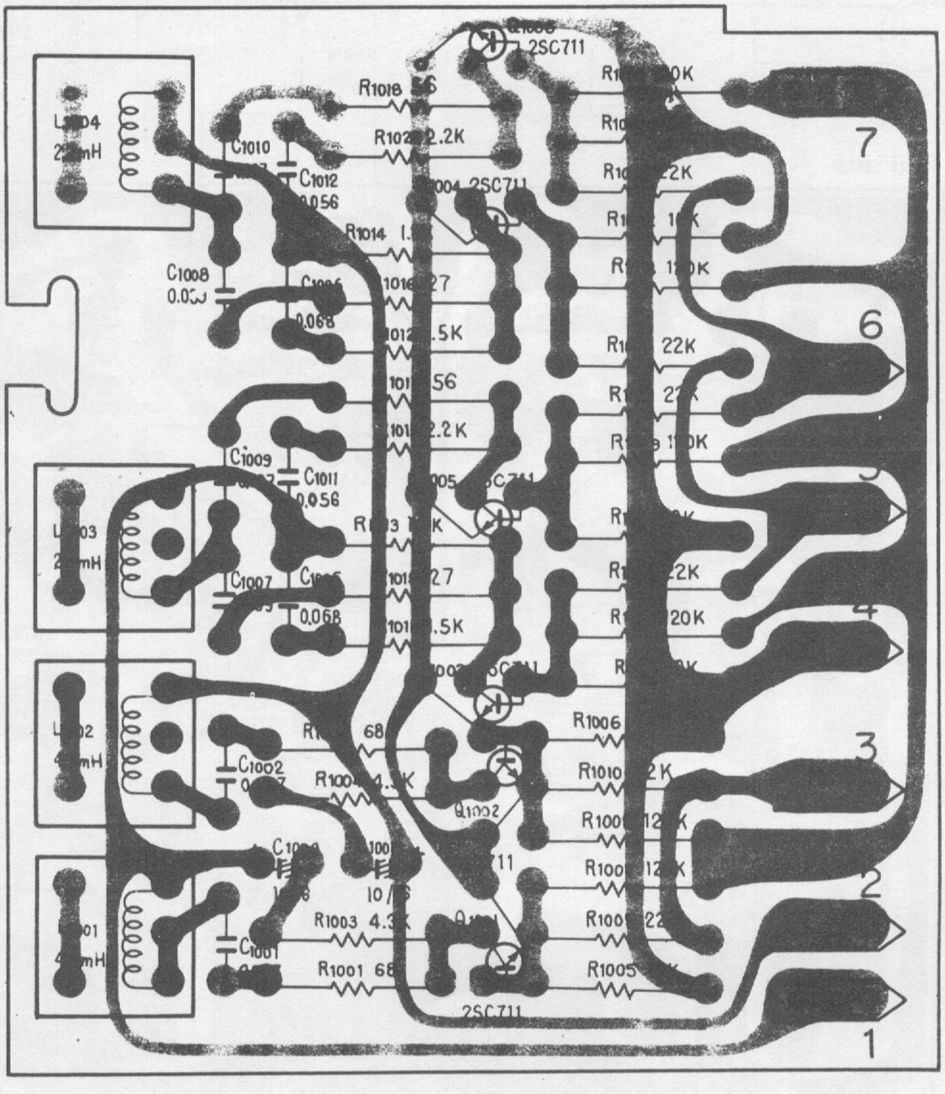
Symbol	Part No.	Description

9.9 RECORDING EQUALIZER ASSEMBLY (RWX-182)



	Q_{101} Base	Q_{103} Base	Q_{105} Base
STD	0.7V	-1.9V	-1.9V
CrO_2	-1.9V	0.7V	-1.9V
Fe-Cr	-1.9V	-1.9V	0.7V

Foil side



Q1006
2SC711
R1018 56
C1010
C1012
0.056
R1014
C1008
C1006
0.068
C1009
C1011
0.056
C1007
0.068
C1002
C1001
R1003 4.3K
R1001 68
Q1002
R1006
R1005
R1008 12K
2SC711
7
6
4
3
2
1

Parts List

COILS

Symbol	Part No.	Description
L1001	RTF-031	Peaking coil
L1002	RTF-031	Peaking coil
L1003	RTF-037	Peaking coil
L1004	RTF-037	Peaking coil

CAPACITORS

Symbol	Part No.	Description		
C1001	CQMA 273K 50	Mylar	0.027	50V
C1002	CQMA 273K 50	Mylar	0.027	50V
C1003	CEA 100P 16	Electrolytic	10	16V
C1004	CEA 100P 16	Electrolytic	10	16V
C1005	CQMA 683K 50	Mylar	0.068	60V
C1006	CQMA 683K 50	Mylar	0.068	50V
C1007	CQMA 393K 50	Mylar	0.039	50V
C1008	CQMA 393K 50	Mylar	0.039	50V
C1009	CQMA 273K 50	Mylar	0.027	50V
C1010	CQMA 273K 50	Mylar	0.027	50V
C1011	CQMA 563K 50	Mylar	0.056	50V
C1012	CQMA 563K 50	Mylar	0.056	50V

RESISTORS

Symbol	Part No.	Description	
R1001	RD¼PS 680J	Carbon film	68
R1002	RD¼PS 680J	Carbon film	68
R1003	RD¼PS 432J	Carbon film	4.3k
R1004	RD¼PS 432J	Carbon film	4.3k
R1005	RD¼PS 103J	Carbon film	10k
R1006	RD¼PS 103J	Carbon film	10k
R1007	RD¼PS 124J	Carbon film	120k
R1008	RD¼PS 124J	Carbon film	120k
R1009	RD¼PS 223J	Carbon film	22k
R1010	RD¼PS 223J	Carbon film	22k
R1011	RD¼PS 152J	Carbon film	1.5k
R1012	RD¼PS 152J	Carbon film	1.5k
R1013	RD¼PS 182J	Carbon film	1.8k
R1014	RD¼PS 182J	Carbon film	1.8k
R1015	RD¼PS 270J	Carbon film	27
R1016	RD¼PS 270J	Carbon film	27
R1017	RD¼PS 560J	Carbon film	56
R1018	RD¼PS 560J	Carbon film	56
R1019	RD¼PS 222J	Carbon film	2.2k
R1020	RD¼PS 222J	Carbon film	2.2k
R1021	RD¼PS 103J	Carbon film	10k
R1022	RD¼PS 103J	Carbon film	10k
R1023	RD¼PS 124J	Carbon film	120k
R1024	RD¼PS 124J	Carbon film	120k
R1025	RD¼PS 223J	Carbon film	22k
R1026	RD¼PS 223J	Carbon film	22k
R1027	RD¼PS 103J	Carbon film	10k
R1028	RD¼PS 103J	Carbon film	10k
R1029	RD¼PS 124J	Carbon film	120k
R1030	RD¼PS 124J	Carbon film	120k
R1031	RD¼PS 223J	Carbon film	22k
R1032	RD¼PS 223J	Carbon film	22k

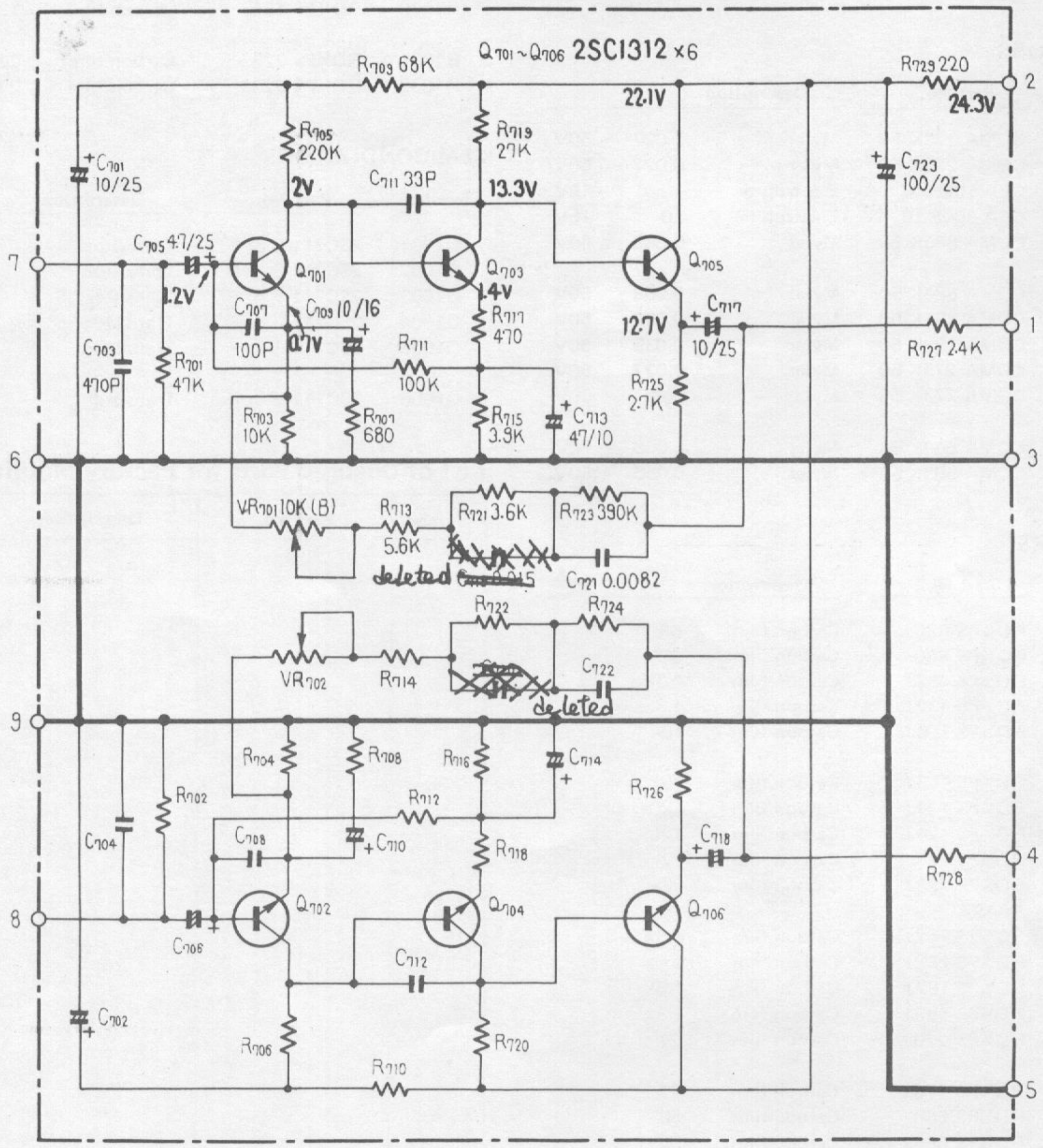
SEMICONDUCTORS

Symbol	Part No.	Description
Q1001	2SC711-E or F	Transistor
Q1002	2SC711-E or F	Transistor
Q1003	2SC711-E or F	Transistor
Q1004	2SC711-E or F	Transistor
Q1005	2SC711-E or F	Transistor
Q1006	2SC711-E or F	Transistor

