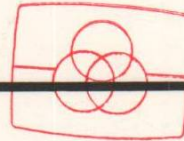


CASSETTE TAPE DECK

CT-F4040

HG, D



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<ART-247-0>

(gratis schematics)

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Service Manual

NOTE:

- This additional service manual is applicable to the CT-F4040/HG and CT-F4040/D types. For servicing of the CT-F4040/HG and CT-F4040/D types please refer to the model CT-F4242's manual<ART-245>with exception of descriptions in this manual.

MODEL CT-F4040 COMES IN TWO VERSIONS DISTINGUISHED AS FOLLOWS:

Type	Voltage	Remarks
HG	220V and 240V (Switchable)	Europe or Oceania model
D	120V, 220V and 240V (Switchable)	General export model

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1. SPECIFICATIONS

Systems	Compact cassette, 2-channel stereo
Motors	Electronically-controlled DC motor (built-in generator) x 1
Heads	Recording/playback head x 1 Erasing head x 1
Fast Winding Time	Approximately 85 seconds (C-60 tape)
Wow and Flutter	No more than 0.08% WRMS (JIS), No more than $\pm 0.18\%$ WRMS (DIN)
Frequency Response	Standard, LH tapes: 30 to 14,000Hz (40 to 13,000Hz ± 3 dB) Chromium dioxide tape: 30 to 16,000Hz (40 to 15,000Hz ± 3 dB) Ferri-chrome tape: 30 to 16,000Hz (40 to 15,000Hz ± 3 dB)
Signal-to-Noise Ratio	Dolby OFF: More than 52dB Dolby ON: More than 62dB (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 1.7% (0dB)
Inputs (Reference level/Maximum allowable input/Impedance)	MIC x 2; 0.2mV/45mV/10k Ω , 6mm ϕ jack (Reference MIC impedance; 250 Ω to 10k Ω) LINE (2-channel stereo); 50mV/25V/100k Ω DIN (REC/PLAY) x 1; Input & Output, 9mV/2.0V/2.2k Ω , 5p jack (DIN standard)
Outputs (Reference level/Load impedance)	LINE (2-channel stereo); 450mV/50k Ω DIN (REC/PLAY) x 1; 450mV/50k Ω (DIN standard) HEADPHONES x 1; 60mV/8 Ω
Semiconductors	Amplifier section: Transistors; 32, ICs; 2, Diodes; 16 (Zener Diode; 1, LEDs; 2) Motor Control section: Transistors; 3, Diode; 1
Subfunctions	• Dolby system (ON-OFF) with indicator lamp • Tape selector (STD/FeCr/CrO₂) • Cassette compartment illumination
Power Requirements	AC 220V, 240V (switchable) 50/60Hz (HG model) or AC 120V, 220V, 240V (switchable) 50/60Hz (D model)
Power Consumption	15watts.
Dimensions	380(W) x 150(H) x 325(D) mm. max. 14-15/16 x 5-7/8 x 12-13/16 in.
Weight Without package	7.2kg (16 lb)
Furnished parts	Stereo connecting cord with pin plugs; 2 Head cleaning kit; 1 Fuse (D model only) : 1 (120V; 1A or 220, 240V; 500mA) Operating instructions; 1

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

2. CONTRAST OF MISCELLANEOUS PARTS

Part Name	Part No.		
	CT-F4242/KCU	CT-F4040/HG	CT-F4040/D
T1 Power Transformer	RTT-114	RTT-119	RTT-124

Part Name	Part No.		
	CT-F4242/KCU	CT-F4040/HG	CT-F4040/D
C1 Ceramic 0.047	CKDYF473	CKDYF473	CKDYF473
C2 Ceramic 0.047	CKDYF473	CKDYF473	CKDYF473
C3 Electrolytic		CEA222P16	C43-003
C4 Electrolytic			CEA222P16

Part Name	Part No.		
	CT-F4242/KCU	CT-F4040/HG	CT-F4040/D
S1 Power Switch	RSA-019	RSA-015	RSA-009

