

ADDITIONAL

 PIONEER

# Service Manual

STEREO CASSETTE TAPE DECK

# CT-F650

KU, KC, D

- The basic performance of the KU, KC and D types are the same as the HB type. This additional service manual is applicable to the KU, KC and D types. Please refer to the HE, HB, HP types service manual (ART-417) with exception of this supplements.

KU type ..... For U.S.A. model  
KC type ..... For Canada model  
D type ..... For General export model

## 1. SPECIFICATIONS

*The specifications for KU, KC and D types are the same as the HE, HB, HP types except for following sections.*

### Power Requirements

KU and KC type ..... AC 120V, 60Hz  
D type ..... AC 120V, 220V, and 240V, 50/60Hz

### Power Consumption

KU and KC types ..... 19 watts  
D types ..... 16 watts

## 2.CONTRAST OF MISCELLANEOUS PARTS

### ASSEMBLY

Symbol	Description	Part No.			
		HB type	KU type	KC type	D type
	Main assembly	RWX-369	RWX-357	RWX-358	RWX-358

### TRANSFORMER

Symbol	Description	Part No.			
		HB type	KU type	KC type	D type
T1	Power transformer	RTT-189	RTT-193	RTT-194	RTT-196

### SWITCHES

Symbol	Description	Part No.			
		HB type	KU type	KC type	D type
S14	Power switch	RSA-033	RSA-032	RSA-032	RSA-034
S13	Line voltage (2-position)	RSX-045	.....	.....	.....
	Line voltage selector (3-position)	.....	.....	.....	RKR-020

### FUSE

Symbol	Description	Part No.			
		HB type	KU type	KC type	D type
FU1	Fuse T500mA	REK-049	.....	.....	.....
	Fuse 1A (for 120V)	.....	.....	.....	REK-051
	Fuse 0.5A (for 220V, 240V)	.....	.....	.....	REK-048

### OTHERS

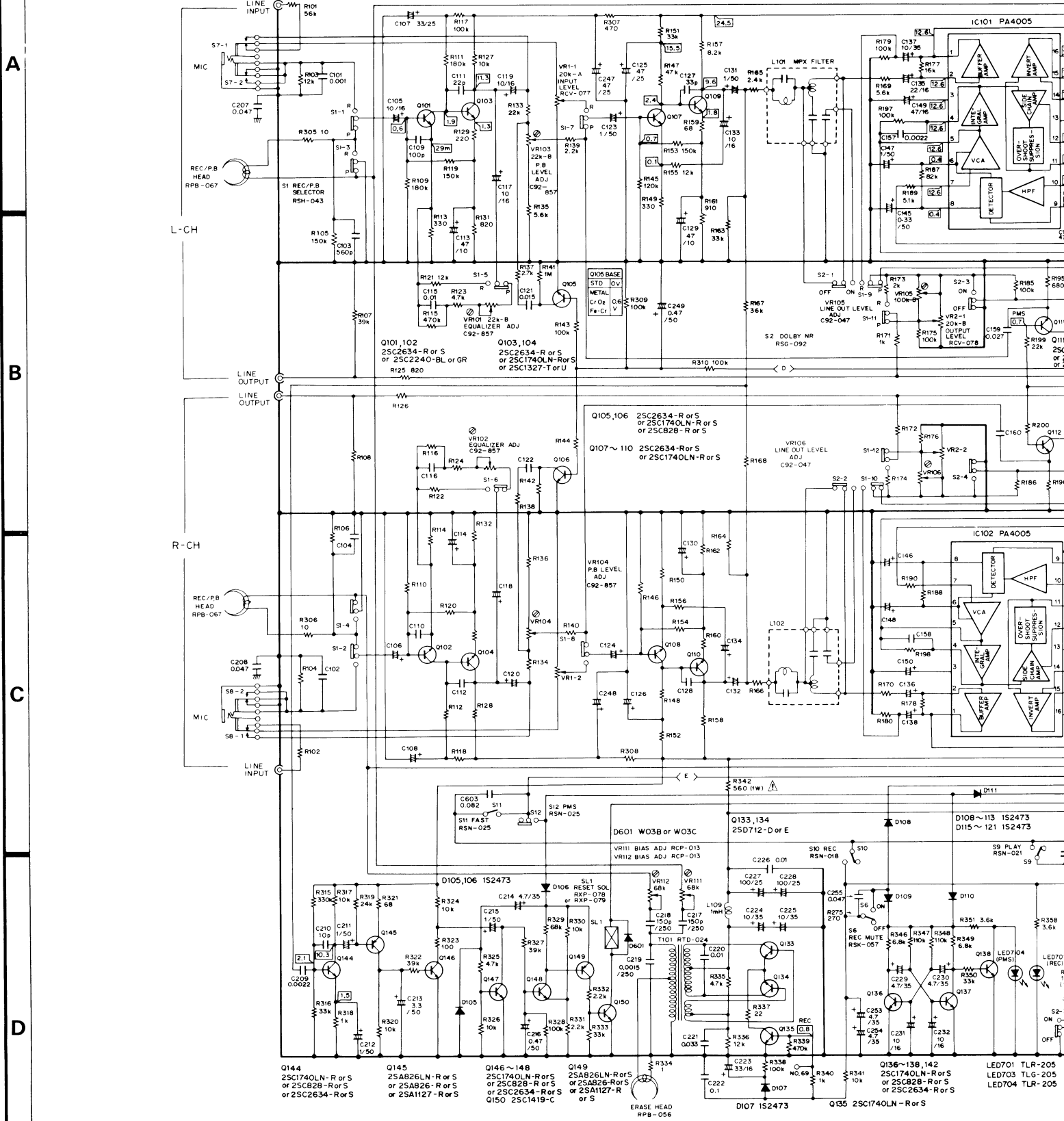
Symbol	Description	Part No.			
		HB type	KU type	KC type	D type
	AC power cord	RDG-028	RDG-022	RDG-022	RDG-024
C1	Ceramic capacitor (0.01)	.....	RCG-006	RCG-006	C43-003
	Fuse holder	RKR-021	.....	.....	.....
	Capacitor cover (for C1)	.....	REC-297	REC-297	.....
	Capacitor sleeve A	.....	.....	.....	REC-150
	Wire nut	.....	.....	.....	RBM-004