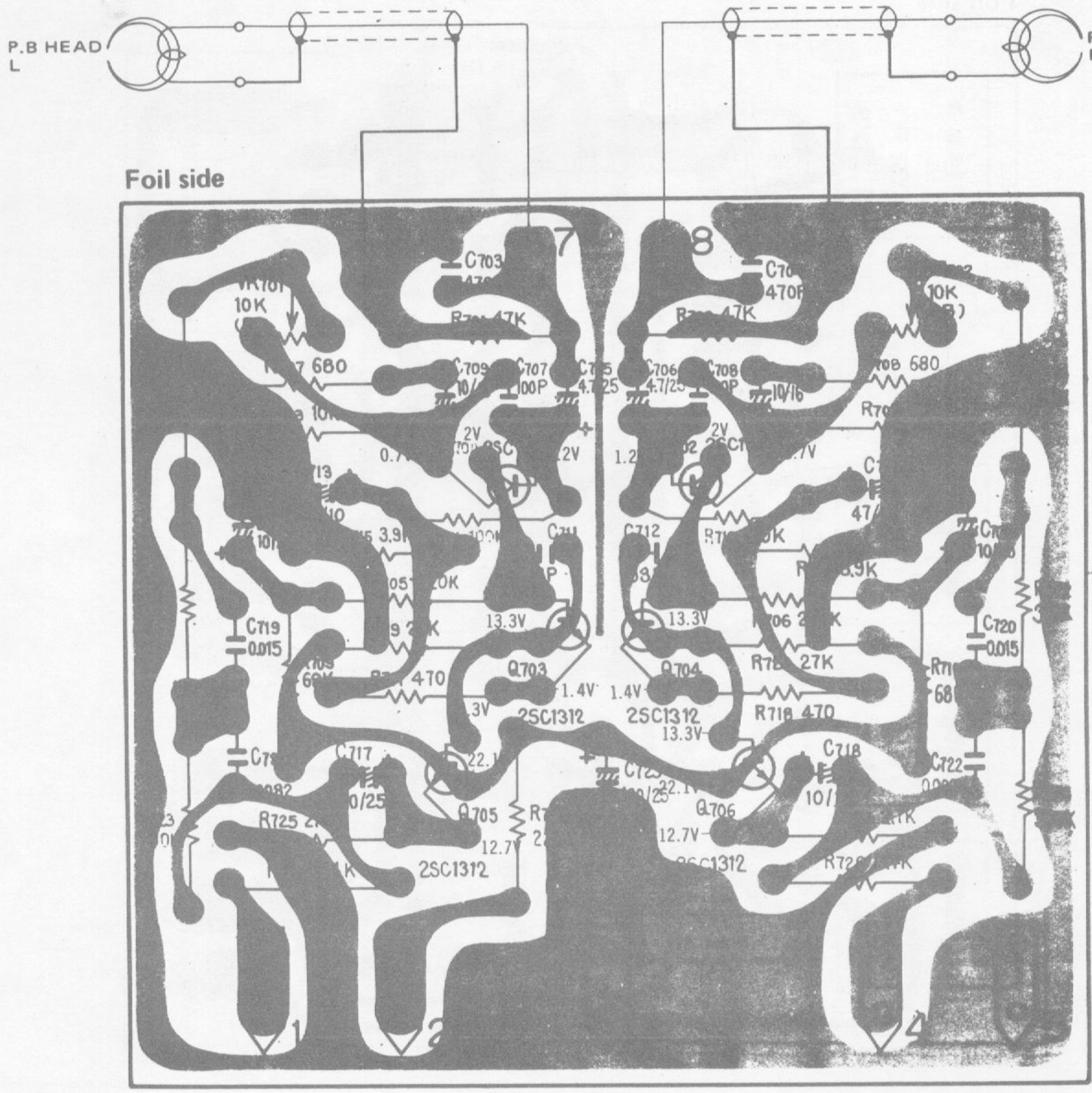
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

9.10 PLAYBACK EQUALIZER ASSEMBLY (RWF-079)



Foil side


P.B HEAD L
P.B HEAD R
VR701 10K
R708 680
C708 100P
C706 4.7/25
C719 0.015
C720 0.015
C718
C717
R725
R718 470
R706
Q703
Q704
Q705
Q706
2SC1312
13.3V
1.4V
12.7V
1
2
4
7
8

SI-T7039

Parts List

CAPACITORS

Symbol	Part No.	Description		
C701	CEA 100P 25	Electrolytic	10	25V
C702	CEA 100P 25	Electrolytic	10	25V
C703	RCE-014	Polystyren	470p	50V
C704	RCE-014	Polystyren	470p	50V
C705	RCH-017	Electrolytic	4.7	25V
C706	RCH-017	Electrolytic	4.7	25V
C707	CCDSL 101K 50	Ceramic	100p	50V
C708	CCDSL 101K 50	Ceramic	100p	50V
C709	CEA 100P 16	Electrolytic	10	16V
C710	CEA 100P 16	Electrolytic	10	16V
C711	CCDSL 330K 50	Ceramic	33p	50V
C712	CCDSL 330K 50	Ceramic	33p	50V
C713	CEA 470P 10	Electrolytic	47	10V
C714	CEA 470P 10	Electrolytic	47	10V
C717	CEA 100P 25	Electrolytic	10	25V
C718	CEA 100P 25	Electrolytic	10	25V
~~C719~~	~~CQMA 153K 50~~	~~Mylar~~	~~0.015~~	~~50V~~ delete
~~C720~~	~~CQMA 153K 50~~	~~Mylar~~	~~0.015~~	~~50V~~
C721	CQMA 822K 50	Mylar	8200p	50V
C722	CQMA 822K 50	Mylar	8200p	50V
C723	CEA 101P 25	Electrolytic	100	25V

RESISTORS

Symbol	Part No.	Description	
VR701	RCP-032	Semi-fixed	10k-B
VR702	RCP-032	Semi-fixed	10k-B
R701	RD¼PS 473J	Carbon film	47k
R702	RD¼PS 473J	Carbon film	47k
R703	RD¼PS 103J	Carbon film	10k
R704	RD¼PS 103J	Carbon film	10k
R705	RD¼PS 224J	Carbon film	220k
R706	RD¼PS 224J	Carbon film	220k
R707	RD¼PS 681J	Carbon film	680
R708	RD¼PS 681J	Carbon film	680
R709	RD¼PS 683J	Carbon film	68k
R710	RD¼PS 683J	Carbon film	68k
R711	RD¼PS 104J	Carbon film	100k
R712	RD¼PS 104J	Carbon film	100k
R713	RD¼PS 562J	Carbon film	5.6k
R714	RD¼PS 562J	Carbon film	5.6k
R715	RD¼PS 392J	Carbon film	3.9k
R716	RD¼PS 392J	Carbon film	3.9k
R717	RD¼PS 471J	Carbon film	470
R718	RD¼PS 471J	Carbon film	470
R719	RD¼PS 273J	Carbon film	27k
R720	RD¼PS 273J	Carbon film	27k
R721	RD¼PS 362J	Carbon film	3.6k
R722	RD¼PS 362J	Carbon film	3.6k
R723	RD¼PS 394J	Carbon film	390k
R724	RD¼PS 394J	Carbon film	390k
R725	RD¼PS 272J	Carbon film	2.7k
R726	RD¼PS 272J	Carbon film	2.7k
R727	RD¼PS 242J	Carbon film	2.4k
R728	RD¼PS 242J	Carbon film	2.4k
R729	RD¼PSF 221J	Carbon film	220

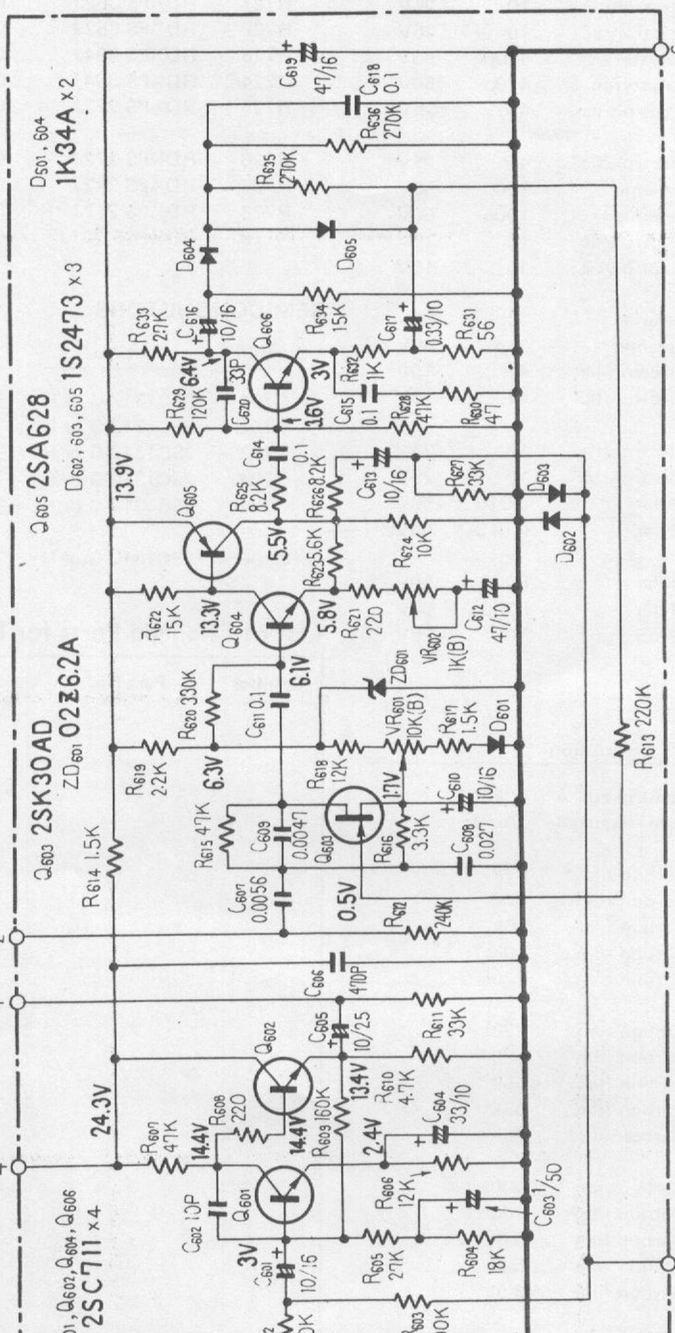
SEMICONDUCTORS

Symbol	Part No.	Description
Q701	2SC1312-G or H	Transistor
Q702	2SC1312-G or H	Transistor
Q703	2SC1312-G or H	Transistor
Q704	2SC1312-G or H	Transistor
Q705	2SC1312-G or H	Transistor
Q706	2SC1312-G or H	Transistor