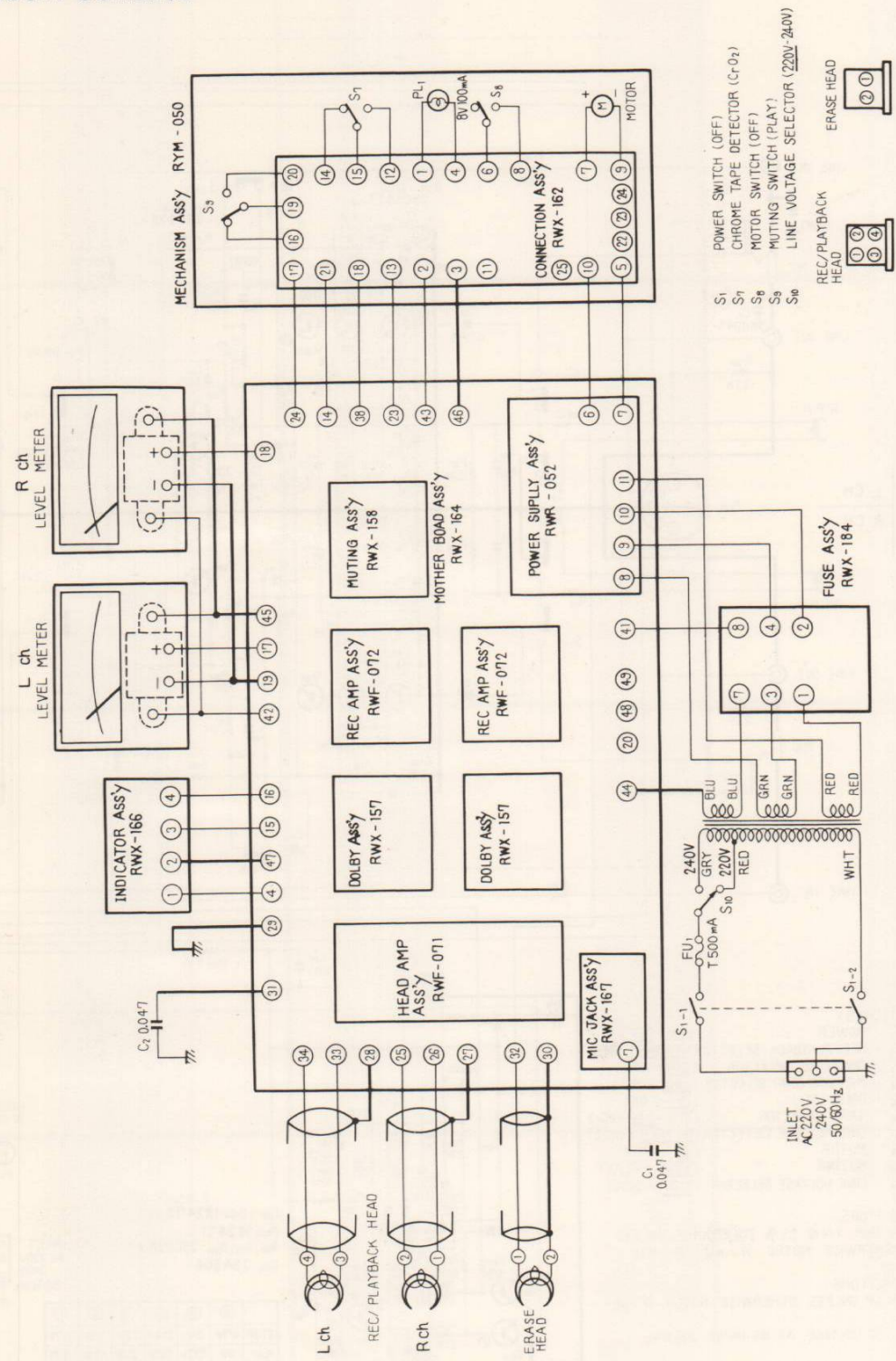
Part Name	Part No.		
	CT-F4242/KCU	CT-F4040/HG	CT-F4040/D
0.5A		REK-049	REK-048 (220, 240V)
1A			REK-051 (120V)

Part Name	Part No.		
	CT-F4242/KCU	CT-F4040/HG	CT-F4040/D
Capacitor cover	REC-249 (KC) REC-250 (KU)		REC-150
Spark Killer	RWX-148 (KC) RWX-150 (KC) RWX-109 (KU)		
AC Power cord	RDG-013		ADG-004
AC Socket (INLET) Plugin Selector (Line Voltage Selector) Front Panel Assembly Packing Case	 RXX-209 RHG-190 (KU) RHG-189 (KC) RRB-076	RKP-014 RKR-019 RXX-210 RHG-201	 RKR-020 RXX-210 RHG-203
Operating Instructions		RRB-081 (English) RRD-023 (German/French)	RRB-081