### PACKING MATERIALS

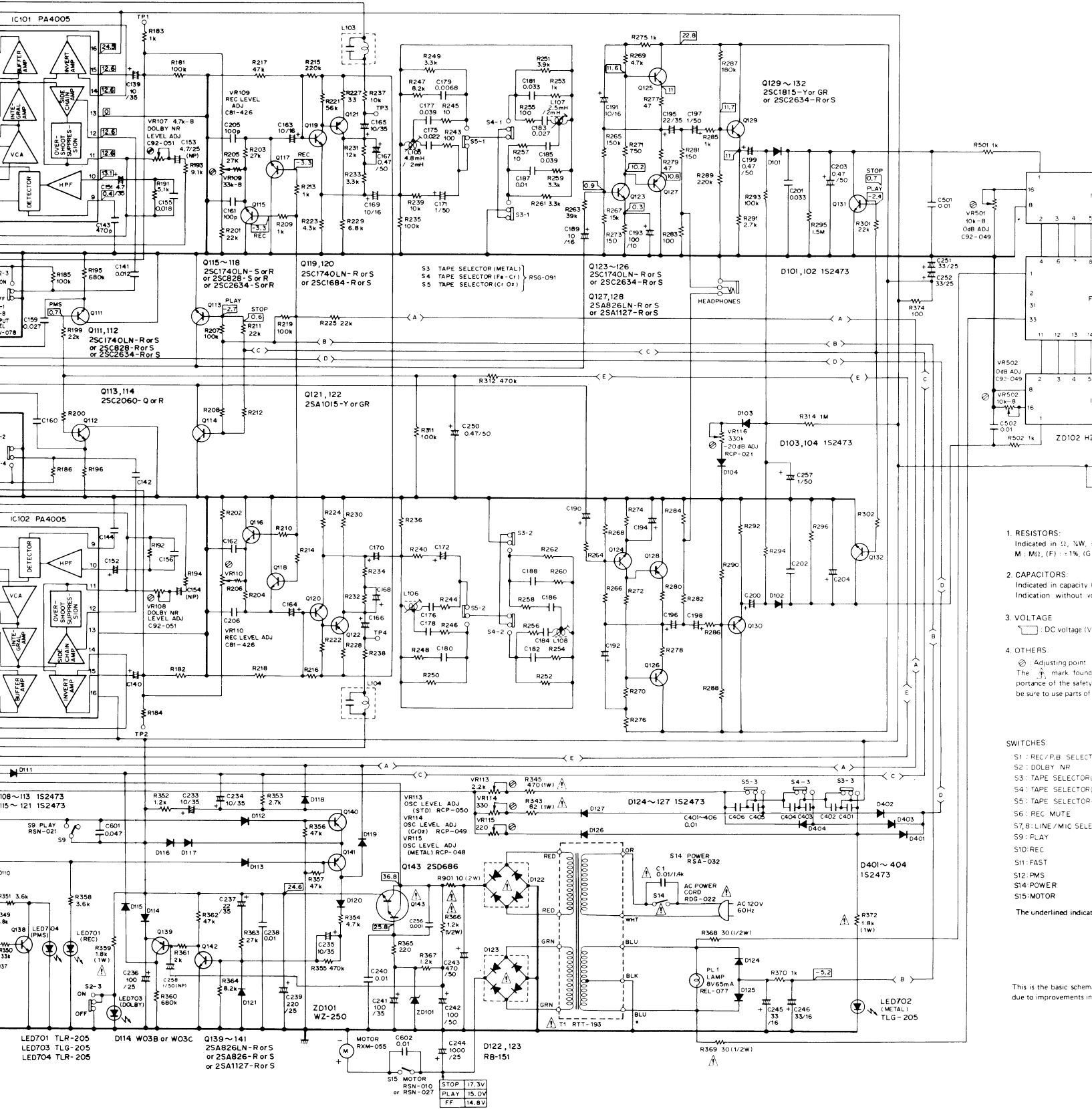
Symbol	Description	Part No.			
		HB type	KU type	KC type	D type
	Packing case	RHG-305	RHG-308	RHG-307	RHG-309
	Operating instructions	RRB-111	RRB-124	RRB-124	RRB-111
	Fuse 1A	.....	.....	.....	REK-051
	Fuse 0.5A	.....	.....	.....	REK-048

# 3. SCHEMATIC DIAGRAMS, P.C.BOARD PATTERNS AND PA

## 3.1 SCHEMATIC DIAGRAM



# AND PARTS LIST



1. RESISTORS:  
Indicated in Ω, ¼W, W, M: MΩ, (F): 1%, (G): 5%
2. CAPACITORS:  
Indicated in capacity, tolerance, and voltage. Indication without voltage is for 50V
3. VOLTAGE  
□ DC voltage (V)
4. OTHERS:  
⊕ Adjusting point  
⊕ mark found importance of the safety be sure to use parts of

- SWITCHES
- S1: REC/P.B SELECT
  - S2: DOLBY NR
  - S3: TAPE SELECTOR
  - S4: TAPE SELECTOR
  - S5: TAPE SELECTOR
  - S6: REC MUTE
  - S7: LINE/MIC SELE
  - S9: PLAY
  - S10: REC
  - S11: FAST
  - S12: PMS
  - S14: POWER
  - S15: MOTOR
- The underlined indicates

This is the basic schematic due to improvements in

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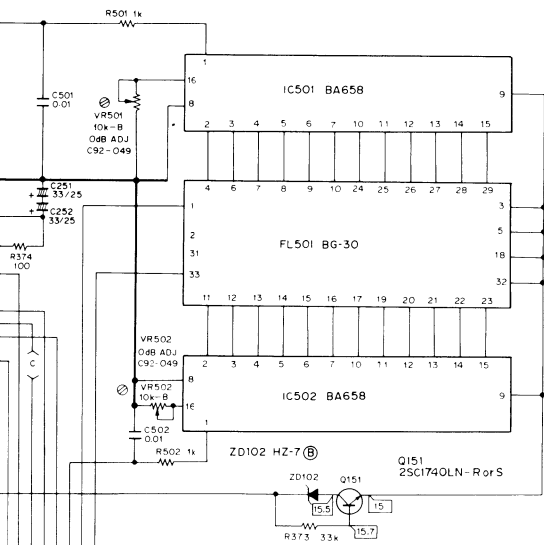
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A

B

C

D



1. RESISTORS:

Indicated in  $\Omega$ ,  $\text{k}\Omega$ ,  $\text{M}\Omega$ ,  $\text{F}$ ,  $\text{G}$ ,  $\text{K}$ ,  $\text{M}$  tolerance unless otherwise noted k : k $\Omega$ , M : M $\Omega$ , (F) : +1%, (G) : +2%, (K) : 10% tolerance