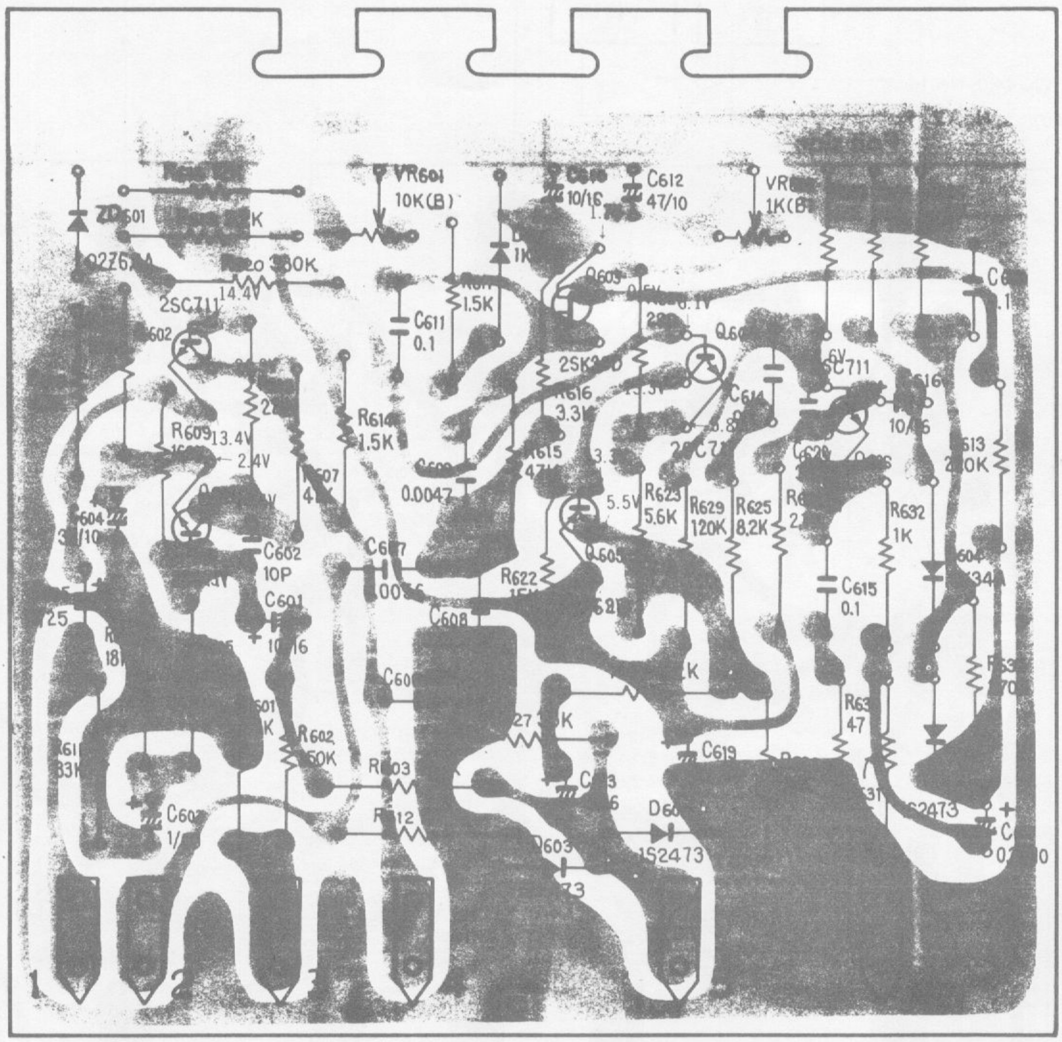
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

9.11 DOLBY ASSEMBLY (RWX-183)



Foil side



VR601
10K(B)
C612
47/10
10/16
VR602
1K(B)
ZD601
2SC711
R620 330K
14.4V
C611
0.1
R611
1.5K
Q603
2SK30D
R616
3.3K
R615
47K
R614
1.5K
R609
13.4V
2.4V
C604
33/10
C602
10P
C601
10/16
C609
0.0047
C607
R622
C608
C606
5.5V
R623
5.6K
R629
120K
R625
8.2K
R632
1K
C615
0.1
R613
220K
C610
10/16
R618
18K
R619
33K
C603
R602
250K
R603
R612
R627
C619
C613
D603
D602
1S2473
R633
47

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

RESISTORS

Symbol	Part No.	Description	
VR601	RCP-032	Semi-fixed	10k-B
VR602	RCP-033	Semi-fixed	10k-B
R601	RD¼PS 333J	Carbon film	33k
R602	RD¼PS 154J	Carbon film	150k
R603	RD¼PS 104J	Carbon film	100k
R604	RD¼PS 183J	Carbon film	18k
R605	RD¼PS 273J	Carbon film	27k
R606	RD¼PS 123J	Carbon film	12k
R607	RD¼PS 473J	Carbon film	47k
R608	RD¼PS 221J	Carbon film	220
R609	RD¼PS 164J	Carbon film	160k
R610	RD¼PS 472J	Carbon film	4.7k
R611	RD¼PS 333J	Carbon film	33k
R612	RD¼PS 244J	Carbon film	240k
R613	RD¼PS 224J	Carbon film	220k
R614	RD¼PS 152J	Carbon film	1.5k
R615	RD¼PS 473J	Carbon film	47k
R616	RD¼PS 332J	Carbon film	3.3k
R617	RD¼PS 152J	Carbon film	1.5k
R618	RD¼PS 123J	Carbon film	12k
R619	RD¼PS 222J	Carbon film	2.2k
R620	RD¼PS 334J	Carbon film	330k
R621	RD¼PS 221J	Carbon film	220
R622	RD¼PS 153J	Carbon film	15k
R623	RD¼PS 562J	Carbon film	5.6k

Symbol	Part No.	Description	
R624	RD¼PS 103J	Carbon film	10k
R625	RD¼PS 822J	Carbon film	8.2k
R626	RD¼PS 822J	Carbon film	8.2k
R627	RD¼PS 333J	Carbon film	33k
R628	RD¼PS 473J	Carbon film	47k
R629	RD¼PS 124J	Carbon film	120k
R630	RD¼PS 470J	Carbon film	47
R631	RD¼PS 560J	Carbon film	56
R632	RD¼PS 102J	Carbon film	1k
R633	RD¼PS 272J	Carbon film	2.7k
R634	RD¼PS 153J	Carbon film	15k
R635	RD¼PS 274J	Carbon film	270k
R636	RD¼PS 274J	Carbon film	270k

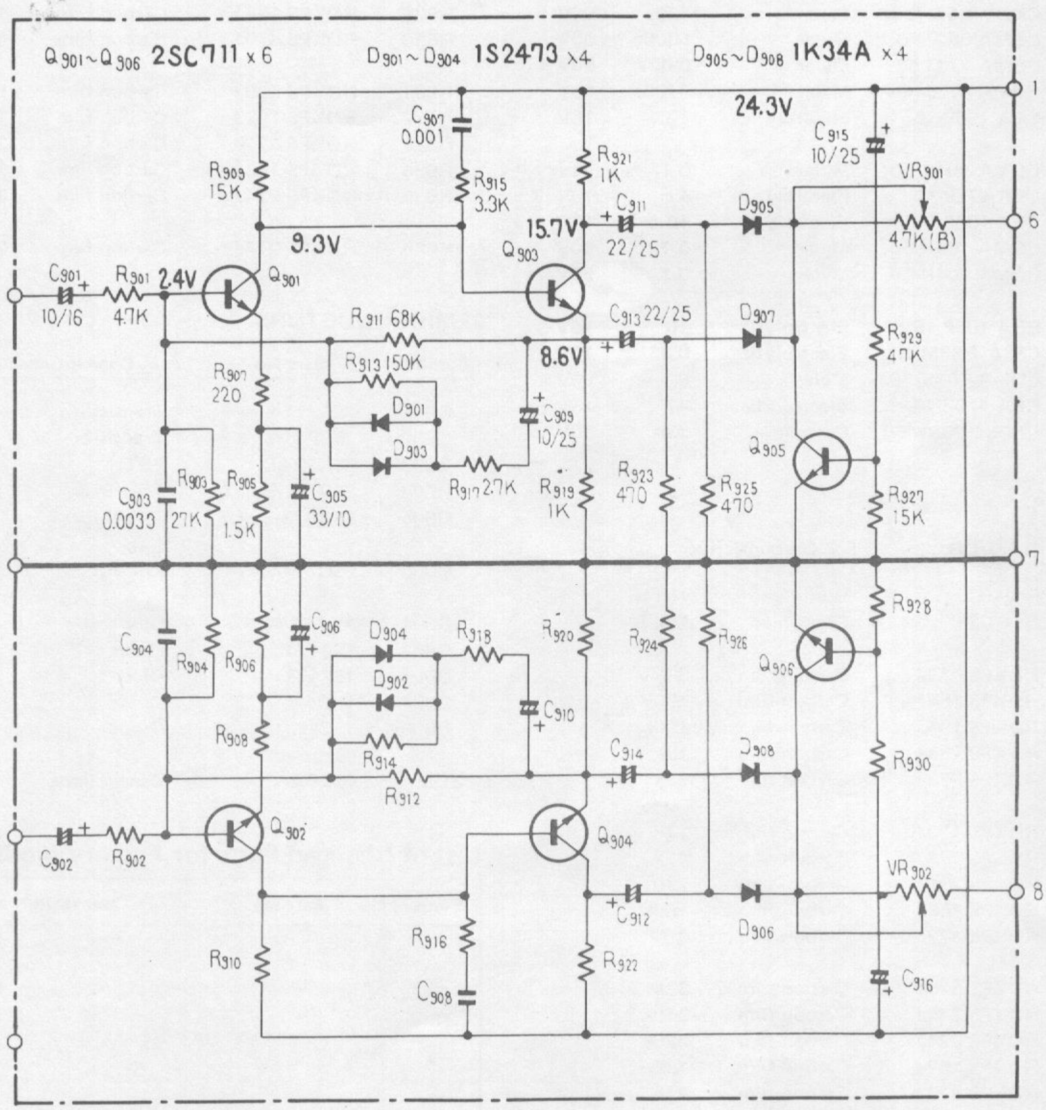
SEMICONDUCTORS

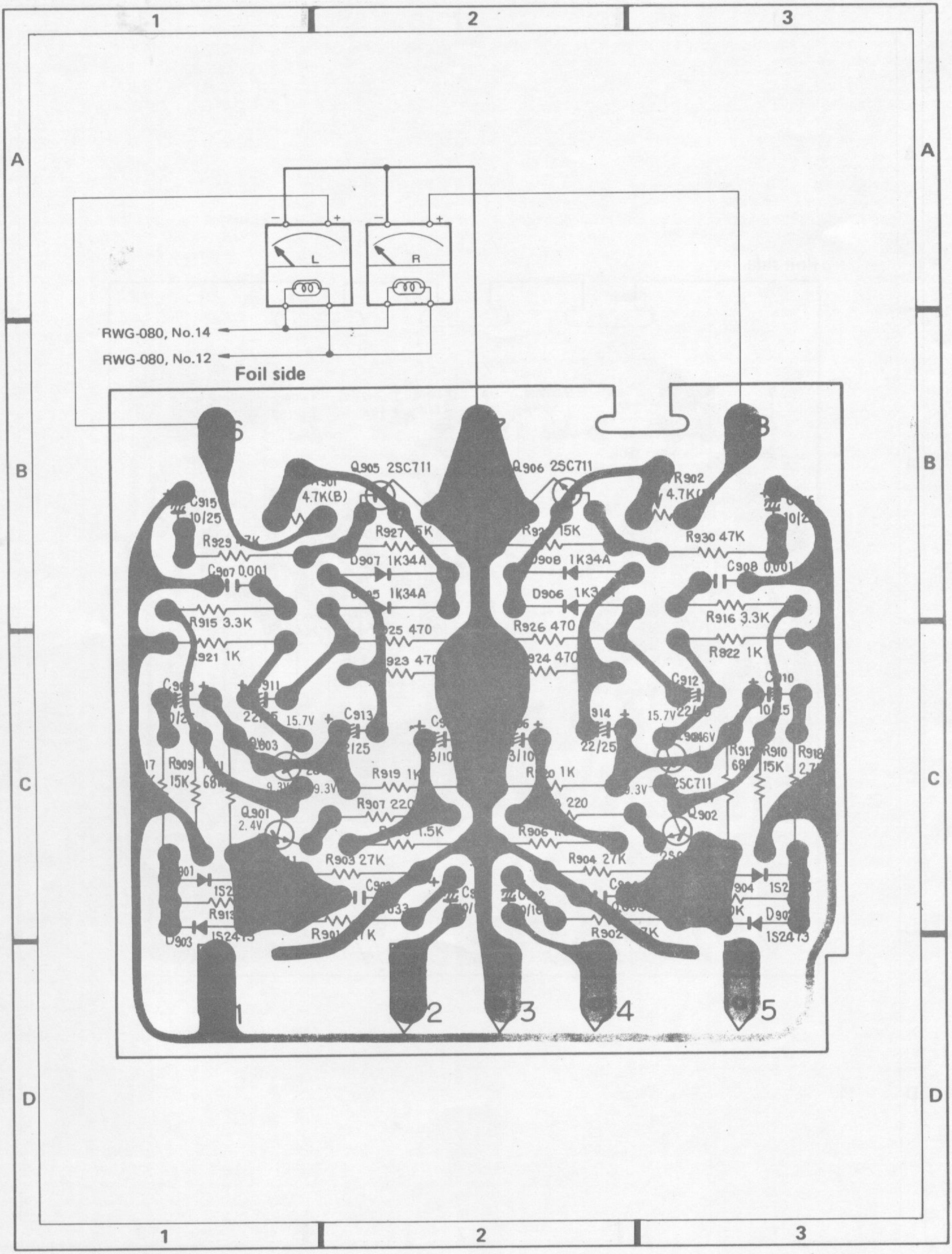
Symbol	Part No.	Description
Q601	2SC711-E or F	Transistor
Q602	2SC711-E or F	Transistor
Q603	2SK30AD	FET
Q604	2SC711-E or F	Transistor
Q605	2SA628-E or F	Transistor
Q606	2SC711-E or F	Transistor
D601	1K34A	Diode
D602	1S2473	Diode
D603	1S2473	Diode
D604	1K34A	Diode
D605	1S2473	Diode
ZD601	02Z6.2A	Zener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