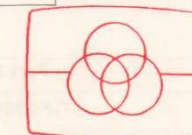
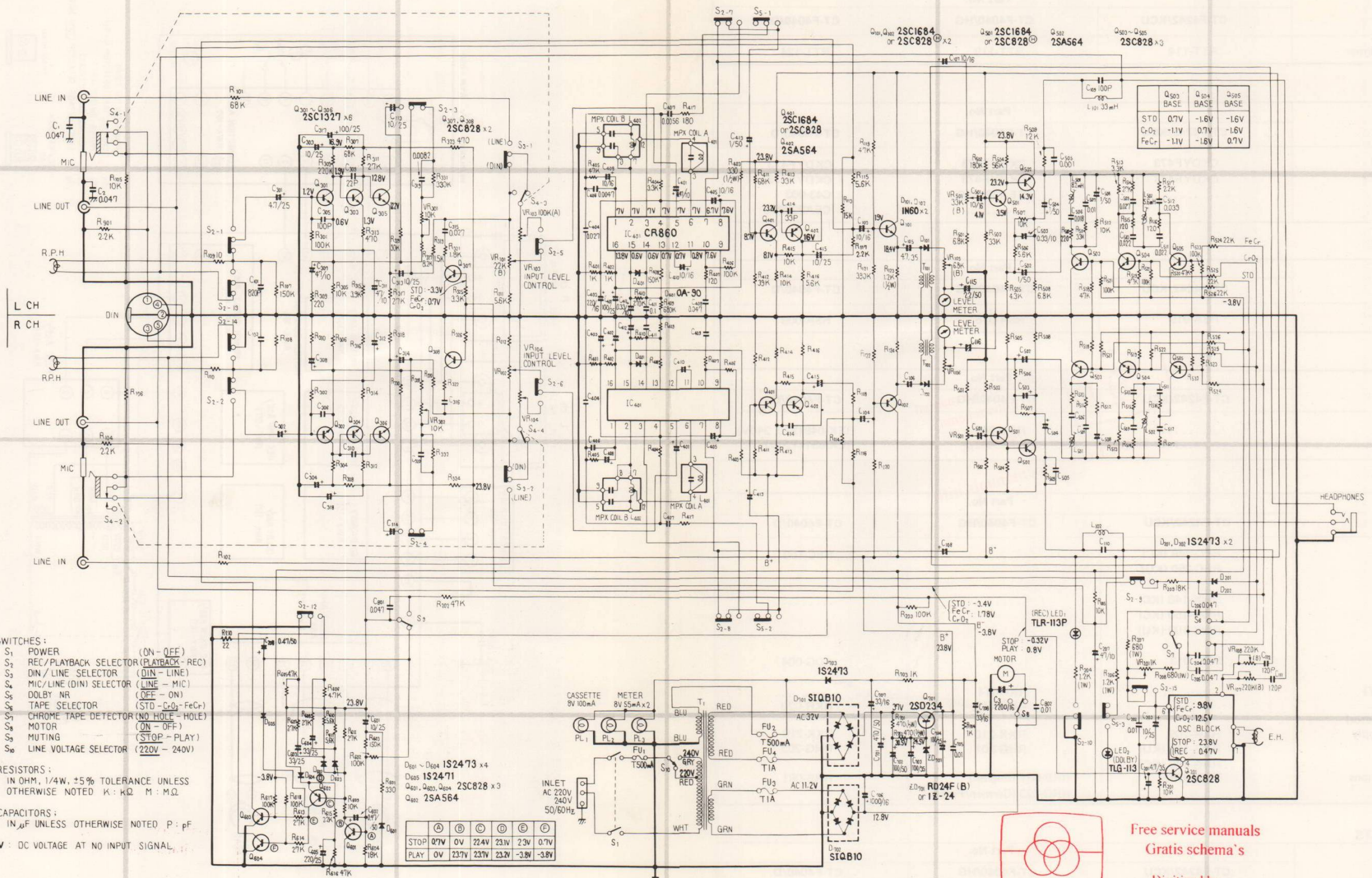
Part Name	Part No.		
	CT-F4242/KCU	CT-F4040/HG	CT-F4040/D
Viny Bag			H46-854
Fuse 0.5A (220, 240V)			REK-048
Fuse 1A (120V)			REK-051