2. CAPACITORS:

Indicated in capacity ( $\mu\text{F}$ )/voltage (V) unless otherwise noted p : pF Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE

DC voltage (V) at no input signal

4. OTHERS:

Adjusting point. The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

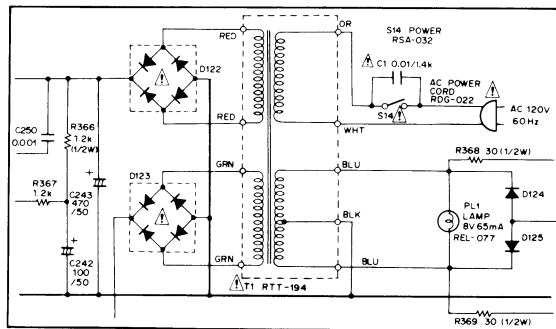
SWITCHES:

- S1 : REC/P/B SELECTOR      PLAYBACK — REC
- S2 : DOLBY NR              OFF — ON
- S3 : TAPE SELECTOR(METAL) OFF — ON
- S4 : TAPE SELECTOR(Fe - Cr) OFF — ON
- S5 : TAPE SELECTOR(Cr O<sub>2</sub>) OFF — ON
- S6 : REC MUTE              OFF — ON
- S7,8 : LINE/MIC SELECTOR    LINE — MIC
- S9 : PLAY                    OFF — ON
- S10 : REC                    OFF — ON
- S11 : FAST                    OFF — ON
- S12 : PMS                    OFF — ON
- S14 : POWER                OFF — ON
- S15 : MOTOR                OFF — ON

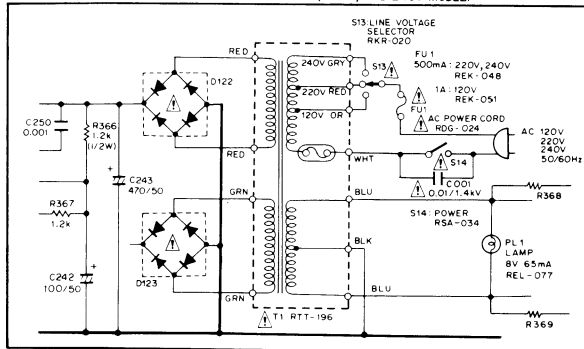
The underlined indicates the switch position.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

POWER SUPPLY CIRCUIT FOR CANADA MODEL



POWER SUPPLY CIRCUIT FOR 120V, 220V, AND 240V MODEL.