List of Changed Parts for Factory Modification

Symbol	Part No.	Description

9.12 METER ASSEMBLY (RWX-180)




RWG-080, No.14
RWG-080, No.12
Foil side
Q905 2SC711
Q906 2SC711
R901 4.7K(B)
R902 4.7K
C915 10/25
R929 47K
R927 15K
R930 47K
D907 1K34A
D908 1K34A
C907 0.001
C908 0.001
D905 1K34A
D906 1K34A
R915 3.3K
R916 3.3K
R925 470
R926 470
R921 1K
R922 1K
R923 470
R924 470
C911
C912
C913 22/25
C910
C914 22/25
15.7V
R909 15K
R910 15K
R919 1K
R920 1K
Q901 2.4V
Q902
9.3V
R907 220
R903 27K
R904 27K
R913
D903 1S2473
D902 1S2473
R901
R902
1
2
3
4
5
6
7
8

Parts List

CAPACITORS

Symbol	Part No.	Description		
C901	CEA 100P 16	Electrolytic	10	16V
C902	CEA 100P 16	Electrolytic	10	16V
C903	CKDYB 332K 50	Ceramic	3300p	50V
C904	CKDYB 332K 50	Ceramic	3300p	50V
C905	CEA 330P 10	Electrolytic	33	10V
C906	CEA 330P 10	Electrolytic	33	10V
C907	CKDYB 102K 50	Ceramic	1000p	50V
C908	CKDYB 102K 50	Ceramic	1000p	50V
C909	CEA 100P 25	Electrolytic	10	25V
C910	CEA 100P 25	Electrolytic	10	25V
C911	CEA 220P 25	Electrolytic	22	25V
C912	CEA 220P 25	Electrolytic	22	25V
C913	CEA 220P 25	Electrolytic	22	25V
C914	CEA 220P 25	Electrolytic	22	25V
C915	CEA 100P 25	Electrolytic	10	25V
C916	CEA 100P 25	Electrolytic	10	25V

RESISTORS

Symbol	Part No.	Description	
VR901	RCP-038	Semi-fixed	4.7k-B
VR902	RCP-038	Semi-fixed	4.7k-B
R901	RD¼PS 472J	Carbon film	4.7k
R902	RD¼PS 472J	Carbon film	4.7k
R903	RD¼PS 273J	Carbon film	27k
R904	RD¼PS 273J	Carbon film	27k
R905	RD¼PS 152J	Carbon film	1.5k
R906	RD¼PS 152J	Carbon film	1.5k
R907	RD¼PS 221J	Carbon film	220
R908	RD¼PS 221J	Carbon film	220
R909	RD¼PS 153J	Carbon film	15k
R910	RD¼PS 153J	Carbon film	15k
R911	RD¼PS 683J	Carbon film	68k
R912	RD¼PS 683J	Carbon film	68k
R913	RD¼PS 154J	Carbon film	150k
R914	RD¼PS 154J	Carbon film	150k
R915	RD¼PS 332J	Carbon film	3.3k
R916	RD¼PS 332J	Carbon film	3.3k
R917	RD¼PS 272J	Carbon film	2.7k
R918	RD¼PS 272J	Carbon film	2.7k
R919	RD¼PS 102J	Carbon film	1k
R920	RD¼PS 102J	Carbon film	1k
R921	RD¼PS 102J	Carbon film	1k
R922	RD¼PS 102J	Carbon film	1k
R923	RD¼PS 471J	Carbon film	470
R924	RD¼PS 471J	Carbon film	470
R925	RD¼PS 471J	Carbon film	470
R926	RD¼PS 471J	Carbon film	470
R927	RD¼PS 153J	Carbon film	15k
R928	RD¼PS 153J	Carbon film	15k
R929	RD¼PS 473J	Carbon film	47k
R930	RD¼PS 473J	Carbon film	47k

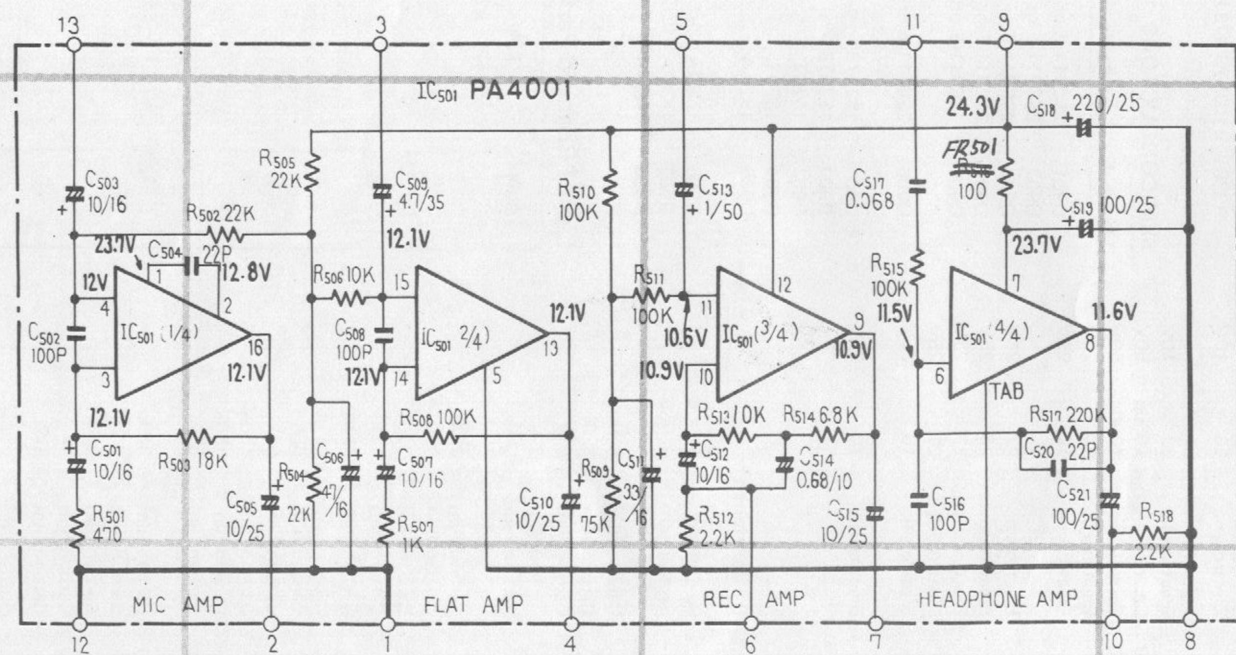
SEMICONDUCTORS

Symbol	Part No.	Description
Q901	2SC711-E or F	Transistor
Q902	2SC711-E or F	Transistor
Q903	2SC711-E or F	Transistor
Q904	2SC711-E or F	Transistor
Q905	2SC711-E or F	Transistor
Q906	2SC711-E or F	Transistor
D901	1S2473	Diode
D902	1S2473	Diode
D903	1S2473	Diode
D904	1S2473	Diode
D905	1K34A	Diode
D906	1K34A	Diode
D907	1K34A	Diode
D908	1K34A	Diode

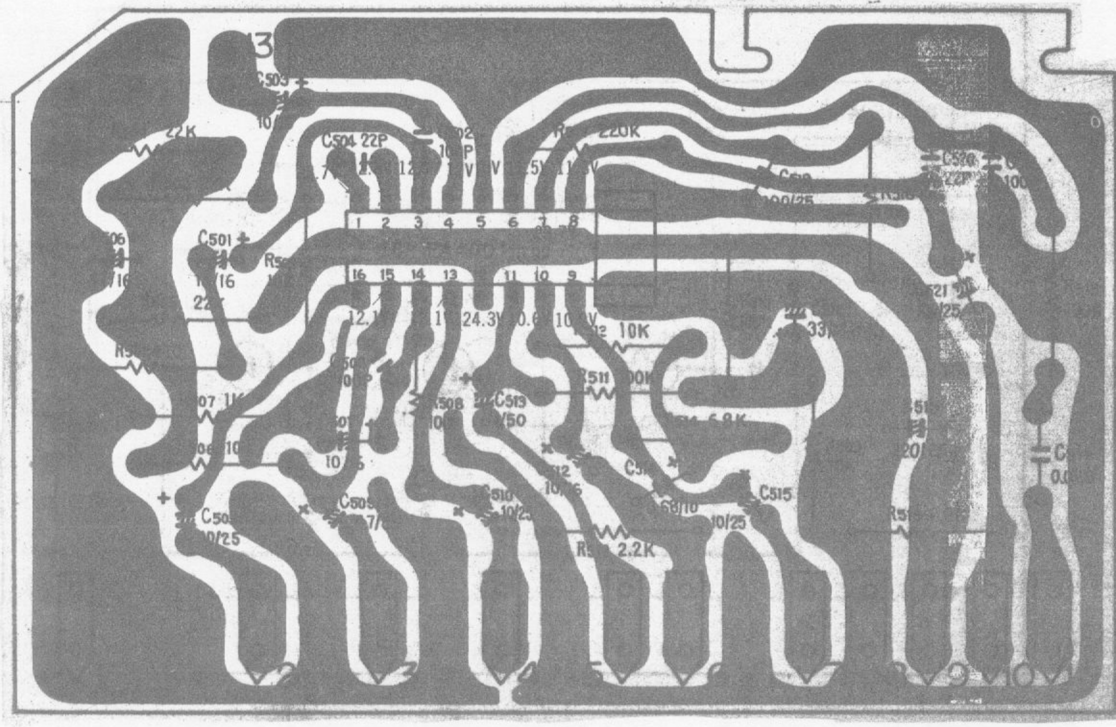
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

9.13 INTEGRATED ASSEMBLY (RWX-175)



Foil side



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 4R7P 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