3. MODEL CT-F4040/HG

3.1 CIRCUIT OUTLINE



3.2 SCHEMATIC DIAGRAM



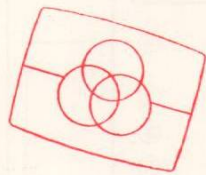
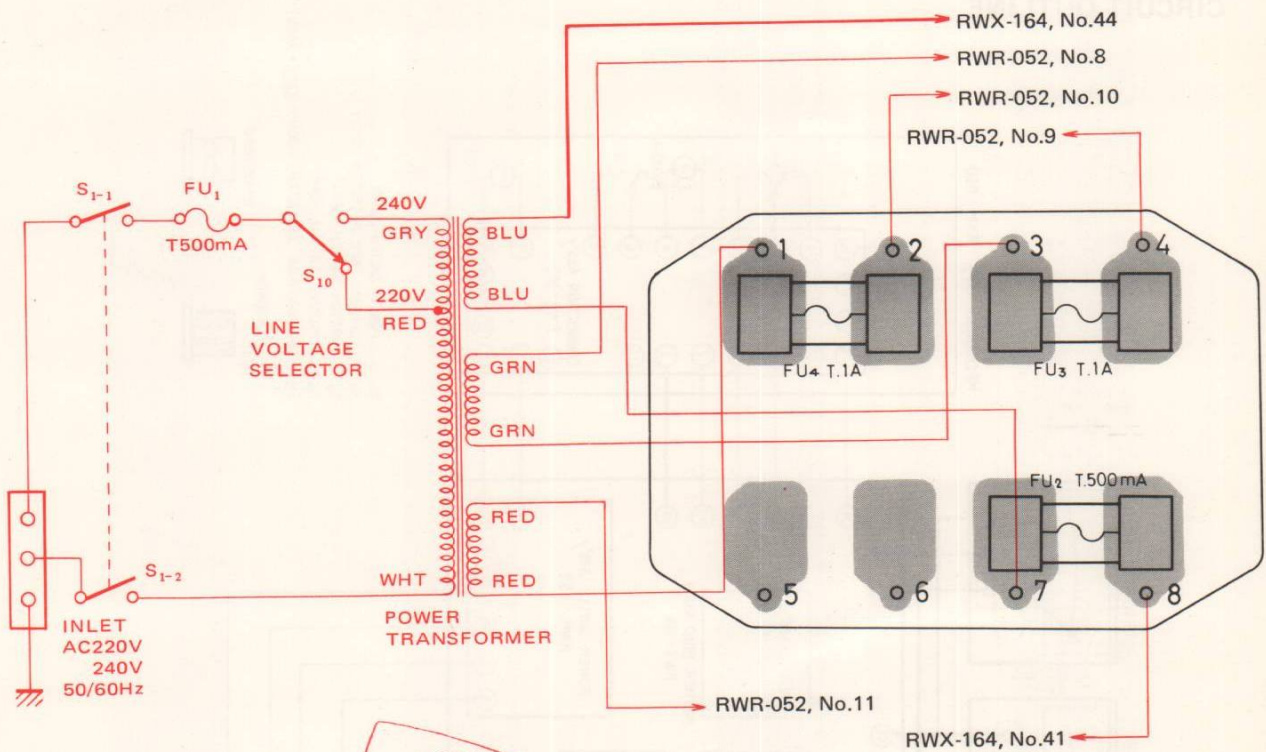
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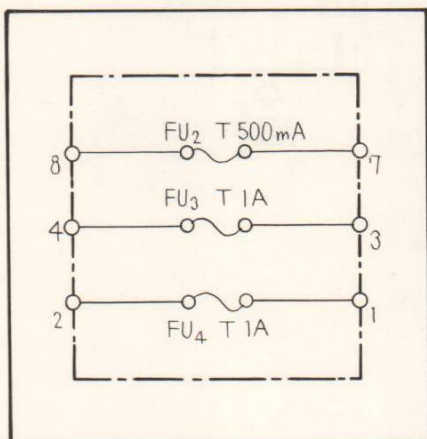
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3.3 FUSE ASSEMBLY