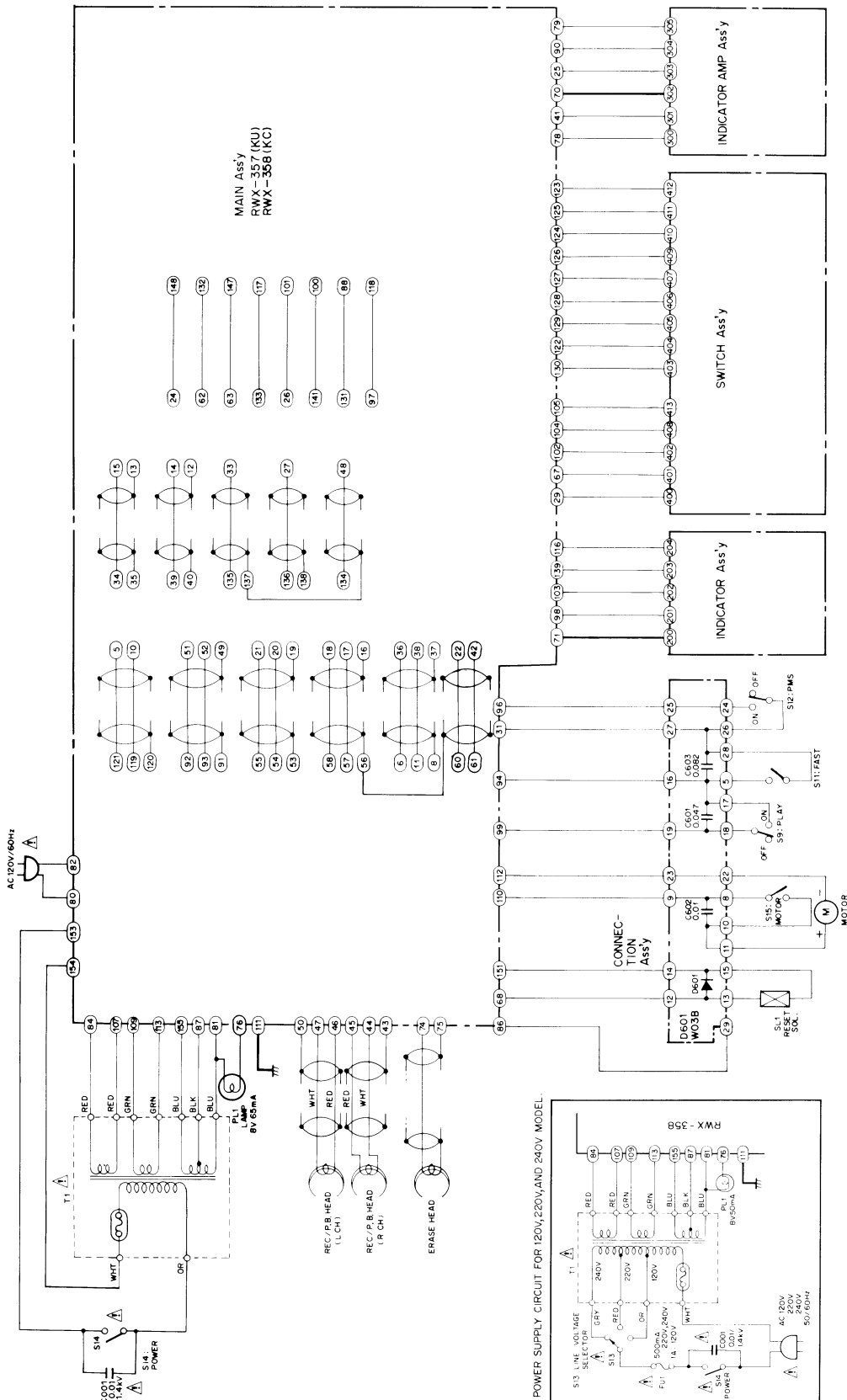


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### 3.2 CONNECTION DIAGRAM



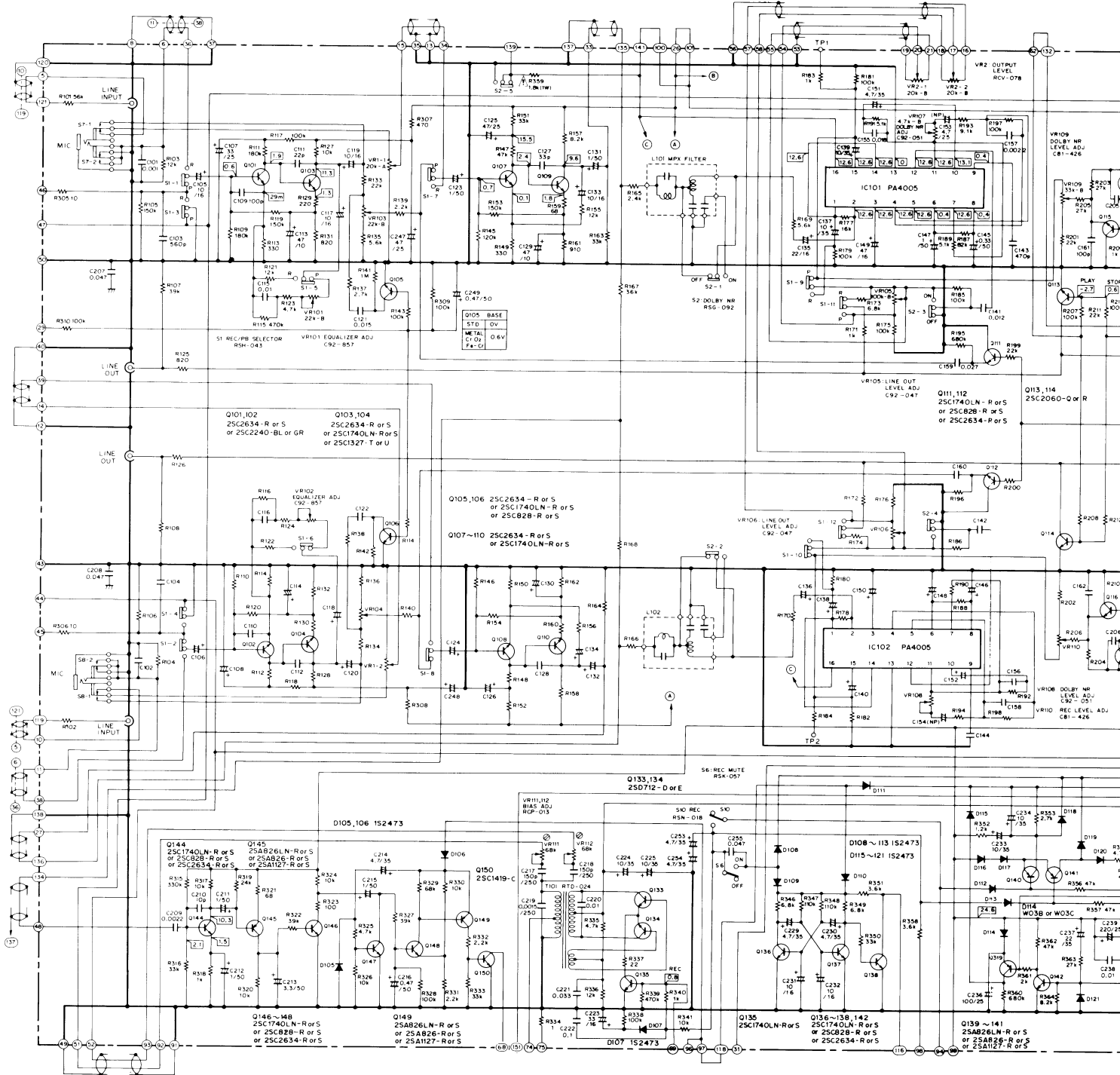
3.3 MAIN ASSEMBLY (RWX-357, For KU Type)