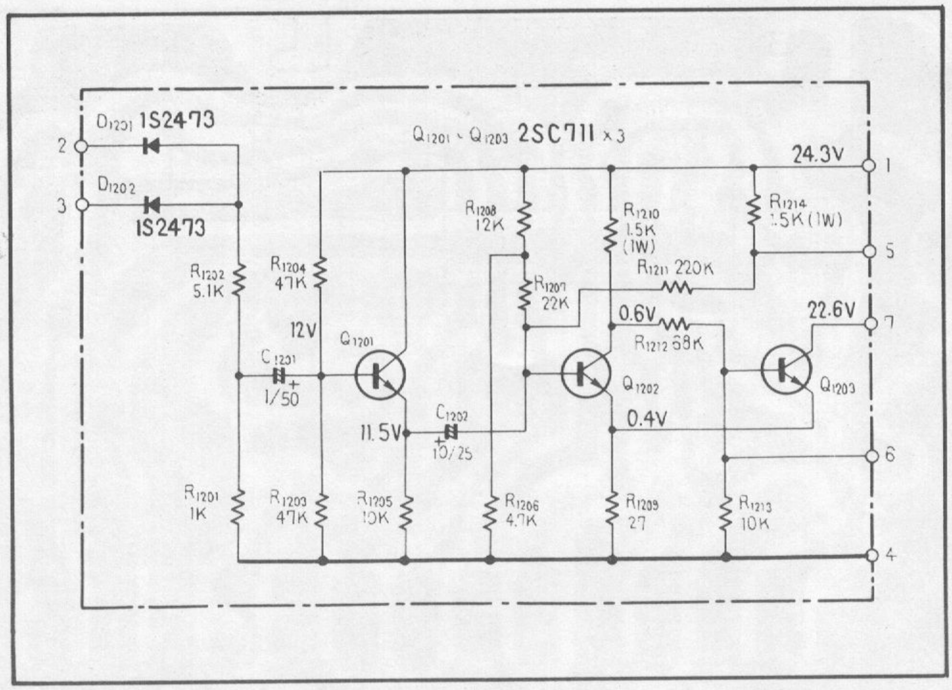
RESISTORS

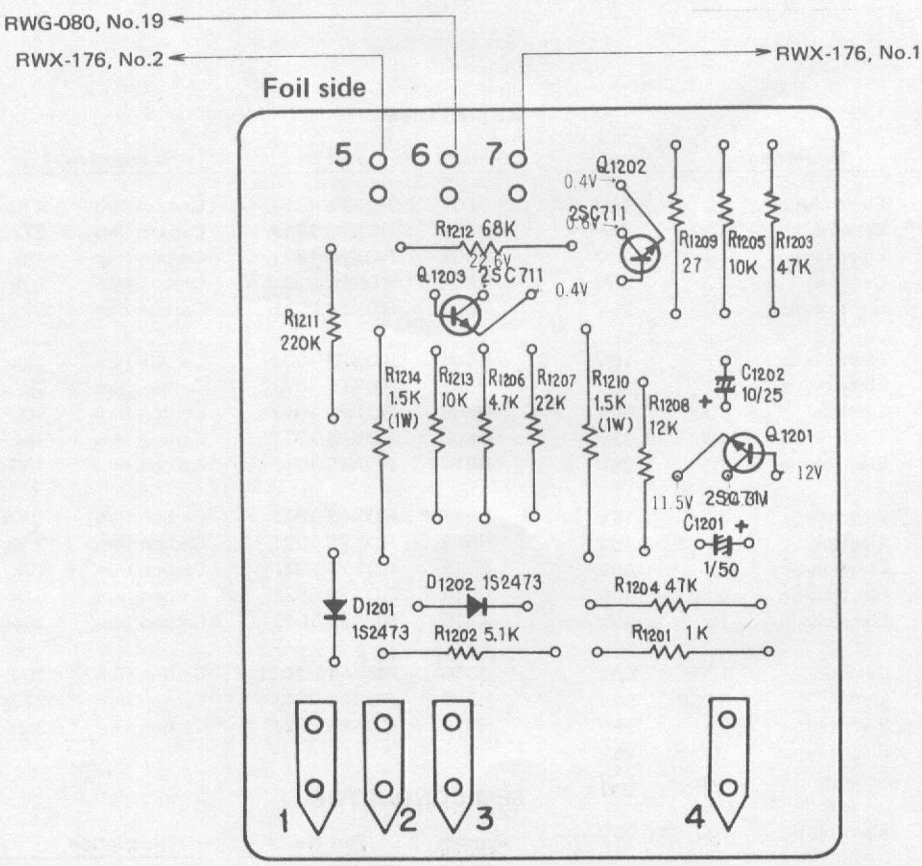
Symbol	Part No.	Description	
R501	RD¼PS 471J	Carbon film	470
R502	RD¼PS 223J	Carbon film	22k
R503	RD¼PS 183J	Carbon film	18k
R504	RD¼PS 223J	Carbon film	22k
R505	RD¼PS 223J	Carbon film	22k
R506	RD¼PS 103J	Carbon film	10k
R507	RD¼PS 102J	Carbon film	1k
R508	RD¼PS 104J	Carbon film	100k
R509	RD¼PS 753J	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
FR501 ~~R516~~	REK-062 ~~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

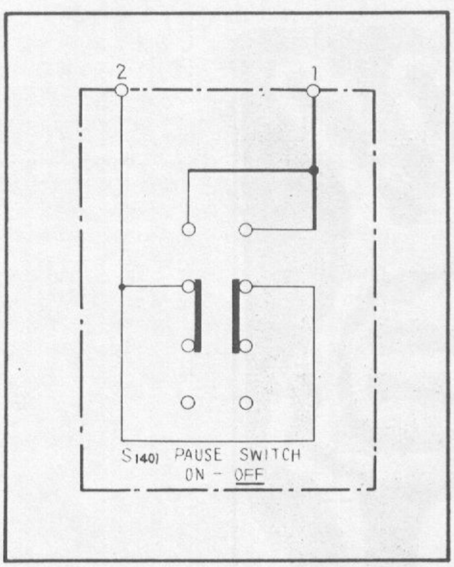
RESISTORS

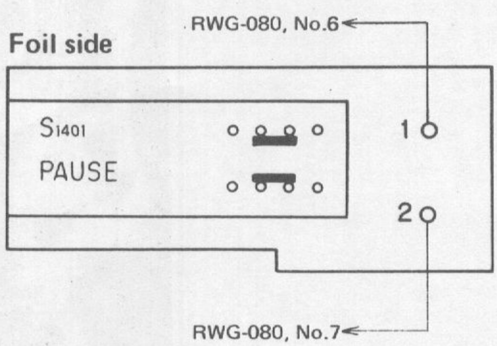
Symbol	Part No.	Description		
R1201	RD¼PS 102J	Carbon film	1k	
R1202	RD¼PS 512J	Carbon film	5.1k	
R1203	RD¼PS 473J	Carbon film	47k	
R1204	RD¼PS 473J	Carbon film	47k	
R1205	RD¼PS 103J	Carbon film	10k	
R1206	RD¼PS 472J	Carbon film	4.7k	
R1207	RD¼PS 223J	Carbon film	22k	
R1208	RD¼PS 123J	Carbon film	12k	
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)



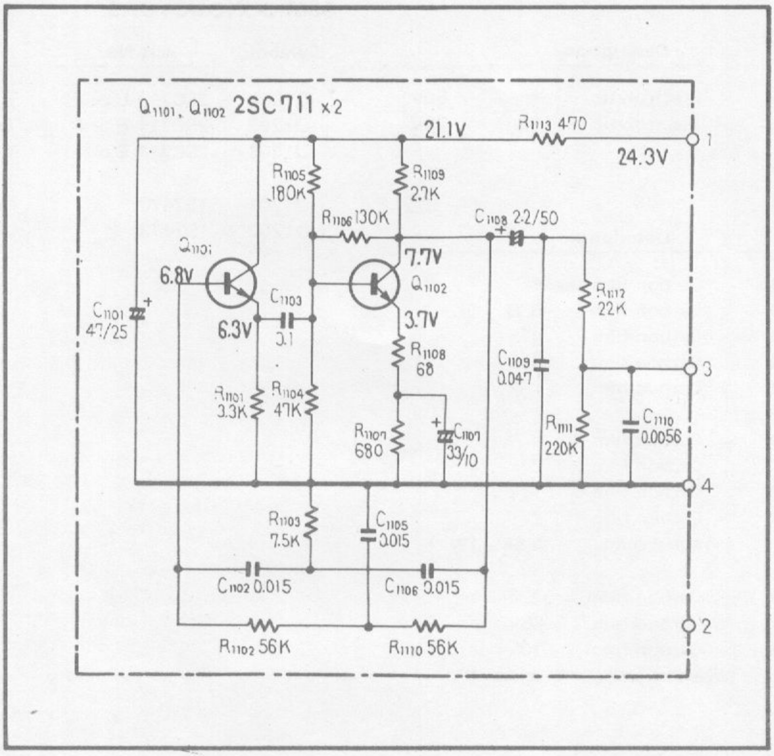


Part List

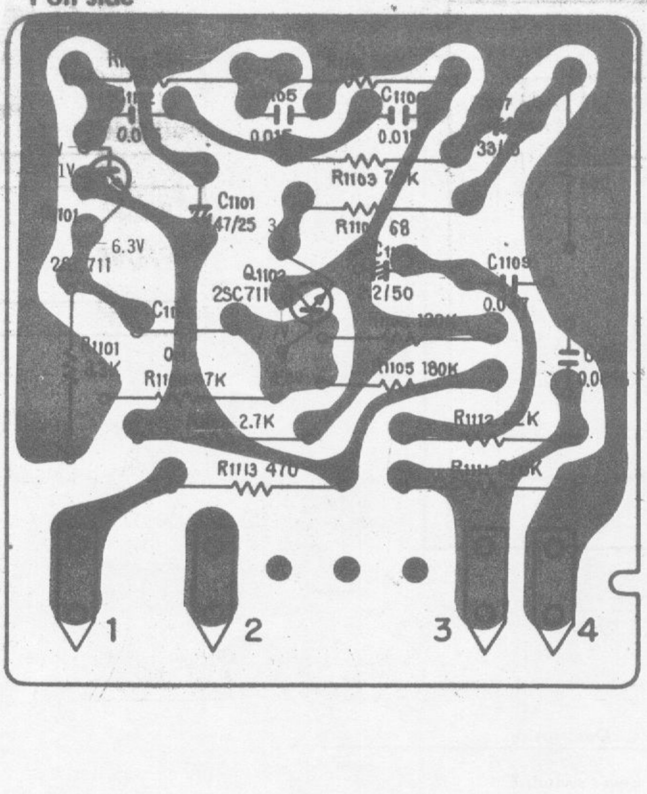
SWITCH

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	RD¼PS 332J	Carbon film	3.3k
R1102	RD¼PS 563J	Carbon film	56k
R1103	RD¼PS 752J	Carbon film	7.5k
R1104	RD¼PS 473J	Carbon film	47k
R1105	RD¼PS 184J	Carbon film	180k
R1106	RD¼PS 134J	Carbon film	130k
R1107	RD¼PS 681J	Carbon film	680
R1108	RD¼PS 680J	Carbon film	68
R1109	RD¼PS 272J	Carbon film	2.7k
R1110	RD¼PS 563J	Carbon film	56k
R1111	RD¼PS 224J	Carbon film	220k
R1112	RD¼PS 223J	Carbon film	22k
R1113	RD¼PSF 471J	Carbon film	470