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Parts List

FUSES

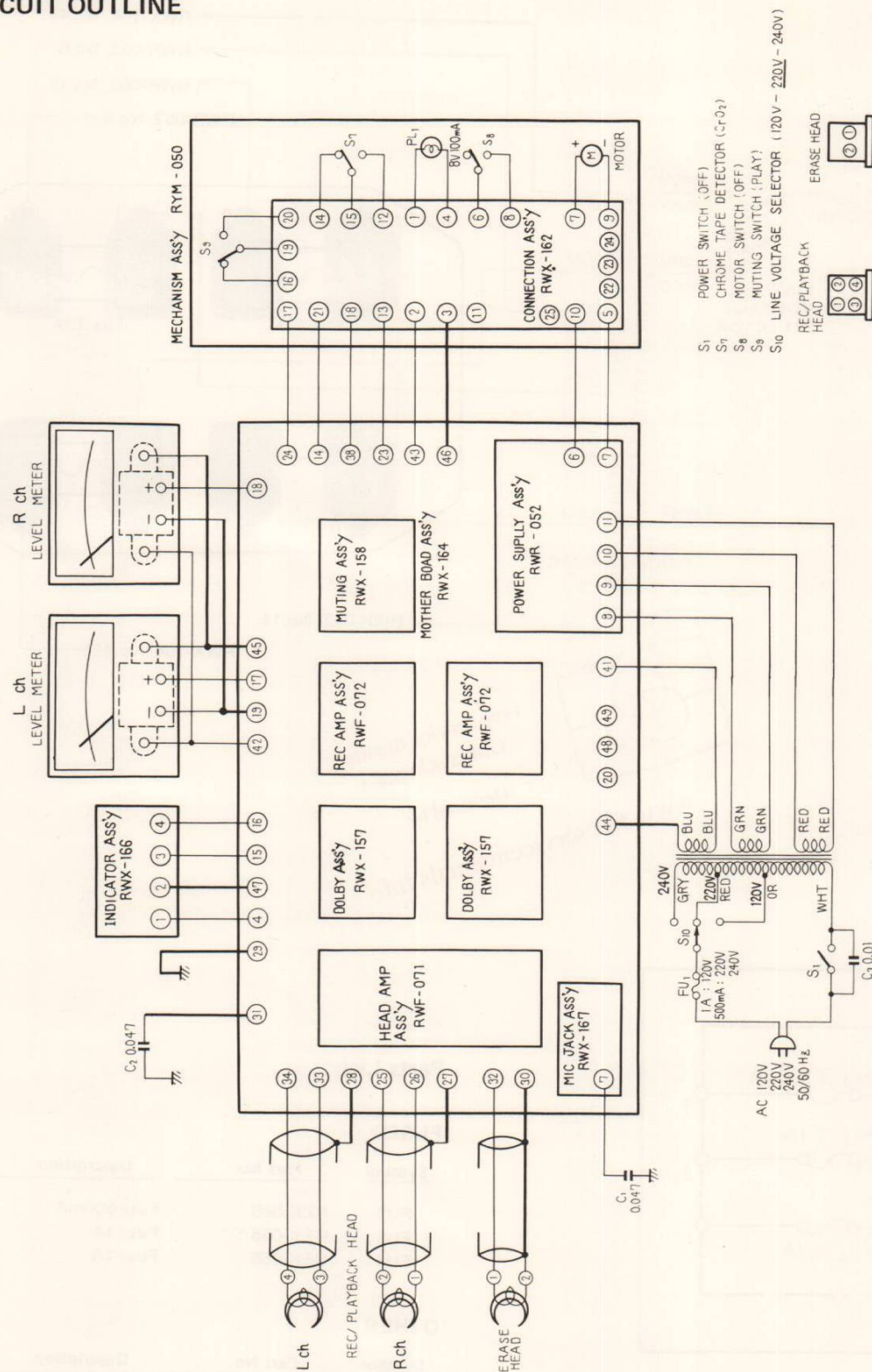
Symbol	Part No.	Description
FU2	REK-049	Fuse 500mA
FU3	REK-056	Fuse 1A
FU4	REK-056	Fuse 1A

OTHER

Symbol	Part No.	Description
	RKR-013	Fuse clip (B)

4. MODEL CT-F4040/D

4.1 CIRCUIT OUTLINE



4.2 SCHEMATIC DIAGRAM

A

B

C

D

A

B

C

D