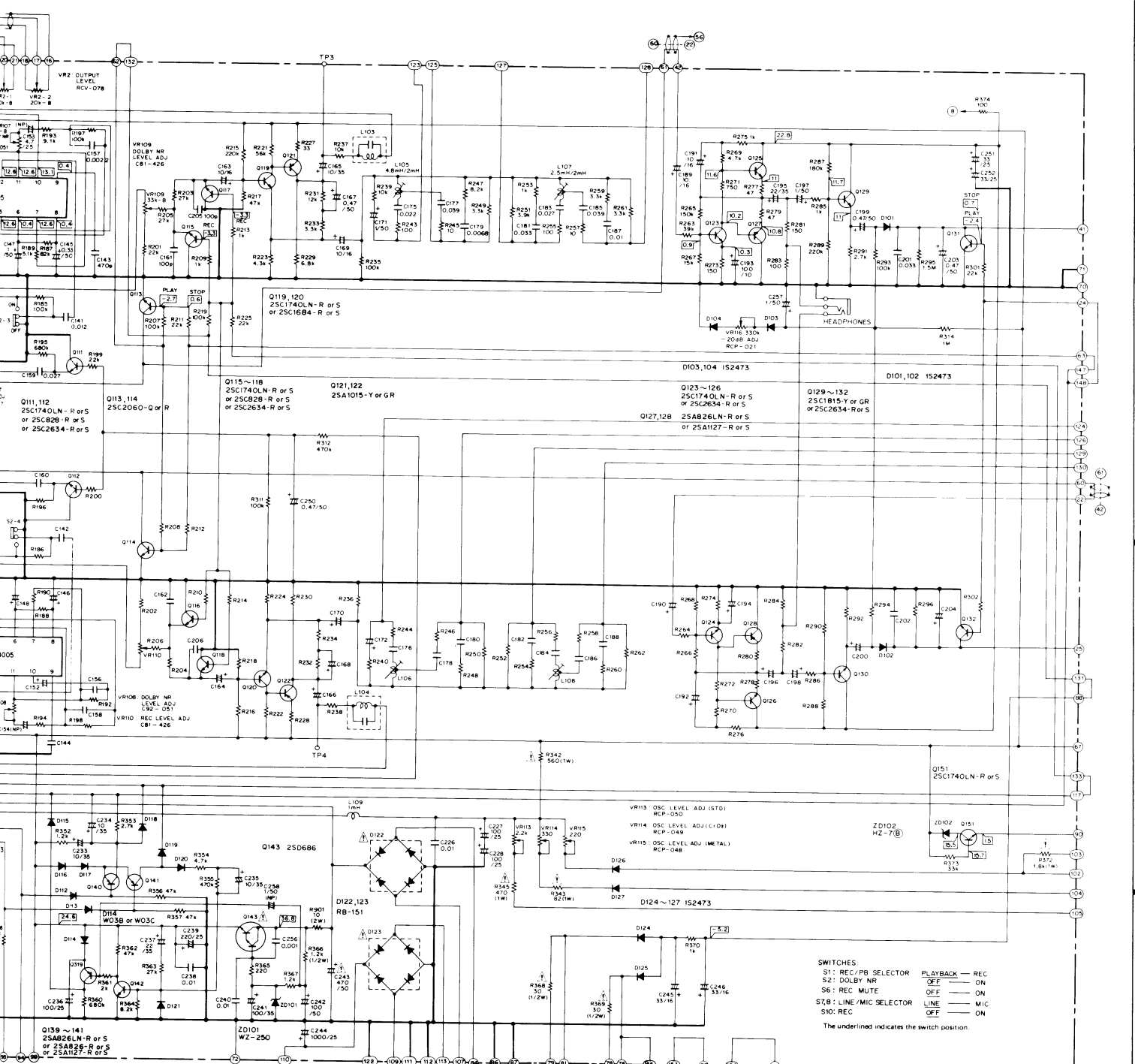
A

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C

D





SWITCHES  
 S1: REC/PB SELECTOR    PLAYBACK — REC  
                               OFF — ON  
 S2: DOLBY NR            OFF — ON  
 S6: REC MUTE            OFF — ON  
 S7: LINE/MIC SELECTOR    LINE — MIC  
 S8: REC                    OFF — ON

The underlined indicates the switch position.



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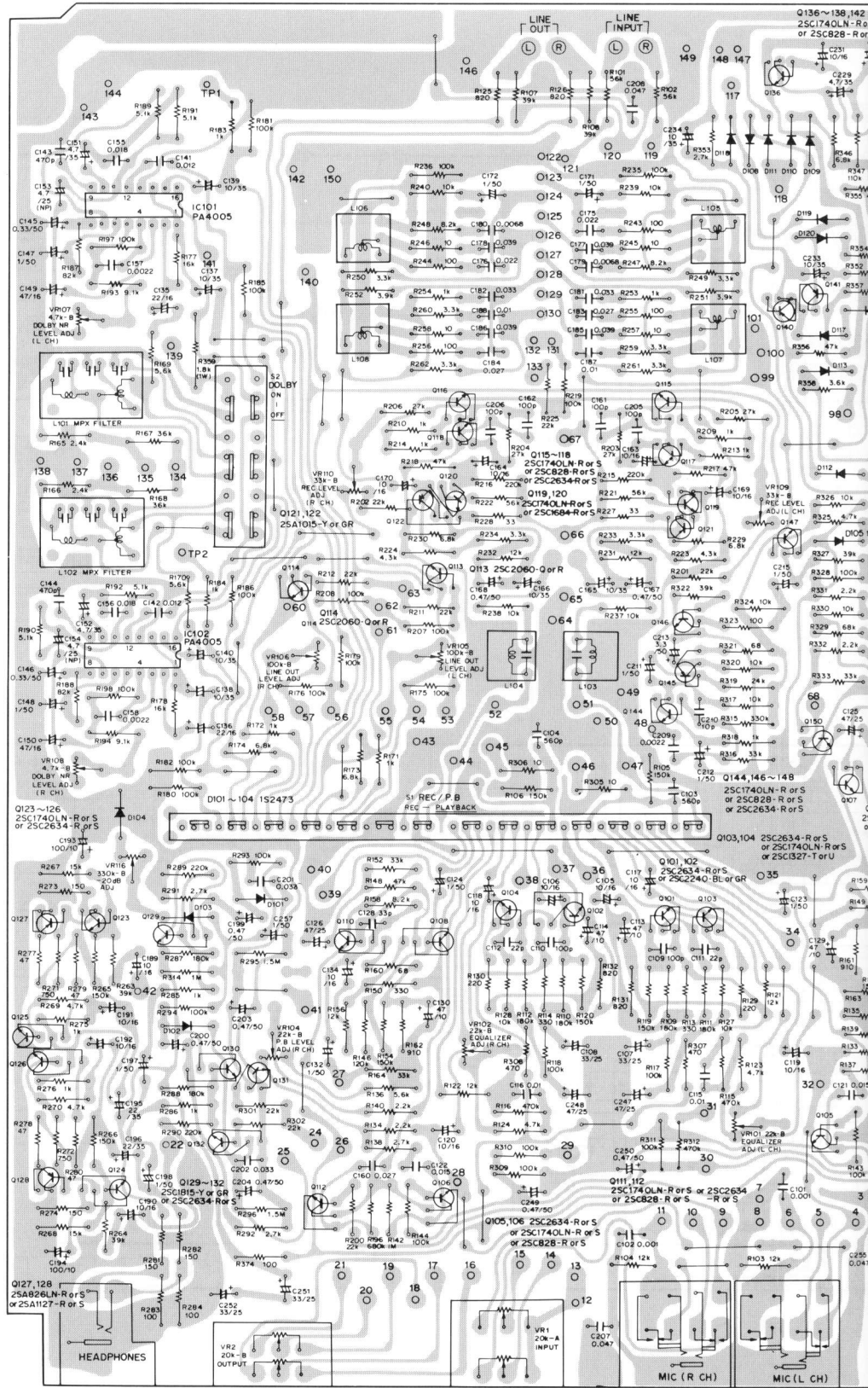
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A