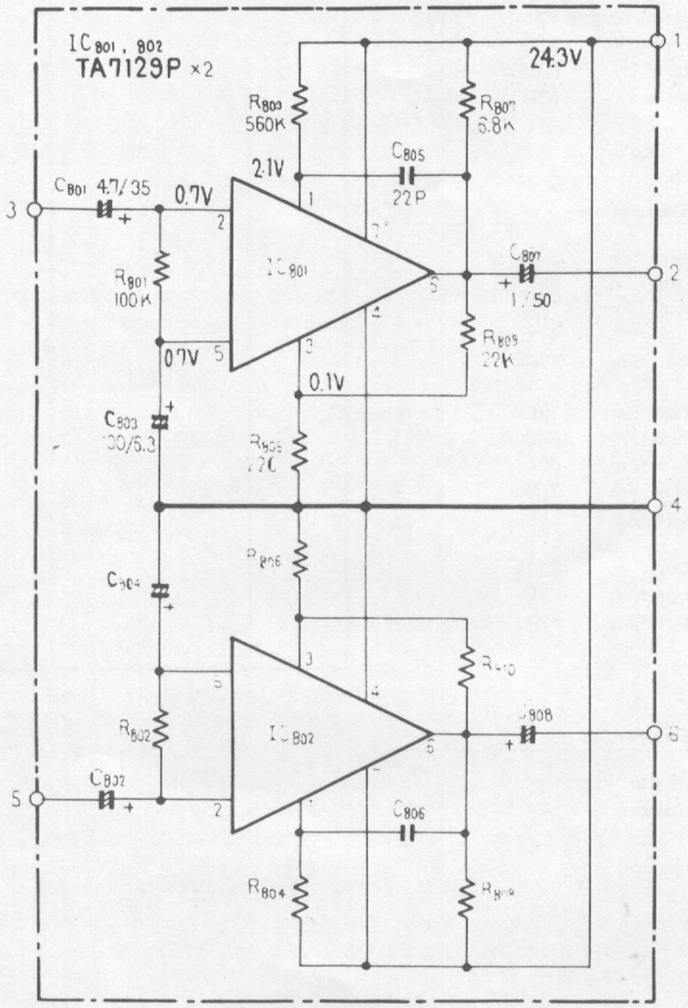
SEMICONDUCTORS

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

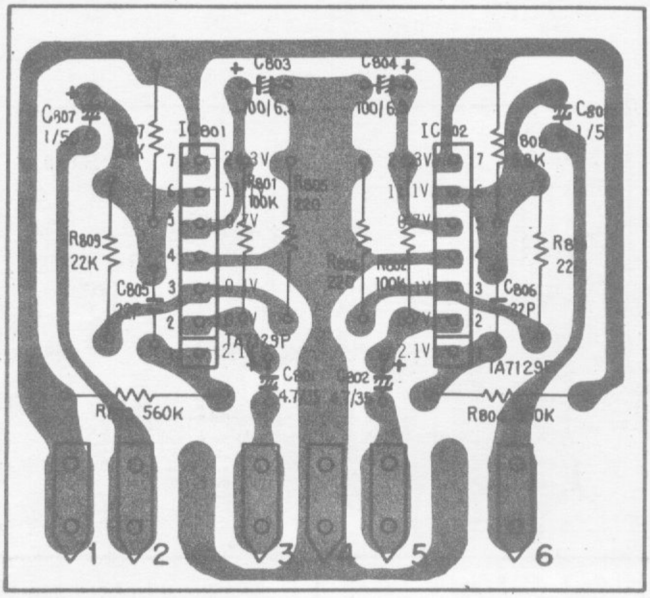
List of Changed Parts for Factory Modification

Symbol	Part No.	Description

9.17 FLAT AMPLIFIER ASSEMBLY (RWX-177)



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	RD¼PS 104J	Carbon film	100k
R802	RD¼PS 104J	Carbon film	100k
R803	RD¼PS 564J	Carbon film	560k
R804	RD¼PS 564J	Carbon film	560k
R805	RD¼PS 221J	Carbon film	220
R806	RD¼PS 221J	Carbon film	220
R807	RD¼PS 682J	Carbon film	6.8k
R808	RD¼PS 682J	Carbon film	6.8k
R809	RD¼PS 223J	Carbon film	22k
R810	RD¼PS 223J	Carbon film	22k

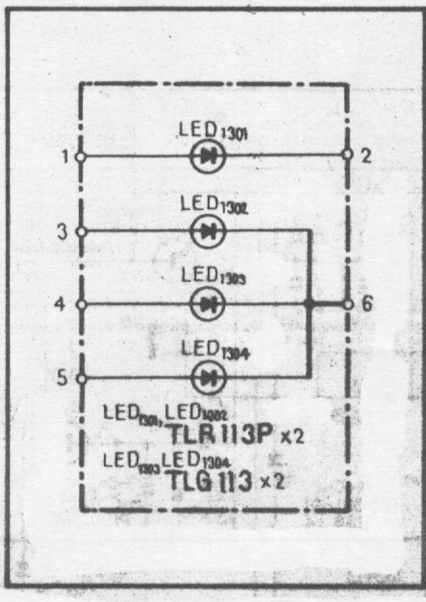
SEMICONDUCTORS

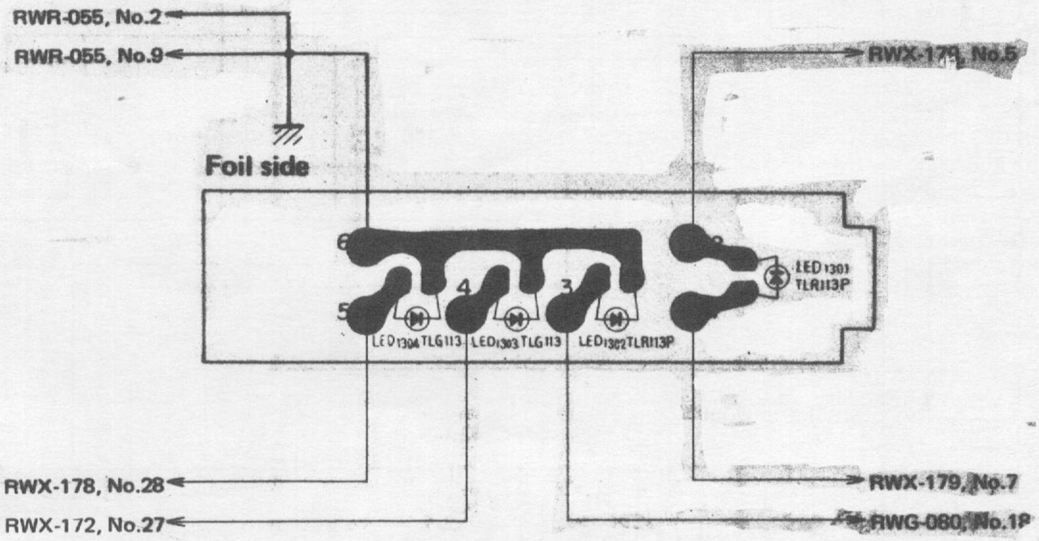
Symbol	Part No.	Description
IC801	TA 7129P	IC
IC802	TA 7129P	IC

List of Changed Parts for Factory Modification

Symbol	Part No.	Description

9.18 INDICATOR ASSEMBLY (RWX-176)





Parts List

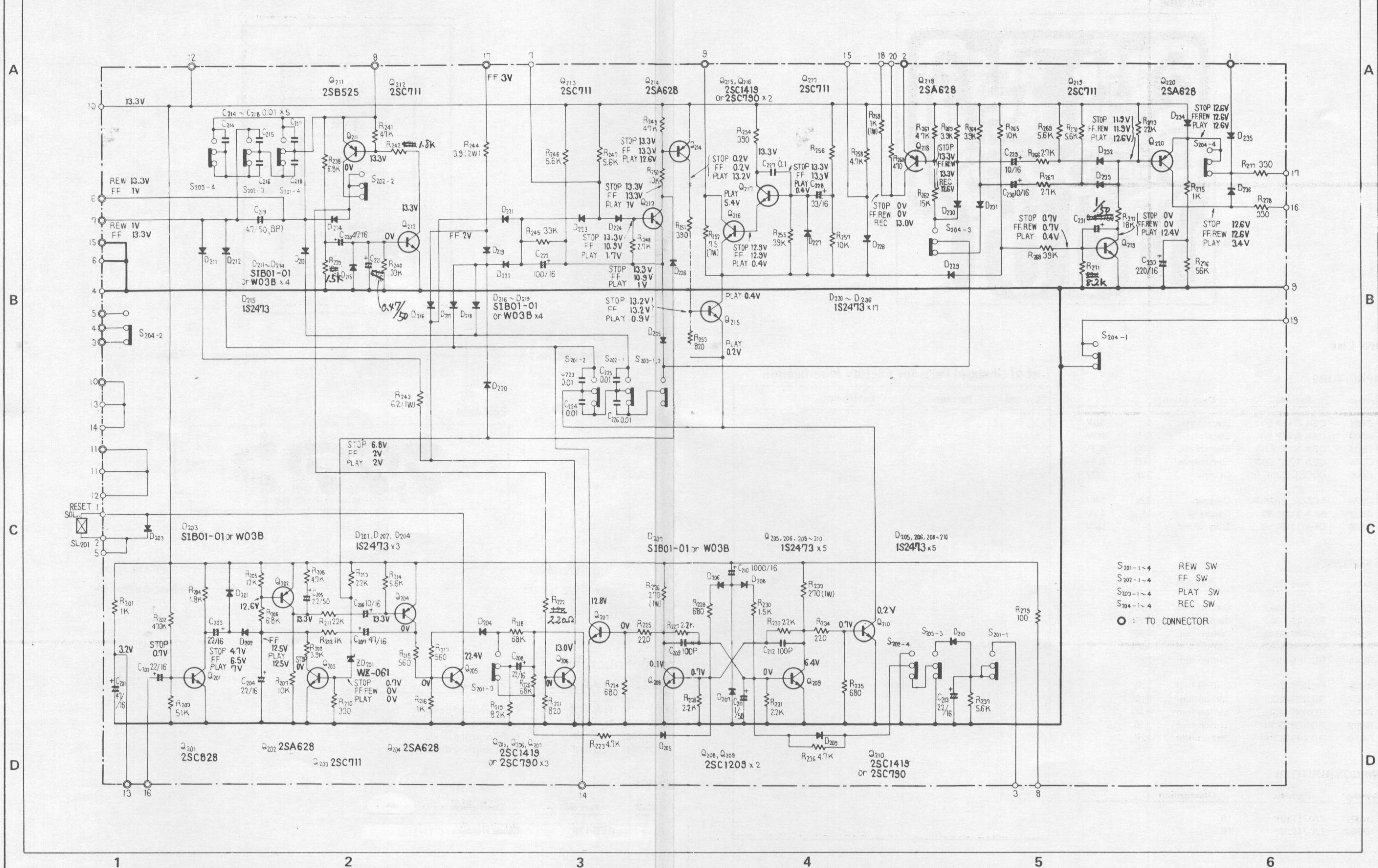
SEMICONDUCTORS

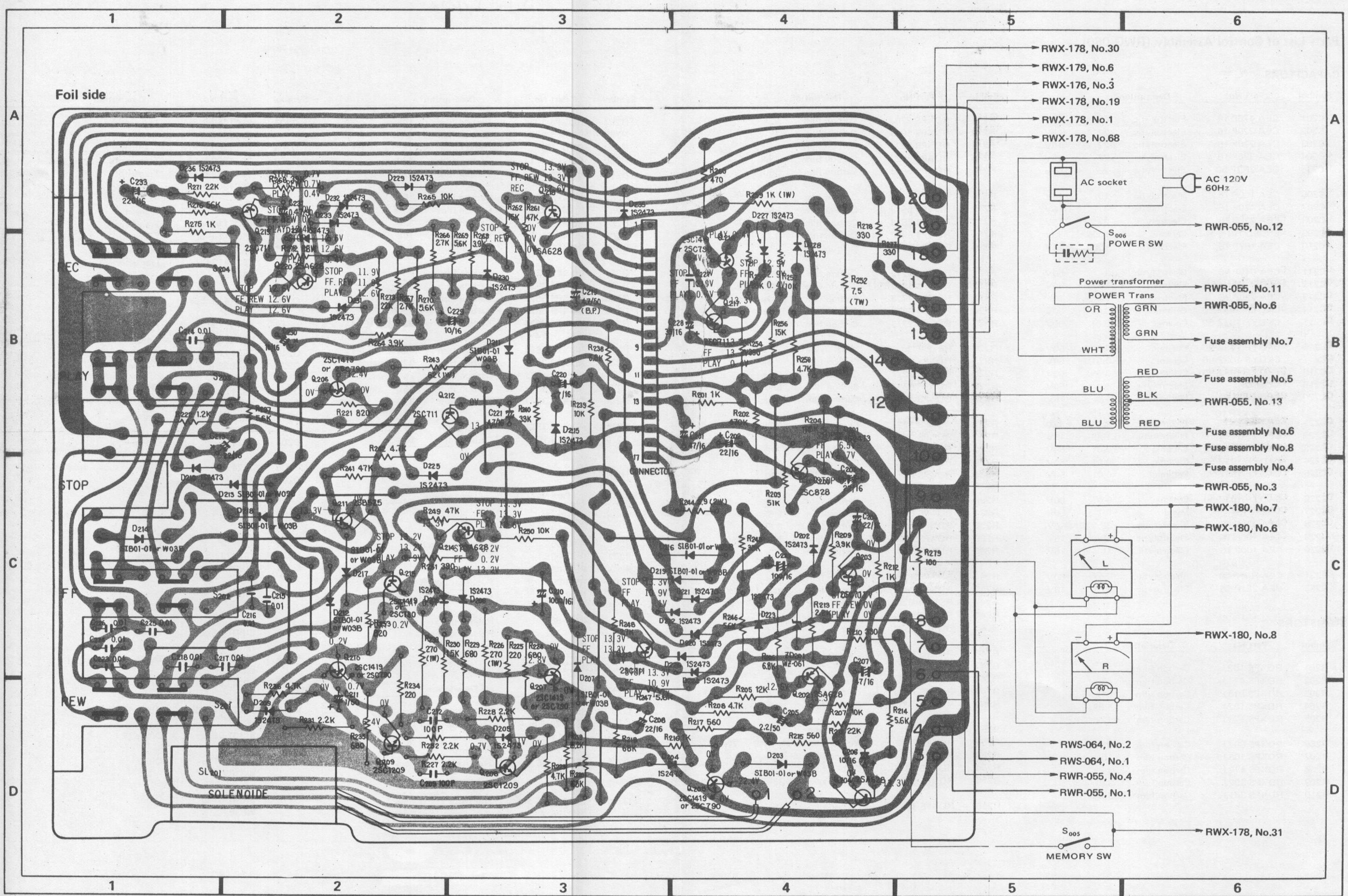
Symbol	Part No.	Description
LED1301	TLR-113P	Light emitting diode
LED1302	TLR-113P	Light emitting diode
LED1303	TLG-113	Light emitting diode
LED1304	TLG-113	Light emitting diode

OTHER

Symbol	Part No.	Description
	REB-179	Diode Holder

12.19 CONTROL ASSEMBLY (RWG-080)




Foil side
REC
PLAY
STOP
FF
REW
SOLENOIDE
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
AC socket
AC 120V
60Hz
POWER SW
RWR-055, No.12
Power transformer
POWER Trans
RWR-055, No.11
RWR-055, No.6
Fuse assembly No.7
Fuse assembly No.5
RWR-055, No.13
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
RWX-178, No.31
MEMORY SW

Parts List of Control Assembly (RWG-080)

CAPACITORS

Symbol	Part No.	Description		
C201	CEA 470P 16	Electrolytic	47	16V
C202	CEA 220P 16	Electrolytic	22	16V
C203	CEA 220P 16	Electrolytic	22	16V
C204	CEA 220P 16	Electrolytic	22	16V
C205	CEA 2R2P 50	Electrolytic	2.2	50V
C206	CEA 100P 16	Electrolytic	10	16V
C207	CEA 470P 16	Electrolytic	47	16V
C208	CEA 220P 16	Electrolytic	22	16V
C209	CCDSL 101K 50	Ceramic	100p	50V
C210	CEA 102P 16	Electrolytic	1000	16V
C211	CEA 010P 50	Electrolytic	1	50V
C212	CCDSL 101K 50	Ceramic	100p	50V
C213	CEA 220P 16	Electrolytic	22	16V
C214	CKDYF 103Z 50	Ceramic	0.01	50V
C215	CKDYF 103Z 50	Ceramic	0.01	50V
C216	CKDYF 103Z 50	Ceramic	0.01	50V
C217	CKDYF 103Z 50	Ceramic	0.01	50V
C218	CKDYF 103Z 50	Ceramic	0.01	50V
C219	RCH-026	Electrolytic	4.7	50V
C220	CEA 470P 16	Electrolytic	47	16V
C221	CEA ~~4R7P 35~~ R47P50	Electrolytic	~~4.7~~ 0.47	~~35V~~ 50V
C222	CEA 101P 16	Electrolytic	100	16V
C223	CKDYF 103Z 50	Ceramic	0.01	50V
C224	CKDYF 103Z 50	Ceramic	0.01	50V
C225	CKDYF 103Z 50	Ceramic	0.01	50V
C226	CKDYF 103Z 50	Ceramic	0.01	50V
C227	CQMA 104K 50	Mylar	0.1	50V
C228	CEA 330P 16	Electrolytic	33	16V
C229	CEA 100P 16	Electrolytic	10	16V
C230	CEA 100P 16	Electrolytic	10	16V
C231	CEA R~~47P 50~~ 10P50V	Electrolytic	~~0.47~~ 1	50V
C233	CEA 221P 16	Electrolytic	220	16V

RESISTORS

Symbol	Part No.	Description		
R201	RD¼PS 102J	Carbon film	1k	
R202	RD¼PS 474J	Carbon film	470k	
R203	RD¼PS 513J	Carbon film	51k	
R204	RD¼PS 182J	Carbon film	1.8k	
R205	RD¼PS 123J	Carbon film	12k	
R206	RD¼PS 682J	Carbon film	6.8k	
R207	RD¼PS 103J	Carbon film	10k	
R208	RD¼PS 472J	Carbon film	4.7k	
R209	RD¼PS 392J	Carbon film	3.9k	
R210	RD¼PS 331J	Carbon film	330	
R211	RD¼PS 223J	Carbon film	22k	
R212	RD¼PS 102J	Carbon film	1k	
R213	RD¼PS 222J	Carbon film	2.2k	
R214	RD¼PS 562J	Carbon film	5.6k	
R215	RD¼PS 561J	Carbon film	560	
R216	RD¼PS 102J	Carbon film	1k	
R217	RD¼PS 561J	Carbon film	560	
R218	RD¼PS 683J	Carbon film	68k	
R219	RD¼PS 822J	Carbon film	8.2k	
R220	RD¼PS 683J	Carbon film	68k	
R221	RD¼PS 821J	Carbon film	820	
R222	RD¼PS ~~122J~~ F221J	Carbon film	~~1.2k~~ 220Ω	
R223	RD¼PS 472J	Carbon film	4.7k	
R224	RD¼PS 681J	Carbon film	680	
R225	RD¼PS 221J	Carbon film	220	
R226	RS1P 271J	Metal oxide	270	1W
R227	RD¼PS 222J	Carbon film	2.2k	
R228	RD¼PS 222J	Carbon film	2.2k	
R229	RD¼PS 681J	Carbon film	680	
R230	RD¼PS 152J	Carbon film	1.5k	
R231	RD¼PS 222J	Carbon film	2.2k	
R232	RD¼PS 222J	Carbon film	2.2k	
R233	RS1P 271J	Metal oxide	270	1W
R234	RD¼PS 221J	Carbon film	220	
R235	RD¼PS 681J	Carbon film	680	
R236	RD¼PS 472J	Carbon film	4.7k	
R237	RD¼PS 562J	Carbon film	5.6k	
R238	RD¼PS 682J	Carbon film	6.8k	
R239	RD¼PS ~~103J~~ 152J	Carbon film	~~10k~~ 1.5k	
R240	RD¼PS 333J	Carbon film	33k	
R241	RD¼PS 473J	Carbon film	47k	
R242	RD¼PS ~~472J~~ 182J	Carbon film	~~4.7k~~ 1.8k	
R243	RS1PSF 620J	Metal oxide	62	1W
R244	RCN-031	Wire wound resistor	3.9	2W
R245	RD¼PS 333J	Carbon film	33k	
R246	RD¼PS 562J	Carbon film	5.6k	
R247	RD¼PS 562J	Carbon film	5.6k	
R248	RD¼PS 272J	Carbon film	2.7k	
R249	RD¼PS 473J	Carbon film	47k	
R250	RD¼PS 103J	Carbon film	10k	
R251	RD¼PS 391J	Carbon film	390	
R252	RCN-032	Wire wound resistor	7.5	7W
R253	RD¼PS 821J	Carbon film	820	
R254	RD¼PS 391J	Carbon film	390	
R255	RD¼PS 393J	Carbon film	39k	
R256	RD¼PS 153J	Carbon film	15k	

Symbol	Part No.	Description		
R257	RD¼PS 103J	Carbon film	10k	
R258	RD¼PS 472J	Carbon film	4.7k	
R259	RS1P 102J	Metal oxide	1k	1W
R260	RD¼PS 471J	Carbon film	470	
R261	RD¼PS 473J	Carbon film	47k	
R262	RD¼PS 153J	Carbon film	15k	
R263	RD¼PS 392J	Carbon film	3.9k	
R264	RD¼PS 392J	Carbon film	3.9k	
R265	RD¼PS 103J	Carbon film	10k	
R266	RD¼PS 272J	Carbon film	2.7k	
R267	RD¼PS 272J	Carbon film	2.7k	
R268	RD¼PS 393J	Carbon film	39k	
R269	RD¼PS 562J	Carbon film	5.6k	
R270	RD¼PS 562J	Carbon film	5.6k	
R271	RD¼PS ~~223J~~ 822J	Carbon film	~~22k~~ 8.2kΩ	
R272	RD¼PS 183J	Carbon film	18k	
R273	RD¼PS 223J	Carbon film	22k	
R275	RD¼PS 102J	Carbon film	1k	
R276	RD¼PS 563J	Carbon film	56k	
R277	RD¼PS 331J	Carbon film	330	
R278	RD¼PS 331J	Carbon film	330	
R279	RD¼PS 101J	Carbon film	100	

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

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
Q207	2SC1419-C or 2SC790-Y	Transistor
Q208	2SC1209-E	Transistor
Q209	2SC1209-E	Transistor
Q210	2SC1419-C or 2SC790-Y	Transistor
Q211	2SB525-D or E	Transistor
Q212	2SC711-E or F	Transistor
Q213	2SC711-E or F	Transistor
Q214	2SA628-E or F	Transistor
Q215	2SC1419-C or 2SC790-Y	Transistor
Q216	2SC1419-C or 2SC790-Y	Transistor
Q217	2SC711-E or F	Transistor
Q218	2SA628-E or F	Transistor
Q219	2SC711-E or F	Transistor
Q220	2SA628-E or F	Transistor
D201	1S2473	Diode
D202	1S2473	Diode
D203	SIB01-01 or W03B	Diode
D204	1S2473	Diode
D205	1S2473	Diode
D206	1S2473	Diode
D207	SIB01-01 or W03B	Diode
D208	1S2473	Diode
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