B

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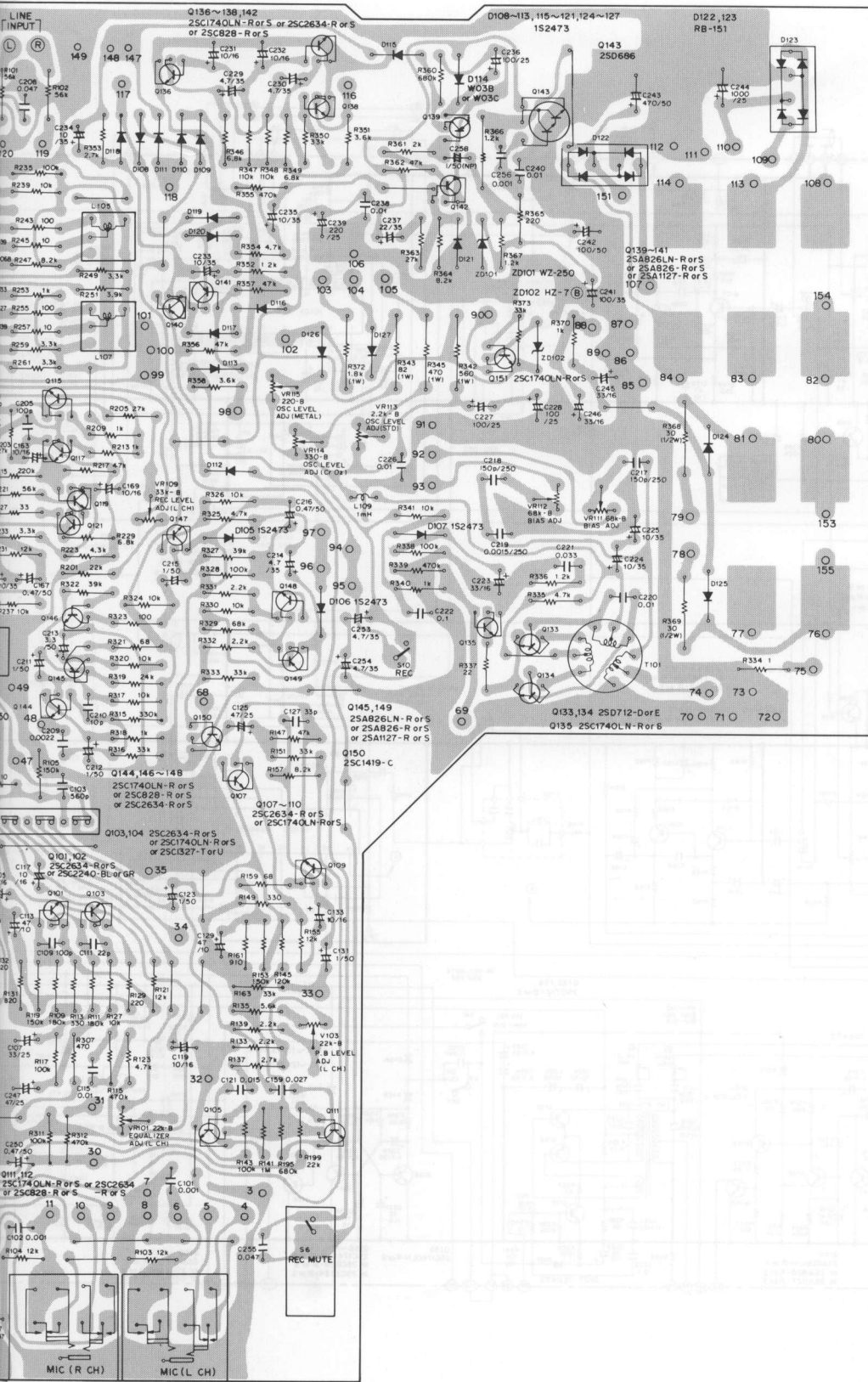
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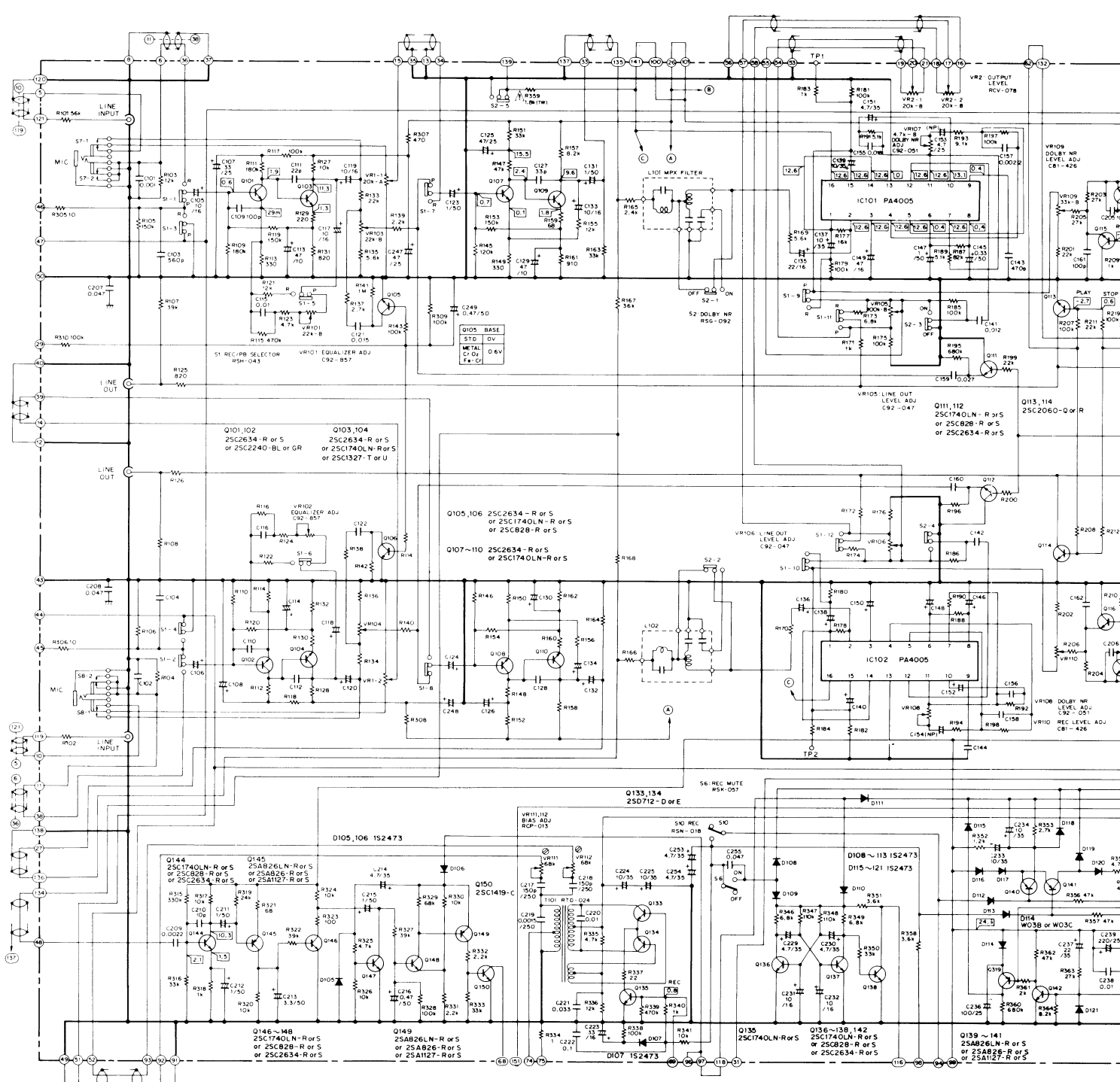
3.4 MAIN ASSEMBLY (RWX-358, For KC and D Type)