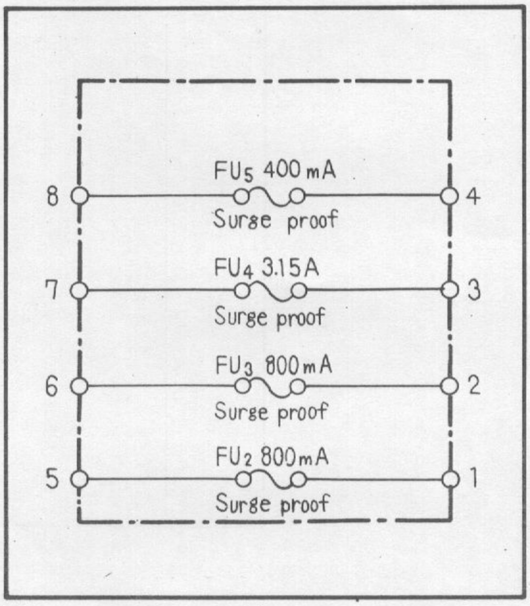
Symbol	Part No	Description
D220	1S2473	Diode
D221	1S2473	Diode
D222	1S2473	Diode
D223	1S2473	Diode
D224	1S2473	Diode
D225	1S2473	Diode
D226	1S2473	Diode
D227	1S2473	Diode
D228	1S2473	Diode
D229	1S2473	Diode
D230	1S2473	Diode
D231	1S2473	Diode
D232	1S2473	Diode
D233	1S2473	Diode
D234	1S2473	Diode
D235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

List of Changed Parts for Factory Modification

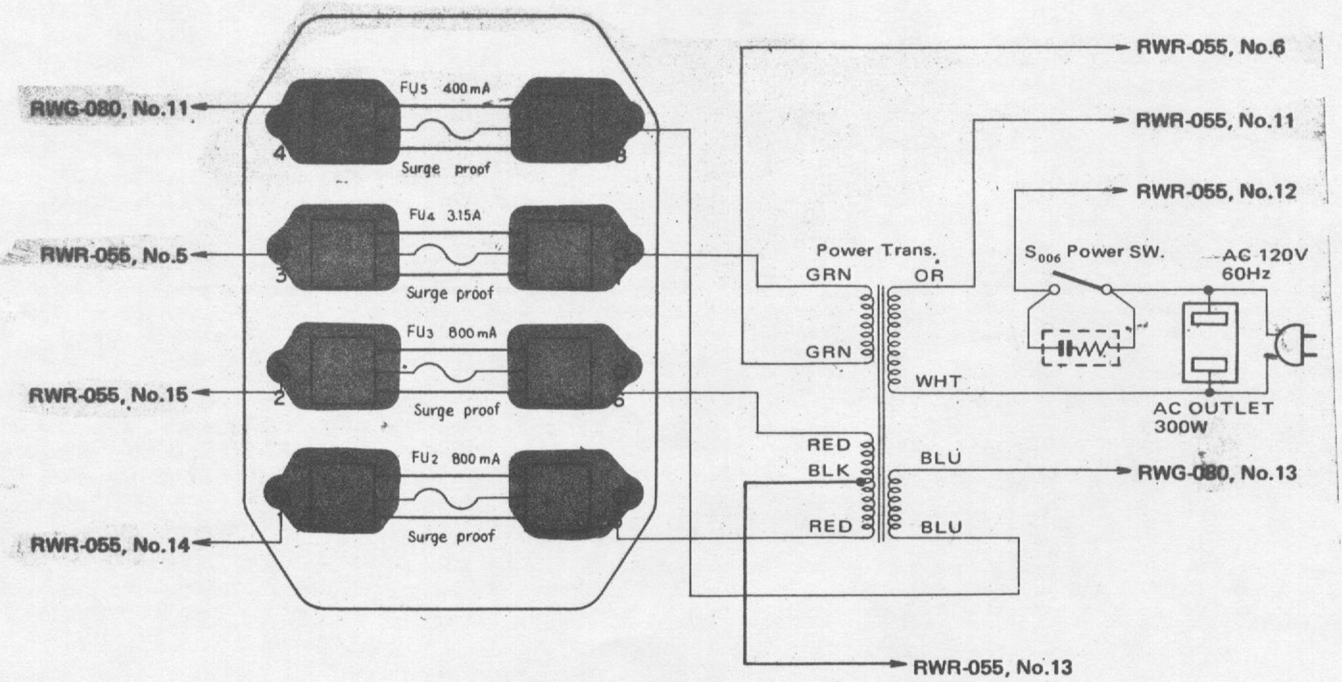
Symbol	Part No.	Description

Control assembly (RWG-080)

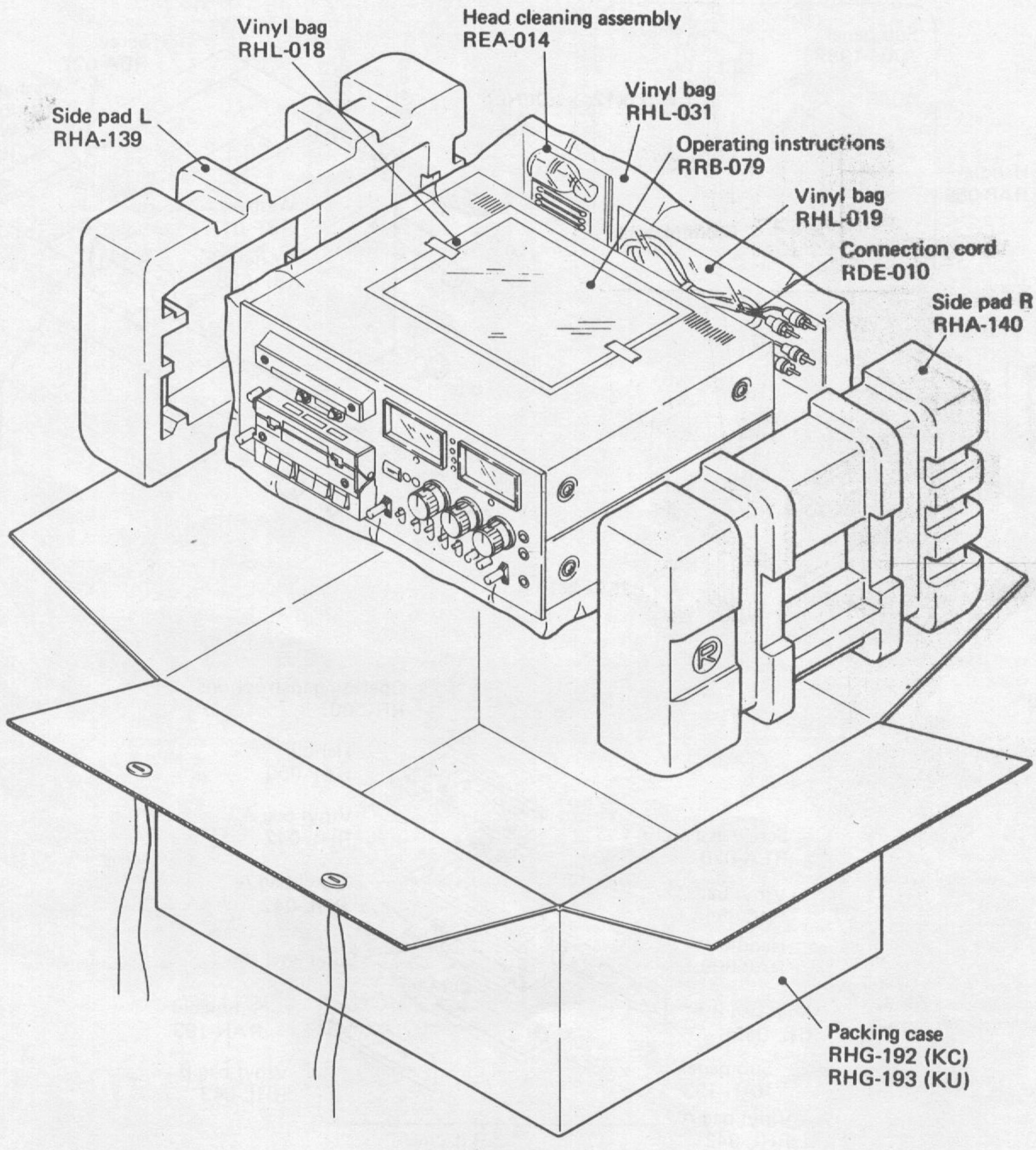
9.20 FUSE ASSEMBLY



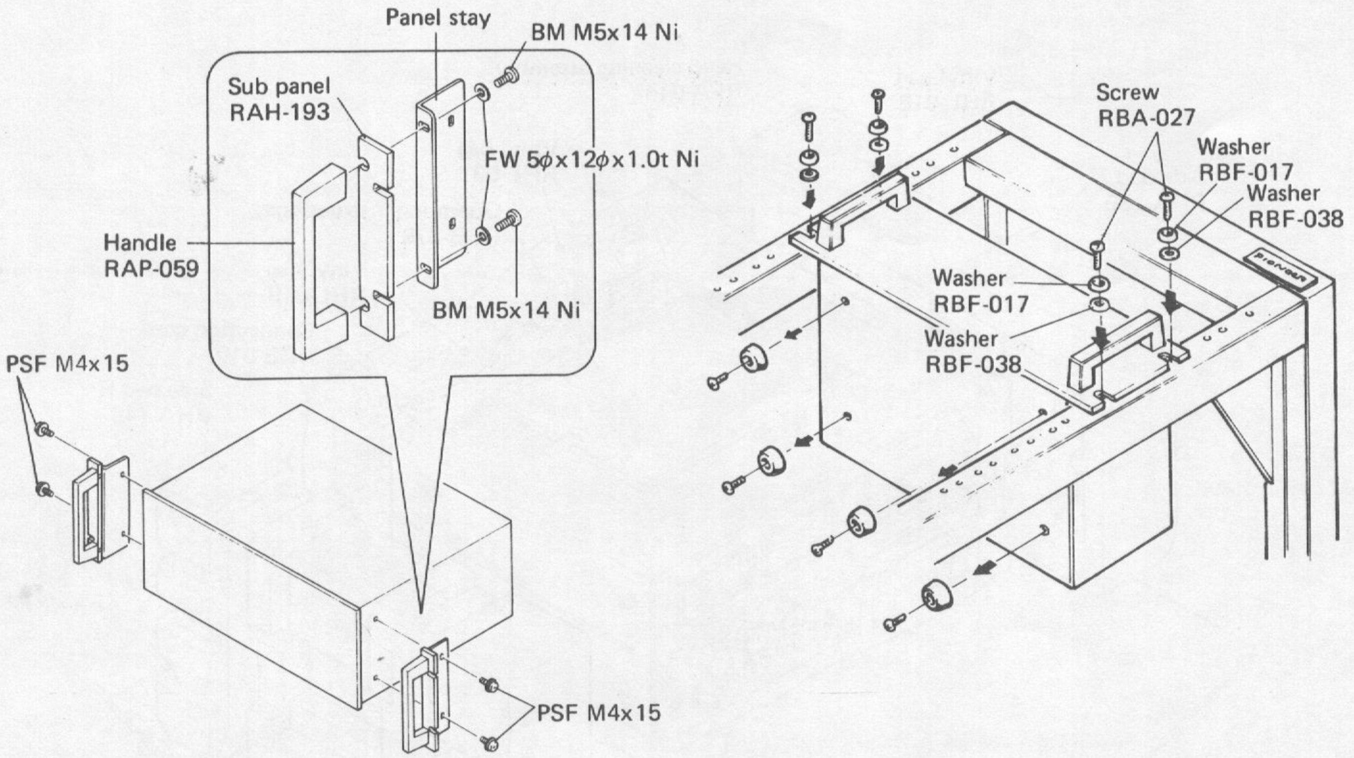
Foil side



10. PACKING


Vinyl bag
RHL-018
Head cleaning assembly
REA-014
Side pad L
RHA-139
Vinyl bag
RHL-031
Operating instructions
RRB-079
Vinyl bag
RHL-019
Connection cord
RDE-010
Side pad R
RHA-140
Packing case
RHG-192 (KC)
RHG-193 (KU)

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



Packing