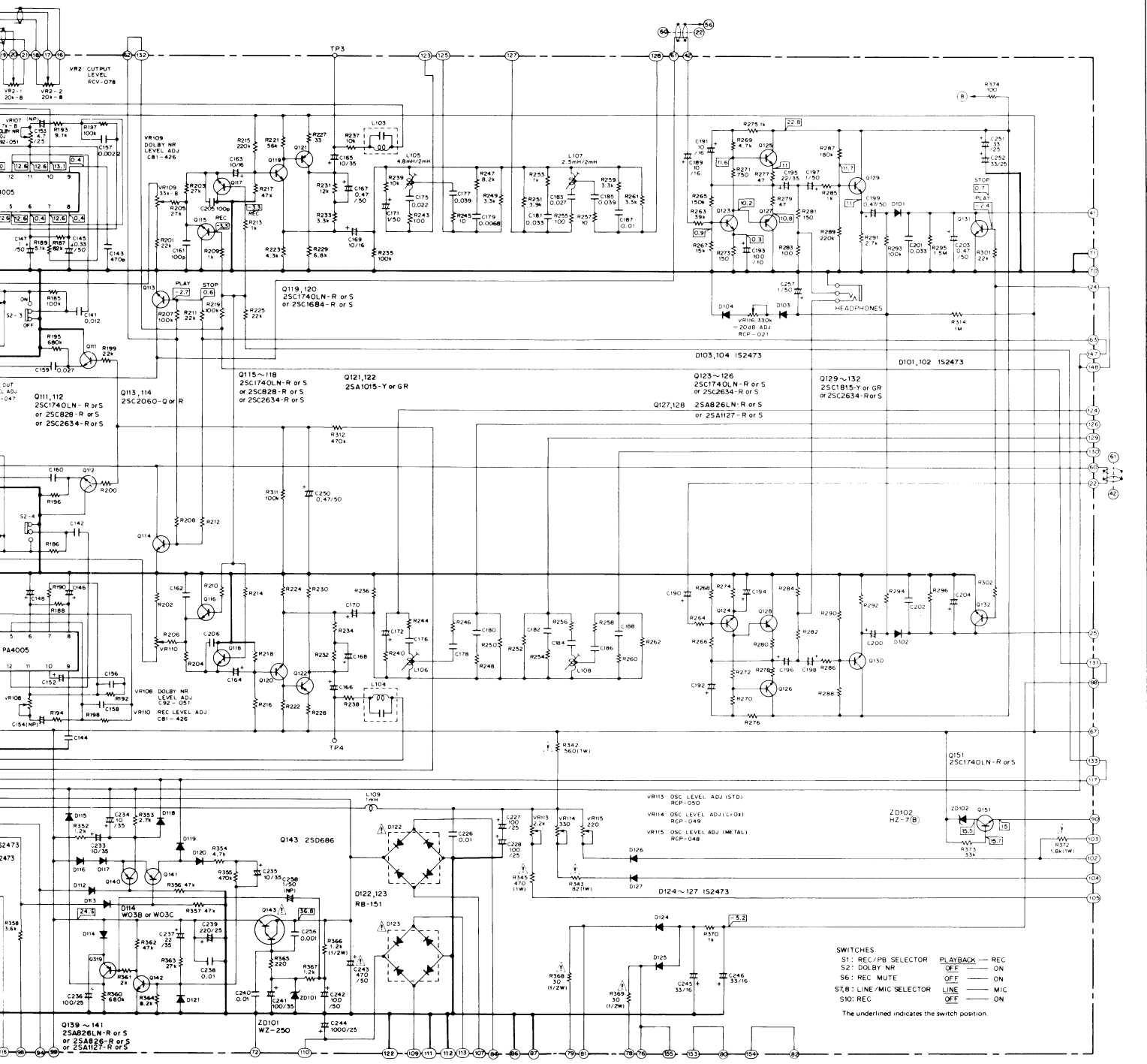
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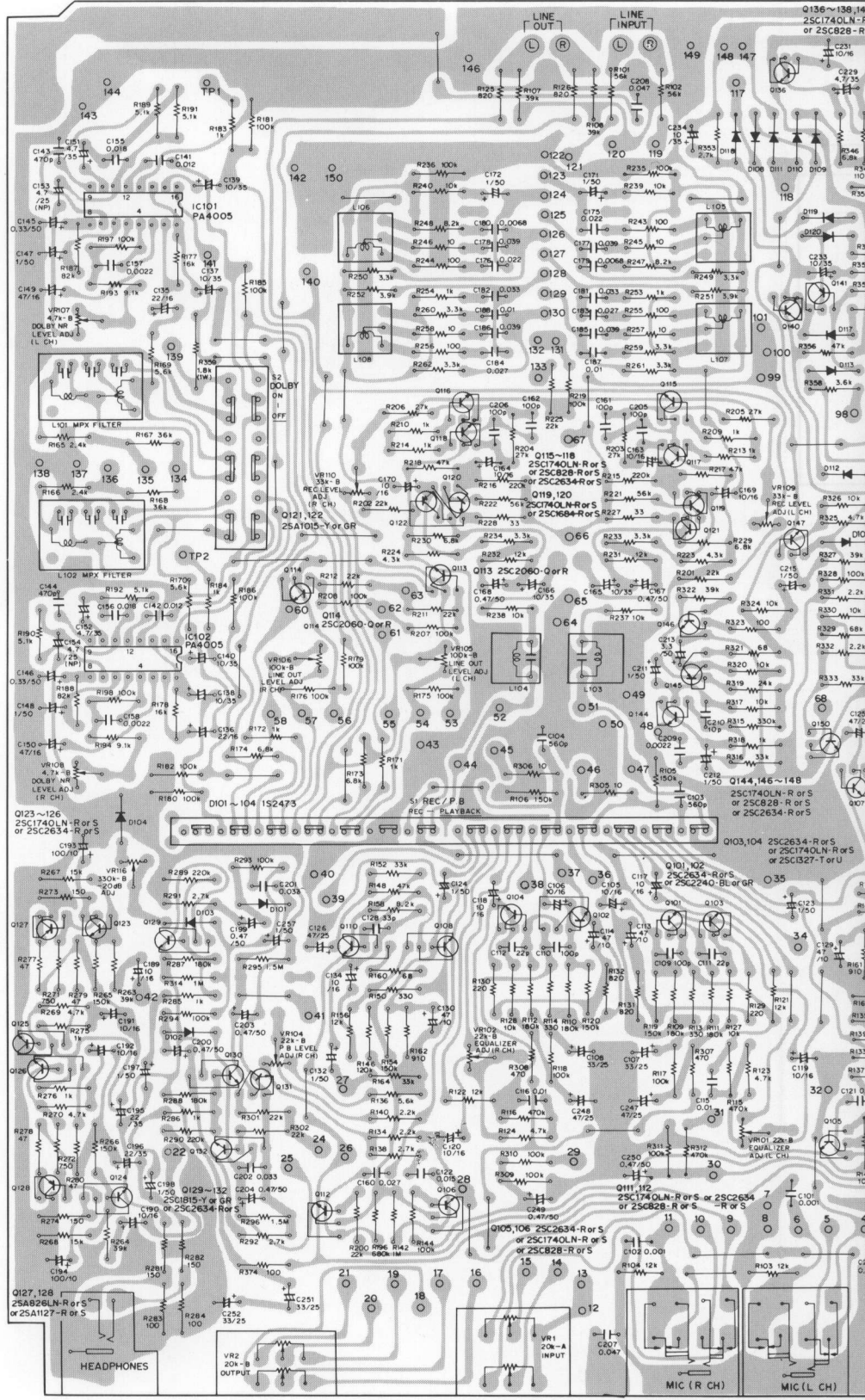
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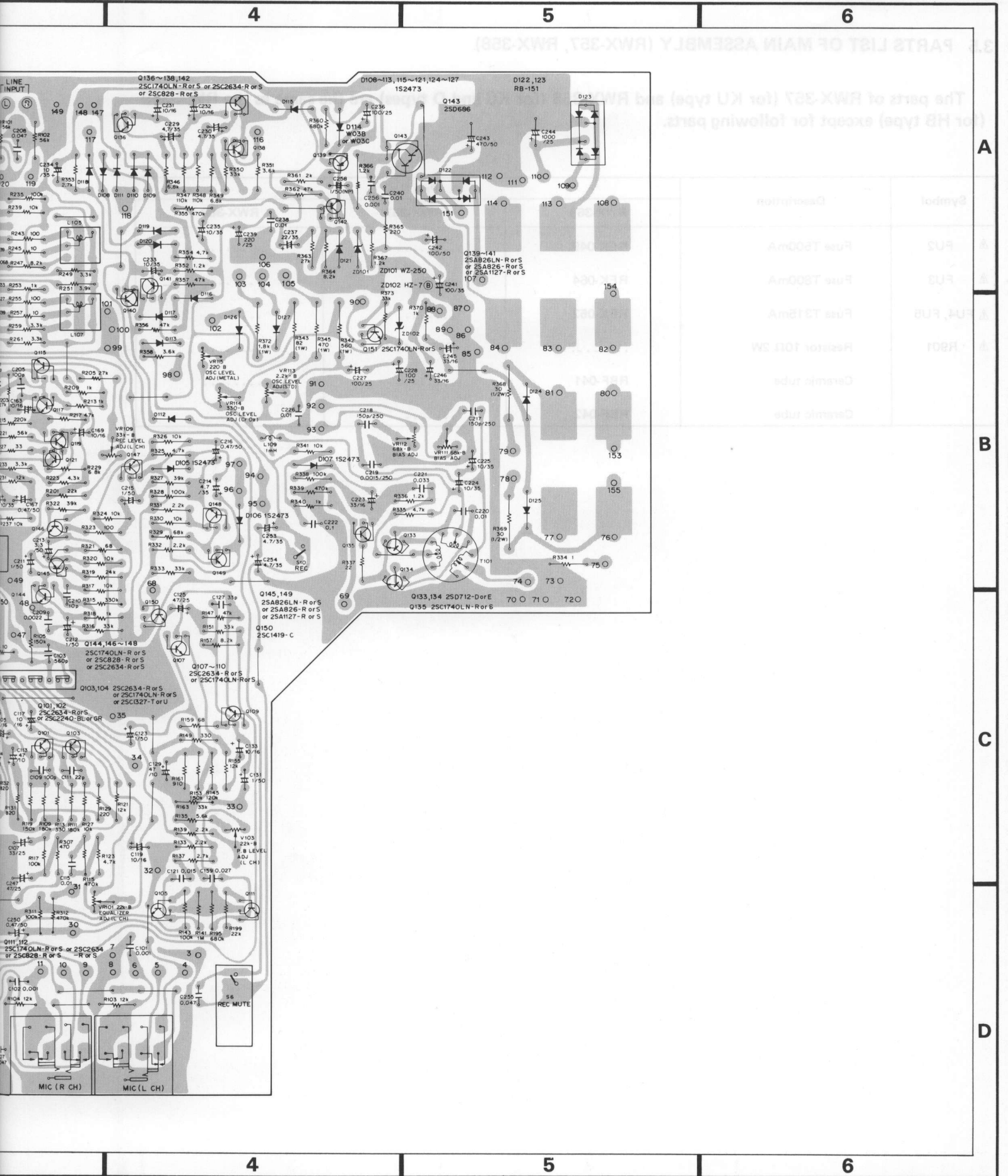
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3.5 PARTS LIST OF MAIN ASSEMBLY (RWX-357, RWX-358)

The parts of RWX-357 (for KU type) and RWX-358 (for KC and D types) are the same as the RWX-369 (for HB type) except for following parts.

Symbol	Description	Part No.		
		RWX-369	RWX-357	RWX-358
△ FU2	Fuse T500mA	REK-049	.....	.....
△ FU3	Fuse T800mA	REK-064	.....	.....
△ FU4, FU5	Fuse T315mA	REK-052	.....	.....
△ R901	Resistor 10Ω 2W	.....	RS2PF 100J	.....
	Ceramic tube	RBF-041	.....	.....
	Ceramic tube	RBF-042	.....	.....